



February 20, 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 30-6 Unit 102A  
Rio Arriba County, New Mexico  
Hilcorp Energy Company  
NMOCD Incident No: nAPP2501736771

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Report and Closure Request* for a release at the San Juan 30-6 Unit 102A natural gas production well (Site). The Site is located on private surface in Unit O, Section 22, Township 30 North, Range 6 West, Rio Arriba County, New Mexico (Figure 1). This report describes the excavation and confirmation soil sampling activities performed at the Site to remediate impacted soil originating from a release of condensate and produced water.

## **SITE BACKGROUND**

On January 16, 2025, Hilcorp discovered a release of 27 barrels (bbls) of condensate and 12 bbls of produced water at the Site. Upon inspection, corrosion holes were discovered at the bottom of the condensate aboveground storage tank (AST). The released fluids pooled immediately around the AST and stayed within the secondary containment. No released fluids were recovered. Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) on a *Release Notification Form C-141* on January 16, 2025. The NMOCD subsequently assigned the Site Incident Number nAPP2501736771.

## **SITE CHARACTERIZATION**

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 New Mexico Administrative Code (NMAC). This information is further discussed below.

## **GEOLOGY AND HYDROGEOLOGY**

The Site is located on Tertiary (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 hydrologic 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) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

The nearest significant watercourse and wetland to the Site is a dry wash located approximately 180 feet south of the well pad. The nearest well to the Site is a cathodic protection well located on the San Juan 30-6 Unit #50 and #473 natural gas production well pad. This well has a recorded depth to water of 90 feet below ground surface (bgs) and is located 2,100 feet west of the Site at an elevation of 6,414 feet above mean sea level (AMSL), approximately 60 feet lower in elevation than the Site. As such, groundwater is estimated to be greater than 100 feet bgs at the Site. The nearest constructed fresh water well is NMOSE permitted well SJ-04279 (Appendix A), located approximately 10,085 feet east-northeast of the Site with a recorded depth to water of 38 feet bgs.

The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake (Figure 1). No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site (Figure 1). The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management). 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

## EXCAVATION SOIL SAMPLING ACTIVITIES

Upon discovery of the release, Hilcorp retained Ensolum personnel to conduct excavation oversight and sampling activities on January 22, 2025. Notification to NMOC was provided at least two business days prior to conducting remediation and sampling work, with correspondence attached in Appendix A. To direct excavation activities, Ensolum personnel field screened soil for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). Based on the Site Closure Criteria, a PID measurement of less than 100 parts per million (ppm) was used to indicate when the excavation floors and sidewalls should be sampled.

Once field screening indicated impacted soil had been removed, five-point composite soil samples were collected from the floor (FS01 through FS12) and sidewalls (SW01 through SW12) of the excavation at a frequency not exceeding one sample per 200 square feet. The 5-point composite

samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were placed into laboratory provided containers and transported under proper chain of custody procedures to Envirotech Analytical Laboratory in Farmington, New Mexico for analysis of TPH following Environmental Protection Agency (EPA) Method 8105D, BTEX following EPA Method 8260B, and chloride following EPA Method 300.0.

Analytical results from the excavation indicated concentrations of all COCs were compliant with NMOCD Table I Closure Criteria and the reclamation requirement in all confirmation samples. Impacted soil removed during Site work was transported to the Envirotech, Inc. landfarm located in San Juan County, New Mexico for treatment/disposal. Soil sample results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix B. Photographs taken by Ensolum during the excavation work are included on Appendix C.

## CLOSURE REQUEST

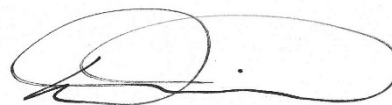
Site excavation and sampling activities were conducted at the Site to address the release of condensate and produced water discovered in January 2025. Laboratory analytical results for the excavation confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and the reclamation requirement and no further remediation is required. Excavation of impacted soil has mitigated impacts at this Site and these remedial actions have been protective of human health, the environment, and groundwater. As such, Hilcorp respectfully requests closure for Incident Number nAPP2501736771.

