ENSOLUM

February 18, 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 29-6 Unit 10
Rio Arriba County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2436545148

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), has prepared this *Remediation Report and Closure Request* associated with a produced water and condensate release at the San Juan 29-6 Unit 10 natural gas production well (Site). The Site is located on State Trust Land in Unit B of Section 2, Township 29 North, Range 6 West, in Rio Arriba County, New Mexico (Figure 1).

SITE BACKGROUND

On December 20, 2024, while performing Auditory Visual Olfactory inspections (AVOs), an artificial lift technician discovered liquid leaking from the bottom weld of a condensate tank manway. The liquid was identified as a mixture of produced water and condensate. The leak was attributed to corrosion on the tank manway weld, resulting in an estimated release of approximately 6 barrels (bbls) of produced water and 1 bbl of condensate. Upon discovery, the technician shutdown the tank to isolate and stop the leak. The tank was subsequently inspected and replaced, allowing the remaining condensate to be transferred back into the production tank. In accordance with Title 19, Chapter 15, Part 29 of the New Mexico Administrative Code (NMAC) Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) and submitted a *Form C-141* to the NMOCD on December 30, 2024. The Site has been assigned NMOCD Incident Number nAPP2436545148.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site is located on public land in Rio Arriba County, New Mexico. As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the NMAC. This information is further discussed below.

GEOLOGY AND HYDROGEOLOGY

The Site is located in Eocene age San Jose Formation and is underlain by the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrogeologic properties of the

San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) National Wetland Inventory (NWI), Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

The nearest significant watercourse to the Site is an unnamed intermittent stream located approximately 400 feet west of the Site. The nearest data point for depth to groundwater to the Site is a water well (SJ-04279) located approximately 6,318 feet northwest of the Site (Appendix A). This well indicates the shallowest groundwater is approximately 38 feet below ground surface (bgs) in this area. The Site is also within 300 feet of a wetland.

The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake. Wellhead protection areas, springs, or domestic/stock wells are not located within a ½-mile radius from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area not designated as high potential karst by the Bureau of Land Management (BLM)). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be 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): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION ACTIVITIES

On January 8, 2025, Ensolum personnel visited the Site to complete a hand auger delineation of the release. Prior to the hand auger delineation, Ensolum performed a Site assessment and observed the leaking condensate tank had been removed, and the area was excavated to a depth of 5 feet bgs. The excavated pit measured approximately 9 feet by 13 feet. Visible staining and petroleum odor were observed on the southwest wall of the excavation at a depth of 3 to 4 feet bgs.

Ensolum personnel advanced the first hand auger borehole in the center of the excavation near the point of release. The NMOCD was notified at least 48 hours in advance of delineation and samples activities performed at the Site. Notifications and correspondence with the NMOCD are attached in Appendix B. Hand auger borehole HA01 was advanced to a depth of 10 feet bgs. An Ensolum geologist collected soil samples at a 1-foot interval and screened for chloride and the presence of volatile organic compounds (VOCs) with a calibrated photoionization detector (PID). Visual staining on the southwest wall was also screened but was not submitted for analysis.

Two samples were collected from borehole HA01 to assess subsurface impacts, with one sample from the interval corresponding to the highest PID reading and one sample from the terminus of the borehole. Soil samples were collected directly into laboratory provided jars and immediately placed on ice. Soil samples were submitted under strict chain-of-custody procedures to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico laboratory for analysis of TPH following United States Environmental Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0.

Analytical results indicated BTEX and TPH concentrations exceeded the NMOCD Closure Criteria in hand auger borehole HA01 at a depth of 8 to 9 feet bgs. The location of the hand auger delineation borehole is depicted on Figure 2. Analytical results are summarized in Table 1. Complete laboratory reports are attached in Appendix C. Photographs collected during Site work are included in Appendix D.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

On January 22, 2025, Ensolum personnel conducted excavation oversight to remove impacted soil and delineate the lateral extent of the release. To direct activities during excavation, Ensolum personnel field screened for VOCs with a calibrated PID as impacted soil was removed. Once field screening indicated impacted soil had been removed, five-point composite soil samples were collected from the floor (FS01 through FS04) and sidewalls (SW01 through SW08) of the excavation at a frequency of one sample per 200 square feet. Notification to the NMOCD was provided prior to sampling (Appendix B). The five-point composite samples were prepared by placing five equivalent aliquots of soil into a 1-gallon resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were then placed into laboratory-provided containers and transported under proper chain of custody procedures to Eurofins for analysis of TPH, BTEX, and chloride using the same methods as previously described. Sample locations are shown in Figure 3.

Analytical results from the excavation indicated concentrations of all COCs were compliant with NMOCD Table I Closure Criteria with exception of sidewall samples SW07 and SW08. To address this exceedance, Hilcorp removed additional soil in the vicinity of SW07 and SW08 on February 5, 2025. Based on field screening, additional soil was removed along the southern sidewall where SW07 and SW08 were collected. Once field screening indicated impacted soil was removed, additional five-point composite samples were collected from the floor (FS05- FS09) and south sidewall (SW09 through SW11) using the same methods as described above. The additional soil samples were submitted to Eurofins for analysis of TPH, BTEX, and chloride following the methods described above. Analytical results from all the samples submitted were compliant with NMOCD Table I Closure Criteria.

The final excavation extent measured 36 feet by 38 feet to a depth of 10 feet to 15 feet bgs. In total, approximately 600 cubic yards of impacted material were removed and transported to a licensed waste disposal facility. A summary of the soil sample results is provided in Table 1 with complete laboratory analytical reports attached as Appendix D. Photographs taken by Ensolum during field activities are included in Appendix B.

CLOSURE REQUEST

Excavation and sampling activities were conducted at the Site to address the release of produced water and condensate discovered on December 20, 2024. Laboratory analysis of confirmation soil samples collected from the final excavation extent confirmed all COC concentrations were below the Site Closure Criteria. As such, no further remediation is required. The excavation of impacted soil has effectively mitigated impacts at the Site, confirming protection of human health, the environment, and groundwater. Hilcorp respectfully requests closure for Incident Number nAPP2436545148.

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

Sincerely,
Ensolum, LLC

Nicole Pottala
Associate Geologist
(405) 593-6647
npottala@ensolum.com

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

Attachments:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Location
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A:	NMOSE Point of Diversion Summary
Appendix B:	Agency Correspondence
Appendix C:	Photographic Log
Appendix D:	Laboratory Analytical Reports

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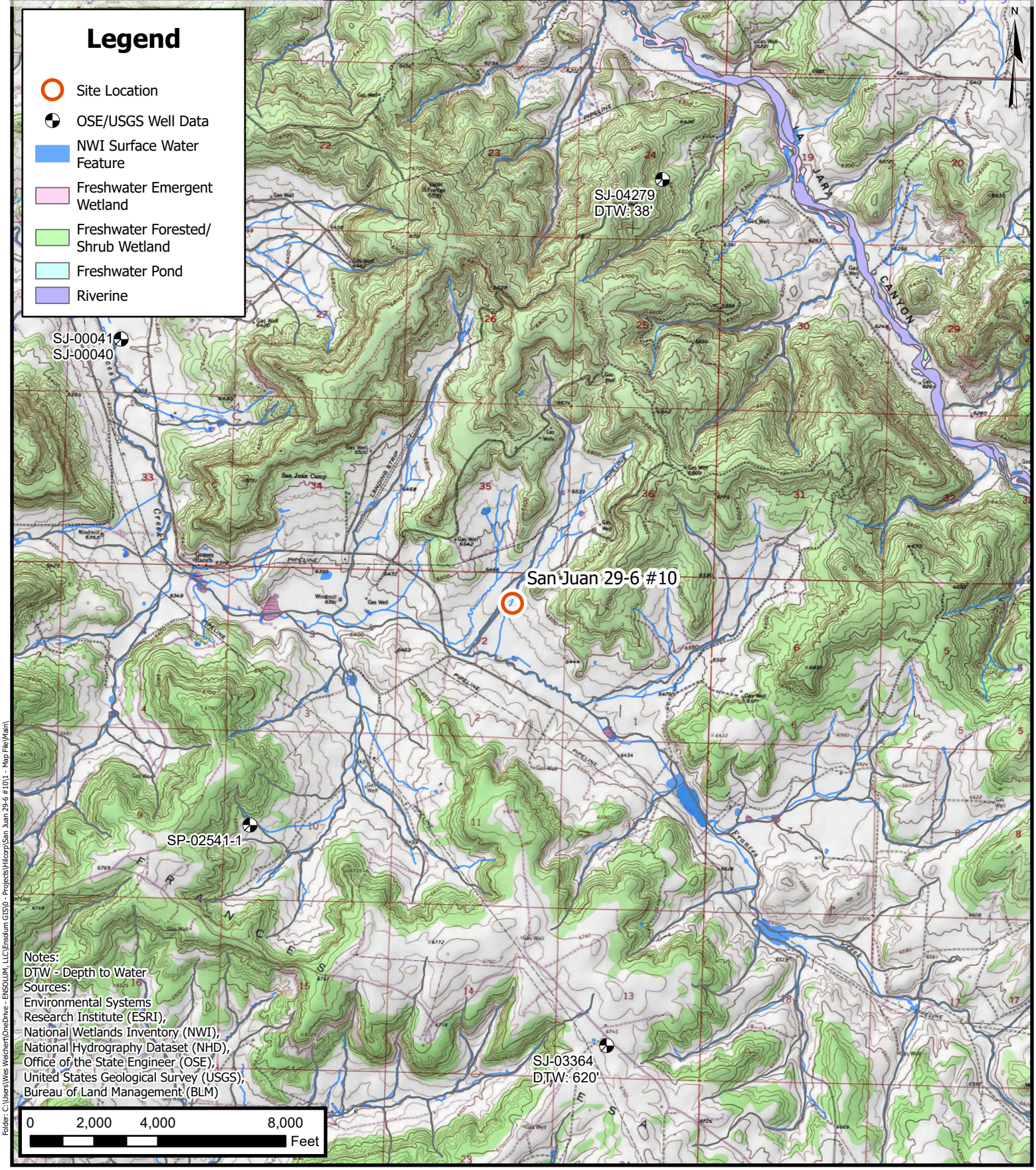
FIGURES



Folder: C:\Users\Wes Welchert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Hilcorp\San Juan 29-6 #10\1 - Map File\Main\

