

January 3, 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: Remediation Report and Closure Request San Juan 28-6 Unit 102N Rio Arriba County, New Mexico Hilcorp Energy Company NMOCD Incident Number: nAPP2403034973

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Report and Closure Request* associated with a condensate release at the San Juan 28-6 Unit 102N natural gas production well (Site). The Site is located on federal land managed by the Bureau of Land Management (BLM) in Unit I, Section 26, Township 28 North, Range 6 West in Rio Arriba County, New Mexico (Figure 1).

SITE BACKGROUND

On January 29, 2024, Hilcorp discovered a release of 41.58 barrels (bbls) of condensate due to corrosion at the bottom of the on-Site above ground storage tank (AST). Fluids stayed within the secondary containment berm, but no fluids were recovered. Upon discovery, the leak was stopped, and the remaining contents of the tank were drained to the nearby pit. The release volume was determined based on the operator's tank gauging data. Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Notification of Release on January 30, 2024. Hilcorp submitted the initial Form C-141 on February 12, 2024, and the release was assigned NMOCD Incident Number nAPP2403034973. Details regarding all previous sampling/delineation efforts and presentation of the Site characterization information, including a sensitive receptor and geology/hydrogeology review, are summarized in the April 2024 *Remediation Work Plan*.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As presented in the April 26, 2024 *Remediation Work Plan*, the following Closure Criteria for constituents of concern (COCs) have been applied to the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- GRO+DRO: 1,000 mg/kg
- Chloride: 20,000 mg/kg

Remediation Report and Closure Request San Juan 28-6 Unit 102N Hilcorp Energy Company

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EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Because of the areal extent of impacts, volume of impacted soil, and remote location of the Site, soil shredding was chosen as the remediation technique to address impacted soil at the Site. Soil shredding is an ex-situ and on-Site treatment of impacted soil through which impacted material is chemically treated using a chemical oxidant (generally hydrogen peroxide) applied to the soil. Impacted material is excavated from the ground using standard construction techniques and placed onto a soil screening unit using a special shredding bucket. The impacted soil is conveyed by the screening unit and chemical treatment is applied simultaneously. The treated soil is then placed in 100 cubic yard stockpiles and allowed to process for 24 to 48 hours in order for the oxidant to degrade the petroleum hydrocarbon contaminants in the soil.

Based on delineation activities previously performed at the Site, impacted soil was excavated and treated as stated above and was stockpiled in the areas on the well pad. As soil was removed, the excavation sidewalls and floors were field screened using a photoionization detector (PID). Once field screening indicated impacted soil had been removed, 5-point composite samples were collected from the sidewalls and floor of the excavation at a frequency of one sample per 200 square feet. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The 5-point composite samples were collected jars and immediately placed on ice. Samples were submitted to Envirotech Laboratory for analysis of BTEX and TPH following the same methods described above. Notifications were provided to the NMOCD prior to sampling activities and are attached as Appendix A.

Analytical results from the excavation indicated concentrations of TPH and BTEX were compliant with NMOCD Table I Closure Criteria in all confirmation soil samples with the exception of floor samples FS04, FS07, FS10, and FS12 and sidewall sample SW08. Because of this, additional soil was removed from these areas and the floors and sidewall were resampled on November 12, 2024. Analytical results from the November 2024 sampling event indicated impacted soil was successfully removed, and all floor and sidewalls were in compliance with the applicable Closure Criteria. Excavation sample locations are indicated on Figure 2. In total, approximately 1,100 cubic yards of impacted soil was removed from the excavation and treated. Soil sample results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix B. Photographs taken by Ensolum during the excavation work are included in Appendix C.

SOIL SHREDDING STOCKPILE AND VADOSE ZONE SOIL SAMPLING ACTIVITIES

Once treated (as described above), 5-point composite samples were collected for analysis from each 100 cubic yard stockpile (SP01 through SP11). The 5-point composite samples were collected in the manner described above and submitted to Eurofins for TPH and BTEX analysis. Based on analytical results, all treated stockpile samples were in compliance with the applicable NMOCD Table I Closure Criteria. Soil sample results are summarized in Table 2, with complete laboratory analytical reports also included in Appendix B.

Once the treated stockpile soil was removed from the ground surface and placed back into the excavation as backfill, vadose zone soil from below the treatment areas were sampled to assess if petroleum hydrocarbon constituents had leached into the subsurface during the treatment process. A 5-point composite soil sample was collected from beneath the treatment stockpile areas at an approved frequency of one sample per 1,500 square feet, as specified by the NMOCD. The composite sample was collected from the ground surface to a depth of 1 foot below ground surface (bgs), with locations shown on Figure 2. Samples SS01 through SS03 were collected using the manner described above and also submitted for TPH and BTEX analysis. Analytical results from all vadose zone samples indicated concentrations of TPH and BTEX were compliant with the NMOCD reclamation requirement (100 mg/kg of TPH). Soil sample results are summarized in Table 3, with complete laboratory analytical reports attached in Appendix B.

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CONCLUSIONS AND CLOSURE REQUEST

Corrective actions and soil sampling activities were conducted at the Site to address the release discovered on January 29, 2024. Laboratory analytical results from confirmation soil samples, collected from the final extents of the excavation, indicated all COC concentrations were compliant with the Site Closure Criteria and no further remediation is required. Additionally, all soil samples collected from the treated stockpiles and the vadose zone below the treatment stockpiles were also compliant with the applicable Site Closure Criteria and/or reclamation requirement. The corrective action initiated by Hilcorp has mitigated impacts at this Site and these remedial actions have been protective of human health, the environment, and groundwater. As such, Hilcorp respectfully request closure for Incident Number nAPP2403034973.

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

Sincerely, **Ensolum**, LLC Wer Winh

Wes Weichert Project Geologist (816) 266-8732 wweichert@ensolum.com

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

ENSOLUM

Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Confirmation Soil Sample Locations
- Table 1:Excavation Soil Sample Analytical Results
- Table 2:
 Treated Stockpile Soil Sample Analytical Results
- Table 3: Treatment Area Vadose Zone Soil Sample Analytical Results
- Appendix A: Agency Correspondence & Notifications
- Appendix B: Laboratory Analytical Reports
- Appendix C: Photographic Log



FIGURES

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TABLES

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					EXCAVATION	San Juan 28- Hilcorp Energ	E ANALYTICA 6 Unit 102N	L RESULTS					
Sample Identification	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure	Criteria for Soils Release	Impacted by a	10	NE	NE	NE	50	NE	NE	1,000	NE	2,500	20,000
						Excavation Flo	oor Samples						
FS01	11/6/2024	10 - 12	0.0296	1.32	1.28	16.5	19.1296	229	192	421	<50.0	421	<20.0
FS02	11/6/2024	10 - 12	<0.0250	0.745	0.876	10.8	12.421	159	317	476	<50.0	476	<20.0
FS03	11/6/2024	10 - 12	<0.0250	0.100	0.0529	0.728	0.8809	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0
FS04*	11/6/2024	10 - 12	<1.25	19.9	11.3	159	190.2	1,010	2,030	3,040	<50.0	3,040	<20.0
FS04a	11/12/2024	10 - 12	0.0366	1.34	0.870	11.3	13.5466	130	123	253	<50.0	253	<20.0
FS05	11/6/2024	10 - 12	<0.0250	0.523	0.479	6.29	7.292	121	283	404	<50.0	404	<20.0
FS06	11/6/2024	10 - 12	<0.125	1.23	1.23	16.0	18.46	295	440	735	<50.0	735	<20.0
FS07*	11/6/2024	10 - 12	0.0440	2.95	3.22	42.3	48.514	481	845	1,326	<50.0	1,326	<20.0
FS07a	11/12/2024	13 - 14	<0.0250	0.454	0.384	5.66	6.498	73.7	257	330.7	<50.0	330.7	<20.0
FS08	11/6/2024	10 - 12	<0.0250	0.123	0.147	2.04	2.310	50.0	70.4	120.4	<50.0	120.4	<20.0
FS09	11/6/2024	10 - 12	<0.0250	< 0.0250	<0.0250	0.107	0.107	<20.0	<25.0	<25.0	<50.0	<50.0	33.2
FS10*	11/6/2024	10 - 12	0.140	2.98	0.995	12.9	17.015	86.3	2,040	2,126.3	<50.0	2,126.3	<20.0
FS10a	11/12/2024	13 - 14	<0.0250	0.390	0.281	4.00	4.671	56.0	238	294.0	<50.0	294.0	<20.0
FS11	11/6/2024	10 - 12	<0.0250	0.313	0.464	6.52	7.297	111	277	388	<50.0	388	<20.0
FS12*	11/6/2024	10 - 12	<0.500	2.19	3.66	44.3	50.15	1,470	113	1,583	<50.0	1,583	<20.0
FS12a	11/12/2024	13 - 14	<0.0250	0.183	0.223	3.40	3.806	57.6	136	193.6	<50.0	193.6	<20.0
	r	1		I		Excavation Side			I	I	I	I	
SW01	11/6/2024	0 - 12	<0.0250	0.0875	0.0695	0.811	0.9680	25.0	<25.0	25.0	<50.0	25.0	<20.0
SW02	11/6/2024	0 - 12	<0.0250	0.191	0.194	2.29	2.675	65.2	122	187.2	<50.0	187.2	52.6
SW03	11/6/2024	0 - 12	<0.0250	0.0488	0.0557	0.756	0.8605	24.6	32.9	57.5	<50.0	57.5	<20.0
SW04	11/6/2024	0 - 12	<0.0250	<0.0250	<0.0250	0.118	0.118	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0
SW05	11/6/2024	0 - 12	<0.0250	0.0339	0.0272	0.418	0.4791	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0
SW06	11/6/2024	0 - 12	0.0312	1.95	2.23	29.1	33.3112	333	622	955	<50.0	955	<20.0
SW07	11/6/2024	0 - 12	<0.0250	0.238	0.370	4.70	5.308	85.7	155	240.7	<50.0	240.7	<20.0
SW08*	11/6/2024	0 - 12	<0.500	7.12	5.86	87.1	100.08	890	1,010	1,900	<50.0	1,900	<20.0
SW08a	11/12/2024	0 - 14	<0.0250	<0.0250	<0.0250	0.192	0.192	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0
SW09	11/6/2024	0 - 12	<0.0250	0.0937	0.0979	1.39	1.5816	33.4	64.1	97.5	<50.0	97.5	<20.0
SW10	11/6/2024	0 - 12	<0.0250	<0.0250	<0.0250	0.179	0.179	<20.0	<25.0	<25.0	<50.0	<50.0	23.6
SW11	11/6/2024	0 - 12	<0.0250	<0.0250	<0.0250	0.0848	0.0848	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0
SW12	11/6/2024	0 - 12	<0.0250	< 0.0250	<0.0250	0.119	0.119	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0
SW13	11/6/2024	0 - 12	< 0.0250	0.135	0.138	1.94	2.213	39.0	85.3	124.3	<50.0	124.3	<20.0
SW14	11/6/2024	0 - 12	<0.0250	0.0516	0.0291	0.469	0.5497	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0

Notes:

bgs: Below ground surface BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes DRO: Diesel Range Organics GRO: Gasoline Range Organics mg/kg: Milligrams per kilogram MRO: Motor Oil/Lube Oil Range Organics NE: Not Established

NMOCD: New Mexico Oil Conservation Division

TPH: Total Petroleum Hydrocarbon

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

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

* indicates soil sample area was removed during excavation activities and subsequently resampled



	TABLE 2 TREATED STOCKPILE SOIL SAMPLE ANALYTICAL RESULTS San Juan 28-6 Unit 102N Hilcorp Energy Company Rio Arriba County, New Mexico											
Sample Identification	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	
NMOCD Closure (Impacted by		10	NE	NE	NE	50	NE	NE	1,000	NE	2,500	
SP01	11/14/2024	<0.0250	0.0662	0.280	5.65	5.9962	101	94.4	195.4	<50.0	195.4	
SP02	11/14/2024	<0.0250	<0.0250	0.159	4.13	4.289	88.7	91.3	180.0	<50.0	180.0	
SP03	11/14/2024	<0.0250	0.0660	0.340	10.1	10.5060	133	60.3	193.3	<50.0	193.3	
SP04	11/14/2024	<0.0250	<0.0250	0.196	5.08	5.276	96.7	72.4	169.1	<50.0	169.1	
SP05	11/14/2024	<0.0250	0.0592	0.295	8.63	8.9842	130	110	240	<50.0	240	
SP06	11/14/2024	<0.0250	0.401	0.545	12.7	13.646	169	60.1	229.1	<50.0	229.1	
SP07	11/14/2024	<0.0250	0.167	0.441	10.5	11.108	165	38.2	203.2	<50.0	203.2	
SP08	11/14/2024	<0.0250	0.296	0.543	12.6	13.439	171	38.4	209.4	<50.0	209.4	
SP09	11/15/2024	<0.0250	<0.0250	< 0.0250	2.26	2.26	112	159	271	<50.0	271	
SP10	11/15/2024	<0.0250	<0.0250	< 0.0250	0.651	0.651	87.8	53.1	140.9	<50.0	140.9	
SP11	11/15/2024	<0.0250	<0.0250	<0.0250	4.76	4.76	176	108	284	<50.0	284	

Notes:

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: Milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics MRO: Motor Oil/Lube Oil Range Organics TPH: Total Petroleum Hydrocarbon



	TABLE 3 TREATMENT AREA VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS San Juan 28-6 Unit 102N Hilcorp Energy Company Rio Arriba County, New Mexico										
Sample Identification	Date	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)	
NMOCD Reclama Soils Impacted		10	NE	NE	NE	50	NE	NE	NE	100	
SS01	12/3/2024	< 0.0250	< 0.0250	< 0.0250	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	
SS02	12/3/2024	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	
SS03	12/3/2024	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	

Notes:

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: Milligrams per kilogram

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics MRO: Motor Oil/Lube Oil Range Organics TPH: Total Petroleum Hydrocarbon



APPENDIX A

Agency Correspondence and Notifications

From:	Samantha Grabert
То:	Stuart Hyde
Subject:	FW: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 338122
Date:	Monday, November 18, 2024 4:02:17 PM
Attachments:	image002.png
	image003.png
	image004.png
	image006.png

[**EXTERNAL EMAIL**]

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, May 10, 2024 10:40 AM
To: Stuart Hyde <shyde@ensolum.com>; Samantha Grabert <Samantha.Grabert@hilcorp.com>
Cc: Wes Weichert <wweichert@ensolum.com>
Subject: Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 338122

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Good morning Stuart,

Thanks for the inquiry. To answer your first question; no, but that should have been within the approved remediation plan. To include this, you must modify the remediation plan and re-submit.

The second question pertains to the reclamation of on-pad releases; answer is no, only the closure standard while the gas well is operational. If you did meet the reclamation standards, then you would alleviate the requirements at P&A for the gas well.

If you have any further questions or concerns, please reach me at your convenience.

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.state.nm.us/OCD/



From: Stuart Hyde <<u>shyde@ensolum.com</u>>
Sent: Thursday, May 9, 2024 9:46 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Samantha Grabert
<<u>Samantha.Grabert@hilcorp.com</u>>
Cc: Wes Weichert <<u>wweichert@ensolum.com</u>>
Subject: RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,

Application ID: 338122

Nelson,

One last question on the conditions of approval stated below. Condition 1, if Hilcorp puts a liner down in the area where we plan to stockpile treated soil, would they still be subject to sampling the vadose zone once soil is removed?

Condition 2 pertaining to the reclamation requirement, it is our understanding that the reclamation standards are for areas not is use for production purposes. As such, would soil in areas on the active well pad need to meet the reclamation requirement of 100 mg/kg TPH and 600 mg/kg chloride in the top four feet of soil?

