ENSOLUM

October 9, 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: Site Investigation Report and Closure Request
San Juan 27-4 Unit 37M
Rio Arriba, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2522527512

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Investigation Report and Closure Request* for a produced water release at the San Juan 27-4 Unit 37M natural gas production well (Site). The Site is located on United States Forest Service (USFS) land in Unit J, Section 33, Township 27 North, Range 4 West, Rio Arriba, New Mexico (Figure 1).

SITE BACKGROUND

On August 12, 2025, Hilcorp operations identified a release of 78 barrels (bbls) of produced water at the Site. The Hilcorp field operator was notified of a potential leak by a third-party water hauler and discovered a small corrosion hole near the base of the pit tank. Upon discovery, the operator drained the remaining fluid into a water hauler and removed it from the Site. The release was attributed to tank corrosion. All fluids remained within the secondary containment berm, with an estimated release extent of approximately 500 square feet. No released fluid was recovered from within the secondary containment berm.

Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) on August 13, 2025, and the Site was assigned release Incident Number nAPP2522527512.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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).

The Site is located in the Tertiary (Eocene) age San Jose Formation. In the report "*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 approximately 2,700 feet. The hydrogeologic properties of the San Jose Formation are largely uncharacterized. Where yields are sufficient, 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.

To assess Site-specific depth-to-groundwater, borehole BH01 was advanced on September 16, 2025, to a depth of 55 feet below ground surface (bgs). Soil logging indicated the borehole was dry to the terminal depth during drilling. Upon completion, the open borehole was allowed to equilibrate for 72 hours. A water-level indicator was used to assess for the presence or absence of groundwater on September 19, 2025. Groundwater was not encountered in the borehole at a depth of approximately 54 feet bgs (sluff had filled the boring from 55 to 54 feet bgs), indicating the depth to groundwater beneath the Site is greater than 50 feet bgs. Information regarding the depth to water determination is provided in Appendix A, including the drilling log and photograph of the water-level indicator confirming no water encountered.

The closest significant watercourse is an intermittent stream located 1,431 feet east of the Site and is identified as a dashed blue line on a USGS 7.5-minute quadrangle map. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland (Figure 1). No wellhead protection areas, springs, or domestic/stock wells are located within a 500-foot radius from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management, or BLM). No schools, hospitals, institutions, churches, and/or other occupied permanent residences or structures are located within 300 feet of the Site.

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): 2,500 mg/kg
- GRO+DRO: 1,000 mg/kg
- Chloride: 10,000 mg/kg

2025 SITE ASSESSMENT ACTIVITIES

To assess potential soil impacts resulting from the release, Ensolum advanced six hand auger boreholes (HA01 through HA06) on August 21, 2025. The NMOCD was notified prior to commencing on-Site activities, with sampling notifications provided in Appendix B. Borehole HA01 was advanced within the release footprint inside of the secondary containment berm to assess the soil within the release source. Boreholes HA02 through HA06 were advanced outside the release footprint to laterally delineate potential impacts resulting from the release (Figure 2). HA01 was advanced to a depth of 7 feet bgs and encountered refusal. The remaining hand auger boreholes encountered refusal shallower than 7 feet bgs, with depths ranging from 2 feet to 6 feet bgs. Soil samples were field screened at 1-foot intervals for the presence of organic vapors using a calibrated photoionization detector (PID), with screening results presented in Table 1.

Three soil samples were collected from auger boreholes HA01 through HA05: one from the top 6-inches bgs, one from the depth interval exhibiting the greatest observable contamination based on field screening observations, and one from the terminus of each borehole. HA06 encountered shallow refusal at 2-feet bgs and as such, only two samples were collected. Soil samples were collected directly into laboratory-provided jars, immediately placed on ice, and submitted to Eurofins Environment Testing for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and chloride following EPA Method 300.0.

All concentrations of total BTEX, TPH, and chloride in the soil samples collected during the August 2025 assessment were below the applicable NMOCD Table I Closure Criteria. Sample locations are shown on Figure 2. Soil sample analytical results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix C. Photographs taken during field activities are included in Appendix D.