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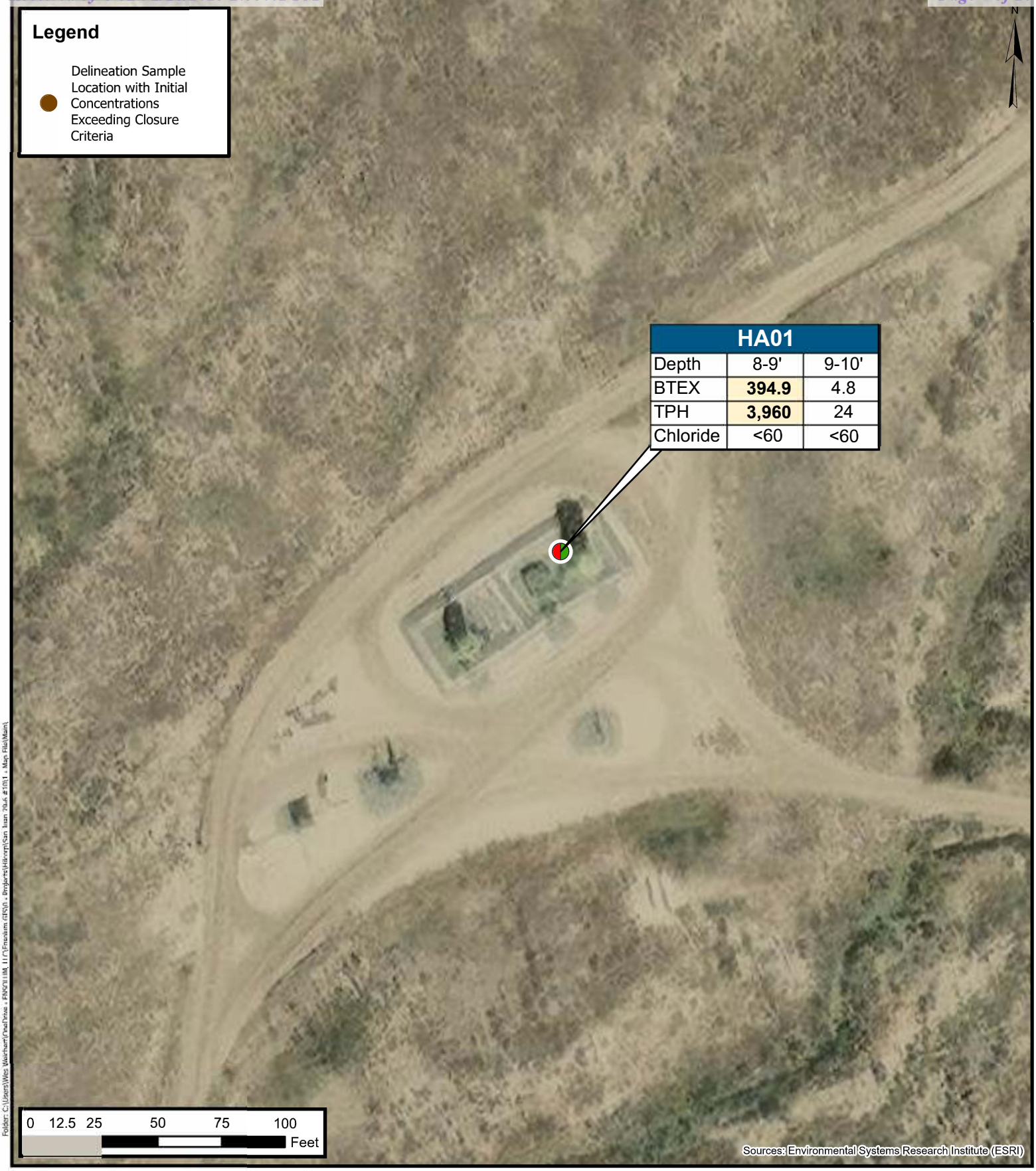
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Hilcorp Energy Company
San Juan 29-6 #10
Incident Number: nAPP2436545148
Unit B, Sec 2, T29N, R6W
Rio Arriba, New Mexico

FIGURE 1



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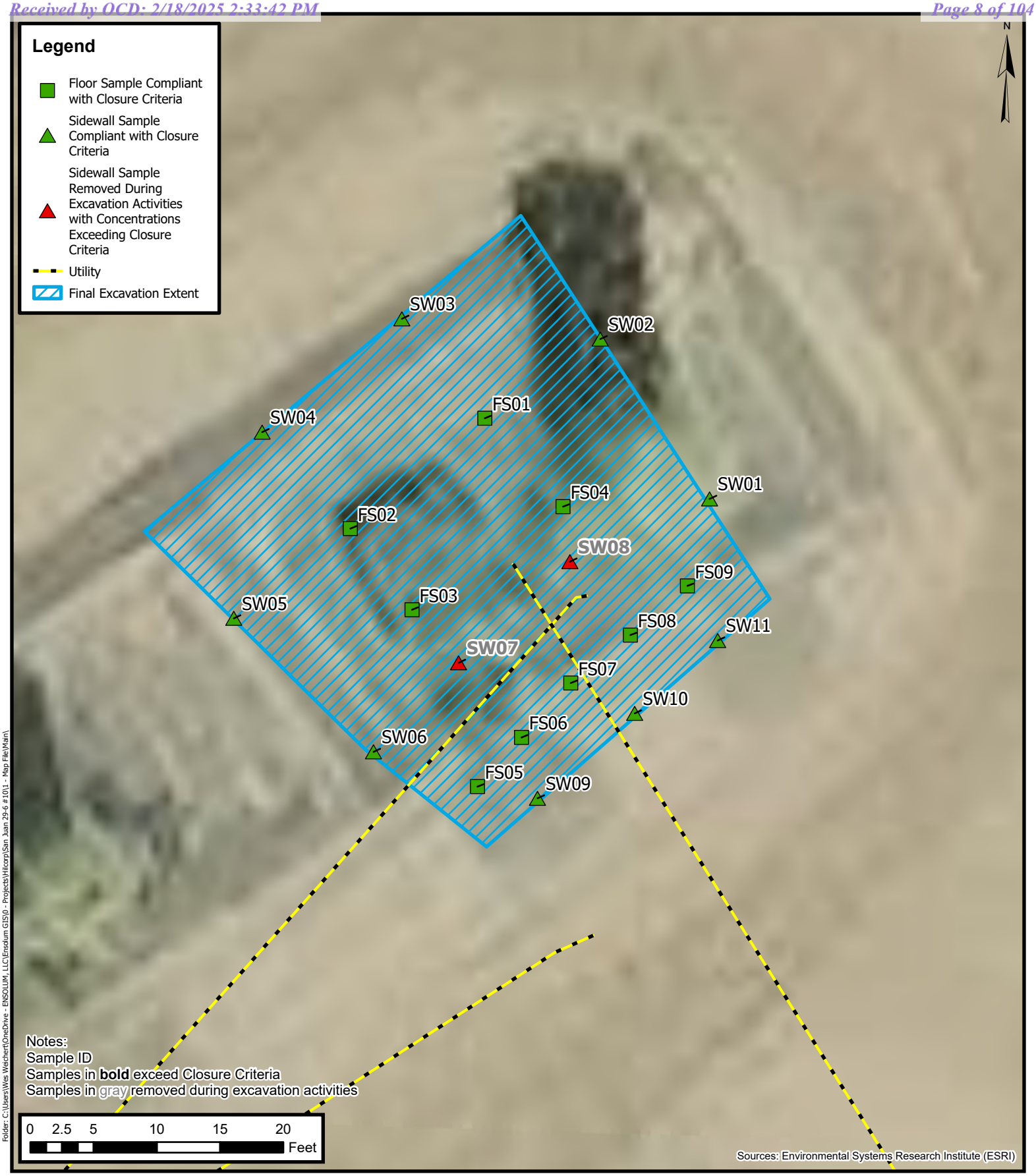
Delineation Soil Sample Location

Hilcorp Energy Company
San Juan 29-6 #10
Incident Number: nAPP2436545148
Unit B, Sec 2, T29N, R6W
Rio Arriba, New Mexico

FIGURE 2



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Environmental, Engineering and Hydrogeologic Consultants

Excavation Soil Sample Location

Hilcorp Energy Company
San Juan 29-6 #10
Incident Number: nAPP2436545148
Unit B, Sec 2, T29N, R6W
Rio Arriba, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
San Juan 29-6 Unit #10
Hilcorp Energy Company
Rio Arriba County, New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Field Chloride (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release					**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
Delineation Soil Samples														
HA01 @ 8-9'	1/8/2025	8-9	3,805	<128	3.9	91	20	280	**394.9**	3,200	760	<48	**3,960**	<60
HA01 @ 9-10'	1/8/2025	9-10	2,760	<128	0.078	1.2	0.19	3.3	4.8	24	<9.3	<46	24	<60
Excavation Sidewall Confirmation Samples														
SW01	1/22/2025	0-10	580	--	0.043	0.64	0.14	2.3	3.123	21	<9.7	<48	21	<60
SW02	1/22/2025	0-10	429	--	<0.019	0.63	0.18	2.9	3.71	24	<9.2	<46	24	<60
SW03	1/22/2025	0-10	10	--	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.6	<48	<48	<60
SW04	1/22/2025	0-10	3.8	--	<0.022	<0.044	<0.044	<0.088	<0.088	<4.4	<9.3	<47	<47	<60
SW05	1/22/2025	0-10	521	--	<0.017	0.30	0.079	1.4	1.779	12	11	<49	23	<60
SW06	1/22/2025	0-10	0.1	--	<0.020	<0.039	<0.039	<0.079	<0.079	<3.9	<9.7	<49	<49	<60
SW07	1/22/2025	0-10	5,000	--	5.7	85	15	220	**325.7**	2,800	1,400	<95	**4,200**	<60
SW08	1/22/2025	0-10	5,000	--	2.2	54	13	190	**259.2**	2,000	370	<50	**2,370**	<60
SW09	2/5/2025	0-13	5.0	--	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
SW10	2/5/2025	0-10	14.9	--	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	30.9
SW11	2/5/2025	0-10	5.6	--	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	77.4
Excavation Floor Confirmation Samples														
FS01	1/22/2025	10	20	--	<0.017	<0.035	<0.035	<0.070	<0.070	<3.5	<9.9	<50	<50	<60
FS02	1/22/2025	10	245	--	<0.016	<0.033	<0.033	0.098	0.098	<3.3	<9.2	<46	<46	<60
FS03	1/22/2025	10	667	--	<0.018	0.072	<0.037	0.33	0.402	<3.7	<9.1	<46	<46	<60
FS04	1/22/2025	10	403	--	0.026	0.16	<0.030	0.15	0.336	<3.0	<9.8	<49	<49	<60
FS05	2/5/2025	10	456.1	--	<0.0250	0.134	<0.0250	0.375	0.509	<20.0	<25.0	<50.0	<50.0	<20.0
FS06	2/5/2025	13	772.5	--	<0.0250	0.101	<0.0250	0.356	0.457	<20.0	<25.0	<50.0	<50.0	<20.0
FS07	2/5/2025	13	50.3	--	<0.0250	0.0467	<0.0250	0.366	0.4127	<20.0	<25.0	<50.0	<50.0	<20.0
FS08	2/5/2025	13	385	--	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
FS09	2/5/2025	10	523.1	--	<0.0250	0.0542	<0.0250	0.126	0.1802	<20.0	<25.0	<50.0	<50.0	<20.0

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
PID: Photoionization detector
ppm: Parts per million
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
': Feet
< : Indicates result less than the stated laboratory reporting limit (RL)
*Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release*

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APPENDIX A

NMOSE Point of Diversion Summary

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 9 (MW 8) Canada Mesa #2	MW 8	SJ-4279

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGP Company, LLC (Contact Joseph Wiley)	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street, Room 757A	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	17	45.63	N
	LONGITUDE	-107	24	49.98	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NE/4 SE/4, Sec 24, T24N, R6W, Rio Arriba County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1210	Bryan Nydoske	Cascade Drilling LP

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7.18.19	7.19.19	50	51	38

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 38

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY: HSA

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
+2.5	30	8.25	Sch 40 PVC Riser	Threaded	2	.154	
30	50	8.25	Sch 40 PVC Screen	Threaded	2	.154	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	1	8.25	Concrete / Redimix	.348	Pour
1	24	8.25	Baroid Quik-Grout 20% Solids	8.0	Tremie
24	27	8.25	3/8 Bentonite chips	1.04	Tremie
27	51	8.25	10/20 Colo. Silica Sand	7.65	Tremie

STATE ENGINEER'S OFFICE ALBUQUERQUE, NEW MEXICO 2015 AUG 12 PM 2:59

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. SJ-4279	POD NO. 9	TRN NO. 680824	
LOCATION 24N.6W.24.420		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	51	51	Silty Sands, Sandstone, Clay Lenses	✓ Y N	0.50
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
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				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

STATE ENGINEER'S OFFICE ALBUQUERQUE, NEW MEXICO 2019 AUG 12 PM 4:00

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
☑ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.50

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: 6" Stick-up Steel Vault, 4 Crash Bollards, Locking cap, Painted Yellow

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Matthew Cain

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Bryan Wydoske — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

7/26/19 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. SJ-4279	POD NO. 9	TRN NO.	
LOCATION 24N.6W. 24.420		WELL TAG ID NO.	PAGE 2 OF 2

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APPENDIX B

Agency Correspondence

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 421924
Date: Friday, January 17, 2025 9:28:01 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#) nAPP2436545148.