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**



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



Daniel R. Moir, PG (licensed in WY & TX)  
Senior Managing Geologist  
(303) 887-2946  
dmoir@ensolum.com

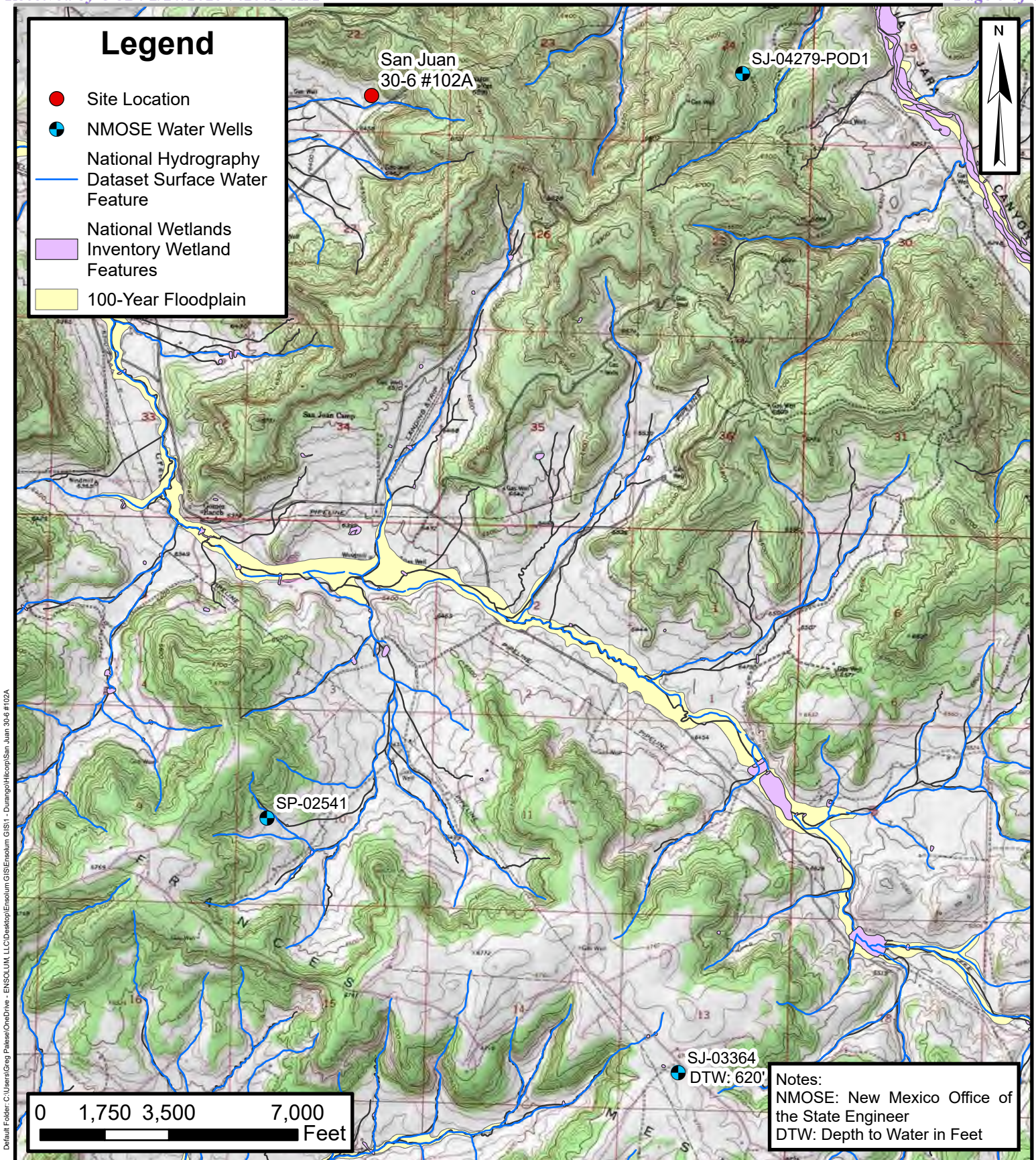
### Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Excavation Soil Sample Locations
  