CONCLUSIONS AND CLOSURE REQUEST

Based on the delineation activities and soil analytical results described above, petroleum hydrocarbon and/or chloride contaminants were not detected in any of the samples collected at the Site above the NMOCD Table I Closure Criteria. As such, Site conditions appear to be protective of human health, the environment, and groundwater and Hilcorp respectfully requests closure for Incident Number nAPP2522527512.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

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

Sincerely,
Ensolum, LLC

Zach Myers
Staff Geologist
(614)323-4728
zmyers@ensolum.com

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

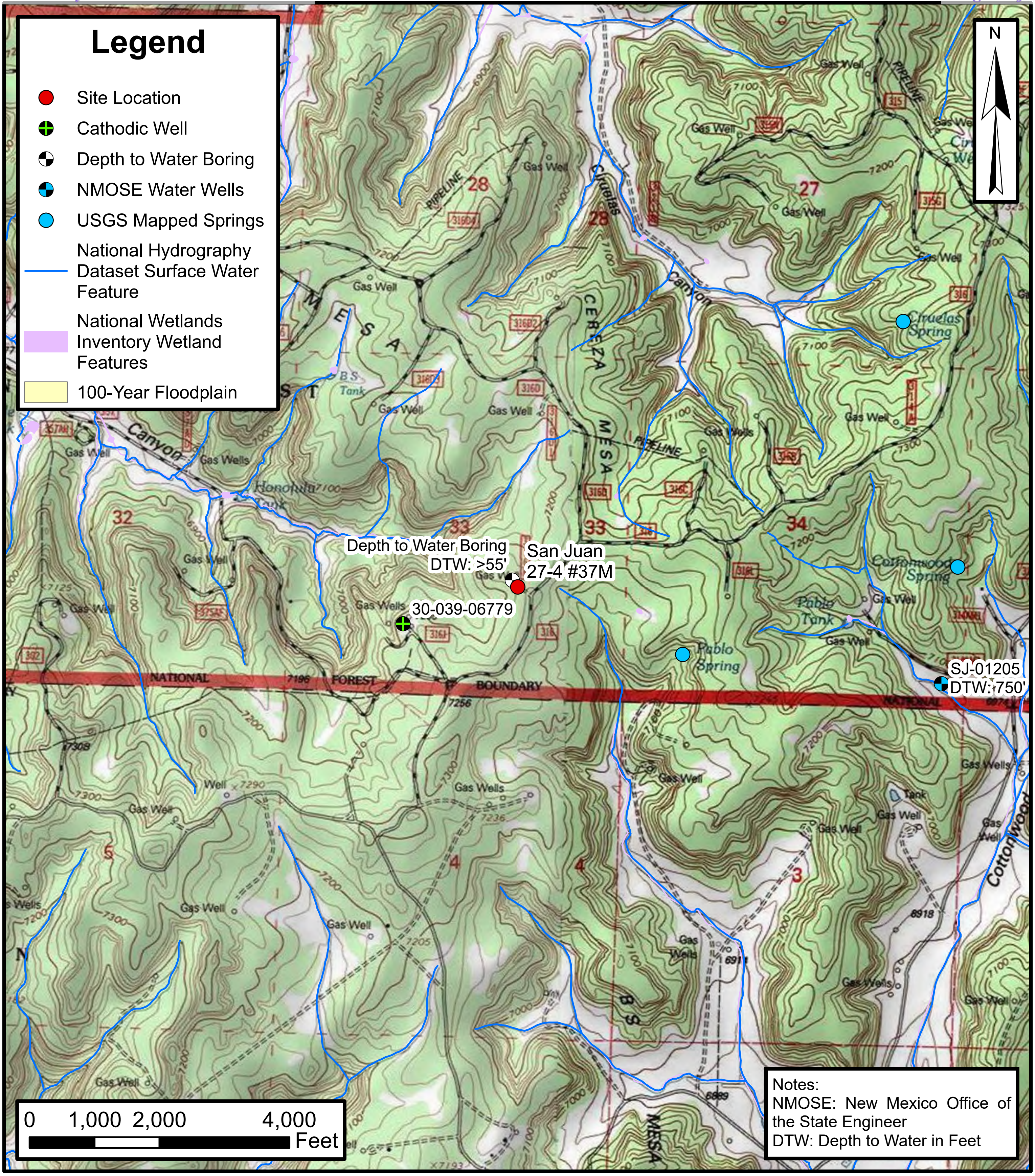
Cc: National Forest Service
BLM
Hilcorp

Attachments:

Figure 1: Site Location Map
Figure 2: Delineation Soil Sample Locations

ENSOLUM

FIGURES



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Environmental, Engineering and Hydrogeologic Consultants

Site Location Map

San Juan 27-4 #37M
Hilcorp Energy Company

36.5269318,-107.2532654
Rio Arriba County, New Mexico

FIGURE
1

Sources: Environmental Systems Research Institute (ESRI), United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS), National Geographic Society, i-cubed

Default Folder: C:\Users\Greg Pates\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Hilcorp\San Juan 27-4 #37M

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Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

San Juan 27-4 #37M
Hilcorp Energy Company

36.5269318,-107.2532654
Rio Arriba County, New Mexico

FIGURE
2

Sources: Google Earth (2016)

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
San Juan 27-4 #37M
Hilcorp Energy Company
Rio Arriba County, New Mexico

Sample Identification	Date	Depth (feet bgs)	Chloride Field Test (ppm)	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)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	NE	**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
HA01@0-0.5'	8/21/2025	0-0.5	868	21.2	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	77	160	77	237	740
HA01@2'	8/21/2025	2	<157	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@3'	8/21/2025	3	<157	9.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@4'	8/21/2025	4	<157	134.5	<0.024	<0.049	0.54	3.2	3.74	160	330	170	490	660	<50
HA01@6'	8/21/2025	6	<157	121.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01@7'	8/21/2025	7	<157	13.2	<0.024	<0.049	<0.049	0.26	0.26	<4.9	32	<48	32	32	<50
HA02@0-0.5'	8/21/2025	0-0.5	<157	2.8	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.9	<50	<9.9	<50	<50
HA02@2'	8/21/2025	2	<157	12.4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<9.8	<49	<50
HA02@4'	8/21/2025	4	<157	7.4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10.0	<50	<10.0	<50	<50
HA03@0-0.5'	8/21/2025	0-0.5	<157	4.4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<48	<9.7	<48	<50
HA03@2'	8/21/2025	2	-	3.3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<9.9	<50	110
HA03@4'	8/21/2025	4	-	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA03@6'	6/25/2025	6	<157	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<9.4	<47	<50
HA04@0-0.5'	8/21/2025	0-0.5	<157	2.4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<47	<9.5	<47	<49
HA04@2'	8/21/2025	2	-	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA04@4'	8/21/2025	4	-	1.5	<0.024	<0.049	<0.049	<0.098	<0.024	<4.9	<10	<50	<10	<50	<50
HA04@5'	8/21/2025	5	<157	1.3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<9.8	<49	<49
HA05@0-0.5'	8/21/2025	0-0.5	<157	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<48	<9.5	<48	<50
HA05@2'	8/21/2025	2	-	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA05@3'	8/21/2025	3	<157	4.7	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	11	76	11	87	<51
HA03@0-0.5'	8/21/2025	0-0.5	<157	1.7	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.1	<46	<9.1	<46	<50
HA03@2'	8/21/2025	2	<157	1.2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<48	<9.5	<48	<50

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
DRO: Diesel Range Organics
GRO: Gasoline Range Organics
mg/kg: Milligrams per kilogram
MRO: Motor Oil/Lube Oil Range Organics
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
PID: Photoionization detector
ppm: Parts per million
TPH: Total Petroleum Hydrocarbon
': Feet
< : Indicates result less than the stated laboratory reporting limit (RL)