The sampling event is expected to take place:

When: 01/21/2025 @ 09:30
Where: B-02-29N-06W 990 FNL 1850 FEL (36.759021,-107.4291)

Additional Information: Stuart Hyde (PM) 970-903-1607
Sidney Mahanay 979-877-8887

Additional Instructions: Site Location: 36.7590218, -107.4291
> Notification will also include January 22nd if sampling takes longer than expected.
> A variance from the 2-day Notification is requested.

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

Sidney Mahanay

From: Stuart Hyde
Sent: Tuesday, January 21, 2025 9:58 AM
To: Sidney Mahanay
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 422543

Can you PDF this in the folder?

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

"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: Monday, January 20, 2025 5:13 PM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 422543

[**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#) nAPP2436545148.

The sampling event is expected to take place:

When: 01/23/2025 @ 09:00
Where: B-02-29N-06W 990 FNL 1850 FEL (36.759021,-107.4291)

Additional Information: Stuart Hyde (PM) 970-903-1607
Sidney Mahanay 979-877-8887

Additional Instructions: San Juan 29-6 #10 well pad, Site Location: 36.7590218, -107.4291

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: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 416964
Date: Friday, January 3, 2025 4:00:07 PM

[**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#) nAPP2436545148.

The sampling event is expected to take place:

When: 01/08/2025 @ 10:00
Where: B-02-29N-06W 990 FNL 1850 FEL (36.759021,-107.4291)

Additional Information: Contact PM Stuart Hyde, 970-903-1607

Additional Instructions: Well pad San Juan 29-6 #10, coordinates 36.759012, -107.4291

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: Stuart Hyde
To: Sidney Mahanay
Subject: FW: [EXTERNAL] nAPP2436545148 - San Juan 29-6 #10 Sampling Notification Variance Request
Date: Friday, January 17, 2025 10:46:03 AM
Attachments: image001.png
image002.png
image003.png
Outlook-210ndywt.png

Can you put this in the folder as a PDF?

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

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

---

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, January 17, 2025 10:03 AM
To: Stuart Hyde <shyde@ensolum.com>; eco@nmslo.gov
Cc: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Kate Kaufman <kkaufman@hilcorp.com>; Knight, Tami C. <tknight@nmslo.gov>
Subject: Re: [EXTERNAL] nAPP2436545148 - San Juan 29-6 #10 Sampling Notification Variance Request

[**EXTERNAL EMAIL**]

Good mornng Stuart,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be

included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Stuart Hyde <shyde@ensolum.com>
Sent: Friday, January 17, 2025 9:35 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; eco@nmslo.gov <eco@nmslo.gov>
Cc: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Kate Kaufman <kkaufman@hilcorp.com>; Knight, Tami C. <tknight@nmslo.gov>
Subject: [EXTERNAL] nAPP2436545148 - San Juan 29-6 #10 Sampling Notification Variance Request

Nelson,

On behalf of Hilcorp Energy Company, we are requesting a variance from the 2-business day sampling notification requirement outlined in 19.15.29.12(D)(1)(a) NMAC to allow soil sampling to begin on Tuesday January 21, 2025 at the San Juan 29-6 #10 site.

Please reach out if you have any questions or concerns. Thanks and talk to you soon.

Stuart Hyde, PG
(Licensed in WA/TX)

Senior Managing Geologist
970-903-1607
Ensolum, LLC

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

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, January 17, 2025 9:28 AM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 421924

[**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#) nAPP2436545148.

The sampling event is expected to take place:

When: 01/21/2025 @ 09:30
Where: B-02-29N-06W 990 FNL 1850 FEL (36.759021,-107.4291)

Additional Information: Stuart Hyde (PM) 970-903-1607
Sidney Mahanay 979-877-8887

Additional Instructions: Site Location: 36.7590218, -107.4291
> Notification will also include January 22nd if sampling takes longer than expected.
> A variance from the 2-day Notification is requested.

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

Wes Weichert

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, February 4, 2025 11:58 AM
To: Wes Weichert
Cc: Stuart Hyde; Kate Kaufman; Enviro, OCD, EMNRD
Subject: Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 428028 - Request for Sampling Notification Variance

[**EXTERNAL EMAIL**]
Good afternoon Wes,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

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

From: Wes Weichert <wweichert@ensolum.com>
Sent: Tuesday, February 4, 2025 11:22 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Stuart Hyde <shyde@ensolum.com>; Kate Kaufman <kkaufman@hilcorp.com>

Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 428028 - Request for Sampling Notification Variance

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

Nelson,

Due to a scheduling change, an excavator crew is now available to complete delineation and excavation activities at the San Juan 29-6 #10 (30-039-07730) tomorrow. Accordingly, we request a variance from the 2-business day sampling notification requirement outlined in 19.15.29.12(D)(1)(a) to allow soil sampling at the site on **Wednesday, February 5, 2025**.

Please let us know if you require any additional information.

Best regards,

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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, February 4, 2025 11:07 AM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 428028

[**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#) nAPP2436545148.

The sampling event is expected to take place:

When: 02/05/2025 @ 09:00
Where: B-02-29N-06W 990 FNL 1850 FEL (36.759021,-107.4291)

Additional Information: Contact PM Stuart Hyde 970-903-1607

Additional Instructions: San Juan 29-6 #10 (30-039-07730) GPS: 36.759012, -107.4291. Additional delineation and excavation sampling

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

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
Hilcorp Energy Company
San Juan 29-6 #10
Rio Arriba County, New Mexico

Photograph: 1 Date: 1/8/2025
Description: Site during hand auger delineation
View: Southwest

Photograph: 2 Date: 1/8/2025
Description: Initial excavation extent
View: Northwest

Photograph: 3 Date: 1/22/2025
Description: Impacted soil stockpile during excavation
View: Northeast

Photograph: 4 Date: 1/22/2025
Description: Excavation activities
View: Southeast

ENSOLUM

APPENDIX D

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/13/2025 3:23:43 PM

JOB DESCRIPTION

San Juan 29-6 #10

JOB NUMBER

885-18113-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
1/13/2025 3:23:43 PM

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

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Laboratory Job ID: 885-18113-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Job ID: 885-18113-1
Project/Site: San Juan 29-6 #10

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: San Juan 29-6 #10

Job ID: 885-18113-1

Job ID: 885-18113-1 Eurofins Albuquerque

Job Narrative
885-18113-1

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

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

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

Receipt
The samples were received on 1/9/2025 7:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.1°C.

Gasoline Range Organics
Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: HA01 @ 8-9' (885-18113-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18113-1

Client Sample ID: HA01 @ 8-9'

Date Collected: 01/08/25 12:30
Date Received: 01/09/25 07:10

Lab Sample ID: 885-18113-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	3200		170		mg/Kg		01/09/25 09:57	01/09/25 10:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*180*	*S1+*	*35 - 166*	*01/09/25 09:57*	*01/09/25 10:30*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.9		0.86		mg/Kg		01/09/25 09:57	01/09/25 10:30	50
Ethylbenzene	20		1.7		mg/Kg		01/09/25 09:57	01/09/25 10:30	50
Toluene	91		1.7		mg/Kg		01/09/25 09:57	01/09/25 10:30	50
Xylenes, Total	280		3.4		mg/Kg		01/09/25 09:57	01/09/25 10:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*48 - 145*	*01/09/25 09:57*	*01/09/25 10:30*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	760		9.7		mg/Kg		01/09/25 09:25	01/09/25 12:28	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		01/09/25 09:25	01/09/25 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*01/09/25 09:25*	*01/09/25 12:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/09/25 09:31	01/09/25 11:41	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18113-1

Client Sample ID: HA01 @ 9-10'

Date Collected: 01/08/25 12:20
Date Received: 01/09/25 07:10

Lab Sample ID: 885-18113-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	24		3.8		mg/Kg		01/09/25 09:57	01/09/25 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*		*35 - 166*	*01/09/25 09:57*	*01/09/25 10:54*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.078		0.019		mg/Kg		01/09/25 09:57	01/09/25 10:54	1
Ethylbenzene	0.19		0.038		mg/Kg		01/09/25 09:57	01/09/25 10:54	1
Toluene	1.2		0.038		mg/Kg		01/09/25 09:57	01/09/25 10:54	1
Xylenes, Total	3.3		0.076		mg/Kg		01/09/25 09:57	01/09/25 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*01/09/25 09:57*	*01/09/25 10:54*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		01/09/25 09:25	01/09/25 12:39	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		01/09/25 09:25	01/09/25 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*01/09/25 09:25*	*01/09/25 12:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/09/25 09:31	01/09/25 11:51	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18113-1

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

Lab Sample ID: MB 885-19039/1-A
Matrix: Solid
Analysis Batch: 19037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19039

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		01/09/25 08:11	01/09/25 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*01/09/25 08:11*	*01/09/25 10:07*	*1*

Lab Sample ID: LCS 885-19039/2-A
Matrix: Solid
Analysis Batch: 19037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19039

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	24.8		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-19039/1-A
Matrix: Solid
Analysis Batch: 19038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19039

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		01/09/25 08:11	01/09/25 10:07	1
Ethylbenzene	ND		0.050		mg/Kg		01/09/25 08:11	01/09/25 10:07	1
Toluene	ND		0.050		mg/Kg		01/09/25 08:11	01/09/25 10:07	1
Xylenes, Total	ND		0.10		mg/Kg		01/09/25 08:11	01/09/25 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*01/09/25 08:11*	*01/09/25 10:07*	*1*

Lab Sample ID: LCS 885-19039/3-A
Matrix: Solid
Analysis Batch: 19038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19039

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.07		mg/Kg		107	70 - 130		
Ethylbenzene			1.00	1.11		mg/Kg		111	70 - 130		
m&p-Xylene			2.00	2.16		mg/Kg		108	70 - 130		
o-Xylene			1.00	1.07		mg/Kg		107	70 - 130		
Toluene			1.00	1.11		mg/Kg		111	70 - 130		
Xylenes, Total			3.00	3.23		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18113-1

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

Lab Sample ID: MB 885-19048/1-A
Matrix: Solid
Analysis Batch: 19040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19048

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		01/09/25 09:08	01/09/25 11:24	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		01/09/25 09:08	01/09/25 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*01/09/25 09:08*	*01/09/25 11:24*	*1*

Lab Sample ID: LCS 885-19048/2-A
Matrix: Solid
Analysis Batch: 19040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19048

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	40.6		mg/Kg		81	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-19050/1-A
Matrix: Solid
Analysis Batch: 19051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19050

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		01/09/25 09:31	01/09/25 11:13	1

Lab Sample ID: LCS 885-19050/2-A
Matrix: Solid
Analysis Batch: 19051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19050

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.9		mg/Kg		96	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18113-1