Thanks for clarifying. These questions also pertain to the soil shredding work that will be performed at the Hilcorp 27-5 #111 remediation site. Thanks.



Stuart Hyde, PG (Licensed in WA/TX) Senior Managing Geologist 970-903-1607 Ensolum, LLC in f X

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

From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Wednesday, May 1, 2024 2:54 PM
To: Samantha Grabert <<u>Samantha.Grabert@hilcorp.com</u>>; Stuart Hyde <<u>shyde@ensolum.com</u>>
Cc: Wes Weichert <<u>wweichert@ensolum.com</u>>

Subject: Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 338122

[**EXTERNAL EMAIL**]

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.state.nm.us/OCD/_



From: Samantha Grabert <<u>Samantha.Grabert@hilcorp.com</u>>
Sent: Wednesday, May 1, 2024 2:52 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Stuart Hyde <<u>shyde@ensolum.com</u>>
Cc: Wes Weichert <<u>wweichert@ensolum.com</u>>
Subject: RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,
Application ID: 338122

Got it, thank you again!

From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>

Sent: Wednesday, May 1, 2024 3:49 PM

To: Samantha Grabert <<u>Samantha.Grabert@hilcorp.com</u>>; Stuart Hyde <<u>shyde@ensolum.com</u>>
Cc: Wes Weichert <<u>wweichert@ensolum.com</u>>

Subject: Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 338122

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Correct.

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.state.nm.us/OCD/_



From: Samantha Grabert <<u>Samantha.Grabert@hilcorp.com</u>>
Sent: Wednesday, May 1, 2024 2:48 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Stuart Hyde <<u>shyde@ensolum.com</u>>
Cc: Wes Weichert <<u>wweichert@ensolum.com</u>>
Subject: RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,
Application ID: 338122

Thank you for clarifying, Nelson. Just for further clarification, this approval is intended for the San Juan 28-6 Unit 102N location, correct?

From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Wednesday, May 1, 2024 3:41 PM
To: Stuart Hyde <<u>shyde@ensolum.com</u>>
Cc: Wes Weichert <<u>wweichert@ensolum.com</u>>; Samantha Grabert
<<u>Samantha.Grabert@hilcorp.com</u>>
Subject: Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,
Application ID: 338122

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Stuart,

Thanks for the correspondence. Slight brain malfunction during that part of the write up. My apology, it is for Hilcorp.

Have a safe and productive day!

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.state.nm.us/OCD/_



From: Stuart Hyde <shyde@ensolum.com>
Sent: Wednesday, May 1, 2024 2:26 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Wes Weichert <<u>wweichert@ensolum.com</u>>; Samantha Grabert
<<u>Samantha.Grabert@hilcorp.com</u>>
Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has approved the application,

Application ID: 338122

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Nelson,

I just received the notification below for approval of soil shredding. The incident number is for the Hilcorp San Juan 28-6 Unit 102N site, but the text below references Western Refining Pipeline. I just want to make sure we have the correct approval. Thanks so much and let us know if we need to discuss. Thanks!



Stuart Hyde, PG (Licensed in WA/TX) Senior Managing Geologist 970-903-1607 Ensolum, LLC in f X

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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, May 1, 2024 1:07 PM
To: Stuart Hyde <<u>shyde@ensolum.com</u>>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 338122

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2403034973, with the following conditions:

Remediation plan is approved under the following conditions; 1. Once treated stockpiles have been sampled and properly disposed, vadose zone beneath treated stockpile must be sampled by collecting, at a minimum, five (5)-point composite samples (5pcs). Sampling depths should be from grade to a maximum of one (1) foot below grade, sampling area of treated soil locations should be no more than 1,500 square feet (ft.) per one(1) 5pcs, and meet the applicable closure standards. 2. Any soils used in the top four (4) ft. from grade must meet the reclamation standards of 100 mg/Kg for TPH per US EPA Method 8015M, 10 mg/Kg for benzene, and 50 mg/Kg for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Methods 8021 or 8260B. 3. Western Refining Pipeline has 90 days (July 30, 2024) to initiate the soil shredding process. 4. Western Refining Pipeline has 180 days (October 28, 2024) to submit to OCD its appropriate or final remediation closure report.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Nelson Velez Environmental Specialist - Advanced 505-469-6146 <u>Nelson.Velez@emnrd.nm.gov</u>

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

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From:	OCDOnline@state.nm.us
To:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 396708
Date:	Tuesday, October 29, 2024 11:08:27 AM

EXTERNAL EMAIL]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2403034973.

The sampling event is expected to take place:

When: 11/04/2024 @ 08:30 Where: I-26-28N-06W 1590 FSL 195 FEL (36.6293411,-107.428154)

Additional Information: Contact PM Stuart Hyde 970-903-1607 Sampling will be conducted during soil shredding operations between Monday 11/4/2024 and Friday 11/8/2024

Additional Instructions: SAN JUAN 28 6 UNIT #102N (API: 30-039-27600) Rio Arriba County (36.6293411,-107.428154)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

From:	Velez, Nelson, EMNRD
То:	Wes Weichert
Cc:	<u>Stuart Hyde</u>
Subject:	Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 400398
Date:	Thursday, November 7, 2024 2:00:29 PM
Attachments:	image002.png
	image003.png
	image005.png
	image006.png

[**EXTERNAL EMAIL**]

Good afternoon Wes,

Your variance request specifically taddressing 19.15.29.12D (1a) NMAC is approved.

Please include this within the next appropriate reporting submitted.

Regards,

Nelson Velez Environmental Specialist-Adv EMNRD / NMOCD

Get Outlook for iOS

From: Wes Weichert <wweichert@ensolum.com>
Sent: Thursday, November 7, 2024 11:57:57 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stuart Hyde <shyde@ensolum.com>
Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 400398

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

Due to inclement weather conditions, including snow and rain, sampling activities at SAN JUAN 28 6 UNIT #102N (API: 30-039-27600) cannot be completed this week as scheduled. Accordingly, we are requesting a variance from the 2-business day sampling notification requirement outlined in 9.15.29.12(D)(1)(a) to allow soil sampling at the SAN JUAN 28 6 UNIT #102N to occur from **Monday**, **November 11**, through **Friday**, **November 15**, **2024**, beginning at 8:30 am each day.

Please let me know if you have any questions.

Best regards,



Wes Weichert, PG* *Licensed in Wyoming Project Geologist 816-266-8732 Ensolum, LLC in f

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, November 7, 2024 11:49 AM
To: Stuart Hyde <<u>shyde@ensolum.com</u>>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 400398

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2403034973.

The sampling event is expected to take place:

When: 11/11/2024 @ 08:30 **Where:** I-26-28N-06W 1590 FSL 195 FEL (36.6293411,-107.428154)

Additional Information: Contact PM Stuart Hyde 970-903-1607 - confirmation sampling for soil shredding operations.

Additional Instructions: SAN JUAN 28 6 UNIT #102N (API: 30-039-27600) Rio Arriba County (36.6293411,-107.428154)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

From:	OCDOnline@state.nm.us
To:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 404692
Date:	Tuesday, November 19, 2024 9:31:50 AM

EXTERNAL EMAIL]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2403034973.

The sampling event is expected to take place:

When: 12/03/2024 @ 09:00 **Where:** I-26-28N-06W 1590 FSL 195 FEL (36.6293411,-107.428154)

Additional Information: Contact PM Stuart Hyde 970-903-1607 Vadose zone sampling

Additional Instructions: SAN JUAN 28 6 UNIT #102N (API: 30-039-27600) Rio Arriba County (36.6293411,-107.428154)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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



APPENDIX B

Laboratory Analytical Reports



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: San Ju

San Juan 28-6 Unit 102N

Work Order: E411071

Job Number: 17051-0002

Received: 11/7/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 11/8/24

Stuart Hyde PO Box 61529 Houston, TX 77208

Project Name: San Juan 28-6 Unit 102N Workorder: E411071 Date Received: 11/7/2024 12:16:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 12:16:00PM, under the Project Name: San Juan 28-6 Unit 102N.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 Unit 102N apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com





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Sample Summary

		Sample Sum	J				
Hilcorp Energy Co	Project Name:	San Juan 28-6 Unit	t 102N	Reported:			
PO Box 61529	Project Number:	17051-0002		•			
Houston TX, 77208		Project Manager:	Stuart Hyde		11/08/24 15:32		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		
W01	E411071-01A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W02	E411071-02A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W03	E411071-03A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W04	E411071-04A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W05	E411071-05A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W06	E411071-06A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W07	E411071-07A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W08	E411071-08A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W09	E411071-09A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W10	E411071-10A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W11	E411071-11A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W12	E411071-12A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W13	E411071-13A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
W14	E411071-14A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
S01	E411071-15A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
802	E411071-16A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
\$03	E411071-17A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
S04	E411071-18A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
S05	E411071-19A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
S06	E411071-20A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
807	E411071-21A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
S08	E411071-22A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
509	E411071-23A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
\$10	E411071-24A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
S11	E411071-25A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		
S12	E411071-26A	Soil	11/06/24	11/07/24	Glass Jar, 4 oz.		



		imple D	ala				
Hilcorp Energy Co	Project Name:		Juan 28-6 V	Unit 102	2N		D (1
PO Box 61529	Project Number:		51-0002				Reported: 11/8/2024 3:32:04PM
Houston TX, 77208	Project Manag	er: Stua	rt Hyde				11/8/2024 3:32:04PM
		SW01					
]	E411071-01					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	BA		Batch: 2445120
Benzene	ND	0.0250		1	11/07/24	11/07/24	
Ethylbenzene	0.0695	0.0250		1	11/07/24	11/07/24	
Toluene	0.0875	0.0250		1	11/07/24	11/07/24	
p-Xylene	0.187	0.0250		1	11/07/24	11/07/24	
o,m-Xylene	0.624	0.0500		1	11/07/24	11/07/24	
Fotal Xylenes	0.811	0.0250		1	11/07/24	11/07/24	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130		11/07/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	25.0	20.0		1	11/07/24	11/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	70-130		11/07/24	11/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2445116
Diesel Range Organics (C10-C28)	ND	25.0		1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0		1	11/07/24	11/07/24	
Surrogate: n-Nonane		105 %	50-200		11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2445118
Chloride	ND	20.0		1	11/07/24	11/07/24	

Sample Data



Sample Data

	Sa	mpic D	ala			
Hilcorp Energy Co PO Box 61529	Project Name: Project Numbe		Juan 28-6 Unit 1 51-0002	02N		Reported:
Houston TX, 77208	Project Manage		rt Hyde			11/8/2024 3:32:04PM
		SW02				
]	E411071-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.194	0.0250	1	11/07/24	11/08/24	
Foluene	0.191	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.585	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	1.70	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	2.29	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	65.2	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2445116
Diesel Range Organics (C10-C28)	122	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		112 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2445118
Chloride	52.6	20.0	1	11/07/24	11/07/24	



Sample Data

	50	ampic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: Project Numbe Project Manag	er: 170	Juan 28-6 Unit 10 51-0002 rt Hyde	02N		Reported: 11/8/2024 3:32:04PM
		SW03				
		E411071-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: BA		
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.0557	0.0250	1	11/07/24	11/08/24	
Toluene	0.0488	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.196	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	0.561	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	0.756	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2445120	
Gasoline Range Organics (C6-C10)	24.6	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.5 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: NV			Batch: 2445116
Diesel Range Organics (C10-C28)	32.9	25.0	1	11/07/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		98.4 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	56	impic D	ata			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10			
PO Box 61529	Project Numbe	er: 170	51-0002	Reported:		
Houston TX, 77208	Project Manag	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		SW04				
		E411071-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	0.0434	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	0.0743	0.0500	1	11/07/24	11/08/24	
Total Xylenes	0.118	0.0250	1	11/07/24	11/08/24	
urrogate: 4-Bromochlorobenzene-PID		101 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: BA		Batch: 2445120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV			Batch: 2445116
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		96.6 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	~	ampie D				
Hilcorp Energy Co	Project Name:	: San	Juan 28-6 Unit 1	02N		
PO Box 61529	Project Numb	er: 170	51-0002		Reported:	
Houston TX, 77208	Project Manag	11/8/2024 3:32:04PM				
		SW05				
		E411071-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2445120	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.0272	0.0250	1	11/07/24	11/08/24	
Foluene	0.0339	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.121	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	0.297	0.0500	1	11/07/24	11/08/24	
Total Xylenes	0.418	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: BA		Batch: 2445120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2445116		
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		103 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	mg/kg Analyst: DT			Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

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Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 1	102N		
PO Box 61529	Project Number	r: 170:	51-0002	Reported:		
Houston TX, 77208	Project Manage	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		SW06				
]	E411071-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2445120	
Benzene	0.0312	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	2.23	0.0250	1	11/07/24	11/08/24	
Toluene	1.95	0.0250	1	11/07/24	11/08/24	
p-Xylene	6.33	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	22.7	0.0500	1	11/07/24	11/08/24	
Total Xylenes	29.1	0.0250	1	11/07/24	11/08/24	
urrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2445120	
Gasoline Range Organics (C6-C10)	333	20.0	1	11/07/24	11/08/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		141 %	70-130	11/07/24	11/08/24	SI
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: NV		Batch: 2445116	
Diesel Range Organics (C10-C28)	622	25.0	1	11/07/24	11/07/24	Т9
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		225 %	50-200	11/07/24	11/07/24	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	Da	mpic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: Project Number Project Manage	r: 170	Juan 28-6 Unit 51-0002 rt Hyde	102N		Reported: 11/8/2024 3:32:04PM
		SW07				
]	E411071-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2445120	
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.370	0.0250	1	11/07/24	11/08/24	
Toluene	0.238	0.0250	1	11/07/24	11/08/24	
p-Xylene	1.18	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	3.52	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	4.70	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	kg Analyst: BA		Batch: 2445120	
Gasoline Range Organics (C6-C10)	85.7	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		114 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	Batch: 2445116		
Diesel Range Organics (C10-C28)	155	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		118 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	Batch: 2445118		
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

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Hilcorp Energy Co	Project Name:		Juan 28-6 Unit 10	Reported:		
PO Box 61529	Project Numb					
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			11/8/2024 3:32:04PM
		SW08				
		E411071-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: BA		Batch: 2445120
Benzene	ND	0.500	20	11/07/24	11/08/24	
Ethylbenzene	5.86	0.500	20	11/07/24	11/08/24	
Toluene	7.12	0.500	20	11/07/24	11/08/24	
p-Xylene	22.7	0.500	20	11/07/24	11/08/24	
o,m-Xylene	64.4	1.00	20	11/07/24	11/08/24	
Total Xylenes	87.1	0.500	20	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2445120	
Gasoline Range Organics (C6-C10)	890	400	20	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: NV		Batch: 2445116	
Diesel Range Organics (C10-C28)	1010	25.0	1	11/07/24	11/07/24	Т9
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		397 %	50-200	11/07/24	11/07/24	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	


Sample Data

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Hilcorp Energy Co	Project Name:	: San	Juan 28-6 Unit 1	02N		
PO Box 61529	Project Numbe	er: 170	51-0002		Reported:	
Houston TX, 77208	Project Manag	ger: Stua	ırt Hyde			11/8/2024 3:32:04PM
		SW09				
		E411071-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.0979	0.0250	1	11/07/24	11/08/24	
Toluene	0.0937	0.0250	1	11/07/24	11/08/24	
o-Xylene	0.401	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	0.992	0.0500	1	11/07/24	11/08/24	
Total Xylenes	1.39	0.0250	1	11/07/24	11/08/24	
urrogate: 4-Bromochlorobenzene-PID		109 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	33.4	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2445116
Diesel Range Organics (C10-C28)	64.1	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		104 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