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APPENDIX A

Depth to Water Determination

DAILY DRILLING REPORT

JOB COMPLETED ☐ YES ☐ NO

NO. JOBS THIS DAY 1

Client Ensolum Date 9-16-25 Start: 7:00 End: 2:00

Project San Juan 27-4 #37M Job No. 25 517

Location 36.52688 - 107.25253 City

Project Type: ☐ Contract ☐ WT ☐ Enviro ☐ Geotech ☐ Labor Only ☐ Other

DRILLING

CLIENT HOLE NO.	DRILL DEPTH FROM –	DRILL DEPTH TO –	PERCOLATION	BIT SIZE	BIT TYPE	NO. OF SAMPLES RING	SPLIT	CA	BN
1	0	55'	Sat well						

FORMATION DRILLED AND DEPTH

- ☑ SAND
- ☑ SILT
- ☑ CLAY
- ☐ CALICHE
- ☐ GRAVEL
- ☐ COBBLES
- ☑ MEDIUM SOFT
- ☑ MEDIUM HARD
- ☐ EXTREMELY HARD
- ☐ REFUSAL

GROUNDWATER TABLE ENCOUNTERED ☐ YES ☑ NO

GROUNDWATER DEPTH

FOOTAGE DRILLED | DRILL RATE PER HOUR | TOTAL SAMPLES

FUNCTION	SERVICE PERFORMED	QTY.	RATE	CHARGE
262	MAKE READY / DECONTAMINATION – BEFORE / AFTER JOB			
212	MOBILIZE / DEMOBILIZE EQUIPMENT	1.0		
212	DRILLING INCLUDES: SAFETY MEETING			
	DRILL OPERATIONS	3.0		
	REAMING HOLE(S)			
	MOVING BETWEEN SITE(S)			
	GROUTING, HOURS ____ FEET ____			
	SITE CLEANUP			
212	MISCELLANEOUS LABOR INCLUDES: DECONTAMINATION SERVICES			
	MOVING DRUMS			
	CREW TRAVEL WITHOUT RIG	1.5		
212	LABORER			
212	WELL INSTALLATION			
212	WELL DEVELOPMENT			
212	WELL ABANDONMENT			
250	STANDBY & DELAYS (EXPLAIN)	1.5		
212	CREW OVERTIME			
–	PER DIEM			
212	MEAL / MISC. BREAKS (DOT REQUIRED)			
278	CREW BREAK			
276	PERMITS / REPORTS			
277	SUPERVISORY TIME			

REMARKS: Waiting on Client

MAN-HOUR ALLOCATION		HOURS
OPERATOR	Rod D	7.0
ASSISTANT	Johnny	7.0
LABORER		

— SIGNATURE APPROVING WORK CONTENT —

CLIENT SIGNATURE:

P.O./W.O./ JOB NO.:

RENTALS / SUPPLIES		QTY.	RATE	CHARGE
SUPPORT VEHICLE / TRAILER				
GENERATOR				
TRAILER(S)				
CORING MACHINE / SAW CUT				
BULLET TEETH				
PORTLAND CEMENT				
PRE-MIX				
ASPHALT				
VISQUEEN				
DRUMS				
BRASS SLEEVES, SIZE:				
PVC CASING	IN. X 5 FT.			
PVC CASING	IN. X 10 FT.	4		
SCREEN .0 ___ 0 SLOT	IN. X 5 FT.	1		
SCREEN .0 ___ 0 SLOT	IN. X 10 FT.			
TOP LOCKING CAP		1		
BOTTOM CAP		1		
SAND-SACKS, GRADE NO.:				
WELL VAULT, SIZE:	IN.			
BENTONITE PELLETS, PAILS:				
BENTONITE POWDER, SACKS:				
JACK HAMMER				
AIR COMPRESSOR, SIZE:				
Hoteplug		24		

EQUIPMENT	UNIT NO.	STARTING MILEAGE	ENDING MILEAGE	TOTAL MILES	RATE	CHARGE
RIG	1112					
SUPPORT VEHICLE	1131					

RIG / TRUCK DOWN TIME, HOURS (EXPLAIN BELOW)

DAMAGED OR LOST EQUIPMENT:

White – Invoicing; Yellow – Client

Enviro-Drill, Inc.