GC VOA

Analysis Batch: 19037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18113-1	HA01 @ 8-9'	Total/NA	Solid	8015M/D	19039
885-18113-2	HA01 @ 9-10'	Total/NA	Solid	8015M/D	19039
MB 885-19039/1-A	Method Blank	Total/NA	Solid	8015M/D	19039
LCS 885-19039/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19039

Analysis Batch: 19038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18113-1	HA01 @ 8-9'	Total/NA	Solid	8021B	19039
885-18113-2	HA01 @ 9-10'	Total/NA	Solid	8021B	19039
MB 885-19039/1-A	Method Blank	Total/NA	Solid	8021B	19039
LCS 885-19039/3-A	Lab Control Sample	Total/NA	Solid	8021B	19039

Prep Batch: 19039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18113-1	HA01 @ 8-9'	Total/NA	Solid	5035	
885-18113-2	HA01 @ 9-10'	Total/NA	Solid	5035	
MB 885-19039/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-19039/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-19039/3-A	Lab Control Sample	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 19040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18113-1	HA01 @ 8-9'	Total/NA	Solid	8015M/D	19048
885-18113-2	HA01 @ 9-10'	Total/NA	Solid	8015M/D	19048
MB 885-19048/1-A	Method Blank	Total/NA	Solid	8015M/D	19048
LCS 885-19048/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19048

Prep Batch: 19048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18113-1	HA01 @ 8-9'	Total/NA	Solid	SHAKE	
885-18113-2	HA01 @ 9-10'	Total/NA	Solid	SHAKE	
MB 885-19048/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-19048/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 19050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18113-1	HA01 @ 8-9'	Total/NA	Solid	300_Prep	
885-18113-2	HA01 @ 9-10'	Total/NA	Solid	300_Prep	
MB 885-19050/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-19050/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 19051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18113-1	HA01 @ 8-9'	Total/NA	Solid	300.0	19050
885-18113-2	HA01 @ 9-10'	Total/NA	Solid	300.0	19050
MB 885-19050/1-A	Method Blank	Total/NA	Solid	300.0	19050
LCS 885-19050/2-A	Lab Control Sample	Total/NA	Solid	300.0	19050

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18113-1

Client Sample ID: HA01 @ 8-9'

Lab Sample ID: 885-18113-1
Matrix: Solid
Date Collected: 01/08/25 12:30
Date Received: 01/09/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19039	JP	EET ALB	01/09/25 09:57
Total/NA	Analysis	8015M/D		50	19037	JP	EET ALB	01/09/25 10:30
Total/NA	Prep	5035			19039	JP	EET ALB	01/09/25 09:57
Total/NA	Analysis	8021B		50	19038	JP	EET ALB	01/09/25 10:30
Total/NA	Prep	SHAKE			19048	EM	EET ALB	01/09/25 09:25
Total/NA	Analysis	8015M/D		1	19040	MI	EET ALB	01/09/25 12:28
Total/NA	Prep	300_Prep			19050	ES	EET ALB	01/09/25 09:31
Total/NA	Analysis	300.0		20	19051	RC	EET ALB	01/09/25 11:41

Client Sample ID: HA01 @ 9-10'

Lab Sample ID: 885-18113-2
Matrix: Solid
Date Collected: 01/08/25 12:20
Date Received: 01/09/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19039	JP	EET ALB	01/09/25 09:57
Total/NA	Analysis	8015M/D		1	19037	JP	EET ALB	01/09/25 10:54
Total/NA	Prep	5035			19039	JP	EET ALB	01/09/25 09:57
Total/NA	Analysis	8021B		1	19038	JP	EET ALB	01/09/25 10:54
Total/NA	Prep	SHAKE			19048	EM	EET ALB	01/09/25 09:25
Total/NA	Analysis	8015M/D		1	19040	MI	EET ALB	01/09/25 12:39
Total/NA	Prep	300_Prep			19050	ES	EET ALB	01/09/25 09:31
Total/NA	Analysis	300.0		20	19051	RC	EET ALB	01/09/25 11:51

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18113-1

Laboratory: Eurofins Albuquerque

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5035	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

Eurofins Hall Environmental
4901 Hawkins NE
Albuquerque NM 87109
Phone (505) 345-3975

Chain of Custody Record

885-18113 COC

Client Information	Sampler: S. Mahanay	Lab PM:	Carrier Tracking No(s):	COC No: 1 of 1
Client Contact: [redacted] Kate Kaufman	Phone: [redacted] (979)877-8887	E-Mail: [redacted]	State of Origin: NM	Page: Page 1 of 1
Company: [redacted] Hilcorp Energy Company	PWSID: Results 1/10			Job #:
Address: [redacted]	Due Date Requested: [redacted] Next Day Turnaround			
City: [redacted]	TAT Requested (days): [redacted]			
State, Zip: [redacted] (346)237-2275	Compliance Project: Δ Yes Δ No			
Phone: [redacted] ~~(907) 244-8292~~ TP	PO #: [redacted]			
Email: [redacted] kkaufman@hilcorp.com	WO #: NA			
Project Name: [redacted] SanJuan 29-6 #10	Project #: NA			
Site: [redacted] —	SSOW#: NA			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~8021 VOC~~ TPH 8015	BTEX - 8260 8021	Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code: A								
HA01 @ 8-9'	1/8/25	12:30	GRAB	SOIL	N	N	X	X	X	1	Ice
HA01 @ 9-10'	1/8/25	12:20	GRAB	SOIL	N	N	X	X	X	1	Ice

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions: please include results to wweichert@ensolum.com and dhencmann@ensolum.com

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
SM	1/8/25 1428		CWalt	1/8/25 1428	Eurofins
Relinquished by: [signature]	1/8/25 1730		Received by:	1/9/25 7:10	courier
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: -2.1+0=-2.1 c VAG

Ver: 02/24/23

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-18113-1

Login Number: 18113 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/28/2025 4:49:37 PM

JOB DESCRIPTION

San Juan 29-6 #10

JOB NUMBER

885-18765-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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1/28/2025 4:49:37 PM

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

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Laboratory Job ID: 885-18765-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-18765-1
Project/Site: San Juan 29-6 #10

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: San Juan 29-6 #10

Job ID: 885-18765-1

Job ID: 885-18765-1 Eurofins Albuquerque

Job Narrative
885-18765-1

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

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

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

Receipt
The samples were received on 1/23/2025 7:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.4°C.

Gasoline Range Organics
Method 8015D_GRO: Surrogate recovery for the following samples were outside control limits: SW07 (885-18765-7) and SW08 (885-18765-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Diesel Range Organics
Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: SW07 (885-18765-7). Elevated reporting limits (RLs) are provided.

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

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW01

Date Collected: 01/22/25 15:20
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	21		3.9		mg/Kg		01/23/25 09:22	01/23/25 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*35 - 166*	*01/23/25 09:22*	*01/23/25 21:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.043		0.019		mg/Kg		01/23/25 09:22	01/23/25 21:58	1
Ethylbenzene	0.14		0.039		mg/Kg		01/23/25 09:22	01/23/25 21:58	1
Toluene	0.64		0.039		mg/Kg		01/23/25 09:22	01/23/25 21:58	1
Xylenes, Total	2.3		0.077		mg/Kg		01/23/25 09:22	01/23/25 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*01/23/25 09:22*	*01/23/25 21:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		01/23/25 09:32	01/23/25 12:54	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		01/23/25 09:32	01/23/25 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*01/23/25 09:32*	*01/23/25 12:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 12:59	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW02

Date Collected: 01/22/25 15:25
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	24		3.8		mg/Kg		01/23/25 09:22	01/23/25 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*		*35 - 166*	*01/23/25 09:22*	*01/23/25 23:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		01/23/25 09:22	01/23/25 23:09	1
Ethylbenzene	0.18		0.038		mg/Kg		01/23/25 09:22	01/23/25 23:09	1
Toluene	0.63		0.038		mg/Kg		01/23/25 09:22	01/23/25 23:09	1
Xylenes, Total	2.9		0.077		mg/Kg		01/23/25 09:22	01/23/25 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*48 - 145*	*01/23/25 09:22*	*01/23/25 23:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		01/23/25 09:32	01/23/25 13:05	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		01/23/25 09:32	01/23/25 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*01/23/25 09:32*	*01/23/25 13:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 13:09	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW03

Date Collected: 01/22/25 15:30
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		01/23/25 09:22	01/24/25 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*01/23/25 09:22*	*01/24/25 00:20*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		01/23/25 09:22	01/24/25 00:20	1
Ethylbenzene	ND		0.047		mg/Kg		01/23/25 09:22	01/24/25 00:20	1
Toluene	ND		0.047		mg/Kg		01/23/25 09:22	01/24/25 00:20	1
Xylenes, Total	ND		0.093		mg/Kg		01/23/25 09:22	01/24/25 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*01/23/25 09:22*	*01/24/25 00:20*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		01/23/25 09:32	01/23/25 13:16	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		01/23/25 09:32	01/23/25 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*01/23/25 09:32*	*01/23/25 13:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 13:19	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW04

Date Collected: 01/22/25 15:35
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.4		mg/Kg		01/23/25 09:22	01/24/25 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*01/23/25 09:22*	*01/24/25 00:44*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		01/23/25 09:22	01/24/25 00:44	1
Ethylbenzene	ND		0.044		mg/Kg		01/23/25 09:22	01/24/25 00:44	1
Toluene	ND		0.044		mg/Kg		01/23/25 09:22	01/24/25 00:44	1
Xylenes, Total	ND		0.088		mg/Kg		01/23/25 09:22	01/24/25 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*01/23/25 09:22*	*01/24/25 00:44*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		01/23/25 09:32	01/23/25 13:27	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		01/23/25 09:32	01/23/25 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*01/23/25 09:32*	*01/23/25 13:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 13:30	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW05

Date Collected: 01/22/25 15:40
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**12**		3.5		mg/Kg		01/23/25 09:22	01/24/25 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*		*35 - 166*	*01/23/25 09:22*	*01/24/25 01:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		01/23/25 09:22	01/24/25 01:07	1
Ethylbenzene	**0.079**		0.035		mg/Kg		01/23/25 09:22	01/24/25 01:07	1
Toluene	**0.30**		0.035		mg/Kg		01/23/25 09:22	01/24/25 01:07	1
Xylenes, Total	**1.4**		0.070		mg/Kg		01/23/25 09:22	01/24/25 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*01/23/25 09:22*	*01/24/25 01:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.8		mg/Kg		01/23/25 09:32	01/23/25 13:37	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		01/23/25 09:32	01/23/25 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*	*01/23/25 09:32*	*01/23/25 13:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 14:01	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW06

Date Collected: 01/22/25 15:45
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9		mg/Kg		01/23/25 09:22	01/24/25 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*01/23/25 09:22*	*01/24/25 01:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		01/23/25 09:22	01/24/25 01:31	1
Ethylbenzene	ND		0.039		mg/Kg		01/23/25 09:22	01/24/25 01:31	1
Toluene	ND		0.039		mg/Kg		01/23/25 09:22	01/24/25 01:31	1
Xylenes, Total	ND		0.079		mg/Kg		01/23/25 09:22	01/24/25 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*01/23/25 09:22*	*01/24/25 01:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		01/23/25 09:32	01/23/25 13:48	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		01/23/25 09:32	01/23/25 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*01/23/25 09:32*	*01/23/25 13:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 14:11	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW07