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Hilcorp Energy Co	Project Name:		Juan 28-6 U				
PO Box 61529	Project Number		51-0002				Reported:
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde				11/8/2024 3:32:04PM
		SW10					
		E411071-10					
		Reporting					
Analyte	Result	Limit	Dilut	ion Pre	epared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	Analyst: BA			Batch: 2445120
Benzene	ND	0.0250	1	11/	07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/	07/24	11/08/24	
Toluene	ND	0.0250	1	11/	07/24	11/08/24	
p-Xylene	0.0440	0.0250	1	11/	07/24	11/08/24	
o,m-Xylene	0.135	0.0500	1	11/	07/24	11/08/24	
Fotal Xylenes	0.179	0.0250	1	11/	07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/	07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA			Batch: 2445120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/	07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	11/	/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: NV			Batch: 2445116
Diesel Range Organics (C10-C28)	ND	25.0	1	11/	07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/	07/24	11/07/24	
Surrogate: n-Nonane		91.1 %	50-200	11/	/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT			Batch: 2445118
Chloride	23.6	20.0	1	11/	07/24	11/07/24	



Sample Data

	0	ampic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name Project Numb Project Manaş	per: 1703	Juan 28-6 Unit 1 51-0002 irt Hyde	102N		Reported: 11/8/2024 3:32:04PM
		SW11				
		E411071-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
-Xylene	0.0270	0.0250	1	11/07/24	11/08/24	
,m-Xylene	0.0579	0.0500	1	11/07/24	11/08/24	
Total Xylenes	0.0848	0.0250	1	11/07/24	11/08/24	
urrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV			Batch: 2445116
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		89.4 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	5	ampic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: Project Numbe Project Manag	er: 170	Juan 28-6 Unit 1 51-0002 rt Hyde	02N		Reported: 11/8/2024 3:32:04PM
		SW12				
		E411071-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.0363	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	0.0829	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	0.119	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	cg Analyst: NV			Batch: 2445116
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		98.2 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	D.	impic D	ata			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10)2N		
PO Box 61529	Project Numbe	er: 170	51-0002	Reported:		
Houston TX, 77208	Project Manag	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		SW13				
		E411071-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.138	0.0250	1	11/07/24	11/08/24	
Toluene	0.135	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.517	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	1.43	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	1.94	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	39.0	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: NV			Batch: 2445116
Diesel Range Organics (C10-C28)	85.3	25.0	1	11/07/24	11/08/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		111 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	5	ample D	ลเล			
Hilcorp Energy Co	Project Name:	: San	Juan 28-6 Uni	t 102N		
PO Box 61529	Project Numbe	er: 170:	51-0002	Reported:		
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			11/8/2024 3:32:04PM
		SW14				
		E411071-14				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.0291	0.0250	1	11/07/24	11/08/24	
Toluene	0.0516	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.136	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	0.333	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	0.469	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2445116
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		113 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	Nu Nu	imple D				
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10)2N		
PO Box 61529	Project Number	r: 170:	51-0002	Reported:		
Houston TX, 77208	Project Manage	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS01				
]	E411071-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2445120
Benzene	0.0296	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	1.28	0.0250	1	11/07/24	11/08/24	
Toluene	1.32	0.0250	1	11/07/24	11/08/24	
p-Xylene	3.28	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	13.2	0.0500	1	11/07/24	11/08/24	
Total Xylenes	16.5	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	229	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		130 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2445116
Diesel Range Organics (C10-C28)	192	25.0	1	11/07/24	11/08/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		128 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

		impic D				
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10)2N		
PO Box 61529	Project Number	r: 170	51-0002		Reported:	
Houston TX, 77208	Project Manage	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS02				
]	E411071-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.876	0.0250	1	11/07/24	11/08/24	
Foluene	0.745	0.0250	1	11/07/24	11/08/24	
p-Xylene	2.47	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	8.35	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	10.8	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	159	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		124 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2445116
Diesel Range Organics (C10-C28)	317	25.0	1	11/07/24	11/08/24	Т9
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		147 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/07/24	



Sample Data

	56	ampic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: Project Numbe Project Manag	er: 170	Juan 28-6 Unit 10 51-0002 nt Hyde)2N		Reported: 11/8/2024 3:32:04PM
		FS03				
		E411071-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.0529	0.0250	1	11/07/24	11/08/24	
Toluene	0.100	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.185	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	0.544	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	0.728	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445116
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		106 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/08/24	



Sample Data

		imple D	uu				
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	2N			
PO Box 61529	Project Numbe	er: 170:	51-0002	Reported:			
Houston TX, 77208	Project Manag	ger: Stua	ırt Hyde			11/8/2024 3:32:04PM	
		FS04					
		E411071-18					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: BA		Batch: 2445120	
Benzene	ND	1.25	50	11/07/24	11/08/24		
Ethylbenzene	11.3	1.25	50	11/07/24	11/08/24		
Toluene	19.9	1.25	50	11/07/24	11/08/24		
o-Xylene	33.5	1.25	50	11/07/24	11/08/24		
p,m-Xylene	126	2.50	50	11/07/24	11/08/24		
Total Xylenes	159	1.25	50	11/07/24	11/08/24		
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/07/24	11/08/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: BA		Batch: 2445120	
Gasoline Range Organics (C6-C10)	1010	1000	50	11/07/24	11/08/24		
urrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	11/07/24	11/08/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: NV		Batch: 2445116	
Diesel Range Organics (C10-C28)	2030	25.0	1	11/07/24	11/08/24	Т9	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24		
Surrogate: n-Nonane		609 %	50-200	11/07/24	11/08/24	<i>S5</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: DT		Batch: 2445118	
Chloride	ND	20.0	1	11/07/24	11/08/24		



Sample Data

		impic D				
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10)2N		
PO Box 61529	Project Numbe	er: 170	51-0002		Reported:	
Houston TX, 77208	Project Manage	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS05				
		E411071-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.479	0.0250	1	11/07/24	11/08/24	
Toluene	0.523	0.0250	1	11/07/24	11/08/24	
p-Xylene	1.30	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	4.99	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	6.29	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	121	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		129 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2445116
Diesel Range Organics (C10-C28)	283	25.0	1	11/07/24	11/08/24	Т9
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		132 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/08/24	



Sample Data

	56	ampic D	ata			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	2N		
PO Box 61529	Project Numbe	er: 170:	51-0002	Reported:		
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS06				
		E411071-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: BA		Batch: 2445120
Benzene	ND	0.125	5	11/07/24	11/08/24	
Ethylbenzene	1.23	0.125	5	11/07/24	11/08/24	
Toluene	1.23	0.125	5	11/07/24	11/08/24	
o-Xylene	3.85	0.125	5	11/07/24	11/08/24	
p,m-Xylene	12.1	0.250	5	11/07/24	11/08/24	
Total Xylenes	16.0	0.125	5	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		89.1 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: BA		Batch: 2445120
Gasoline Range Organics (C6-C10)	295	100	5	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: NV		Batch: 2445116
Diesel Range Organics (C10-C28)	440	25.0	1	11/07/24	11/08/24	Т9
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		148 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: DT		Batch: 2445118
Chloride	ND	20.0	1	11/07/24	11/08/24	



Sample Data

			ata			
Hilcorp Energy Co	Project Name:		Juan 28-6 Unit 10	2N		
PO Box 61529	Project Numbe		51-0002			Reported:
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS07				
		E411071-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	t: BA		Batch: 2445110
Benzene	0.0440	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	3.22	0.0250	1	11/07/24	11/08/24	
Toluene	2.95	0.0250	1	11/07/24	11/08/24	
p-Xylene	9.53	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	32.7	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	42.3	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	t: BA		Batch: 2445110
Gasoline Range Organics (C6-C10)	481	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		171 %	70-130	11/07/24	11/08/24	SI
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	t: NV		Batch: 2445117
Diesel Range Organics (C10-C28)	845	25.0	1	11/07/24	11/07/24	Т9
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		274 %	50-200	11/07/24	11/07/24	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: DT		Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	



Sample Data

		imple D				
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10)2N		
PO Box 61529	Project Numbe	er: 170	51-0002	Reported:		
Houston TX, 77208	Project Manage	er: Stua	ırt Hyde			11/8/2024 3:32:04PM
		FS08				
		E411071-22				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2445110
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.147	0.0250	1	11/07/24	11/08/24	
Toluene	0.123	0.0250	1	11/07/24	11/08/24	
-Xylene	0.527	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	1.51	0.0500	1	11/07/24	11/08/24	
Total Xylenes	2.04	0.0250	1	11/07/24	11/08/24	
urrogate: 4-Bromochlorobenzene-PID		89.3 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2445110
Gasoline Range Organics (C6-C10)	50.0	20.0	1	11/07/24	11/08/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2445117
Diesel Range Organics (C10-C28)	70.4	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		105 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	Batch: 2445119					
Chloride	ND	20.0	1	11/07/24	11/08/24	



Sample Data

			ata			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	2N		
PO Box 61529	Project Numbe	er: 170	51-0002			Reported:
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS09				
		E411071-23				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2445110
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
p-Xylene	0.0332	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	0.0734	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	0.107	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		88.6 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2445110
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2445117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		101 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2445119
Chloride	33.2	20.0	1	11/07/24	11/08/24	



Sample Data

Da	mpic D	ata			
Project Name:	San	Juan 28-6 Unit	102N		
Project Number	r: 170:	51-0002			Reported:
Project Manage	er: Stua	rt Hyde			11/8/2024 3:32:04PM
	FS10				
I	E411071-24				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: BA		Batch: 2445110
0.140	0.0250	1	11/07/24	11/08/24	
0.995	0.0250	1	11/07/24	11/08/24	
2.98	0.0250	1	11/07/24	11/08/24	
2.64	0.0250	1	11/07/24	11/08/24	
10.3	0.0500	1	11/07/24	11/08/24	
12.9	0.0250	1	11/07/24	11/08/24	
9	90.4 %	70-130	11/07/24	11/08/24	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2445110
86.3	20.0	1	11/07/24	11/08/24	
	103 %	70-130	11/07/24	11/08/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2445117
2040	25.0	1	11/07/24	11/07/24	Т9
ND	50.0	1	11/07/24	11/07/24	
	616 %	50-200	11/07/24	11/07/24	<i>S5</i>
mg/kg	mg/kg	Anal	vst· DT		Batch: 2445119
mg/kg	mg/kg	7 that			Batell: 211311)
	Project Name: Project Number Project Manage Result mg/kg 0.140 0.995 2.98 2.64 10.3 12.9 2.64 10.3 12.9 2.64 10.3 12.9	Image Same Project Names: 1705 Project Number: 1705 Project Manager: Stuation Project Manager: Stuation FS10 E411071-24 Result Limit mg/kg mg/kg 0.140 0.0250 0.995 0.0250 2.98 0.0250 2.64 0.0250 10.3 0.0500 12.9 0.0250 2.64 0.0250 2.64 0.0250 10.3 0.0500 12.9 0.0250 2.040 20.0 103 % 103 % mg/kg mg/kg mg/kg 20.0 ND 50.0	Project Number: 17051-0002 Project Manager: Stuart Hyde FS10 FS10 E411071-24 Result Limit Dilution mg/kg mg/kg Anal 0.140 0.0250 1 0.995 0.0250 1 2.98 0.0250 1 10.3 0.0500 1 10.3 0.0500 1 10.3 0.0500 1 mg/kg mg/kg Anal 86.3 20.0 1 103 % 70-130 1 mg/kg mg/kg Anal 103 % 70-130 1 103 % 20.0 1 103 % 20.0 1 mg/kg mg/kg Anal 101 50.0 1 101 50.0 1 101 50.0 1 101 50.0 1 101 50.0 1 101 50.0 1	I Project Name: San Juan 28-6 Unit 102N Project Number: 17051-0002 Project Manager: Stuart Hyde FS10 FS10 FS10 FS10 FS10 FS10 Result Dilution Prepared mg/kg mg/kg Analyst: BA 0.140 0.0250 1 11/07/24 0.995 0.0250 1 11/07/24 2.98 0.0250 1 11/07/24 2.64 0.0250 1 11/07/24 10.3 0.0500 1 11/07/24 10.3 0.0250 1 11/07/24 10.3 0.0250 1 11/07/24 10.4 0.0250 1 11/07/24 10.3 0.0250 1 11/07/24 10.3 0.0250 1 11/07/24 10.3 0.0250 1 11/07/24 10.3 0.0250 1 11/07/24	Image: San Juan 28-6 Unit 102N Project Name: San Juan 28-6 Unit 102N Project Number: 17051-0002 Project Manager: Stuart Hyde FS10 FS10 FS10 FS10 FS10 FE11071-24 Result Dilution Prepared Analyzed Mg/kg mg/kg Analyst: BA Intervention Intervention 0.140 0.0250 1 11/07/24 11/08/24 0.140 0.0250 1 11/07/24 11/08/24 0.995 0.0250 1 11/07/24 11/08/24 2.98 0.0250 1 11/07/24 11/08/24 10.3 0.0500 1 11/07/24 11/08/24 11.0 0.0250 1 11/07/24 11/08/24 90.4 % 70-130 11/07/24 11/08/24 mg/kg mg/kg Analyst: NU Intervention 90.4 % 70-130 11/07/24 11/08/24 Mg/g </td



Sample Data

		impic D				
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	2N		
PO Box 61529	Project Numbe	er: 170	51-0002			Reported:
Houston TX, 77208	Project Manag	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS11				
		E411071-25				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2445110
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	0.464	0.0250	1	11/07/24	11/08/24	
Toluene	0.313	0.0250	1	11/07/24	11/08/24	
p-Xylene	1.45	0.0250	1	11/07/24	11/08/24	
o,m-Xylene	5.07	0.0500	1	11/07/24	11/08/24	
Fotal Xylenes	6.52	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2445110
Gasoline Range Organics (C6-C10)	111	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		127 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2445117
Diesel Range Organics (C10-C28)	277	25.0	1	11/07/24	11/07/24	Т9
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		136 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	



Sample Data

		impic D				
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	2N		
PO Box 61529	Project Numbe	r: 170	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Stua	rt Hyde			11/8/2024 3:32:04PM
		FS12				
]	E411071-26				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: BA		Batch: 2445110
Benzene	ND	0.500	20	11/07/24	11/08/24	
Ethylbenzene	3.66	0.500	20	11/07/24	11/08/24	
Toluene	2.19	0.500	20	11/07/24	11/08/24	
p-Xylene	11.8	0.500	20	11/07/24	11/08/24	
o,m-Xylene	32.5	1.00	20	11/07/24	11/08/24	
Total Xylenes	44.3	0.500	20	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	11/07/24	11/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: BA		Batch: 2445110
Gasoline Range Organics (C6-C10)	1470	400	20	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		120 %	70-130	11/07/24	11/08/24	SI
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: NV		Batch: 2445117
Diesel Range Organics (C10-C28)	113	25.0	1	11/07/24	11/07/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/07/24	
Surrogate: n-Nonane		117 %	50-200	11/07/24	11/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: DT		Batch: 2445119
Chloride	ND	20.0	1	11/07/24	11/08/24	



QC Summary Data

		<u><u><u>v</u></u><u>v</u><u>v</u></u>		ing Duc	<u> </u>				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	11	an Juan 28-6 U 7051-0002 tuart Hyde	Jnit 102N				Reported: 11/8/2024 3:32:04PM
· ·		Volatile O	rganics	by EPA 802	21B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445110-BLK1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.6	70-130			
LCS (2445110-BS1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Benzene	5.42	0.0250	5.00		108	70-130			
Ethylbenzene	5.21	0.0250	5.00		104	70-130			
Toluene	5.33	0.0250	5.00		107	70-130			
o-Xylene	5.19	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			
LCS Dup (2445110-BSD1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Benzene	5.74	0.0250	5.00		115	70-130	5.73	20	
Ethylbenzene	5.53	0.0250	5.00		111	70-130	5.86	20	
Toluene	5.65	0.0250	5.00		113	70-130	5.83	20	
o-Xylene	5.51	0.0250	5.00		110	70-130	5.94	20	
p,m-Xylene	11.2	0.0500	10.0		112	70-130	5.88	20	
Total Xylenes	16.7	0.0250	15.0		112	70-130	5.90	20	
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00						