ENSOLUM

Client: Hilcorp Energy Company
Project Name: San Juan 27-4 #37M
Project Location:
Project Manager: Stuart Hyde

BORING LOG NUMBER: DTW
Project No.:

Date Sampled: 9/16/2025
Drilled By: Enviro-Drill
Driller: Rodney Begay
Logged By: Osgood Froelich

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:

Borehole Diameter: 8"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion:
Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0–4							
4–6	1121	8-11-26	90%		SM	Silty sand - Dry, tan + brown/green, no o/s, well graded v.f.-med sand w/ many silts	PVC
6–9							
9–11	1128	50-5"	20%		SM	Silty sand SANDSTONE -SAA	
11–14							
14–16	1137	50-5"	40%		SM	Silty Sand Sandstone -SAA, slightly darker, more brown	
16–19							
19–21	1145	10-21-30	70%		CL	Clay - Dry, red/brown/grey, no o/s, med coh + plst	
21–24							
24–25	1155	21, 50-6"	100%		CL	Clay -SAA	

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Client: Hilcorp
Project Name: SJ 27-4 #37M
Project Location:
Project Manager: S. Hyde

BORING LOG NUMBER: DTW
Project No.:

Date Sampled: 09/16/25
Drilled By: Enviro-Drill
Driller: Rodney B.
Logged By: Osgood F.

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:

Borehole Diameter: 8"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion:
Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25						Previous Page	
26							
27							
28							
29	1208						2" PVC
30		17, 50-5"	45%		CL	Clay -Dry, brownish red, no o/s, med-high coh, med-low plst	
31							
32							
33							
34	1220						
35		24, 50-4"	75%		CL	Clay -SAA, w/ some/few greys + tans	
36							
37							
38							
39	1228						
40		~~50-5"~~ OF 50-5"	15%		CL	Clay, -SAA	
41							
42							
43							
44	1241						
45		50-6"	10%		CL	Clay, -SAA	
46							
47							
48							
49	1252						
50		50-5"	40%		CL	Clay, -SAA	Screen 50'-55'

ENSOLUM

Client: HEC
Project Name: SJ 27-4 #37M
Project Location:
Project Manager: Stu

BORING LOG NUMBER: DTW
Project No.:

Date Sampled: 09/16/25
Drilled By: Enviro-Drill
Driller: Rodney
Logged By: Osgood

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:

Borehole Diameter: 8"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion:
Boring Method: HSA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
50						Previous page.	Screen 50'-55'
51							
52							
53							
54	1304						
55		50-5"	20%		CL	Clay -SAA: dry, red/brown some tans/greys, no o/s, high-med coh, med-low plst.	
56							
57							
58						Temporary well set: TD: 55' screen: 55'-50'	
59							
60							

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APPENDIX B

Agency Correspondence

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 496624
Date: Monday, August 18, 2025 8:52:28 AM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2522527512.

The sampling event is expected to take place:

When: 08/21/2025 @ 10:00
Where: J-33-27N-04W 1560 FSL 1680 FEL (36.52688,-107.25253)

Additional Information: Contact PM Stuart Hyde 970-903-1607 or Wes Weichert 816-266-8732

Additional Instructions: San Juan 27-4 Unit #37M (30-039-25933) GPS: 36.52688, -107.25253. Delineation sampling only, number of samples is estimated.

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 confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

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APPENDIX C

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/4/2025 12:58:06 PM

JOB DESCRIPTION

San Juan 27-4 #37M

JOB NUMBER

885-31729-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
9/4/2025 12:58:06 PM

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

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Laboratory Job ID: 885-31729-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-31729-1
Project/Site: San Juan 27-4 #37M

Qualifiers

GC VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: San Juan 27-4 #37M

Job ID: 885-31729-1

Job ID: 885-31729-1 Eurofins Albuquerque

Job Narrative
885-31729-1

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

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

Receipt
The samples were received on 8/23/2025 6:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

Gasoline Range Organics
Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: HA01@4' (885-31729-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Diesel Range Organics
Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: HA03@6' (885-31729-9). Elevated reporting limits (RLs) are provided.