- Table 1: Soil Sample Analytical Results
  
- Appendix A: NMOCD Correspondence
- Appendix B: Laboratory Analytical Reports
- Appendix C: Photographic Log



FIGURES





## Site Receptor Map

San Juan 30-6 #102A  
Hilcorp Energy Company  
36.79325, -107.44827  
Rio Arriba County, New Mexico

FIGURE

1





## Legend

- Excavation Floor Samples in Compliance with NMOCD Closure Criteria
- ▲ Excavation Sidewall Samples in Compliance with NMOCD Closure Criteria
- Excavation Extent



0 10 20 40  
Feet

Notes:  
NMOCD: New Mexico Oil Conservation Division



### Excavation Soil Sample Locations

San Juan 30-6 #102A  
Hilcorp Energy Company  
36.79325, -107.44827  
Rio Arriba County, New Mexico

FIGURE  
**2**



TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 San Jaun 30-6 #102A  
 Hilcorp Energy Company  
 Rio Arriba County, NM

Sample Identification	Date	Depth (feet bgs)	PID (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)
<b>NMOCDC Closure Criteria for Soils Impacted by a Release</b>			NE	10	NE	NE	NE	50	NE	NE	NE	100	600
<b>Excavation Sidewall Confirmation Samples</b>													
SW01	1/22/2025	0-7	21.4	<0.0250	<0.0250	<0.0250	0.100	0.100	<20.0	36.9	<50.0	36.9	<20.0
SW02	1/22/2025	0-7	6.5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW03	1/22/2025	0-7	4.8	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW04	1/22/2025	0-7	2.00	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW05	1/22/2025	0-7	6.8	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW06	1/22/2025	0-7	3.5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW07	1/22/2025	0-7	7.4	<0.0250	<0.0250	<0.0250	0.113	0.113	<20.0	<25.0	<50.0	<50.0	<20.0
SW08	1/22/2025	0-7	4.4	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW09	1/22/2025	0-7	8.9	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW10	1/22/2025	0-7	3.1	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW11	1/22/2025	0-7	3.7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
SW12	1/22/2025	0-7	3.9	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
<b>Excavation Floor Confirmation Samples</b>													
FS01	1/22/2025	7	21.5	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS02	1/22/2025	7	2.1	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS03	1/22/2025	7	15.9	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS04	1/22/2025	7	1.6	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS05	1/22/2025	7	14.8	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	28.7	<50.0	28.7	<20.0
FS06	1/22/2025	7	38.1	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS07	1/22/2025	7	30.4	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS08	1/22/2025	7	2.7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS09	1/22/2025	7	3.8	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS10	1/22/2025	7	0.9	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS11	1/22/2025	7	34.9	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
FS12	1/22/2025	7	12.7	<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	<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

NMOCDC: 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

&lt;: Indicates result less than the stated laboratory reporting limit (RL)





## APPENDIX A

### NMOCD Correspondence

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**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Stuart Hyde](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 422032  
**Date:** Friday, January 17, 2025 1:08:48 PM

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[ \*\*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#) nAPP2501736771.

The sampling event is expected to take place:

**When:** 01/22/2025 @ 09:30

**Where:** O-22-30N-06W 915 FSL 2205 FEL (36.79325,-107.44827)

**Additional Information:** Ensolum PM: Stuart Hyde, 970-903-1607  
Alt PM: Wes Weichert, 816-266-8732

**Additional Instructions:** 36.793541, -107.448527

This notification is intended to encompass several days of potential sampling from Wednesday January 22 to Friday January 24.