QC Summary Data

		<u>v</u> c s		ing Duc					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	11	an Juan 28-6 U 7051-0002 tuart Hyde	Jnit 102N				Reported: 11/8/2024 3:32:04PM
		Volatile Organics by EPA 8021B							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445120-BLK1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.3	70-130			
LCS (2445120-BS1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Benzene	5.54	0.0250	5.00		111	70-130			
Ethylbenzene	5.35	0.0250	5.00		107	70-130			
Toluene	5.47	0.0250	5.00		109	70-130			
o-Xylene	5.37	0.0250	5.00		107	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			
LCS Dup (2445120-BSD1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Benzene	5.51	0.0250	5.00		110	70-130	0.530	20	
Ethylbenzene	5.32	0.0250	5.00		106	70-130	0.603	20	
Toluene	5.44	0.0250	5.00		109	70-130	0.585	20	
o-Xylene	5.35	0.0250	5.00		107	70-130	0.385	20	
p,m-Xylene	10.9	0.0500	10.0		109	70-130	0.727	20	
Total Xylenes	16.2	0.0250	15.0		108	70-130	0.614	20	
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			



QC Summary Data

		QC L	Jumm		a				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number Project Manage:	:	San Juan 28-6 U 17051-0002 Stuart Hyde	Jnit 102N				Reported: 11/8/2024 3:32:04PM
	No	nhalogenated	Organic	s by EPA 80	15D - G	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445110-BLK1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			
LCS (2445110-BS2)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			
LCS Dup (2445110-BSD2)							Prepared: 1	1/07/24 A	analyzed: 11/08/24
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.4	70-130	0.648	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			



QC Summary Data

		QU L	/umm	ary Dat					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number Project Manager	: 1	San Juan 28-6 U 17051-0002 Stuart Hyde	Jnit 102N				Reported: 11/8/2024 3:32:04PM
-	No	nhalogenated	Organics	s by EPA 80	15D - G	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445120-BLK1)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Gurrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			
LCS (2445120-BS2)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			
LCS Dup (2445120-BSD2)							Prepared: 1	1/07/24 A	nalyzed: 11/08/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.1	70-130	16.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			



QC Summary Data

		QC D	umme	in y Data	а				
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		n Juan 28-6 U 7051-0002	Jnit 102N				Reported:
Houston TX, 77208		Project Manager:	St	uart Hyde					11/8/2024 3:32:04PM
	Nonh	alogenated Org	anics by	EPA 8015I) - DRO/	ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2445116-BLK1)							Prepared: 1	1/07/24 A	nalyzed: 11/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			
LCS (2445116-BS1)							Prepared: 1	1/07/24 A	nalyzed: 11/07/24
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			
LCS Dup (2445116-BSD1)							Prepared: 1	1/07/24 A	nalyzed: 11/07/24
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132	2.59	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

		QC D	u111111	ii y Data	u				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	17	an Juan 28-6 U 7051-0002 tuart Hyde	Jnit 102N				Reported: 11/8/2024 3:32:04PM
	Nonh	alogenated Org	anics by	EPA 8015E) - DRO/	ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2445117-BLK1)							Prepared: 1	1/07/24 A	nalyzed: 11/07/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	50.2		50.0		100	50-200			
LCS (2445117-BS1)							Prepared: 1	1/07/24 A	nalyzed: 11/07/24
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			
LCS Dup (2445117-BSD1)							Prepared: 1	1/07/24 A	nalyzed: 11/07/24
Diesel Range Organics (C10-C28)	281	25.0	250		112	38-132	5.10	20	
Surrogate: n-Nonane	56.0		50.0		112	50-200			



QC Summary Data

		QU N		ary Date						
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager		San Juan 28-6 U 17051-0002 Stuart Hyde	Jnit 102N				Repor 11/8/2024 3	
		Anions	by EPA	300.0/9056	4				Analyst: 1	DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %		otes
Blank (2445118-BLK1)							Prepared:	11/07/24	Analyzed: 11	/07/24
Chloride	ND	20.0								
LCS (2445118-BS1)							Prepared:	11/07/24	Analyzed: 11/	/07/24
Chloride	257	20.0	250		103	90-110				
Matrix Spike (2445118-MS1)				Source:	E411071-()6	Prepared:	11/07/24	Analyzed: 11/	/07/24
Chloride	261	20.0	250	ND	104	80-120				
Matrix Spike Dup (2445118-MSD1)				Source:	E411071-()6	Prepared:	11/07/24	Analyzed: 11/	/07/24
Chloride	259	20.0	250	ND	104	80-120	0.546	20		



QC Summary Data

		QU N		ary Date						
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager		San Juan 28-6 U 17051-0002 Stuart Hyde	Jnit 102N				Report 11/8/2024 3	
		Anions	by EPA	300.0/9056	4				Analyst: I	DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %		otes
Blank (2445119-BLK1)							Prepared: 1	1/07/24	Analyzed: 11/	08/24
Chloride	ND	20.0								
LCS (2445119-BS1)							Prepared: 1	1/07/24	Analyzed: 11/	08/24
Chloride	258	20.0	250		103	90-110				
Matrix Spike (2445119-MS1)				Source:	E411071-2	23	Prepared: 1	1/07/24	Analyzed: 11/	08/24
Chloride	298	20.0	250	33.2	106	80-120				
Matrix Spike Dup (2445119-MSD1)				Source:	E411071-2	23	Prepared: 1	1/07/24	Analyzed: 11/	08/24
Chloride	297	20.0	250	33.2	106	80-120	0.286	20		

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Hilcorp Energy Co	Project Name:	San Juan 28-6 Unit 102N	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	11/08/24 15:32

- S1 Surrogate spike recovery was outside of the established acceptance limits.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



						Chain of	Cust	ody								Jo	11-9	F	Page of
<u>Client:</u> Project N Project N	Clie Hilco- lame: SL Aanager: SL	nt Inform		San Juan d Un	8-6 +107N	Invoice Information Company: Hilcorp Address: City, State, Zip:		Lab E	wo#			e On Job M		oer • 0 (DOZ		AT 3D St	d NMLCO	itate UT TX
Address: City, Stat						Phone: Email: Miscellaneous:			W 8015	y 8015	11				Met			EPA Pro	the second second second second second second second
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample	e Informa	Sample ID	Field	Lab Number	DRO/ORO b	GRO/DRO by	BTEX by 802	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals		Rema	arks
1402	11-6-24	soil	142		01				X	N	X		X						
1404				SW	02			2	1		1		İ						
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	al Instructio	C				olum. Courn, ZMY							is cons	idered	fraud	and may be	e grounds fo	or legal action.	
Relinquish	ed by; (Signatur		Date	Ti	ne	hat tampering with or intentionally mislabelin Received by: (Signature)	Date		Time					Sample	es requi	ring thermal	preservation	must be received on ice the	2
Refinquish	ed by: (Signatur		Date		055 2:16	Received by: (Signature) Received by: (Signature)	Date	7-24	Time	: 14				cubcer	uant.d	on ice:		Use Only N	
Relinquish	ed by: (Signatur	re)	Date	Tin	ne	Received by: (Signature)	Date		Time					T1 AVG	Tem	ip °C	<u>T2</u>	<u></u>	
Note: Sam		ed 14 days	after result	s are reported		r arrangements are made. Hazardous sar	nples wi		ed to c	lient o	disp							r the analysis of the a	above samples is
applicable	only to those sa	amples rece	ived by the	laboratory wit	h this COC.	The liability of the laboratory is limited to	the am	ount paid fo	or on t		ort.	3			e	n	vi	rot	ect

Released to Imaging: 3/31/2025 3:00:47 PM

	Chain of	f Custo	ody											Page of
Client Information Client: Hilcorp Project Name: San Juan 28-6 Unit 102N Project Manager: Sturt Hyde	Invoice Information <u>Company</u> : Hilcorp Address:			• wo#	and so the second	1		Vum	ber	Sac	1D/	ZD 3	BD Std	State NM CO UT TX
Address: City, State, Zip: Phone: 970-703-1607 Smail: Samantha. Graberte h. 1607. com	City, State, Zip: Phone: Email: Miscellaneous:	Phone: Email: Miscellaneous:		L5	2		Ana	lysis	and	Met	hod			Page 2 of 3 State NM CO UT TX V U TX EPA Program SDWA CWA RCRA Compliance Y or N PWSID # Remarks
Sample Info	rmation			RO by 8015	30 by 80.	8021	8260	e 300.0	- NM	05 - TX	Metals			PWSID #
Time Sampled Date Sampled Matrix Containers	Sample ID	Field Filter	Lab Numbe	DRO/ORO	GRO/DRO by	BTEX by 802	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
422 11-6-24 Sol 1x402 SW11			11	X	\times	X		X						
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1427 SW13			13											
1429 SW12			14											
435 FSO			15											
1436 F502			16											
1438 FS03			17											
1440 FSO4	1		18											
1441 N FSOS			19								0			
1443 - & F506			20	Z	V	V		V						
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(field sampler) attest to the validity and authenticity of this sample. I am av ampled by: $2ae$ $Myes$	vare that tampering with or intentionally mislabelin	ng the samp	le locatio	n, date o	r time o	fcolle	ection	is cons	sidered	l fraud	and m	ay be gro	ounds for	legal action.
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telinquished by: (Signature) Date 11-7-24 12:	6 Received by: (Signature)	Date	17/1	Y Time	2:14	,			Reco	eived	on ic	:e: (Lab U	lse Only
telinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time					T1			Т	2	ТЗ
telinquished by: (Signature) Date Time	Received by: (Signature)	Date		Time					AVG	Tem	p°C	-4		
ample Matrix: S - Soll, Sd - Solld, Sg - Sludge, A - Aqueous, O - Other lote: Samples are discarded 14 days after results are reported unless			be return					astic,	, ag -	ambe	r glas	The	the second	the analysis of the above samples is
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Released to Imaging: 3/31/2025 3:00:47 PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Enail: skyds@ensolum.com Due Date: 1108e24 17:90 (1 day TAT) I. Does the number of samples per sampling site location match the COC Ves Ves Ves Nores anaples dropped off by client or entrier? Yes Carrier: Zach Myas New as all samples received within holding time? Yes Carrier: Zach Myas New as all samples received within holding time? Yes Carrier: Zach Myas Sample Turn Around Time (TAT) Kes Carrier: Zach Myas Sample Coroler received in this diseason. Comments/Resolution Sample Coroler received in this diseason. Comments/Resolution Naw as ample color received in model the indiverse in the field, i.e., 5 monter received in this diseason. Comments/Resolution Naw as ample color received in soci clouded in this diseason. Comments/Resolution Sample Coroler received in soci clouded in this diseason. Comments/Resolution Naw as ample color received in soci clouded in the field, i.e., 0 to roken? Yes Naw the sample received in inc. (i.e., not broken? Yes Note: Therap proservations in the quints if samples are received with its minimum information: Sminites of sampling Note: Therap proservations in the quints? No Notherap presolicited in the correct containers?	Client:	Hilcorp Energy Co Da	ate Received:	11/07/24	12:16	Work	Order ID:	E411071
Email: shydr@genvolum.com Due Date: 1108/24 17:00 (1 day TAT) I. Does the sample ID match the COC: Yes Yes 2. Does the number of samples per sampling site location match the COC: Yes Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Zuch Myus 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes Note: Analysis, such as pH which should be conducted in the field, i.e. (15 mine hold time, are on timbated in this discussion. Comments/Recolution Sample CoreCo: Yes Sample CoreCo: Comments/Recolution 7. Was a sample cooler received? Yes Sample CoreCo: Comments/Recolution 7. Was a sample cooler received intact, i.e., not broken? Yes Sample CoreCo: Sample CoreCo: 9. Was the sample(s): received intact, i.e., not broken? Yes No Sample CoreCo: 10. Were custody/security seals intact? No No Sample CoreCo: 11. If yes, were custody/security seals intact? No No Sample CoreCo: 12. Was the sample spresent? No No Sample CoreCo: Sample CoreCo: 13. If no visible ics, record the temperature: 4/YC Yes <t< th=""><th>Phone:</th><th>- Da</th><th>ate Logged In:</th><th>11/07/24</th><th>12:21</th><th>Logg</th><th>ed In By:</th><th>Caitlin Mars</th></t<>	Phone:	- Da	ate Logged In:	11/07/24	12:21	Logg	ed In By:	Caitlin Mars
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20. Were field sample labels filled out with the minimum information: Yes Sample ID? Yes Date/Time Collected? Yes Collectors name? No Sample Preservation No 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA 24. Is lab filteration required and/or requested for dissolved metals? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory No 28. Are samples required to get sent to a subcontract laboratory? No	19. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes				
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Date/Time Collected? Collectors name?Yes NoSample PreservationNo21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample MatrixNo26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NASubcontract LaboratoryNA28. Are samples required to get sent to a subcontract laboratory?No			ation:	V				
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Sample Preservation21. Does the COC or field labels indicate the samples were preserved?No22. Are sample(s) correctly preserved?NA24. Is lab filteration required and/or requested for dissolved metals?NoMultiphase Sample MatrixNo26. Does the sample have more than one phase, i.e., multiphase?No27. If yes, does the COC specify which phase(s) is to be analyzed?NASubcontract LaboratoryNA28. Are samples required to get sent to a subcontract laboratory?No								
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26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No No			als?	No				
26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No No	<u>Multiph</u>	ase Sample Matrix						
Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No	26. Does	the sample have more than one phase, i.e., multiphase?	•	No				
28. Are samples required to get sent to a subcontract laboratory? No	27. If yes	s, does the COC specify which phase(s) is to be analyzed	d?	NA				
28. Are samples required to get sent to a subcontract laboratory? No	<u>Subcont</u>	ract Laboratory						
			,	No				
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA				NA	Subcontract Lab: NA			



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Report to: Samantha Grabert



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:

San Juan 28-6 Unit 102N

Work Order: E411120

Job Number: 17051-0002

Received: 11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/14/24

Samantha Grabert PO Box 61529 Houston, TX 77208

Project Name: San Juan 28-6 Unit 102N Workorder: E411120 Date Received: 11/12/2024 12:00:00PM

Samantha Grabert,



Page 69 of 138

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 12:00:00PM, under the Project Name: San Juan 28-6 Unit 102N.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 Unit 102N apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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XX11 30 00					
Hilcorp Energy Co		Project Name:	San Juan 28-6 Unit	102N	Reported:
PO Box 61529		Project Number:	17051-0002		Keporteu.
Houston TX, 77208		Project Manager:	Samantha Grabert		11/14/24 16:59
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04a	E411120-01A	Soil	11/12/24	11/12/24	Glass Jar, 4 oz.
FS07a	E411120-02A	Soil	11/12/24	11/12/24	Glass Jar, 4 oz.
FS10a	E411120-03A	Soil	11/12/24	11/12/24	Glass Jar, 4 oz.
FS12a	E411120-04A	Soil	11/12/24	11/12/24	Glass Jar, 4 oz.
SW08a	E411120-05A	Soil	11/12/24	11/12/24	Glass Jar, 4 oz.