Date Collected: 01/22/25 15:50
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2800		38		mg/Kg		01/23/25 09:22	01/24/25 01:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*266*	*S1+*	*35 - 166*	*01/23/25 09:22*	*01/24/25 01:54*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.7		0.19		mg/Kg		01/23/25 09:22	01/24/25 01:54	10
Ethylbenzene	15		0.38		mg/Kg		01/23/25 09:22	01/24/25 01:54	10
Toluene	85		3.8		mg/Kg		01/23/25 09:22	01/24/25 14:02	100
Xylenes, Total	220		7.6		mg/Kg		01/23/25 09:22	01/24/25 14:02	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*		*48 - 145*	*01/23/25 09:22*	*01/24/25 01:54*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		19		mg/Kg		01/23/25 09:32	01/24/25 00:34	2
Motor Oil Range Organics [C28-C40]	ND		95		mg/Kg		01/23/25 09:32	01/24/25 00:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*01/23/25 09:32*	*01/24/25 00:34*	*2*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 14:21	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW08

Date Collected: 01/22/25 15:55
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2000		39		mg/Kg		01/23/25 09:22	01/24/25 02:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*252*	*S1+*	*35 - 166*	*01/23/25 09:22*	*01/24/25 02:18*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.2		0.20		mg/Kg		01/23/25 09:22	01/24/25 02:18	10
Ethylbenzene	13		0.39		mg/Kg		01/23/25 09:22	01/24/25 02:18	10
Toluene	54		3.9		mg/Kg		01/23/25 09:22	01/24/25 13:37	100
Xylenes, Total	190		7.9		mg/Kg		01/23/25 09:22	01/24/25 13:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*		*48 - 145*	*01/23/25 09:22*	*01/24/25 02:18*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	370		9.9		mg/Kg		01/23/25 09:32	01/23/25 14:10	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		01/23/25 09:32	01/23/25 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*01/23/25 09:32*	*01/23/25 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 14:32	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: FS01

Date Collected: 01/22/25 15:00
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5		mg/Kg		01/23/25 09:22	01/24/25 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*01/23/25 09:22*	*01/24/25 02:42*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		01/23/25 09:22	01/24/25 02:42	1
Ethylbenzene	ND		0.035		mg/Kg		01/23/25 09:22	01/24/25 02:42	1
Toluene	ND		0.035		mg/Kg		01/23/25 09:22	01/24/25 02:42	1
Xylenes, Total	ND		0.070		mg/Kg		01/23/25 09:22	01/24/25 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*01/23/25 09:22*	*01/24/25 02:42*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		01/23/25 09:32	01/23/25 14:21	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		01/23/25 09:32	01/23/25 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*01/23/25 09:32*	*01/23/25 14:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 14:42	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: FS02

Date Collected: 01/22/25 15:05
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3		mg/Kg		01/23/25 09:22	01/24/25 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*01/23/25 09:22*	*01/24/25 03:05*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016		mg/Kg		01/23/25 09:22	01/24/25 03:05	1
Ethylbenzene	ND		0.033		mg/Kg		01/23/25 09:22	01/24/25 03:05	1
Toluene	ND		0.033		mg/Kg		01/23/25 09:22	01/24/25 03:05	1
Xylenes, Total	**0.098**		0.065		mg/Kg		01/23/25 09:22	01/24/25 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*01/23/25 09:22*	*01/24/25 03:05*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		01/23/25 09:32	01/23/25 14:31	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		01/23/25 09:32	01/23/25 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*01/23/25 09:32*	*01/23/25 14:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 14:52	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: FS03

Date Collected: 01/22/25 15:10
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.7		mg/Kg		01/23/25 09:22	01/24/25 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*01/23/25 09:22*	*01/24/25 03:53*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		01/23/25 09:22	01/24/25 03:53	1
Ethylbenzene	ND		0.037		mg/Kg		01/23/25 09:22	01/24/25 03:53	1
Toluene	**0.072**		0.037		mg/Kg		01/23/25 09:22	01/24/25 03:53	1
Xylenes, Total	**0.33**		0.074		mg/Kg		01/23/25 09:22	01/24/25 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*01/23/25 09:22*	*01/24/25 03:53*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		01/23/25 09:32	01/23/25 14:53	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		01/23/25 09:32	01/23/25 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*01/23/25 09:32*	*01/23/25 14:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 15:03	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: FS04

Date Collected: 01/22/25 15:15
Date Received: 01/23/25 07:15

Lab Sample ID: 885-18765-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.0		mg/Kg		01/23/25 09:22	01/24/25 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*01/23/25 09:22*	*01/24/25 04:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.026**		0.015		mg/Kg		01/23/25 09:22	01/24/25 04:17	1
Ethylbenzene	ND		0.030		mg/Kg		01/23/25 09:22	01/24/25 04:17	1
Toluene	**0.16**		0.030		mg/Kg		01/23/25 09:22	01/24/25 04:17	1
Xylenes, Total	**0.15**		0.060		mg/Kg		01/23/25 09:22	01/24/25 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*01/23/25 09:22*	*01/24/25 04:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		01/23/25 09:32	01/23/25 15:04	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		01/23/25 09:32	01/23/25 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*01/23/25 09:32*	*01/23/25 15:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/23/25 08:40	01/23/25 15:13	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

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

Lab Sample ID: MB 885-19726/1-A
Matrix: Solid
Analysis Batch: 19771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19726

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		01/23/25 09:22	01/23/25 20:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*01/23/25 09:22*	*01/23/25 20:47*	*1*

Lab Sample ID: LCS 885-19726/2-A
Matrix: Solid
Analysis Batch: 19771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19726

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	21.8		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*200*		*35 - 166*

Lab Sample ID: 885-18765-1 MS
Matrix: Solid
Analysis Batch: 19771

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 19726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	21		19.3	38.1		mg/Kg		91	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*256*		*35 - 166*

Lab Sample ID: 885-18765-1 MSD
Matrix: Solid
Analysis Batch: 19771

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 19726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	21		19.3	39.5		mg/Kg		98	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*259*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-19726/1-A
Matrix: Solid
Analysis Batch: 19772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19726

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		01/23/25 09:22	01/23/25 20:47	1
Ethylbenzene	ND		0.050		mg/Kg		01/23/25 09:22	01/23/25 20:47	1
Toluene	ND		0.050		mg/Kg		01/23/25 09:22	01/23/25 20:47	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

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

Lab Sample ID: MB 885-19726/1-A
Matrix: Solid
Analysis Batch: 19772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19726

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		01/23/25 09:22	01/23/25 20:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*01/23/25 09:22*	*01/23/25 20:47*	*1*

Lab Sample ID: LCS 885-19726/3-A
Matrix: Solid
Analysis Batch: 19772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19726

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.02		mg/Kg		102	70 - 130		
Ethylbenzene			1.00	1.06		mg/Kg		106	70 - 130		
m&p-Xylene			2.00	2.09		mg/Kg		104	70 - 130		
o-Xylene			1.00	1.02		mg/Kg		102	70 - 130		
Toluene			1.00	1.05		mg/Kg		105	70 - 130		
Xylenes, Total			3.00	3.11		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*

Lab Sample ID: 885-18765-2 MS
Matrix: Solid
Analysis Batch: 19772

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 19726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.768	0.813		mg/Kg		104	70 - 130		
Ethylbenzene	0.18		0.768	1.00		mg/Kg		107	70 - 130		
m&p-Xylene	2.4		1.54	3.79		mg/Kg		90	70 - 130		
o-Xylene	0.47		0.768	1.25		mg/Kg		102	70 - 130		
Toluene	0.63		0.768	1.42		mg/Kg		102	70 - 130		
Xylenes, Total	2.9		2.30	5.04		mg/Kg		94	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*48 - 145*

Lab Sample ID: 885-18765-2 MSD
Matrix: Solid
Analysis Batch: 19772

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 19726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.768	0.807		mg/Kg		104	70 - 130	1	20
Ethylbenzene	0.18		0.768	1.00		mg/Kg		107	70 - 130	0	20
m&p-Xylene	2.4		1.54	3.85		mg/Kg		93	70 - 130	2	20
o-Xylene	0.47		0.768	1.26		mg/Kg		103	70 - 130	1	20
Toluene	0.63		0.768	1.43		mg/Kg		103	70 - 130	1	20
Xylenes, Total	2.9		2.30	5.11		mg/Kg		96	70 - 130	1	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

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

Lab Sample ID: 885-18765-2 MSD
Matrix: Solid
Analysis Batch: 19772

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 19726

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*113*		*48 - 145*

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

Lab Sample ID: MB 885-19717/1-A
Matrix: Solid
Analysis Batch: 19714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19717

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		01/23/25 08:19	01/23/25 09:55	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		01/23/25 08:19	01/23/25 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*01/23/25 08:19*	*01/23/25 09:55*	*1*

Lab Sample ID: LCS 885-19717/2-A
Matrix: Solid
Analysis Batch: 19714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19717

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	49.3		mg/Kg		99	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-19720/1-A
Matrix: Solid
Analysis Batch: 19721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19720

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		01/23/25 08:40	01/23/25 10:03	1

Lab Sample ID: LCS 885-19720/2-A
Matrix: Solid
Analysis Batch: 19721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19720

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.3		mg/Kg		101	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

GC VOA

Prep Batch: 19726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-1	SW01	Total/NA	Solid	5035	
885-18765-2	SW02	Total/NA	Solid	5035	
885-18765-3	SW03	Total/NA	Solid	5035	
885-18765-4	SW04	Total/NA	Solid	5035	
885-18765-5	SW05	Total/NA	Solid	5035	
885-18765-6	SW06	Total/NA	Solid	5035	
885-18765-7	SW07	Total/NA	Solid	5035	
885-18765-8	SW08	Total/NA	Solid	5035	
885-18765-9	FS01	Total/NA	Solid	5035	
885-18765-10	FS02	Total/NA	Solid	5035	
885-18765-11	FS03	Total/NA	Solid	5035	
885-18765-12	FS04	Total/NA	Solid	5035	
MB 885-19726/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-19726/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-19726/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-18765-1 MS	SW01	Total/NA	Solid	5035	
885-18765-1 MSD	SW01	Total/NA	Solid	5035	
885-18765-2 MS	SW02	Total/NA	Solid	5035	
885-18765-2 MSD	SW02	Total/NA	Solid	5035	

Analysis Batch: 19771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-1	SW01	Total/NA	Solid	8015M/D	19726
885-18765-2	SW02	Total/NA	Solid	8015M/D	19726
885-18765-3	SW03	Total/NA	Solid	8015M/D	19726
885-18765-4	SW04	Total/NA	Solid	8015M/D	19726
885-18765-5	SW05	Total/NA	Solid	8015M/D	19726
885-18765-6	SW06	Total/NA	Solid	8015M/D	19726
885-18765-7	SW07	Total/NA	Solid	8015M/D	19726
885-18765-8	SW08	Total/NA	Solid	8015M/D	19726
885-18765-9	FS01	Total/NA	Solid	8015M/D	19726
885-18765-10	FS02	Total/NA	Solid	8015M/D	19726
885-18765-11	FS03	Total/NA	Solid	8015M/D	19726
885-18765-12	FS04	Total/NA	Solid	8015M/D	19726
MB 885-19726/1-A	Method Blank	Total/NA	Solid	8015M/D	19726
LCS 885-19726/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19726
885-18765-1 MS	SW01	Total/NA	Solid	8015M/D	19726
885-18765-1 MSD	SW01	Total/NA	Solid	8015M/D	19726