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

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

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

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



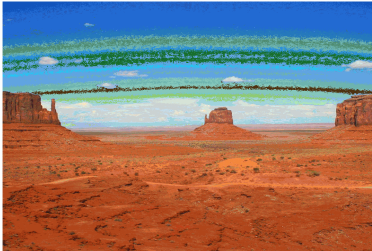
## APPENDIX B

### Laboratory Analytical Reports

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Report to:  
Kate Kaufman



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Hilcorp Energy Co

Project Name: San Juan 30-6 #102A

Work Order: E501166

Job Number: 17051-0002

Received: 1/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/24/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 1/24/25

Kate Kaufman  
PO Box 61529  
Houston, TX 77208



Project Name: San Juan 30-6 #102A  
Workorder: E501166  
Date Received: 1/22/2025 4:46:00PM

Kate Kaufman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/22/2025 4:46:00PM, under the Project Name: San Juan 30-6 #102A.

The analytical test results summarized in this report with the Project Name: San Juan 30-6 #102A 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 regarding 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	01/24/25 15:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01	E501166-01A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW02	E501166-02A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW03	E501166-03A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW04	E501166-04A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW05	E501166-05A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW06	E501166-06A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW07	E501166-07A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW08	E501166-08A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW09	E501166-09A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW10	E501166-10A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW11	E501166-11A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
SW12	E501166-12A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS01	E501166-13A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS02	E501166-14A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS03	E501166-15A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS04	E501166-16A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS05	E501166-17A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS06	E501166-18A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS07	E501166-19A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS08	E501166-20A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS09	E501166-21A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS10	E501166-22A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS11	E501166-23A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.
FS12	E501166-24A	Soil	01/22/25	01/22/25	Glass Jar, 4 oz.



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

### SW01

### E501166-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2504087	
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	<b>0.0270</b>	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	<b>0.0730</b>	0.0500	1	01/23/25	01/23/25	
Total Xylenes	<b>0.100</b>	0.0250	1	01/23/25	01/23/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	01/23/25	01/23/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	70-130	01/23/25	01/23/25	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2504087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	01/23/25	01/23/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	70-130	01/23/25	01/23/25	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2504091	
Diesel Range Organics (C10-C28)	<b>36.9</b>	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
<i>Surrogate: n-Nonane</i>		101 %	50-200	01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2504093	
Chloride	ND	20.0	1	01/23/25	01/23/25	





## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW02

## E501166-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	99.9 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	104 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	99.9 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	104 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	122 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW03

## E501166-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	111 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	111 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	117 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW04

## E501166-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	94.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	104 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	94.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	104 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	112 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW05

## E501166-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene		106 %	70-130	01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	01/23/25	01/23/25	
Surrogate: Toluene-d8		103 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene		106 %	70-130	01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	01/23/25	01/23/25	
Surrogate: Toluene-d8		103 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane		114 %	50-200	01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
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Project Name: San Juan 30-6 #102A  
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Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW06

## E501166-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	98.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	103 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	98.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	103 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	115 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	





## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW07

## E501166-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	<b>0.0275</b>	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	<b>0.0855</b>	0.0500	1	01/23/25	01/23/25	
Total Xylenes	<b>0.113</b>	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene		103 %	70-130	01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	01/23/25	01/23/25	
Surrogate: Toluene-d8		104 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene		103 %	70-130	01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	01/23/25	01/23/25	
Surrogate: Toluene-d8		104 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane		108 %	50-200	01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW08

## E501166-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	99.5 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	102 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	99.5 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	102 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	117 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW09

## E501166-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene		101 %	70-130	01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	01/23/25	01/23/25	
Surrogate: Toluene-d8		104 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene		101 %	70-130	01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	01/23/25	01/23/25	
Surrogate: Toluene-d8		104 %	70-130	01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane		116 %	50-200	01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