	D.	ampic D	ala				
Hilcorp Energy Co PO Box 61529	Project Name: Project Numb	er: 170	Juan 28-6 U 51-0002 aantha Grabe		Ň		Reported: 11/14/2024 4:59:27PN
Houston TX, 77208	Project Manag	ger: Sam	iantha Grabe	11/14/2024 4:59:27PM			
		FS04a					
		E411120-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: l	BA		Batch: 2446062
Benzene	0.0366	0.0250	1		11/12/24	11/12/24	
Ethylbenzene	0.870	0.0250	1		11/12/24	11/12/24	
Toluene	1.34	0.0250	1		11/12/24	11/12/24	
p-Xylene	2.38	0.0250	1		11/12/24	11/12/24	
o,m-Xylene	8.89	0.0500	1		11/12/24	11/12/24	
Total Xylenes	11.3	0.0250	1		11/12/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130		11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: l	BA		Batch: 2446062
Gasoline Range Organics (C6-C10)	130	20.0	1		11/12/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		119 %	70-130		11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	NV		Batch: 2446068
Diesel Range Organics (C10-C28)	123	25.0	1		11/12/24	11/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1		11/12/24	11/13/24	
Surrogate: n-Nonane		136 %	50-200		11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: V	WF		Batch: 2446067
Chloride	ND	20.0	1		11/12/24	11/13/24	

Sample Data


	D	ampic D	ala			
Hilcorp Energy Co	Project Name:		Juan 28-6 Unit 10	2N		
PO Box 61529	Project Numb		51-0002		Reported:	
Houston TX, 77208	Project Manag	ger: Sam	antha Grabert			11/14/2024 4:59:27PM
		FS07a				
		E411120-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/12/24	
Ethylbenzene	0.384	0.0250	1	11/12/24	11/12/24	
Toluene	0.454	0.0250	1	11/12/24	11/12/24	
p-Xylene	1.31	0.0250	1	11/12/24	11/12/24	
p,m-Xylene	4.36	0.0500	1	11/12/24	11/12/24	
Total Xylenes	5.66	0.0250	1	11/12/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2446062
Gasoline Range Organics (C6-C10)	73.7	20.0	1	11/12/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2446068
Diesel Range Organics (C10-C28)	257	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		152 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: WF		Batch: 2446067
Chloride	ND	20.0	1	11/12/24	11/12/24	



	D	ampic D	ala			
Hilcorp Energy Co PO Box 61529	Project Name: Project Numb		Juan 28-6 Unit 10 51-0002	2N		Reported:
Houston TX, 77208	Project Manag		antha Grabert	11/14/2024 4:59:27PM		
		FS10a				
		F 510a E411120-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/12/24	
Ethylbenzene	0.281	0.0250	1	11/12/24	11/12/24	
Toluene	0.390	0.0250	1	11/12/24	11/12/24	
p-Xylene	0.911	0.0250	1	11/12/24	11/12/24	
o,m-Xylene	3.09	0.0500	1	11/12/24	11/12/24	
Total Xylenes	4.00	0.0250	1	11/12/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2446062
Gasoline Range Organics (C6-C10)	56.0	20.0	1	11/12/24	11/12/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2446068
Diesel Range Organics (C10-C28)	238	25.0	1	11/12/24	11/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		144 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: WF		Batch: 2446067
Chloride	ND	20.0	1	11/12/24	11/13/24	



	5	ampic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: Project Numbe Project Manag	er: 170:	Juan 28-6 Unit 51-0002 aantha Grabert	102N		Reported: 11/14/2024 4:59:27PM
		FS12a				
		E411120-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/12/24	
Ethylbenzene	0.223	0.0250	1	11/12/24	11/12/24	
Toluene	0.183	0.0250	1	11/12/24	11/12/24	
o-Xylene	0.828	0.0250	1	11/12/24	11/12/24	
o,m-Xylene	2.57	0.0500	1	11/12/24	11/12/24	
Total Xylenes	3.40	0.0250	1	11/12/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		110 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2446062
Gasoline Range Organics (C6-C10)	57.6	20.0	1	11/12/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2446068
Diesel Range Organics (C10-C28)	136	25.0	1	11/12/24	11/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		124 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: WF		Batch: 2446067
Chloride	ND	20.0	1	11/12/24	11/13/24	



	b		ata			
Hilcorp Energy Co PO Box 61529	Project Name Project Numb		Juan 28-6 Unit 10 51-0002	02N		Reported:
Houston TX, 77208	Project Mana		antha Grabert	11/14/2024 4:59:27PM		
		SW08a				
		E411120-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/12/24	
Foluene	ND	0.0250	1	11/12/24	11/12/24	
p-Xylene	0.0464	0.0250	1	11/12/24	11/12/24	
o,m-Xylene	0.145	0.0500	1	11/12/24	11/12/24	
Fotal Xylenes	0.192	0.0250	1	11/12/24	11/12/24	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/12/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		101 %	50-200	11/12/24	11/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: WF		Batch: 2446067
Chloride	ND	20.0	1	11/12/24	11/13/24	



QC Summary Data

			0	I 20 (I	1. 10001				
Hilcorp Energy Co		Project Name: Project Number:		in Juan 28-6 U	Jnit 102N				Reported:
PO Box 61529			051-0002						
Houston TX, 77208		Project Manager:	Sa	Samantha Grabert					11/14/2024 4:59:27PM
		Volatile Or	Analyst: BA						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446062-BLK1)							Prepared: 1	1/12/24 <i>A</i>	Analyzed: 11/14/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			
LCS (2446062-BS1)							Prepared: 1	1/12/24 A	Analyzed: 11/14/24
Benzene	4.22	0.0250	5.00		84.4	70-130			
Ethylbenzene	4.22	0.0250	5.00		84.5	70-130			
Toluene	4.27	0.0250	5.00		85.4	70-130			
p-Xylene	4.22	0.0250	5.00		84.5	70-130			
p,m-Xylene	8.61	0.0500	10.0		86.1	70-130			
Total Xylenes	12.8	0.0250	15.0		85.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			
LCS Dup (2446062-BSD1)							Prepared: 1	1/12/24 <i>A</i>	Analyzed: 11/14/24
Benzene	3.81	0.0250	5.00		76.2	70-130	10.1	20	
Ethylbenzene	3.82	0.0250	5.00		76.4	70-130	9.99	20	
Toluene	3.86	0.0250	5.00		77.2	70-130	10.1	20	
p-Xylene	3.83	0.0250	5.00		76.5	70-130	9.92	20	
p,m-Xylene	7.80	0.0500	10.0		78.0	70-130	9.87	20	
Total Xylenes	11.6	0.0250	15.0		77.5	70-130	9.89	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

		Y VY	/	ary Duc					
Hilcorp Energy Co PO Box 61529		Project Name: Project Number		San Juan 28-6 U 17051-0002	Jnit 102N				Reported:
Houston TX, 77208		Project Manage	r:	Samantha Grab	ert				11/14/2024 4:59:27PM
	No	nhalogenated	Organic	s by EPA 80	15D - G	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446062-BLK1)							Prepared: 1	1/12/24 A	nalyzed: 11/14/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			
LCS (2446062-BS2)							Prepared: 1	1/12/24 A	nalyzed: 11/14/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			
LCS Dup (2446062-BSD2)							Prepared: 1	1/12/24 A	nalyzed: 11/14/24
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.9	70-130	1.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

		QC D	u	aly Data	a				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1	San Juan 28-6 U 17051-0002 Samantha Grabe					Reported: 11/14/2024 4:59:27PM
	Nonh	alogenated Org				/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2446068-BLK1)							Prepared: 1	1/12/24 A	nalyzed: 11/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.0		50.0		108	50-200			
LCS (2446068-BS1)							Prepared: 1	1/12/24 A	nalyzed: 11/13/24
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			
Matrix Spike (2446068-MS1)				Source:	E411116-2	25	Prepared: 1	1/12/24 A	nalyzed: 11/13/24
Diesel Range Organics (C10-C28)	294	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	59.0		50.0		118	50-200			
Matrix Spike Dup (2446068-MSD1)				Source:	E411116-2	25	Prepared: 1	1/12/24 A	nalyzed: 11/13/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	5.95	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

	$\chi \circ \sim$			~					
	5	:	17051-0002						
	Anions	by EPA	300.0/9056	4				Analyst: V	WF
Result	Reporting Limit	Spike Level	Source Result	Rec			Limi	I	
		g	mg ng	70	70	70	70	1	ines.
						Prepared:	11/12/24	Analyzed: 11/	12/24
ND	20.0								
						Prepared:	11/12/24	Analyzed: 11/	12/24
230	20.0	250		91.9	90-110				
			Source:	E411120-0	2	Prepared:	11/12/24	Analyzed: 11/	12/24
234	20.0	250	ND	93.4	80-120				
			Source:	E411120-0	2	Prepared:	11/12/24	Analyzed: 11/	/12/24
234	20.0	250	ND	93.5	80-120	0.0817	20		
	mg/kg ND 230 234	Project Name: Project Number: Project Manager Anions Result mg/kg ND 230 234 20.0	Project Name: Project Number: Project Manager: Anions by EPA Result mg/kg Reporting Limit mg/kg Spike Level mg/kg ND 20.0 230 20.0 250 234 20.0 250	Project Name: San Juan 28-6 U Project Number: 17051-0002 Project Manager: Samantha Grab Anions by EPA 300.0/9056A Result Spike Result Spike mg/kg mg/kg ND 20.0 230 20.0 234 20.0 Source: 234 20.0 Source: Source: Source:	Project Number: 17051-0002 Project Manager: Samantha Grabert Anions by EPA 300.0/9056A Anions by EPA 300.0/9056A Result Reporting Spike Source Result Limit Level Result Rec mg/kg mg/kg mg/kg % MD 230 20.0 250 91.9 234 20.0 250 ND 93.4 Source: E411120-0 Source: E411120-0	Project Name: San Juan 28-6 Unit 102N Project Number: 17051-0002 Project Manager: Samantha Grabert Anions by EPA 300.0/9056A Reporting Limit Level Result Rec Rec mg/kg mg/kg mg/kg % % ND 20.0 250 91.9 90-110 Source: E411120-02 234 20.0 250 ND 93.4 80-120	Project Name: Project Number: Project Manager:San Juan 28-6 Unit 102N 17051-0002 Samantha GrabertAnions by EPA 300.0/9056AAnions by EPA 300.0/9056AResult mg/kgReporting Limit mg/kgSpike Level mg/kgSource Result mg/kgRec %Rep %ND20.0Prepared:23020.025091.990-110Source: Prepared:Source: %Source %Prepared:23420.0250ND93.480-120Cource: Source:E411120-02Prepared:23420.0250ND93.480-120	Project Name: San Juan 28-6 Unit 102N Project Number: 17051-0002 Project Manager: Samantha Grabert Anions by EPA 300.0/9056A Rec Rec RPD Result Reporting Spike Source Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg mg/kg % % % ND 20.0 250 91.9 90-110 Prepared: 11/12/24 230 20.0 250 ND 93.4 80-120 234 20.0 250 ND 93.4 80-120	Project Name:San Juan 28-6 Unit 102NReporProject Number:17051-000211/14/202411/14/2024Project Manager:Samantha Grabert11/14/2024Analyst: VAnions by EPA 300.0/9056AAnalyst:Analyst: VResultReporting LimitSpike LevelSource ResultRec LimitsRPD RPD LimitMarketSpike Mg/kgSource mg/kgRec mg/kgRec %%%NoND20.020.091.990-110Prepared:11/12/24Analyzed:11/12/24Analyzed:11/12/2423020.025091.990-110Prepared:11/12/24Analyzed:11/12/24Analyzed:11/12/24Analyzed:11/12/2423420.0250ND93.480-120Prepared:11/12/24Analyzed:11/12/24Analyzed:11/12/2423420.0250ND93.480-120Prepared:11/12/24Analyzed:11/12/24Source: E411120-02Prepared:11/12/24Analyzed:11/12/24Analyzed:11/12/24Analyse:Pical <t< td=""></t<>

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Γ	Hilcorp Energy Co	Project Name:	San Juan 28-6 Unit 102N	
	PO Box 61529	Project Number:	17051-0002	Reported:
	Houston TX, 77208	Project Manager:	Samantha Grabert	11/14/24 16:59

orting limit
)

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Chain of Custody

Client Information		Invoice Information				La	ab Us	e On	lv				TAT	1	State
Client: Hilcorp Energy Company Project Name: San Juan 28-6 Unit 102 Project Manager: Samantha Grabert	N A	Company: Hilcorp Energy Compa ddress: 1111 Travis Street City, State, Zip: Houston, TX	iny		wo#	20			12 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	00	202	1D X	2D 3D	Std	NM CO UT TX
Address:		Phone:		-	-	- and		Ana	lysis	and	Meth	od	and the second		EPA Program
City, State, Zip:		mail:samantha.grabert@hilcorp.co	om									T		T	SDWA CWA RCRA
Phone:		iscellaneous:													
Email: samantha.grabert@hilcorp.con			(Janes)		8015	8015			0			S			Compliance Y or N PWSID #
	Sample Informa	tion			No.	to by	8021	8260	s 300.	WN -	15 - TX	Meta			111310 //
Time Sampled Date Sampled Matrix No. of Contains	15	Sample ID	Field	Lab Number	DRO/ORO t	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
947 11-12-24 Soil 1-402	F504a			1	x	x	x		X						
953	F5070			2											
955	FSIDA			3											
758	F5120			4											1
1001	5W08	÷		5	b	A			t						
						0	t	-	-			+	+	+	
<u> </u>												-	_		
					-				_	1		-	_	+	
			_		_							-			
			_									_	_		
Additional Instructions: email Wes W	eichert wweichert@hilcorp	.com and Stuart Hyde shyde@ens	solum.c	om results	; ;										
(field sampler), attest to the validity and authenti ampled by:		at tampering with or intentionally mislabelin	ig the sam	ple location,	date o	or time	of coll	ection	is cons	idered	l fraud a	nd ma	be grou	nds for le	egal action.
	te Time	Received by Signature Mon	Date	12.24	Time	· M)			23533002 j.j.			and the second second		t be received on ice the day they are temp above 0 but less than 6 °C on
elinquished by: (Signature)	te Time	Received by: (Signature)	Date	12.69	Time	·W				eubeae	wont dai				e Only
Relinquished by: (Signature)	te Time	Received by: (Signature)	Date		Time					Rece	eived	on ice	. E	D/N	
telinquished by: (Signature)	te Time	Received by: (Signature)	Date		Time					<u>T1</u>			<u>T2</u>		<u>T3</u>
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - A	ueous 0 - Other		Cont	tainer Type	2: 9 - 1	glass	p - n	olv/n	astic		Tem	p°C_	7	AL I	
		arrangements are made. Hazardous sar								and all a			the same	et for th	rotec

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Hilcorp Energy Co I	Date Received:	11/12/24 12	:00	Work Order ID:	E411120
Phone:	(337) 781-9630 I	Date Logged In:	11/12/24 12	:04	Logged In By:	Caitlin Mars
Email:	samantha.grabert@hilcorp.com	Due Date:	11/13/24 17	:00 (1 day TAT)		
<u>Chain o</u>	<u>f Custody (COC)</u>					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location matcl	n the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Zach My	vas	
4. Was th	he COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes		<u></u>	
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
-	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: <u>4°</u>	<u>C</u>			
Sample	Container					
14. Are	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is th	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample contained	rs collected?	Yes			
Field La	abel					
20. Were	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
-	<u>Preservation</u> s the COC or field labels indicate the samples were pres	served?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved me	tals?	No			
			110			
	ase Sample Matrix	9	NI-			
Multiph	the cample have more than one phase i.e. multiphase	•	No			
<u>Multiph</u> 26. Does	s the sample have more than one phase, i.e., multiphase	ad?	NT 4			
Multiph 26. Does 27. If ye	s, does the COC specify which phase(s) is to be analyz	ed?	NA			
Multiph 26. Does 27. If ye Subcont	s, does the COC specify which phase(s) is to be analyz tract Laboratory_					
<u>Multiph</u> 26. Does 27. If ye <u>Subcont</u> 28. Are	s, does the COC specify which phase(s) is to be analyz	?	No	Subcontract Lab: NA		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:

San Juan 28-6 Unit 102N

Work Order: E411159

Job Number: 17051-0002

Received: 11/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Kate Kaufman PO Box 61529 Houston, TX 77208

Project Name: San Juan 28-6 Unit 102N Workorder: E411159 Date Received: 11/14/2024 4:10:00PM

Kate Kaufman,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/14/2024 4:10:00PM, under the Project Name: San Juan 28-6 Unit 102N.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 Unit 102N apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

		Sample Sum	mai y		
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:	San Juan 28-6 Unit 17051-0002	t 102N	Reported:
Houston TX, 77208		Project Manager:	Kate Kaufman		11/18/24 09:53
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP01	E411159-01A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.
SP02	E411159-02A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.
SP03	E411159-03A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.
SP04	E411159-04A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.
SP05	E411159-05A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.
SP06	E411159-06A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.
SP07	E411159-07A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.
SP08	E411159-08A	Soil	11/14/24	11/14/24	Glass Jar, 4 oz.