Analysis Batch: 19772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-1	SW01	Total/NA	Solid	8021B	19726
885-18765-2	SW02	Total/NA	Solid	8021B	19726
885-18765-3	SW03	Total/NA	Solid	8021B	19726
885-18765-4	SW04	Total/NA	Solid	8021B	19726
885-18765-5	SW05	Total/NA	Solid	8021B	19726
885-18765-6	SW06	Total/NA	Solid	8021B	19726
885-18765-7	SW07	Total/NA	Solid	8021B	19726
885-18765-8	SW08	Total/NA	Solid	8021B	19726
885-18765-9	FS01	Total/NA	Solid	8021B	19726
885-18765-10	FS02	Total/NA	Solid	8021B	19726

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

GC VOA (Continued)

Analysis Batch: 19772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-11	FS03	Total/NA	Solid	8021B	19726
885-18765-12	FS04	Total/NA	Solid	8021B	19726
MB 885-19726/1-A	Method Blank	Total/NA	Solid	8021B	19726
LCS 885-19726/3-A	Lab Control Sample	Total/NA	Solid	8021B	19726
885-18765-2 MS	SW02	Total/NA	Solid	8021B	19726
885-18765-2 MSD	SW02	Total/NA	Solid	8021B	19726

Analysis Batch: 19819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-7	SW07	Total/NA	Solid	8021B	19726
885-18765-8	SW08	Total/NA	Solid	8021B	19726

GC Semi VOA

Analysis Batch: 19714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-1	SW01	Total/NA	Solid	8015M/D	19717
885-18765-2	SW02	Total/NA	Solid	8015M/D	19717
885-18765-3	SW03	Total/NA	Solid	8015M/D	19717
885-18765-4	SW04	Total/NA	Solid	8015M/D	19717
885-18765-5	SW05	Total/NA	Solid	8015M/D	19717
885-18765-6	SW06	Total/NA	Solid	8015M/D	19717
885-18765-7	SW07	Total/NA	Solid	8015M/D	19717
885-18765-8	SW08	Total/NA	Solid	8015M/D	19717
885-18765-9	FS01	Total/NA	Solid	8015M/D	19717
885-18765-10	FS02	Total/NA	Solid	8015M/D	19717
885-18765-11	FS03	Total/NA	Solid	8015M/D	19717
885-18765-12	FS04	Total/NA	Solid	8015M/D	19717
MB 885-19717/1-A	Method Blank	Total/NA	Solid	8015M/D	19717
LCS 885-19717/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19717

Prep Batch: 19717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-1	SW01	Total/NA	Solid	SHAKE	
885-18765-2	SW02	Total/NA	Solid	SHAKE	
885-18765-3	SW03	Total/NA	Solid	SHAKE	
885-18765-4	SW04	Total/NA	Solid	SHAKE	
885-18765-5	SW05	Total/NA	Solid	SHAKE	
885-18765-6	SW06	Total/NA	Solid	SHAKE	
885-18765-7	SW07	Total/NA	Solid	SHAKE	
885-18765-8	SW08	Total/NA	Solid	SHAKE	
885-18765-9	FS01	Total/NA	Solid	SHAKE	
885-18765-10	FS02	Total/NA	Solid	SHAKE	
885-18765-11	FS03	Total/NA	Solid	SHAKE	
885-18765-12	FS04	Total/NA	Solid	SHAKE	
MB 885-19717/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-19717/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

HPLC/IC

Prep Batch: 19720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-1	SW01	Total/NA	Solid	300_Prep	
885-18765-2	SW02	Total/NA	Solid	300_Prep	
885-18765-3	SW03	Total/NA	Solid	300_Prep	
885-18765-4	SW04	Total/NA	Solid	300_Prep	
885-18765-5	SW05	Total/NA	Solid	300_Prep	
885-18765-6	SW06	Total/NA	Solid	300_Prep	
885-18765-7	SW07	Total/NA	Solid	300_Prep	
885-18765-8	SW08	Total/NA	Solid	300_Prep	
885-18765-9	FS01	Total/NA	Solid	300_Prep	
885-18765-10	FS02	Total/NA	Solid	300_Prep	
885-18765-11	FS03	Total/NA	Solid	300_Prep	
885-18765-12	FS04	Total/NA	Solid	300_Prep	
MB 885-19720/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-19720/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 19721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18765-1	SW01	Total/NA	Solid	300.0	19720
885-18765-2	SW02	Total/NA	Solid	300.0	19720
885-18765-3	SW03	Total/NA	Solid	300.0	19720
885-18765-4	SW04	Total/NA	Solid	300.0	19720
885-18765-5	SW05	Total/NA	Solid	300.0	19720
885-18765-6	SW06	Total/NA	Solid	300.0	19720
885-18765-7	SW07	Total/NA	Solid	300.0	19720
885-18765-8	SW08	Total/NA	Solid	300.0	19720
885-18765-9	FS01	Total/NA	Solid	300.0	19720
885-18765-10	FS02	Total/NA	Solid	300.0	19720
885-18765-11	FS03	Total/NA	Solid	300.0	19720
885-18765-12	FS04	Total/NA	Solid	300.0	19720
MB 885-19720/1-A	Method Blank	Total/NA	Solid	300.0	19720
LCS 885-19720/2-A	Lab Control Sample	Total/NA	Solid	300.0	19720

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW01 — Lab Sample ID: 885-18765-1

Date Collected: 01/22/25 15:20 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/23/25 21:58
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/23/25 21:58
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 12:54
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 12:59

Client Sample ID: SW02 — Lab Sample ID: 885-18765-2

Date Collected: 01/22/25 15:25 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/23/25 23:09
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/23/25 23:09
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 13:05
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 13:09

Client Sample ID: SW03 — Lab Sample ID: 885-18765-3

Date Collected: 01/22/25 15:30 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 00:20
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 00:20
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 13:16
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 13:19

Client Sample ID: SW04 — Lab Sample ID: 885-18765-4

Date Collected: 01/22/25 15:35 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 00:44

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW04

Lab Sample ID: 885-18765-4

Date Collected: 01/22/25 15:35
Matrix: Solid
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 00:44
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 13:27
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 13:30

Client Sample ID: SW05

Lab Sample ID: 885-18765-5

Date Collected: 01/22/25 15:40
Matrix: Solid
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 01:07
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 01:07
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 13:37
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 14:01

Client Sample ID: SW06

Lab Sample ID: 885-18765-6

Date Collected: 01/22/25 15:45
Matrix: Solid
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 01:31
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 01:31
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 13:48
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 14:11

Client Sample ID: SW07

Lab Sample ID: 885-18765-7

Date Collected: 01/22/25 15:50
Matrix: Solid
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		10	19771	JP	EET ALB	01/24/25 01:54
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		10	19772	JP	EET ALB	01/24/25 01:54

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: SW07 — Lab Sample ID: 885-18765-7

Date Collected: 01/22/25 15:50 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		100	19819	JP	EET ALB	01/24/25 14:02
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		2	19714	EM	EET ALB	01/24/25 00:34
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 14:21

Client Sample ID: SW08 — Lab Sample ID: 885-18765-8

Date Collected: 01/22/25 15:55 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		10	19771	JP	EET ALB	01/24/25 02:18
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		10	19772	JP	EET ALB	01/24/25 02:18
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		100	19819	JP	EET ALB	01/24/25 13:37
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 14:10
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 14:32

Client Sample ID: FS01 — Lab Sample ID: 885-18765-9

Date Collected: 01/22/25 15:00 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 02:42
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 02:42
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 14:21
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 14:42

Client Sample ID: FS02 — Lab Sample ID: 885-18765-10

Date Collected: 01/22/25 15:05 — **Matrix: Solid**
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 03:05

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Client Sample ID: FS02

Lab Sample ID: 885-18765-10

Date Collected: 01/22/25 15:05
Matrix: Solid
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 03:05
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 14:31
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 14:52

Client Sample ID: FS03

Lab Sample ID: 885-18765-11

Date Collected: 01/22/25 15:10
Matrix: Solid
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 03:53
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 03:53
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 14:53
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 15:03

Client Sample ID: FS04

Lab Sample ID: 885-18765-12

Date Collected: 01/22/25 15:15
Matrix: Solid
Date Received: 01/23/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8015M/D		1	19771	JP	EET ALB	01/24/25 04:17
Total/NA	Prep	5035			19726	JP	EET ALB	01/23/25 09:22
Total/NA	Analysis	8021B		1	19772	JP	EET ALB	01/24/25 04:17
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 09:32
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 15:04
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 15:13

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: San Juan 29-6 #10

Job ID: 885-18765-1

Laboratory: Eurofins Albuquerque

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5035	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: Hilcorp Energy Company

Mailing Address: —

Phone #: 346-237-2275

email or Fax#: kkaufman@hilcorp.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush Next Day

Project Name: San Juan 29-6 #10

Project #: —

Project Manager: Kate Kaufman

Sampler: N. pottala, S. Mahaney

On Ice: ☒ Yes ☐ No

# of Coolers: 2 1.6 - 0.2 = 1.4 °C mojo

Cooler Temp(including CF): 1.4 - 0.2 = 1.2 (°C)

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

885-18765 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/22/25	1520	Soil	SW01	x1 4oz glass jar	None	
	1525		SW02			
	1530		SW03			
	1535		SW04			
	1540		SW05			
	1545		SW06			
	1550		SW07			
	1555	SH	SW08			
	1500	1500	FS01			
	1505	1505	FS02			
	1510	1510	FS03			
	1515	1515	FS04			

BTEX + MTBE + TMB's (8021) · TPH:8015D GRO / DRO / MRO · 8081 Pesticides/8082 PCB's · EDB (Method 504.1) · PAHs by 8310 or 8270SIMS · RCRA 8 Metals · Cl, F, Br, NO_3, NO_2, PO_4, SO_4 · 8260 (VOA) · 8270 (Semi-VOA) · Total Coliform (Present/Absent)

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/22	1715				1/22/25	1715
1/22/25	1751			Courier	1/23/25	7:15

Remarks: SW07 & SW08 elevated screening
include results to shyde@ensolum.com
npottala@ensolum.com

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

Login Sample Receipt Checklist

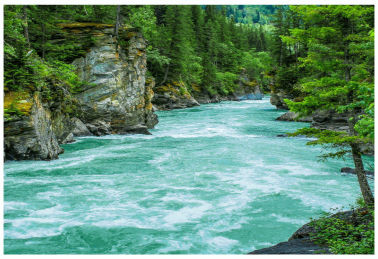
Client: Hilcorp Energy Job Number: 885-18765-1

Login Number: 18765 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

Report to:

Kate Kaufman



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 29-6 #10
Work Order:	E502049
Job Number:	17051-0002
Received:	2/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/25

Date Reported: 2/7/25

Kate Kaufman
PO Box 61529
Houston, TX 77208

Project Name: San Juan 29-6 #10
Workorder: E502049
Date Received: 2/5/2025 4:39:00PM

Kate Kaufman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/5/2025 4:39:00PM, under the Project Name: San Juan 29-6 #10.

The analytical test results summarized in this report with the Project Name: San Juan 29-6 #10 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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ljarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	02/07/25 14:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS05	E502049-01A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
FS06	E502049-02A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
FS07	E502049-03A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
FS08	E502049-04A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
FS09	E502049-05A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
FS06	E502049-06A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
FS07	E502049-07A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW01	E502049-08A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW02	E502049-09A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW03	E502049-10A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW04	E502049-11A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW05	E502049-12A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW06	E502049-13A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW09	E502049-14A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW11	E502049-15A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW10	E502049-16A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW10	E502049-17A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW11	E502049-18A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.
SW12	E502049-19A	Soil	02/05/25	02/05/25	Glass Jar, 4 oz.