Sample Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	<b>Reported:</b> 1/24/2025 3:54:33PM
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	

SW10

E501166-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.1 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	105 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.1 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	105 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	129 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW11

## E501166-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	97.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	96.9 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	97.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	96.9 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	125 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	





## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## SW12

## E501166-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	94.5 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	94.5 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	118 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS01

## E501166-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	97.7 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	97.8 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	97.7 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	97.8 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	113 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS02

## E501166-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	97.7 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.8 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	97.7 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	119 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS03

## E501166-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	98.9 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	98.6 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	98.9 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	98.6 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	113 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS04

## E501166-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	96.4 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	96.4 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	124 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	





## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS05

## E501166-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	98.9 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	95.5 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	98.9 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	95.5 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	28.7	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	130 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS06

## E501166-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	97.3 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	98.1 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	97.3 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	98.1 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	131 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS07

## E501166-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	99.0 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	97.9 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	99.0 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	97.9 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	134 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS08

## E501166-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	95.3 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	94.5 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2504087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
Surrogate: Bromofluorobenzene	95.3 %	70-130		01/23/25	01/23/25	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		01/23/25	01/23/25	
Surrogate: Toluene-d8	94.5 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2504091
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
Surrogate: n-Nonane	123 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2504093
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS09

## E501166-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2504092	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: AK		Batch: 2504090	
Chloride	ND	20.0	1	01/23/25	01/23/25	





## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS10

## E501166-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2504092	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
<i>Surrogate: n-Nonane</i>						
	121 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: AK		Batch: 2504090	
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS11

## E501166-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2504092	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: AK		Batch: 2504090	
Chloride	ND	20.0	1	01/23/25	01/23/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: San Juan 30-6 #102A  
Project Number: 17051-0002  
Project Manager: Kate Kaufman

**Reported:**  
1/24/2025 3:54:33PM

## FS12

## E501166-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Benzene	ND	0.0250	1	01/23/25	01/23/25	
Ethylbenzene	ND	0.0250	1	01/23/25	01/23/25	
Toluene	ND	0.0250	1	01/23/25	01/23/25	
o-Xylene	ND	0.0250	1	01/23/25	01/23/25	
p,m-Xylene	ND	0.0500	1	01/23/25	01/23/25	
Total Xylenes	ND	0.0250	1	01/23/25	01/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2504088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/25	01/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		01/23/25	01/23/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2504092	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/25	01/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/25	01/23/25	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		01/23/25	01/23/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: AK		Batch: 2504090	
Chloride	ND	20.0	1	01/23/25	01/23/25	



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:  1/24/2025 3:54:33PM
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2504087-BLK1)

Prepared: 01/23/25 Analyzed: 01/24/25

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: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2504087-BS1)

Prepared: 01/23/25 Analyzed: 01/24/25

Benzene	2.24	0.0250	2.50		89.6	70-130			
Ethylbenzene	2.36	0.0250	2.50		94.6	70-130			
Toluene	2.29	0.0250	2.50		91.7	70-130			
o-Xylene	2.55	0.0250	2.50		102	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.60	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.554		0.500		111	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS Dup (2504087-BSD1)

Prepared: 01/23/25 Analyzed: 01/24/25

Benzene	2.25	0.0250	2.50		90.0	70-130	0.446	23	
Ethylbenzene	2.35	0.0250	2.50		93.8	70-130	0.828	27	
Toluene	2.28	0.0250	2.50		91.3	70-130	0.525	24	
o-Xylene	2.62	0.0250	2.50		105	70-130	2.83	27	
p,m-Xylene	5.22	0.0500	5.00		104	70-130	3.18	27	
Total Xylenes	7.84	0.0250	7.50		104	70-130	3.06	27	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	1/24/2025 3:54:33PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2504088-BLK1)

Prepared: 01/23/25 Analyzed: 01/23/25

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	7.40		8.00		92.5	70-130			

LCS (2504088-BS1)