Sample Data									
Hilcorp Energy Co	Project Name	: San							
PO Box 61529	Project Numb	er: 1705		Reported:					
Houston TX, 77208	Project Manager: Kate Kaufman					11/18/2024 9:53:53AM			
		SP01							
		E411159-01							
		Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes			
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2446136			
Benzene	ND	0.0250	1	11/14/24	11/15/24				
Ethylbenzene	0.280	0.0250	1	11/14/24	11/15/24				
Toluene	0.0662	0.0250	1	11/14/24	11/15/24				
o-Xylene	1.39	0.0250	1	11/14/24	11/15/24				
p,m-Xylene	4.26	0.0500	1	11/14/24	11/15/24				
Total Xylenes	5.65	0.0250	1	11/14/24	11/15/24				
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	11/14/24	11/15/24				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2446136			
Gasoline Range Organics (C6-C10)	101	20.0	1	11/14/24	11/15/24				
- Surrogate: 1-Chloro-4-fluorobenzene-FID		118 %	70-130	11/14/24	11/15/24				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2446129			
Diesel Range Organics (C10-C28)	94.4	25.0	1	11/15/24	11/15/24				
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24				
Surrogate: n-Nonane		102 %	50-200	11/15/24	11/15/24				



	Sa	imple D	ala			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	2N		
PO Box 61529	Project Number	r: 170:		Reported:		
Houston TX, 77208	Project Manage	er: Kate	e Kaufman			11/18/2024 9:53:53AM
		SP02				
]	E411159-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2446136
Benzene	ND	0.0250	1	11/14/24	11/15/24	
Ethylbenzene	0.159	0.0250	1	11/14/24	11/15/24	
Toluene	ND	0.0250	1	11/14/24	11/15/24	
o-Xylene	1.09	0.0250	1	11/14/24	11/15/24	
p,m-Xylene	3.05	0.0500	1	11/14/24	11/15/24	
Total Xylenes	4.13	0.0250	1	11/14/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2446136
Gasoline Range Organics (C6-C10)	88.7	20.0	1	11/14/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		117 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446129
Diesel Range Organics (C10-C28)	91.3	25.0	1	11/15/24	11/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24	
Surrogate: n-Nonane		115 %	50-200	11/15/24	11/15/24	



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Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit	t 102N		
PO Box 61529	Project Numbe	er: 170		Reported:		
Houston TX, 77208	Project Manag	ger: Kate	e Kaufman			11/18/2024 9:53:53AM
		SP03				
		E411159-03				
		Reporting				
Analyte	Result	Limit	Dilutior	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2446136
Benzene	ND	0.0250	1	11/14/24	11/15/24	
Ethylbenzene	0.340	0.0250	1	11/14/24	11/15/24	
Toluene	0.0660	0.0250	1	11/14/24	11/15/24	
o-Xylene	2.43	0.0250	1	11/14/24	11/15/24	
p,m-Xylene	7.69	0.0500	1	11/14/24	11/15/24	
Total Xylenes	10.1	0.0250	1	11/14/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2446136
Gasoline Range Organics (C6-C10)	133	20.0	1	11/14/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		120 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2446129
Diesel Range Organics (C10-C28)	60.3	25.0	1	11/15/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24	
Surrogate: n-Nonane		92.7 %	50-200	11/15/24	11/15/24	



		ample D	uta			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	02N		
PO Box 61529	Project Numbe	er: 1705		Reported:		
Houston TX, 77208	Project Manag	ger: Kate	Kaufman			11/18/2024 9:53:53AM
		SP04				
		E411159-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2446136
Benzene	ND	0.0250	1	11/14/24	11/15/24	
Ethylbenzene	0.196	0.0250	1	11/14/24	11/15/24	
oluene	ND	0.0250	1	11/14/24	11/15/24	
-Xylene	1.32	0.0250	1	11/14/24	11/15/24	
,m-Xylene	3.77	0.0500	1	11/14/24	11/15/24	
Total Xylenes	5.08	0.0250	1	11/14/24	11/15/24	
urrogate: 4-Bromochlorobenzene-PID		108 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2446136
Gasoline Range Organics (C6-C10)	96.7	20.0	1	11/14/24	11/15/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2446129
Diesel Range Organics (C10-C28)	72.4	25.0	1	11/15/24	11/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24	
urrogate: n-Nonane		93.3 %	50-200	11/15/24	11/15/24	



			uu			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Uni	it 102N		
PO Box 61529	Project Numbe	er: 170		Reported:		
Houston TX, 77208	Project Manag	ger: Kate	e Kaufman			11/18/2024 9:53:53AM
		SP05				
		E411159-05				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2446136
Benzene	ND	0.0250	1	11/14/24	11/15/24	
Ethylbenzene	0.295	0.0250	1	11/14/24	11/15/24	
Toluene	0.0592	0.0250	1	11/14/24	11/15/24	
o-Xylene	1.97	0.0250	1	11/14/24	11/15/24	
p,m-Xylene	6.65	0.0500	1	11/14/24	11/15/24	
Total Xylenes	8.63	0.0250	1	11/14/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2446136
Gasoline Range Organics (C6-C10)	130	20.0	1	11/14/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		129 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV			Batch: 2446129
Diesel Range Organics (C10-C28)	110	25.0	1	11/15/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24	
Surrogate: n-Nonane		110 %	50-200	11/15/24	11/15/24	



		impic D	ata			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10	02N		
PO Box 61529	Project Numbe	er: 170:	Reported:			
Houston TX, 77208	Project Manag	er: Kate	e Kaufman			11/18/2024 9:53:53AM
		SP06				
		E411159-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2446136
Benzene	ND	0.0250	1	11/14/24	11/15/24	
Ethylbenzene	0.545	0.0250	1	11/14/24	11/15/24	
Toluene	0.401	0.0250	1	11/14/24	11/15/24	
o-Xylene	2.73	0.0250	1	11/14/24	11/15/24	
p,m-Xylene	9.97	0.0500	1	11/14/24	11/15/24	
Total Xylenes	12.7	0.0250	1	11/14/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2446136
Gasoline Range Organics (C6-C10)	169	20.0	1	11/14/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		142 %	70-130	11/14/24	11/15/24	<i>S5</i>
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2446129
Diesel Range Organics (C10-C28)	60.1	25.0	1	11/15/24	11/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24	
Surrogate: n-Nonane		110 %	50-200	11/15/24	11/15/24	



	5	ampie D	ala			
Hilcorp Energy Co	Project Name:	: San	Juan 28-6 Unit 10			
PO Box 61529	Project Numb	er: 170:		Reported:		
Houston TX, 77208	Project Manag	ger: Kate	e Kaufman			11/18/2024 9:53:53AM
		SP07				
		E411159-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2446136
Benzene	ND	0.0250	1	11/14/24	11/15/24	
Ethylbenzene	0.441	0.0250	1	11/14/24	11/15/24	
Toluene	0.167	0.0250	1	11/14/24	11/15/24	
o-Xylene	2.34	0.0250	1	11/14/24	11/15/24	
p,m-Xylene	8.21	0.0500	1	11/14/24	11/15/24	
Total Xylenes	10.5	0.0250	1	11/14/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2446136
Gasoline Range Organics (C6-C10)	165	20.0	1	11/14/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		141 %	70-130	11/14/24	11/15/24	<i>S5</i>
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2446129
Diesel Range Organics (C10-C28)	38.2	25.0	1	11/15/24	11/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24	
Surrogate: n-Nonane		108 %	50-200	11/15/24	11/15/24	



	Da	impic D	ata			
Hilcorp Energy Co	Project Name:	San	Juan 28-6 Unit 10)2N		
PO Box 61529	Project Numbe	er: 170:	51-0002	Reported:		
Houston TX, 77208	Project Manage	er: Kate	e Kaufman			11/18/2024 9:53:53AM
		SP08				
]	E411159-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2446136
Benzene	ND	0.0250	1	11/14/24	11/15/24	
Ethylbenzene	0.543	0.0250	1	11/14/24	11/15/24	
Toluene	0.296	0.0250	1	11/14/24	11/15/24	
o-Xylene	2.74	0.0250	1	11/14/24	11/15/24	
p,m-Xylene	9.84	0.0500	1	11/14/24	11/15/24	
Total Xylenes	12.6	0.0250	1	11/14/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	11/14/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2446136
Gasoline Range Organics (C6-C10)	171	20.0	1	11/14/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		140 %	70-130	11/14/24	11/15/24	<i>S5</i>
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446129
Diesel Range Organics (C10-C28)	38.4	25.0	1	11/15/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/15/24	
Surrogate: n-Nonane		93.3 %	50-200	11/15/24	11/15/24	



OC Summary Data

		QU DI	, , , , , , , , , , , , , , , , , , ,	ary Data					
Hilcorp Energy Co PO Box 61529	PO Box 61529 Project Number: 170			San Juan 28-6 U 17051-0002	Jnit 102N				Reported:
Houston TX, 77208		Project Manager:	1	Kate Kaufman					11/18/2024 9:53:53AN
		Analyst: BA							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446136-BLK1)							Prepared: 1	1/14/24 <i>A</i>	Analyzed: 11/14/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			
LCS (2446136-BS1)							Prepared: 1	1/14/24 A	Analyzed: 11/14/24
Benzene	4.85	0.0250	5.00		97.0	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.2	70-130			
Toluene	4.99	0.0250	5.00		99.7	70-130			
o-Xylene	4.98	0.0250	5.00		99.5	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			
LCS Dup (2446136-BSD1)							Prepared: 1	1/14/24 <i>A</i>	Analyzed: 11/14/24
Benzene	4.78	0.0250	5.00		95.7	70-130	1.43	20	
Ethylbenzene	4.91	0.0250	5.00		98.2	70-130	1.05	20	
Toluene	4.93	0.0250	5.00		98.6	70-130	1.08	20	
o-Xylene	4.94	0.0250	5.00		98.9	70-130	0.644	20	
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130	0.928	20	
Total Xylenes	14.9	0.0250	15.0		99.5	70-130	0.834	20	
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.6	70-130			



QC Summary Data

		QU L	/	ary Date					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number Project Manager	: 1	an Juan 28-6 U 7051-0002 Late Kaufman	Jnit 102N				Reported: 11/18/2024 9:53:53AM
	No	nhalogenated	Organics	by EPA 80	15D - GI	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446136-BLK1)							Prepared: 1	1/14/24 A	nalyzed: 11/14/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			
LCS (2446136-BS2)							Prepared: 1	1/14/24 A	nalyzed: 11/14/24
Gasoline Range Organics (C6-C10)	39.0	20.0	50.0		78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			
LCS Dup (2446136-BSD2)							Prepared: 1	1/14/24 A	nalyzed: 11/15/24
Gasoline Range Organics (C6-C10)	35.9	20.0	50.0		71.8	70-130	8.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.3	70-130			



QC Summary Data

		QC D	umme	il y Data	а				
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		an Juan 28-6 U 7051-0002	Jnit 102N				Reported:
Houston TX, 77208		Project Manager:	K	ate Kaufman					11/18/2024 9:53:53AM
	Nonh	alogenated Org	anics by	EPA 8015I) - DRO/	ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2446129-BLK1)							Prepared: 1	1/14/24 A	nalyzed: 11/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2446129-BS1)							Prepared: 1	1/14/24 A	nalyzed: 11/15/24
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	57.9		50.0		116	50-200			
LCS Dup (2446129-BSD1)							Prepared: 1	1/14/24 A	nalyzed: 11/15/24
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132	2.11	20	
Surrogate: n-Nonane	54.1		50.0		108	50-200			

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Γ	Hilcorp Energy Co	Project Name:	San Juan 28-6 Unit 102N	
	PO Box 61529	Project Number:	17051-0002	Reported:
	Houston TX, 77208	Project Manager:	Kate Kaufman	11/18/24 09:53

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Received by OCD: 1/3/2025 11:23:19 AM

Client Information		A. S. S.	Invoice Information			Lab Use Only						TAT State				te				
lient:	Hilcon				ompany: Hilcon?		Lab	WO#	1		Job Number				1D 2D 3D Std		NM CO UT TX		TX	
	lame: SJ				ddress: 20 3100		E	1/11	59		170	251-	-000	_	X			X		
	Aanager: 🤾	olfe ko	aufmann		ity, State, Zip: Aztec N	M		-	5.6	1	Ni-ye		100		Som	TE				C. S. S. S. S.
ddress: City, Stat					hone: nail: KKaufMan@hillarfi	1 000	- 359		-	-	Ana	alysis	and	Meth	nod			SDWA	EPA Prog	RCRA
hone:	.e, 21p.	1			scellaneous:	17COPI	-				1.1							JUVA	CVVA	RCRA
mail:			and the second		scenaneous.			12	S									Complia	nce Y	or N
		a Start	Alena	Contract of the second	WHERE THE STOLEN THE			y 80.	y 80:	1		0.0	5	×	als	Pkg		PWSID #		
1917-				Sample Informat	ion		1.39	ROb	RO b	y 802	826	e 30	NN-	500	Met	Anion				
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Field Filter Z	Lab umber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remark	S
430	11-14	50.1	1	SPOI			1	x	x	×										
435		Υ.		5702		4	2	+	×	×										
440				5703			3	×	×	×										
445				5704			4	×	X	×										
450				SPOS		-	5	x	×	×	6	1								
455				SPOG			6	×	×	x										÷.
500				SPOT			7	×	r	×									_	
505	Y	Y	<u>↓</u>	SPOS			8	X	×	×										
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ddition	al Instructio	ns:		0																
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impled by:	Elli C	and		sample. Tam aware tha	tampering with or intentionally mislabel	ing the sample ic	cation, d	ate or t	ume of	collec	tion is a	conside	erea in	auo ano	i may	be grou	nus tor lega	ir action.		
elinquish	ed by: (Signatur	re)	Date 11-14	Time 16:10	Received by: (Signature)	Date III	1.4/20	Time	6.11	D	1		1.			- A.			d on ice the da O but less thar	510 H.C.
elinquish	ed by: (Signatur	re)	Date	Time	Received by: (Signature)	Date		Time					Rece	eived	on ic	e:	Lab U	se Only	San Star	
elinquish	ed by: (Signatur	re)	Date	Time	Received by: (Signature)	Date		Time			100		T1				2		тз	
elinquish	ed by: (Signatur	re)	Date	Time	Received by: (Signature)	Date		Time			No.		AVG	Tem	p°C	4			Sale Se	Real Property in
	and second an end of the second second	-	dge, A - Aqueous, O			Contair						_	, ag -	ambe	r glas					and the second second
					arrangements are made. Hazardous							of at t	the cli	ent ex	pense	. The r	eport for	the analysi	is of the abo	ove samples
applicabl	le only to those	samples re	eceived by the lab	oratory with this COC	The liability of the laboratory is limit	ited to the amo	unt paid	tor o	n the	report	τ.									