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

FS05

E502049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/05/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/05/25	
Toluene	**0.134**	0.0250	1	02/05/25	02/05/25	
o-Xylene	**0.0643**	0.0250	1	02/05/25	02/05/25	
p,m-Xylene	**0.311**	0.0500	1	02/05/25	02/05/25	
Total Xylenes	**0.375**	0.0250	1	02/05/25	02/05/25	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.8 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/05/25	
Surrogate: n-Nonane		*108 %*	*61-141*	*02/05/25*	*02/05/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	ND	20.0	1	02/06/25	02/06/25	

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

FS06

E502049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/05/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/05/25	
Toluene	**0.101**	0.0250	1	02/05/25	02/05/25	
o-Xylene	**0.0717**	0.0250	1	02/05/25	02/05/25	
p,m-Xylene	**0.284**	0.0500	1	02/05/25	02/05/25	
Total Xylenes	**0.356**	0.0250	1	02/05/25	02/05/25	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/05/25	
Surrogate: n-Nonane		*107 %*	*61-141*	*02/05/25*	*02/05/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	ND	20.0	1	02/06/25	02/06/25	

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

FS07

E502049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/05/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/05/25	
Toluene	**0.0467**	0.0250	1	02/05/25	02/05/25	
o-Xylene	**0.0614**	0.0250	1	02/05/25	02/05/25	
p,m-Xylene	**0.305**	0.0500	1	02/05/25	02/05/25	
Total Xylenes	**0.366**	0.0250	1	02/05/25	02/05/25	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/05/25	
Surrogate: n-Nonane		*103 %*	*61-141*	*02/05/25*	*02/05/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	ND	20.0	1	02/06/25	02/06/25	

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

FS08

E502049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/05/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/05/25	
Toluene	ND	0.0250	1	02/05/25	02/05/25	
o-Xylene	ND	0.0250	1	02/05/25	02/05/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/05/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/05/25	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.5 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/05/25	
Surrogate: n-Nonane		*104 %*	*61-141*	*02/05/25*	*02/05/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	ND	20.0	1	02/06/25	02/06/25	

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

FS09

E502049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/05/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/05/25	
Toluene	**0.0542**	0.0250	1	02/05/25	02/05/25	
o-Xylene	ND	0.0250	1	02/05/25	02/05/25	
p,m-Xylene	**0.126**	0.0500	1	02/05/25	02/05/25	
Total Xylenes	**0.126**	0.0250	1	02/05/25	02/05/25	
Surrogate: 4-Bromochlorobenzene-PID		*91.1 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.9 %*	*70-130*	*02/05/25*	*02/05/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/05/25	
Surrogate: n-Nonane		*104 %*	*61-141*	*02/05/25*	*02/05/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	ND	20.0	1	02/06/25	02/06/25	

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

SW09

E502049-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/06/25	
Toluene	ND	0.0250	1	02/05/25	02/06/25	
o-Xylene	ND	0.0250	1	02/05/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/06/25	
Surrogate: 4-Bromochlorobenzene-PID		*88.0 %*	*70-130*	*02/05/25*	*02/06/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.2 %*	*70-130*	*02/05/25*	*02/06/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/06/25	
Surrogate: n-Nonane		*120 %*	*61-141*	*02/05/25*	*02/06/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	ND	20.0	1	02/06/25	02/06/25	

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

SW11

E502049-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/06/25	
Toluene	ND	0.0250	1	02/05/25	02/06/25	
o-Xylene	ND	0.0250	1	02/05/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/06/25	
Surrogate: 4-Bromochlorobenzene-PID		*89.0 %*	*70-130*	*02/05/25*	*02/06/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.4 %*	*70-130*	*02/05/25*	*02/06/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/06/25	
Surrogate: n-Nonane		*118 %*	*61-141*	*02/05/25*	*02/06/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	**77.4**	20.0	1	02/06/25	02/06/25	

Sample Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

SW10

E502049-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Benzene	ND	0.0250	1	02/05/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/06/25	
Toluene	ND	0.0250	1	02/05/25	02/06/25	
o-Xylene	ND	0.0250	1	02/05/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/06/25	
Surrogate: 4-Bromochlorobenzene-PID		*89.2 %*	*70-130*	*02/05/25*	*02/06/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2506077
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*02/05/25*	*02/06/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2506079
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/25	02/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/25	02/05/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*02/05/25*	*02/05/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2506078
Chloride	**30.9**	20.0	1	02/06/25	02/06/25	

QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2506077-BLK1)									Prepared: 02/05/25 Analyzed: 02/06/25
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	*7.21*		*8.00*		*90.1*	*70-130*			
LCS (2506077-BS1)									Prepared: 02/05/25 Analyzed: 02/06/25
Benzene	5.54	0.0250	5.00		111	70-130			
Ethylbenzene	5.39	0.0250	5.00		108	70-130			
Toluene	5.49	0.0250	5.00		110	70-130			
o-Xylene	5.38	0.0250	5.00		108	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.41*		*8.00*		*92.7*	*70-130*			
LCS Dup (2506077-BSD1)									Prepared: 02/05/25 Analyzed: 02/06/25
Benzene	5.36	0.0250	5.00		107	70-130	3.19	20	
Ethylbenzene	5.24	0.0250	5.00		105	70-130	2.96	20	
Toluene	5.32	0.0250	5.00		106	70-130	3.12	20	
o-Xylene	5.23	0.0250	5.00		105	70-130	2.85	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	3.01	20	
Total Xylenes	15.9	0.0250	15.0		106	70-130	2.96	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.28*		*8.00*		*91.1*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2506077-BLK1)									Prepared: 02/05/25 Analyzed: 02/06/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.92*		*8.00*		*86.5*	*70-130*			
LCS (2506077-BS2)									Prepared: 02/05/25 Analyzed: 02/06/25
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.02*		*8.00*		*87.7*	*70-130*			
LCS Dup (2506077-BSD2)									Prepared: 02/05/25 Analyzed: 02/06/25
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.1	70-130	1.21	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.08*		*8.00*		*88.5*	*70-130*			

QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2506079-BLK1)									Prepared: 02/05/25 Analyzed: 02/05/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.1*		*50.0*		*102*	*61-141*			
LCS (2506079-BS1)									Prepared: 02/05/25 Analyzed: 02/05/25
Diesel Range Organics (C10-C28)	231	25.0	250		92.4	66-144			
Surrogate: n-Nonane	*50.0*		*50.0*		*100*	*61-141*			
LCS Dup (2506079-BSD1)									Prepared: 02/05/25 Analyzed: 02/05/25
Diesel Range Organics (C10-C28)	236	25.0	250		94.3	66-144	2.04	20	
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*61-141*			

QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 29-6 #10	**Reported:**
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	2/7/2025 2:35:42PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2506078-BLK1)									Prepared: 02/06/25 Analyzed: 02/06/25
Chloride	ND	20.0							
LCS (2506078-BS1)									Prepared: 02/06/25 Analyzed: 02/06/25
Chloride	256	20.0	250		102	90-110			
LCS Dup (2506078-BSD1)									Prepared: 02/06/25 Analyzed: 02/06/25
Chloride	255	20.0	250		102	90-110	0.243	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 29-6 #10	
PO Box 61529	Project Number:	17051-0002	**Reported:**
Houston TX, 77208	Project Manager:	Kate Kaufman	02/07/25 14:35

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 Record

Envirotech
~~HALL ENVIRONMENTAL ANALYSIS LABORATORY~~

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Hilcorp Energy Company

Mailing Address:

Phone #: 346-237-2275

email or Fax#: kkaufman@hilcorp.com

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

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

Turn-Around Time: ☐ Standard ☑ Rush Next Day

Project Name: San Juan 29-6 #10

Project #: San Juan 29-6 #10

Project Manager: Kate Kaufman ~~Wes Weichert~~ ~~wweichert@ensolum.com~~

Sampler: Nicole Pattala

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4° (°C)

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. Lab #	BTEX / ~~MTBE / TMB's (8021)~~	TPH:8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F, Br, NO3, NO2, PO4, SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Name changes and cancelled samples per client. NS 2/6/25			
2/15	1440	Soil	~~FS01~~ FS05	x1 4oz glass jar	None	1	X	X					X							
↓	1442	↓	~~FS02~~ FS06	↓	↓	2	↓	↓					↓							
↓	1444	↓	~~FS03~~ FS07	↓	↓	3	↓	↓					↓							
↓	1446	↓	~~FS04~~ FS08	↓	↓	4	↓	↓					↓							
↓	1220	↓	~~FS05~~ FS09	↓	↓	5	↓	↓					↓							
↓	1310	↓	~~FS06~~ (Don't Run)	↓	↓	6	↓	↓					↓							
↓	1315	↓	~~FS07~~ (Don't Run)	↓	↓	7	↓	↓					↓							
↓	1226	↓	~~SW01~~ (Don't Run)	↓	↓	8	↓	↓					↓							
↓	1228	↓	~~SW02~~ (Don't Run)	↓	↓	9	↓	↓					↓							
↓	1230	↓	~~SW03~~ (Don't Run)	↓	↓	10	↓	↓					↓							
↓	1232	↓	~~SW04~~ (Don't Run)	↓	↓	11	↓	↓					↓							
↓	1234	↓	~~SW05~~ (Don't Run)	↓	↓	12	↓	↓					↓							

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/5	439	NPattala	Noe Soto		2/5/25	1639
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: *CC npattala@ensolum.com wweichert@ensolum.com

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

Chain-of-Custody Record

Client: Hilcorp Energy Company

Mailing Address:

Phone #: 346-237-2275

email or Fax#: kkaufman@hilcorp.com

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

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

Turn-Around Time: ☐ Standard ☒ Rush Next Day

Project Name: San Juan 29-6 #10

Project #: San Juan 29-6 #10

Project Manager: Kate Kaufman

Sampler: McCole Pattella

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4° (°C)

Envirotech
~~HALL ENVIRONMENTAL ANALYSIS LABORATORY~~

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	~~HEAL No.~~ Lab #	BTEX / ~~MTBE / TMB's (8021)~~	TPH:8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F, Br, NO3, NO2, PO4, SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
2/5	1236	Soil	~~SW06~~ Don't Run	x1 4oz glass jar	None	13	X	X					X									
↓	1238	↓	~~SW07~~ SW09	↓	↓	14	↓	↓					↓									
↓	1240	↓	~~SW08~~ SW11	↓	↓	15	↓	↓					↓									
↓	1448	↓	~~SW09~~ SW10	↓	↓	16	↓	↓					↓									
↓	1450	↓	~~SW10~~ Don't Run	↓	↓	17	↓	↓					↓									
↓	1452	↓	~~SW11~~ Don't Run	↓	↓	18	↓	↓					↓									
↓	1454	↓	~~SW12~~ Don't Run	↓	↓	19	↓	↓					↓									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/5	439	[signature]	Noe Soto		2/5/25	1639
2/						

Remarks: *CC wwuchert@ensolum.com ~~npattella@npattella~~ npattella@ensolum.com

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

Lab WO # E502049 Job # 17051-0002 Page 1 of 2

Chain-of-Custody Record

Client: Hilcorp Energy Company

Mailing Address:

Phone #: 346-237-2275

email or Fax#: KKaufman@hilcorp.com

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

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

Turn-Around Time:
☐ Standard ☑ Rush Next Day

Project Name: San Juan 29-6 #10

Project #: San Juan 29-6#10

Project Manager: ~~Will Wichen~~ Kate Kaufman ~~WWichen@ensolum.com~~

Sampler: Nicole Pottala

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (Including CF): 4.0 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. Lab #	BTEX / MTBE / TMB's (8021)	TPH:8015D GRO / DRO / MRO	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
2/5	1440	soil	FS01	1x 4oz glass jar	None	1	X	X					X									
	1442		FS02			2																
	1444		FS03			3																
	1446		FS04			4																
	1220		FS05			5																
	1310		FS06			6																
	1315		FS07			7																
	1226		SW01			8																
	1228		SW02			9																
	1230		SW03			10																
	1232		SW04			11																
	1234		SW05			12																

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/5	439	Nicole Pottala	Noe Soto		2/5/25	1639
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: *CC
npottala@ensolum.com
wwichen@ensolum.com

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 The customer may order services by submitting a written purchase order to HEAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotiated contract. Any such order constitutes a) an acceptance by the Customer of HEAL'S offer to do business with the Customer under these Terms and Conditions, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to proceed with work at any time based upon an unfavorable customer credit report.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 Services performed by HEAL will be in accordance with prices quoted and later confirmed in writing or as stated on the Price Schedule, which prices are subject to change periodically without notice. The Customer should confirm with HEAL the current price prior to placing an order for work.