Prepared: 01/23/25 Analyzed: 01/24/25

Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.8	70-130			
Toluene	4.95	0.0250	5.00		99.0	70-130			
o-Xylene	4.78	0.0250	5.00		95.5	70-130			
p,m-Xylene	9.84	0.0500	10.0		98.4	70-130			
Total Xylenes	14.6	0.0250	15.0		97.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.60		8.00		82.5	70-130			

LCS Dup (2504088-BSD1)

Prepared: 01/23/25 Analyzed: 01/23/25

Benzene	5.45	0.0250	5.00		109	70-130	8.11	20	
Ethylbenzene	5.22	0.0250	5.00		104	70-130	7.60	20	
Toluene	5.36	0.0250	5.00		107	70-130	7.81	20	
o-Xylene	5.20	0.0250	5.00		104	70-130	8.45	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	7.66	20	
Total Xylenes	15.8	0.0250	15.0		105	70-130	7.92	20	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	1/24/2025 3:54:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2504087-BLK1) Prepared: 01/23/25 Analyzed: 01/24/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2504087-BS2) Prepared: 01/23/25 Analyzed: 01/24/25

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

LCS Dup (2504087-BSD2) Prepared: 01/23/25 Analyzed: 01/24/25

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0		114	70-130	0.0114	20	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	1/24/2025 3:54:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2504088-BLK1) Prepared: 01/23/25 Analyzed: 01/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			

LCS (2504088-BS2) Prepared: 01/23/25 Analyzed: 01/24/25

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

LCS Dup (2504088-BSD2) Prepared: 01/23/25 Analyzed: 01/23/25

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130	10.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			





QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	1/24/2025 3:54:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2504091-BLK1) Prepared: 01/23/25 Analyzed: 01/23/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.0		50.0		118	50-200			

LCS (2504091-BS1) Prepared: 01/23/25 Analyzed: 01/23/25

Diesel Range Organics (C10-C28)	247	25.0	250		98.7	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike (2504091-MS1) Source: E501166-09 Prepared: 01/23/25 Analyzed: 01/23/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	58.1		50.0		116	50-200			

Matrix Spike Dup (2504091-MSD1) Source: E501166-09 Prepared: 01/23/25 Analyzed: 01/23/25

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	2.09	20	
Surrogate: n-Nonane	55.8		50.0		112	50-200			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	1/24/2025 3:54:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2504092-BLK1)					Prepared: 01/23/25 Analyzed: 01/23/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.9		50.0		120	50-200			

LCS (2504092-BS1)					Prepared: 01/23/25 Analyzed: 01/23/25				
Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	60.0		50.0		120	50-200			

Matrix Spike (2504092-MS1)				Source: E501155-02		Prepared: 01/23/25 Analyzed: 01/23/25			
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	61.8		50.0		124	50-200			

Matrix Spike Dup (2504092-MSD1)				Source: E501155-02		Prepared: 01/23/25 Analyzed: 01/23/25			
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	0.674	20	
Surrogate: n-Nonane	57.9		50.0		116	50-200			



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	1/24/2025 3:54:33PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2504090-BLK1)					Prepared: 01/23/25 Analyzed: 01/23/25				
Chloride	ND	20.0							
LCS (2504090-BS1)					Prepared: 01/23/25 Analyzed: 01/23/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2504090-MS1)					Source: E501155-02		Prepared: 01/23/25 Analyzed: 01/23/25		
Chloride	251	20.0	250	ND	101	80-120			
Matrix Spike Dup (2504090-MSD1)					Source: E501155-02		Prepared: 01/23/25 Analyzed: 01/23/25		
Chloride	251	20.0	250	ND	101	80-120	0.0541	20	