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Hilcorp Energy Co Da	te Received:	11/14/24 1	6:10			Work Order ID:	E41	1159
Phone:	- Da	te Logged In:	11/14/24 1	6:27			Logged In By:	No	e Soto
Email:		e Date:	11/15/24 1	.7:00 (1 day 1	TAT)				
Chain of	Custody (COC)								
1. Does th	ne sample ID match the COC?		Yes						
2. Does the	ne number of samples per sampling site location match t	the COC	Yes						
3. Were sa	amples dropped off by client or carrier?		Yes	Carr	rier: Eri	c Carroll			
4. Was the	e COC complete, i.e., signatures, dates/times, requested	analyses?	Yes						
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes				Comme	nts/Re	solution
Sample T	Furn Around Time (TAT)				Г				
	COC indicate standard TAT, or Expedited TAT?		Yes						
Sample C									
	sample cooler received?		Yes						
8. If yes,	was cooler received in good condition?		Yes						
9. Was the	e sample(s) received intact, i.e., not broken?		Yes						
10. Were	custody/security seals present?		No						
	, were custody/security seals intact?		NA						
	e sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes						
	minutes of sampling								
13. If no v	visible ice, record the temperature. Actual sample ten	perature: <u>4°</u>	<u>C</u>						
	Container								
	queous VOC samples present?		No						
	OC samples collected in VOA Vials?		NA						
	head space less than 6-8 mm (pea sized or less)?		NA						
	trip blank (TB) included for VOC analyses?		NA						
	on-VOC samples collected in the correct containers?		Yes						
19. Is the a	appropriate volume/weight or number of sample containers	collected?	Yes						
Field Lab									
	field sample labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the minimum information in the same labels filled out with the same labels filled out with the minimum information in the same labels filled out with the same labels filled out with the minimum information in the same labels filled out with the same labels filled out	ation:	V						
	ample ID? Pate/Time Collected?		Yes						
	ollectors name?		Yes No						
	Preservation		110						
	the COC or field labels indicate the samples were prese	rved?	No						
22. Are sa	ample(s) correctly preserved?		NA						
	filteration required and/or requested for dissolved meta	ls?	No						
<u>Mul</u> tipha	use Sample Matrix								
	the sample have more than one phase, i.e., multiphase?		No						
	, does the COC specify which phase(s) is to be analyzed	1?	NA						
	ract Laboratory								
	amples required to get sent to a subcontract laboratory?		No						
	subcontract laboratory specified by the client and if so	who?		Subcontrac	rt Lah∙ I	NA			
uo u	service of the ender and it so			Succonnac	Luu. I				

Signature of client authorizing changes to the COC or sample disposition.



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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: SO 28-6 102n

Work Order: E411166

17051-0002 Job Number:

> Received: 11/15/2024

> > Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Kate Kaufman PO Box 61529 Houston, TX 77208

Project Name: SO 28-6 102n Workorder: E411166 Date Received: 11/15/2024 3:00:00PM

Kate Kaufman,



Page 103 of 138

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2024 3:00:00PM, under the Project Name: SO 28-6 102n.

The analytical test results summarized in this report with the Project Name: SO 28-6 102n apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Donortode	
Reported:	
11/19/24 16:25	
4 oz.	
4 oz. 4 oz.	



	S	Sample D	ata			
Hilcorp Energy Co	Project Nam	e: SO 2	28-6 102n			
PO Box 61529	Project Num	ber: 1703	51-0002			Reported:
Houston TX, 77208	Project Mana	ager: Kate	e Kaufman			11/19/2024 4:25:10PM
		SP09				
		E411166-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2447002
Benzene	ND	0.0250	1	11/18/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24	
Toluene	ND	0.0250	1	11/18/24	11/18/24	
p-Xylene	0.640	0.0250	1	11/18/24	11/18/24	
p,m-Xylene	1.62	0.0500	1	11/18/24	11/18/24	
Fotal Xylenes	2.26	0.0250	1	11/18/24	11/18/24	
Surrogate: Bromofluorobenzene		113 %	70-130	11/18/24	11/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	11/18/24	11/18/24	
Surrogate: Toluene-d8		110 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY		Batch: 2447002
Gasoline Range Organics (C6-C10)	112	20.0	1	11/18/24	11/18/24	
Surrogate: Bromofluorobenzene		113 %	70-130	11/18/24	11/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	11/18/24	11/18/24	
Surrogate: Toluene-d8		110 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: NV		Batch: 2447004
Diesel Range Organics (C10-C28)	159	25.0	1	11/18/24	11/18/24	
Dil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/18/24	
Surrogate: n-Nonane		128 %	50-200	11/18/24	11/18/24	

Sample	e Data
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	3	ample D	ala				
Hilcorp Energy Co PO Box 61529	Project Name		28-6 102n 51-0002			Demented	
PO Box 61529 Houston TX, 77208	Project Numb Project Mana		51-0002 e Kaufman			Reported: 11/19/2024 4:25:10PM	
Houston 177, 77200	T Toject Wialia	ger. Kau	Kauiiiaii			11/1//2024 4.23.101 W	
		SP10					
		E411166-02					
		Reporting					
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	analyst: IY		Batch: 2447002	
Benzene	ND	0.0250	1	11/18/24	11/18/24		
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24		
Toluene	ND	0.0250	1	11/18/24	11/18/24		
p-Xylene	0.191	0.0250	1	11/18/24	11/18/24		
p,m-Xylene	0.461	0.0500	1	11/18/24	11/18/24		
Total Xylenes	0.651	0.0250	1	11/18/24	11/18/24		
Surrogate: Bromofluorobenzene		109 %	70-130	11/18/24	11/18/24		
Surrogate: 1,2-Dichloroethane-d4		89.0 %	70-130	11/18/24	11/18/24		
Surrogate: Toluene-d8		108 %	70-130	11/18/24	11/18/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	analyst: IY		Batch: 2447002	
Gasoline Range Organics (C6-C10)	87.8	20.0	1	11/18/24	11/18/24		
Surrogate: Bromofluorobenzene		109 %	70-130	11/18/24	11/18/24		
Surrogate: 1,2-Dichloroethane-d4		89.0 %	70-130	11/18/24	11/18/24		
Surrogate: Toluene-d8		108 %	70-130	11/18/24	11/18/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	analyst: NV		Batch: 2447004	
Diesel Range Organics (C10-C28)	53.1	25.0	1	11/18/24	11/18/24		
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/18/24		
Surrogate: n-Nonane		116 %	50-200	11/18/24	11/18/24		



Sampl	e Data
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		sample D	ลเล					
Hilcorp Energy Co	Project Nam	e: SO 2	28-6 102n					
PO Box 61529	Project Num	ber: 1703	51-0002				Reported:	
Houston TX, 77208	Project Mana	ager: Kate	e Kaufman				11/19/2024 4:25:10PM	
		SP11						
		E411166-03						
		Reporting						
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2447002	
Benzene	ND	0.0250		1	11/18/24	11/18/24		
Ethylbenzene	ND	0.0250		1	11/18/24	11/18/24		
Toluene	ND	0.0250		1	11/18/24	11/18/24		
o-Xylene	1.46	0.0250		1	11/18/24	11/18/24		
p,m-Xylene	3.30	0.0500		1	11/18/24	11/18/24		
Total Xylenes	4.76	0.0250		1	11/18/24	11/18/24		
Surrogate: Bromofluorobenzene		128 %	70-130		11/18/24	11/18/24		
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		11/18/24	11/18/24		
Surrogate: Toluene-d8		109 %	70-130		11/18/24	11/18/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2447002	
Gasoline Range Organics (C6-C10)	176	20.0		1	11/18/24	11/18/24		
Surrogate: Bromofluorobenzene		128 %	70-130		11/18/24	11/18/24		
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		11/18/24	11/18/24		
Surrogate: Toluene-d8		109 %	70-130		11/18/24	11/18/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	W		Batch: 2447004	
Diesel Range Organics (C10-C28)	108	25.0		1	11/18/24	11/18/24		
Oil Range Organics (C28-C36)	ND	50.0		1	11/18/24	11/18/24		
Surrogate: n-Nonane		123 %	50-200		11/18/24	11/18/24		


QC Summary Data

		Q U U		i j Duu	•				
Hilcorp Energy Co		Project Name:	SC	0 28-6 102n					Reported:
PO Box 61529		Project Number:	17	051-0002					
Houston TX, 77208		Project Manager:	Ka	ate Kaufman				11	/19/2024 4:25:10PM
	V	olatile Organic	Compou	unds by EP	A 82601	B			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447002-BLK1)						Р	repared: 1	1/18/24 Ana	alyzed: 11/18/24
Benzene	ND	0.0250					•		•
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS (2447002-BS1)						Р	repared: 1	1/18/24 Ana	alyzed: 11/18/24
Benzene	2.33	0.0250	2.50		93.1	70-130			
Ethylbenzene	2.57	0.0250	2.50		103	70-130			
Toluene	2.48	0.0250	2.50		99.0	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.33	0.0500	5.00		107	70-130			
Total Xylenes	7.97	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS Dup (2447002-BSD1)						Р	repared: 1	1/18/24 Ana	ulyzed: 11/18/24
Benzene	2.40	0.0250	2.50		95.8	70-130	2.88	23	
Ethylbenzene	2.61	0.0250	2.50		105	70-130	1.66	27	
Toluene	2.53	0.0250	2.50		101	70-130	2.18	24	
p-Xylene	2.70	0.0250	2.50		108	70-130	2.44	27	
p,m-Xylene	5.40	0.0500	5.00		108	70-130	1.29	27	
Total Xylenes	8.10	0.0250	7.50		108	70-130	1.67	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
surrogute. Bromojnuorobenzene									
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			



QC Summary Data

		QU D	u 111111	i j Duu	•				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	17	O 28-6 102n 7051-0002 ate Kaufman				1	Reported: 11/19/2024 4:25:10PM
	No	nhalogenated C	Organics	by EPA 801	5D - G	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2447002-BLK1)							Prepared: 1	1/18/24 Ar	nalyzed: 11/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS (2447002-BS2)							Prepared: 1	1/18/24 Ar	nalyzed: 11/18/24
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
LCS Dup (2447002-BSD2)							Prepared: 1	1/18/24 Ar	nalyzed: 11/18/24
Gasoline Range Organics (C6-C10)	56.5	20.0	50.0		113	70-130	3.95	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

Hilcorp Energy Co		Project Name:	SC	28-6 102n					Reported:
PO Box 61529		Project Number:	17	051-0002					-
Houston TX, 77208		Project Manager:	Ka	te Kaufman					11/19/2024 4:25:10PM
	Nonha	alogenated Org	anics by I	EPA 8015D	- DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2447004-BLK1)							Prepared: 11	1/18/24 A	analyzed: 11/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.5		50.0		111	50-200			
0	55.5		50.0		111	50-200	Prepared: 11	1/18/24 A	analyzed: 11/18/24
LCS (2447004-BS1)	55.5	25.0	50.0 250		94.8	50-200 38-132	Prepared: 11	1/18/24 A	analyzed: 11/18/24
LCS (2447004-BS1) Diesel Range Organics (C10-C28)							Prepared: 11	1/18/24 A	analyzed: 11/18/24
LCS (2447004-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane	237		250		94.8	38-132			analyzed: 11/18/24 analyzed: 11/18/24
Surrogate: n-Nonane LCS (2447004-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane LCS Dup (2447004-BSD1) Diesel Range Organics (C10-C28)	237		250		94.8	38-132			

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

_		Deminitions		
Γ	Hilcorp Energy Co	Project Name:	SO 28-6 102n	
l	PO Box 61529	Project Number:	17051-0002	Reported:
	Houston TX, 77208	Project Manager:	Kate Kaufman	11/19/24 16:25

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

		Invoice Information	n			688	La	ab U	se On	ly				TA	١T			S	tate	
n Sð	28-6102 N	Company: Hilcorp Address: R.J. 3100 City, State, Zip: BZbee,	Acm		Lab EL	WO#	16	6	Job	SI	• 00	50	1D Y	2D	3D	Std	NM	CO	UT	TX
		Phone:							Ana	lysis	and	Met	hod				EP	A Pro	grar	n
n	_	Email: KKaufman@hilo Miscellaneous:	<u>910.C</u>	c m		S	5										SDWA Compliance	CW		RCRA
						DRO/ORO by 8015	GRO/DRO by 8015	21	60	0.00	Σ	ĸ	tals				PWSID #	<u> </u>		0111
Sa	ample Infori		Ь	1	ab	ORO	DRO	by 80	by 82	ide 3(0C - N	1005 -	RCRA 8 Metals			×.		Rema	rke	
		Sample ID	Field	Nun	nber	DRO/	GRO/	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA			_		Nema	11.15	
	SPO	9		1		x	×	×												_
	SPIC			2	2	r	x	<												
	SPIL		_	3	3	×	×	X									_			
																	-			
				178														-		
1.00												_								
of this sar	mple. I am awar	m. Com <u>Corrolle</u> e that tampering with or intentionally mislable	eling the sa	mple loc	ation,	date o	r time	of coll	ection	is cons	idered	fraud	and m	ay be g	grounds	s for le	egal action.			
	Time	Received by: (Signature)	Date	e		Time				100	Sample	es requi	ring the	rmal pr	eservatio	on mus	st be received o	n ice the	day th	ey are
-15	1500	Received by: (Signature) Received by: (Signature)		15/2	1		3					d or request da		acked i			temp above 0 b	ut less th	nan 6 °	Con
	Time	Received by: (Signature)	Date	e		Time					Rece	ived	on i	e:	La		e Only			
	Time	Received by: (Signature)	Dat	e		Time					T1	u	on a		T2			TR		
	Time	Received by: (Signature)	Date	e		Time					11			-11	12			<u>T3</u>		10.00
										1	AVG	Tem	D° di	4						

C

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Page 12 (

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Additional Instructions:

Released to Imaging: 3/31/2025 3:00:47 PM

CC' Shyo

Client Information

Matrix

50.1

50.) Spil No. of

Containers

1

Hilcord

Date Sampled

11-15

11-15

11-15

Project Name: Kate Kattime Project Manager: Kate Kaufma

Email: KRAUFMAN @ hilcorp.co

Client:

Address: City, State, Zip: Phone:

Time

Sampled

1330

1335

1340

I, (field sampler), attest to the validity and authenticit Sampled by: ____ gree Carroll

Relinquished by: (Signature) Dat 11 Ede arroll Relinquished by: (Signature) Date Relinquished by: (Signature) Date Date Relinquished by: (Signature) Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Envirotech Analytical Laboratory

	E	ivirotech	Analytica	al Laboratory	ł	Printed: 11/15/2024 3:04:16PN
structions	: Please take note of any NO checkmarks.	Sample	Receipt Che	ecklist (SRC)		
	e no response concerning these items within 24 hours of the o	late of this not	ice, all the sam	ples will be analyzed as reque	sted.	
Client:	Hilcorp Energy Co Da	te Received:	11/15/24 15:0	0	Work Order ID:	E411166
Phone:	- Da	te Logged In:	11/15/24 15:0	1	Logged In By:	Caitlin Mars
Email:	Di	ie Date:	11/18/24 17:0	0 (1 day TAT)		
Chain of	<u>f Custody (COC)</u>					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Eric Carroll		
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the	e field,	Yes		Commen	ts/Resolution
Samula '	i.e, 15 minute hold time, are not included in this disucssion.				commen	
	Turn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes			
	•		168			
Sample (Vac			
	sample cooler received? was cooler received in good condition?		Yes			
•	•		Yes			
	he sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
1. If yes	s, were custody/security seals intact?		NA			
2. Was tl	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
3. If no	visible ice, record the temperature. Actual sample ter	nperature: 4°	°C			
	<u>Container</u>	· _				
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containers	collected?	Yes			
ield La	bel					
0. Were	field sample labels filled out with the minimum inform	ation:				
S	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
-	Preservation	10	N			
	the COC or field labels indicate the samples were prese	rved?	No NA			
	sample(s) correctly preserved? o filteration required and/or requested for dissolved meta	1s?	No			
	ase Sample Matrix		110			
	the sample have more than one phase, i.e., multiphase?		No			
	s, does the COC specify which phase(s) is to be analyzed	12	No NA			
		* .	NA			
	ract Laboratory		3.7			
	samples required to get sent to a subcontract laboratory?	1.0	No			
29. Was :	a subcontract laboratory specified by the client and if so	who?	NA Su	bcontract Lab: NA		
Client I	nstruction					

<u>Client Instruction</u>

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: San Juan 28

San Juan 28-6 Unit 102N

Work Order: E412023

Job Number: 17051-0002

Received: 12/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/9/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 12/9/24

Samantha Grabert PO Box 61529 Houston, TX 77208

Project Name: San Juan 28-6 Unit 102N Workorder: E412023 Date Received: 12/3/2024 2:16:00PM

Samantha Grabert,



Page 116 of 138

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/3/2024 2:16:00PM, under the Project Name: San Juan 28-6 Unit 102N.