3.2 Payment terms are net 30 days from the date of invoice by HEAL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State currency.

3.3 The prices stated on the Price Schedule do not include any sales, use or other taxes unless specifically stated. Such taxes will be added to invoice prices when required.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 Prior to HEAL'S Acceptance of any sample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will remain with the Customer. In no event will HEAL have any responsibility or liability for the action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance or, any sample which in the sole judgement of HEAL a) is of unsuitable volume, b) unsuitable containers as required for the requested analysis, or c) may be or become unsuitable for, or may pose a risk in, handling, transport or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer.

4.3 Where applicable, HEAL will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these methodologies, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and/ or HEAL'S Standard Operating Procedures.

4.4 Upon timely delivery of samples, HEAL will use its best efforts to comply with storage, processing and analytical holding time limits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or set forth on the Price Schedule. However, unless specifically made part of a written agreement between HEAL and the Customer, such time limits cannot be guaranteed. Unless specifically indicated on the Price Schedule or expressly made part of a written agreement between HEAL and the Customer, analytical turnaround times are not guaranteed.

4.5 At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results. Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S standard quality assurance review procedures.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 HEAL warrants only that its services will fulfill obligations set forth in Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty given by HEAL in connection with any such services, and HEAL gives and makes no other representation or warranty of any kind, express or implied. No representative of HEAL is authorized to give or make any other representation or warranty or modify the warranty in any way.

5.2 The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, refunding in full or in part fees paid by the Customer for such services. HEAL'S obligation to repeat any services with respect to any sample will be contingent on the Customer's providing, at the request of HEAL and at the Customer's expense, an additional sample if necessary. Any reanalysis generating Results consistent with the Original Results will be at the Customer's expense. Except as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability to the Customer for any failure or delay in performance by HEAL, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disputes, difficulties or delays in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.

5.4 All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by Customers or third parties. All results should be considered in their entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by the customer. The Customer further warrants that any sample containing any hazardous substance, which is to be delivered to HEAL'S premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

5.6 It is understood and agreed that all samples and cuttings of materials containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laboratory byproducts will be returned to the Customer for disposal. It is understood and agreed that HEAL is not, and has no responsibility as, a generator, treater, storer, or disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, duties, fines and/or other costs (including but not limited to liability to a third party) arising out of a) the presence of hazardous substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5.5 hereof b) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence by the Customer in the use, evaluation, or application of Results provided by HEAL.

5.8 Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any HEAL instrumentation to be reduced, stopped, or altered, HEAL is entitled to compensation by the Customer for any loss of revenue due to the instrument's downtime, and/or the parts and labor necessary to bring the instruments back to its former operating condition. The amount of compensation is negotiable upon acceptance of these Terms and Conditions and the individual circumstances warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by HEAL as provided in Section 7.1, embodied the whole agreement of the parties. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, unless made in accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.

7. AMENDMENTS AND WAIVERS

7.1 HEAL shall not be subject to or bound by any provision, term or condition which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and provision, term or condition, or have given any required consent or approval, or to have waived any breach by the Customer of any of these Terms and Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duly authorized officer. No other employee, servant, agent or representatives of HEAL has any authority whatsoever to add to, delete, alter or vary any of these Terms and Conditions in any manner, or to give any consent, approval or waiver, and HEAL shall not be bound by any such purported addition, deletion, alteration, variation, consent, approval or waiver.

7.2 No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the Customer hereunder shall constitute a waiver of such provision, term or condition on any other occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance. Storage of samples or extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material may be returned at the client's expense. Materials, which are identified as hazardous, will be returned to the client or disposed of as hazardous waste and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

9.1 The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These Terms and Conditions or their interpretations.

10. GOVERNING LAW

10.1 These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.

Lab WO# E502049 Job # 17051-0002 Page 2 of 2

Chain-of-Custody Record

Client: Hilcorp Energy Company

Mailing Address:

Phone #: 346-237-2275

email or Fax#: KKaufman@hilcorp.com

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

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

Turn-Around Time:
☐ Standard ☑ Rush Next Day

Project Name: San Juan 29-6 #10

Project #: San Juan 29-6 #10

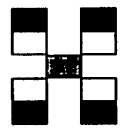
Project Manager: Kate Kaufman

Sampler: Nicole Pineda

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4° (°C)



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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. Lab #	BTEX / MIBE / TMB's (8021)	TPH:8015D GRO / DRO / MRO	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2/5	1236	Soil	SW06	x1 4oz glass jar	None	13	X	X					X			
	1238		SW07			14										
	1240		SW08			15										
	1448		SW09			16										
	1450		SW10			17										
	1452		SW11			18										
↓	1454	↓	SW12	↓	↓	19	↓	↓					↓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/5	439		Noe Soto		2/5/25	1639
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/						

Remarks: *cc wwuchner@ensolum.com
~~npotter@~~ npotter@ensolum.com

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

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 The customer may order services by submitting a written purchase order to HEAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotiated contract. Any such order constitutes a) an acceptance by the Customer of HEAL'S offer to do business with the Customer under these Terms and Conditions, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to proceed with work at any time based upon an unfavorable customer credit report.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 Services performed by HEAL will be in accordance with prices quoted and later confirmed in writing or as stated on the Price Schedule, which prices are subject to change periodically without notice. The Customer should confirm with HEAL the current price prior to placing an order for work.

3.2 Payment terms are net 30 days from the date of invoice by HEAL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State currency.

3.3 The prices stated on the Price Schedule do not include any sales, use or other taxes unless specifically stated. Such taxes will be added to invoice prices when required.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 Prior to HEAL'S Acceptance of any sample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will remain with the Customer. In no event will HEAL have any responsibility or liability for the action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance of, any sample which in the sole judgement of HEAL a) is of unsuitable volume, b) unsuitable containers as required for the requested analysis, or c) may be or become unsuitable for, or may pose a risk in, handling, transport or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer.

4.3 Where applicable, HEAL will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from those methodologies, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and/ or HEAL'S Standard Operating Procedures.

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5.2 The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, refunding in full or in part fees paid by the Customer for such services. HEAL'S obligation to repeat any services with respect to any sample will be contingent on the Customer's providing, at the request of HEAL and at the Customer's expense, an additional sample if necessary. Any reanalysis generating Results consistent with the Original Results will be at the Customer's expense. Except as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability to the Customer for any failure or delay in performance by HEAL, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disputes, difficulties or delays in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.

5.4 All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by Customers or third parties. All results should be considered in their entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.

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5.6 It is understood and agreed that all samples and cuttings of materials containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laboratory byproducts will be returned to the Customer for disposal. It is understood and agreed that HEAL is not, and has no responsibility as, a generator, treater, storer, or disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, duties, fines and/or other costs (including but not limited to liability to a third party) arising out of a) the presence of hazardous substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5.5 hereof b) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence by the Customer in the use, evaluation, or application of Results provided by HEAL.

5.8 Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any HEAL instrumentation to be reduced, stopped, or altered, HEAL is entitled to compensation by the Customer for any loss of revenue due to the instrument's downtime, and/or the parts and labor necessary to bring the instruments back to its former operating condition. The amount of compensation is negotiable upon acceptance of these Terms and Conditions and the individual circumstances warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by HEAL as provided in Section 7.1, embodied the whole agreement of the parties. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, unless made in accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.

7. AMENDMENTS AND WAIVERS

7.1 HEAL shall not be subject to or bound by any provision, term or condition which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and provision, term or condition, or have given any required consent or approval, or to have waived any breach by the Customer of any of these Terms and Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duly authorized officer. No other employee, servant, agent or representatives of HEAL has any authority whatsoever to add to, delete, alter or vary any of these Terms and Conditions in any manner, or to give any consent, approval or waiver, and HEAL shall not be bound by any such purported addition, deletion, alteration, variation, consent, approval or waiver.

7.2 No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the Customer hereunder shall constitute a waiver of such provision, term or condition on any other occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance. Storage of samples or extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material may be returned at the client's expense. Materials, which are identified as hazardous, will be returned to the client or disposed of as hazardous waste and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

9.1 The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These Terms and Conditions or their interpretations.

10. GOVERNING LAW

10.1 These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.

Envirotech Analytical Laboratory

Printed: 2/5/2025 5:08:02PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Hilcorp Energy Co	Date Received:	02/05/25 16:39	Work Order ID:	E502049
Phone:	-	Date Logged In:	02/05/25 16:51	Logged In By:	Noe Soto
Email:		Due Date:	02/06/25 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Nicole Pottala
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the 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 the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC 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 non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

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

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

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

Date

envirotech Inc.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433207
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2436545148**
Incident Name	**NAPP2436545148 SAN JUAN 29-6 #10 @ 30-039-07703**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-039-07703] SAN JUAN 29 6 UNIT #010**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	San Juan 29-6 #10
Date Release Discovered	12/20/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
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	No
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	Cause: Corrosion | Tank (Any) | Produced Water | Released: 6 BBL | Recovered: 0 BBL | Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion | Tank (Any) | Condensate | Released: 1 BBL | Recovered: 0 BBL | Lost: 1 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.*

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

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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433207
	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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.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 safety 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	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 02/18/2025

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

General Information
Phone: (505) 629-6116

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State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433207
	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 26 and 50 (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 and 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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 100 and 200 (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 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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 associated 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 milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	77.4
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4200
GRO+DRO (EPA SW-846 Method 8015M)	4200
BTEX (EPA SW-846 Method 8021B or 8260B)	394.9
Benzene (EPA SW-846 Method 8021B or 8260B)	5.7
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/08/2025
On what date will (or did) the final sampling or liner inspection occur	02/05/2025
On what date will (or was) the remediation complete(d)	02/05/2025
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	1368
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 time 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.	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

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QUESTIONS

Remediation Plan (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.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH LANDFARM #1 [fEEM0112334691]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In 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 efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 02/18/2025
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.	

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QUESTIONS (continued)

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	Action Number: 433207
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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	No

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QUESTIONS (continued)

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	Action Number: 433207
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**428208**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/10/2025**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**2000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all 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	1368
What was the total volume (cubic yards) remediated	600
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)	Excavation and sampling activities were conducted at the Site to address the release of produced water and condensate discovered on December 20, 2024. Laboratory analysis of confirmation soil samples collected from the final excavation extent confirmed all COC concentrations were below the Site Closure Criteria. As such, no further remediation is required. The excavation of impacted soil has effectively mitigated impacts at the Site, confirming protection of human health, the environment, and groundwater.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 02/18/2025

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QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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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CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 433207
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2436545148 SAN JUAN 29-6 #10, thank you. This Remediation Closure Report is approved.	2/19/2025