QC Summary Data

Hilcorp Energy Co	Project Name:	San Juan 30-6 #102A	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Kate Kaufman	1/24/2025 3:54:33PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2504093-BLK1)					Prepared: 01/23/25 Analyzed: 01/23/25				
Chloride	ND	20.0							
LCS (2504093-BS1)					Prepared: 01/23/25 Analyzed: 01/23/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2504093-MS1)					Source: E501166-06		Prepared: 01/23/25 Analyzed: 01/23/25		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2504093-MSD1)					Source: E501166-06		Prepared: 01/23/25 Analyzed: 01/23/25		
Chloride	254	20.0	250	ND	101	80-120	0.416	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 30-6 #102A	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Kate Kaufman	01/24/25 15:54

- 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

Page 1 of 3

Client Information					Invoice Information			Lab Use Only		TAT		State					
Client: <u>Hilcorp Energy Company</u>					Company: <u>Hilcorp</u>			Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project Name: <u>San Juan 30-16 #102A</u>					Address:			<u>E501166</u>	<u>17051-0002</u>	<input checked="" type="checkbox"/>							
Project Manager: <u>Wes Weichent</u>					City, State, Zip:												
Address: <u>Kate Kaufman</u>					Phone:												
City, State, Zip:					Email: <u>kkaufman@hilcorp.com</u>												
Phone:					Miscellaneous:												
Email: <u>kkaufman@hilcorp.com</u>																	

Sample Information							Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
1330	1-22-25	soil	1	SW01		1	X	X	X	X									
1332				SW02		2													
1334				SW03		3													
1335				SW04		4													
1337				SW05		5													
1338				SW06		6													
1339				SW07		7													
1340				SW08		8													
1341				SW09		9													
1410				SW10		10													

Additional Instructions: cc: wweichent@ensolum.com zmyers@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: [Signature]

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	1-22-25	14:46	<u>NOC Soto</u>	1-22-25	1646
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



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## Chain of Custody

Page 2 of 3

Client Information					Invoice Information			Lab Use Only										State					
Client: <u>Hilcorp George Company</u>					Company: <u>Hilcorp</u>			Lab WO# <u>E501166</u>		Job Number <u>13051-0002</u>		1D <input checked="" type="checkbox"/>		2D <input type="checkbox"/>		3D <input type="checkbox"/>		Std <input type="checkbox"/>		<div style="display: flex; justify-content: space-between;"> <div>NM</div> <div>CO</div> <div>UT</div> <div>TX</div> </div>			
Project Name: <u>San Juan 30-6 #102A</u>					Address:																		
Project Manager: <u>Kate Kaufman</u>					City, State, Zip:																		
Address:					Phone:																		
City, State, Zip:					Email:																		
Phone:					Miscellaneous:																		
Email: <u>kkaufman@hilcorp.com</u>																							
Sample Information							Analysis and Method										EPA Program						
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
1412	1-22-25	soil	1	SW11		11	X	X	X		X												
1414				SW12		12																	
1343				FS01		13																	
1345				FS02		14																	
1346				FS03		15																	
1348				FS04		16																	
1349				FS05		17																	
1351				FS06		18																	
1353				FS07		19																	
1354				FS08		20																	
Additional Instructions: <u>cc: wweichert@onsolun.com      Zanyers@onsolun.com</u>																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: <u>[Signature]</u>																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<div style="border: 1px solid black; padding: 5px;"> <p>Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.</p> <p style="text-align: center;">Lab Use Only</p> <p>Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>T1 _____ T2 _____ T3 _____</p> <p>AVG Temp °C <u>4</u></p> </div>															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							


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## Chain of Custody

Client Information				Invoice Information				Lab Use Only				State										
Client: Hilcorp Energy Company				Company:				Lab WO#		Job Number		RSTAT		NM CO UT TX								
Project Name: 30-6#102A				Address:				E501166		17051-0002		1D 2D 3D Std										
Project Manager: Kate Kaufman				City, State, Zip:																		
Address:				Phone:																		
City, State, Zip:				Email:																		
Phone:				Miscellaneous:																		
Email: kkaufman@hilcorp.com																						
Sample Information										Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA					
1356	1-22-25	Soil	1	FS09		21	X	X	X		X											
1357				FS10		22																
1420				FS11		23																
1422				FS12		24																
Additional Instructions: cc: wweichert@anslum.com zmyers@anslum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																						
Sampled by: [Signature]																						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: (Y) / N  T1 T2 T3  AVG Temp °C 4										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																						
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																						
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## Envirotech Analytical Laboratory