The analytical test results summarized in this report with the Project Name: San Juan 28-6 Unit 102N apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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		Sample Sum	mai y		
Hilcorp Energy Co		Project Name:	San Juan 28-6 Unit	102N	Demoste de
PO Box 61529		Project Number:	17051-0002		Reported:
Houston TX, 77208		Project Manager:	Samantha Grabert		12/09/24 10:19
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01	E412023-01A	Soil	12/03/24	12/03/24	Glass Jar, 4 oz.
SS02	E412023-02A	Soil	12/03/24	12/03/24	Glass Jar, 4 oz.
SS03	E412023-03A	Soil	12/03/24	12/03/24	Glass Jar, 4 oz.



	S	ample D	ata			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name Project Num Project Mana	ber: 170	Juan 28-6 Unit 51-0002 antha Grabert	102N		Reported: 12/9/2024 10:19:09AM
		SS01				
		E412023-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
Surrogate: 4-Bromochlorobenzene-PID		86.3 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
Surrogate: n-Nonane		110 %	50-200	12/05/24	12/05/24	



Sample Data

	0	ampie D	ala					
Hilcorp Energy Co	Project Name	: San	Juan 28-6 Unit 10	2N				
PO Box 61529	Project Numb		51-0002		Reported:			
Houston TX, 77208	Project Manag	ger: Sam	: Samantha Grabert					
		SS02						
		E412023-02						
		Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2449073		
Benzene	ND	0.0250	1	12/05/24	12/05/24			
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24			
Toluene	ND	0.0250	1	12/05/24	12/05/24			
o-Xylene	ND	0.0250	1	12/05/24	12/05/24			
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24			
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24			
Surrogate: 4-Bromochlorobenzene-PID		85.4 %	70-130	12/05/24	12/05/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2449073		
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	12/05/24	12/05/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KH		Batch: 2449075		
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24			
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24			
Surrogate: n-Nonane		113 %	50-200	12/05/24	12/05/24			



Sample Data

	L L	bample D	ala			
Hilcorp Energy Co	Project Nam	e: San	Juan 28-6 Unit 10	2N		
PO Box 61529	Project Num		51-0002	Reported:		
Houston TX, 77208	Project Mana	ager: Sam	antha Grabert			12/9/2024 10:19:09AN
		SS03				
		E412023-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
Surrogate: 4-Bromochlorobenzene-PID		86.4 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Dil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
Surrogate: n-Nonane		107 %	50-200	12/05/24	12/05/24	



QC Summary Data

		QC DI		ing Date	u				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	17	an Juan 28-6 U 7051-0002 amantha Grab					Reported: 12/9/2024 10:19:09AM
		Volatile O	rganics l	by EPA 802	21B				Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2449073-BLK1)							Prepared: 1	2/05/24	Analyzed: 12/05/24
	ND	0.0250					Treparea. T	2/03/24 1	maryzea. 12/03/24
Benzene	ND ND	0.0250 0.0250							
Ethylbenzene Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.3	70-130			
LCS (2449073-BS1)							Prepared: 1	2/05/24 <i>I</i>	Analyzed: 12/05/24
Benzene	4.92	0.0250	5.00		98.4	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.82	0.0250	5.00		96.5	70-130			
o-Xylene	4.68	0.0250	5.00		93.6	70-130			
p,m-Xylene	9.58	0.0500	10.0		95.8	70-130			
Total Xylenes	14.3	0.0250	15.0		95.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.86		8.00		85.8	70-130			
LCS Dup (2449073-BSD1)							Prepared: 1	2/05/24 A	Analyzed: 12/05/24
Benzene	5.58	0.0250	5.00		112	70-130	12.5	20	
Ethylbenzene	5.36	0.0250	5.00		107	70-130	13.0	20	
Toluene	5.49	0.0250	5.00		110	70-130	12.9	20	
o-Xylene	5.33	0.0250	5.00		107	70-130	13.0	20	
p,m-Xylene	10.9	0.0500	10.0		109	70-130	12.7	20	
Total Xylenes	16.2	0.0250	15.0		108	70-130	12.8	20	
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.6	70-130			



QC Summary Data

		$\mathbf{x} \mathbf{v}$	/						
Hilcorp Energy Co		Project Name:	S	San Juan 28-6 U	Unit 102N				Reported:
PO Box 61529		Project Number	: 1	7051-0002					
Houston TX, 77208		Project Manage	r: 5	Samantha Grab	ert				12/9/2024 10:19:09AM
	No	nhalogenated	Organics	s by EPA 80	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2449073-BLK1)							Prepared: 1	2/05/24	Analyzed: 12/05/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			
LCS (2449073-BS2)							Prepared: 1	2/05/24	Analyzed: 12/05/24
Gasoline Range Organics (C6-C10)	42.3	20.0	50.0		84.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			
LCS Dup (2449073-BSD2)							Prepared: 1	2/05/24	Analyzed: 12/05/24
Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.7	70-130	1.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			



QC Summary Data

		QU D		ary Data					
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		an Juan 28-6 U 7051-0002	Jnit 102N				Reported:
Houston TX, 77208		Project Manager	: S	amantha Grabe	ert				12/9/2024 10:19:09AM
	Nonha	logenated Org	ganics by	EPA 8015E) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2449075-BLK1)							Prepared: 1	2/05/24 A	analyzed: 12/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			
LCS (2449075-BS1)							Prepared: 1	2/05/24 A	analyzed: 12/05/24
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			
Matrix Spike (2449075-MS1)				Source:	E412025-0	09	Prepared: 1	2/05/24 A	analyzed: 12/05/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			
Matrix Spike Dup (2449075-MSD1)				Source:	E412025-(09	Prepared: 1	2/05/24 A	analyzed: 12/05/24
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	3.68	20	
Surrogate: n-Nonane	57.0		50.0		114	50-200			

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Γ	Hilcorp Energy Co	Project Name:	San Juan 28-6 Unit 102N	
	PO Box 61529	Project Number:	17051-0002	Reported:
	Houston TX, 77208	Project Manager:	Samantha Grabert	12/09/24 10:19

ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Chain of Custody

						Chain of	Cust	ody													Page of
	Clie	nt Inform	nation			Invoice Information	Invoice Information Lab Use Only TAT								State						
<u>Project N</u> Project N	lilcorp Energy lame: San Ju lanager: Sa	an 28-6 U	nit 102N			City, State, Zip: Houston, TX				Lab WO# Job Number 1D 2D 3D 80 E412023 17051.002 11 (X							sta X				
Address: City, Stat Phone: Email:	e, Zip: amantha.gra	bert@hilc	orp.com	· · · · · · · · · · · · · · · · · · ·	- -	Phone: Email: samantha.grabert@hilcorp.com Miscellaneous:			3015		8015			ysis a						1	EPA Program SDWA CWA RCRA COMPLIANCE Y OR N PWSID #
				Samp	le Inforn	nation					à S			300	¥.	5-TX	Metals			ŀ	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field Eiltar	Lab Numbe	T BRO/ORO by 8015		GRO/DRO by			Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 /				Remarks
1140	12.3.24	Soil	1 - 4 oz jar	55	01				×		× ×										
1150				55				2													
1200	¥	¥	<u>N</u>	55	03			3	<u>D</u>			4	_	_							
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Relinquishe	ed by: (Signature	e)	Date	T	ime	Received by: (Signature)	Date		Tim	e				T	1				<u>T2</u>		<u>T3</u>
Relinquishe	d by: (Signatur	e)	Date	T	ime	Received by: (Signature)	Date		Tim			٦				Tem		_4	4		
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						fer arrangements are made. Hazardous sam C. The liability of the laboratory is limited to								at the	ciler	it exp	ense.	ine fe	eport		e analysis of the above samples is
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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Hilcorp Energy Co	Date Received:	12/03/24 14	k:16	Work Order ID:	E412023
Phone:	(337) 781-9630	Date Logged In:	12/04/24 12	2:07	Logged In By:	Caitlin Mars
Email:	samantha.grabert@hilcorp.com	Due Date:	12/10/24 17	7:00 (5 day TAT)		
<u>Chain of</u>	Custody (COC)					
1. Does the	he sample ID match the COC?		Yes			
2. Does the	he number of samples per sampling site location m	atch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Zach Myers		
4. Was th	e COC complete, i.e., signatures, dates/times, requ	ested analyses?	Yes		-	
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucs		Yes		<u>Commen</u>	ts/Resolution
Sample 7	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4% Note: Thermal preservation is not required, if samples a minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual samp	le temperature: <u>4°</u>	<u>C</u>			
Sample (<u>Container</u>					
14. Are a	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct container	s?	Yes			
19. Is the	appropriate volume/weight or number of sample conta	iners collected?	Yes			
Field La	bel					
	field sample labels filled out with the minimum in	formation:				
	ample ID?		Yes			
	Date/Time Collected?		Yes	L		
	collectors name?		Yes			
	Preservation_ the COC or field labels indicate the samples were	preserved?	No			
	ample(s) correctly preserved?	proserveu:	NA			
	filteration required and/or requested for dissolved	metals?	No			
			110			
	ase Sample Matrix_ the sample have more than one phase, i.e., multiph	2009	NI			
			No			
	, does the COC specify which phase(s) is to be ana	iyzeu?	NA			
	ract Laboratory					
28. Are s	amples required to get sent to a subcontract laborat	ory?	No			
	subcontract laboratory specified by the client and		NA S	Subcontract Lab: NA		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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APPENDIX C

Photographic Log

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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

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QUESTIONS

Action 416900

QUESTIONS								
Operator:	OGRID:							
HILCORP ENERGY COMPANY	372171							
1111 Travis Street	Action Number:							
Houston, TX 77002	416900							
	Action Type:							
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)							

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403034973
Incident Name	NAPP2403034973 SAN JUAN 28-6 UNIT 102N @ 30-039-27600
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-039-27600] SAN JUAN 28 6 UNIT #102N
Incident Well	[30-039-27600] SAN JUAN 28 6 UNIT #102N

Location of Release Source

Please	answer	all the	questions in	this	group.

Site Name	SAN JUAN 28-6 UNIT 102N
Date Release Discovered	01/29/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.							
Incident Type	Release Other						
Did this release result in a fire or is the result of a fire	No						
Did this release result in any injuries	No						
Has this release reached or does it have a reasonable probability of reaching a watercourse	No						
Has this release endangered or does it have a reasonable probability of endangering public health	Νο						
Has this release substantially damaged or will it substantially damage property or the environment	No						
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No						

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.			
Crude Oil Released (bbls) Details	Not answered.		
Produced Water Released (bbls) Details	Not answered.		
Is the concentration of chloride in the produced water >10,000 mg/l	No		
Condensate Released (bbls) Details	Cause: Corrosion Production Tank Condensate Released: 42 BBL Recovered: 0 BBL Lost: 42 BBL.		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Not answered.		
Other Released Details	Not answered.		
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.		

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

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QUESTIONS, Page 2

Action 416900

QUESTIONS (continued)		
Operator: OGRID:		
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	416900	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

....

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e	e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	inowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface i does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 01/03/2025

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

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	416900
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)		
What method was used to determine the depth to ground water	NM OSE iWaters Database Search		
Did this release impact groundwater or surface water	No		
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:		
A continuously flowing watercourse or any other significant watercourse Between 300 and 500 (ft.)			
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)		
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)		
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)		
Any other fresh water well or spring	Between 1 and 5 (mi.)		
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)		
A wetland	Between 300 and 500 (ft.)		
A subsurface mine	Greater than 5 (mi.)		
An (non-karst) unstable area	Greater than 5 (mi.)		
Categorize the risk of this well / site being in a karst geology	None		
A 100-year floodplain	Between ½ and 1 (mi.)		
Did the release impact areas not on an exploration, development, production, or storage site	Νο		

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	sociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligr	ams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9100	
GRO+DRO (EPA SW-846 Method 8015M)	9100	
BTEX (EPA SW-846 Method 8021B or 8260B)	787.8	
Benzene (EPA SW-846 Method 8021B or 8260B)	4.6	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed eff which includes the anticipated timelines for beginning and completing the remediation.	orts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	01/30/2024	
On what date will (or did) the final sampling or liner inspection occur	02/06/2024	
On what date will (or was) the remediation complete(d)	02/06/2024	
What is the estimated surface area (in square feet) that will be reclaimed	0	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	2000	
What is the estimated volume (in cubic yards) that will be remediated	600	
These estimated dates and measurements are recognized to be the best guess or calculation at the tin	ne of submission and may (be) change(d) over time as more remediation efforts are completed.	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 3

Action 416900

General Information Phone: (505) 629-6116

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

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QUESTIONS, Page 4

Action 416900

QUESTIONS (continued)		
Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	416900	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Remediation Plan (continued)

temediation r lan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes
Which OCD approved facility will be used for on-site disposal	Not answered.
OR which OCD approved well (API) will be used for on-site disposal	30-039-27600 SAN JUAN 28 6 UNIT #102N
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
n Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efi which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	snowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 01/03/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

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QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	416900
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QU	ESI		NS
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Deferral Requests Only		
only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο	

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

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	416900
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	404692
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/03/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all r	remediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1700
What was the total volume (cubic yards) remediated	1100
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Laboratory analytical results from confirmation soil samples, collected from the final extents of the excavation, indicated all COC concentrations were compliant with the Site Closure Criteria and no further remediation is required. Additionally, all soil samples collected from the treated stockpiles and the vadose zone below the treatment stockpiles were also compliant with the applicable Site Closure Criteria and/or reclamation requirement. The corrective action initiated by Hilcorp has mitigated impacts at this Site and these remedial actions have been protective of human health, the environment, and groundwater.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.
	Name [,] Stuart Hyde

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 01/03/2025
	Date: 01/03/2023
I hereby agree and sign off to the above statement	•

Action 416900

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

General Information Phone: (505) 629-6116

General Information Phone: (505) 629-6116

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

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	416900
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
OUESTIONS	

QUESTIONS Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	416900
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By		Condition Date
nvelez	None	3/31/2025

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