Printed: 1/22/2025 4:56:50PM

## 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:	01/22/25 16:46	Work Order ID:	E501166
Phone:	-	Date Logged In:	01/22/25 16:52	Logged In By:	Noe Soto
Email:		Due Date:	01/23/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Zach MyersComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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? No  
Collectors name? No

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 filtration 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.



## APPENDIX C

### Photographic Log

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### Photographic Log

Hilcorp Energy Company

San Juan 30-6 #102A

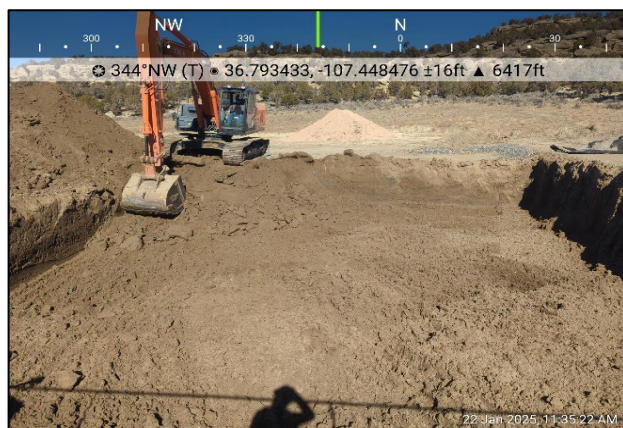
Rio Arriba County, New Mexico



Photograph: 1 Date: 1/16/2025  
Description: Soil staining upon discovery of release  
View: North



Photograph: 2 Date: 1/22/2025  
Description: Beginning to excavate impacted soil  
View: Northeast



Photograph: 3 Date: 1/22/2025  
Description: Excavation progress  
View: Northeast



Photograph: 4 Date: 1/22/2025  
Description: Final excavation extent  
View: Northwest

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

QUESTIONS

Action 433673

**QUESTIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433673
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501736771
Incident Name	NAPP2501736771 SAN JUAN 30-6 #102A @ 30-039-25804
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-039-25804] SAN JUAN 30 6 UNIT #102A

**Location of Release Source***Please answer all the questions in this group.*

Site Name	San Juan 30-6 #102A
Date Release Discovered	01/16/2025
Surface Owner	Federal

**Incident Details***Please answer all the questions in this group.*

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	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: 12 BBL   Recovered: 0 BBL   Lost: 12 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: 27 BBL   Recovered: 0 BBL   Lost: 27 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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QUESTIONS, Page 2

Action 433673

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433673
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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: 02/20/2025
--	--

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QUESTIONS, Page 3

Action 433673

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433673
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 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 1 and 5 (mi.)
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
<i>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.</i>	
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)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	36.9
GRO+DRO (EPA SW-846 Method 8015M)	36.9
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	01/22/2025
On what date will (or did) the final sampling or liner inspection occur	01/22/2025
On what date will (or was) the remediation complete(d)	01/22/2025
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	2150
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.



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QUESTIONS, Page 4

Action 433673

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433673
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	ENVIROTECH LANDFARM #2 [FEEM0112336756]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: 02/20/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 433673

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433673
	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, Page 6

Action 433673

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433673
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	422032
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/22/2025
What was the (estimated) number of samples that were to be gathered	14
What was the sampling surface area in square feet	825

**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	2150
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)	Not applicable

*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: 02/20/2025
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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, Page 7

Action 433673

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 433673
	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

Action 433673

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvez	None	6/4/2025