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

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA01@0-0.5'
Date Collected: 08/21/25 10:51
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		08/25/25 09:48	08/28/25 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 150*	*08/25/25 09:48*	*08/28/25 23:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/25/25 09:48	08/28/25 23:17	1
Ethylbenzene	ND		0.047		mg/Kg		08/25/25 09:48	08/28/25 23:17	1
Toluene	ND		0.047		mg/Kg		08/25/25 09:48	08/28/25 23:17	1
Xylenes, Total	ND		0.094		mg/Kg		08/25/25 09:48	08/28/25 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*15 - 150*	*08/25/25 09:48*	*08/28/25 23:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**77**		9.9		mg/Kg		08/28/25 13:19	09/02/25 12:44	1
Motor Oil Range Organics [C28-C40]	**160**		49		mg/Kg		08/28/25 13:19	09/02/25 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*125*		*62 - 134*	*08/28/25 13:19*	*09/02/25 12:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**740**		50		mg/Kg		08/26/25 07:45	08/27/25 16:10	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA01@4'

Date Collected: 08/21/25 11:13
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**160**		4.9		mg/Kg		08/25/25 09:48	08/28/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*289*	*S1+*	*15 - 150*	*08/25/25 09:48*	*08/28/25 23:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 09:48	08/28/25 23:41	1
Ethylbenzene	**0.54**		0.049		mg/Kg		08/25/25 09:48	08/28/25 23:41	1
Toluene	ND		0.049		mg/Kg		08/25/25 09:48	08/28/25 23:41	1
Xylenes, Total	**3.2**		0.098		mg/Kg		08/25/25 09:48	08/28/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*15 - 150*	*08/25/25 09:48*	*08/28/25 23:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**330**		9.6		mg/Kg		08/28/25 13:19	08/29/25 16:56	1
Motor Oil Range Organics [C28-C40]	**170**		48		mg/Kg		08/28/25 13:19	08/29/25 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/28/25 13:19*	*08/29/25 16:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 13:12	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA01@7'

Date Collected: 08/21/25 13:21
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 09:48	08/29/25 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*15 - 150*	*08/25/25 09:48*	*08/29/25 12:42*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 09:48	08/29/25 12:42	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 09:48	08/29/25 12:42	1
Toluene	ND		0.049		mg/Kg		08/25/25 09:48	08/29/25 12:42	1
Xylenes, Total	**0.26**		0.097		mg/Kg		08/25/25 09:48	08/29/25 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*15 - 150*	*08/25/25 09:48*	*08/29/25 12:42*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**32**		9.7		mg/Kg		08/28/25 13:19	09/02/25 13:20	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/28/25 13:19	09/02/25 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*118*		*62 - 134*	*08/28/25 13:19*	*09/02/25 13:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 14:01	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA02@0-0.5'
Date Collected: 08/21/25 11:31
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		08/25/25 09:48	08/29/25 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*15 - 150*	*08/25/25 09:48*	*08/29/25 00:28*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 09:48	08/29/25 00:28	1
Ethylbenzene	ND		0.048		mg/Kg		08/25/25 09:48	08/29/25 00:28	1
Toluene	ND		0.048		mg/Kg		08/25/25 09:48	08/29/25 00:28	1
Xylenes, Total	ND		0.095		mg/Kg		08/25/25 09:48	08/29/25 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 150*	*08/25/25 09:48*	*08/29/25 00:28*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/28/25 13:19	08/29/25 17:19	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/28/25 13:19	08/29/25 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/28/25 13:19*	*08/29/25 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 14:11	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA02@2'

Date Collected: 08/21/25 11:36
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		08/25/25 09:48	08/29/25 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*15 - 150*	*08/25/25 09:48*	*08/29/25 00:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 09:48	08/29/25 00:52	1
Ethylbenzene	ND		0.048		mg/Kg		08/25/25 09:48	08/29/25 00:52	1
Toluene	ND		0.048		mg/Kg		08/25/25 09:48	08/29/25 00:52	1
Xylenes, Total	ND		0.097		mg/Kg		08/25/25 09:48	08/29/25 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*15 - 150*	*08/25/25 09:48*	*08/29/25 00:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/28/25 13:19	08/29/25 17:30	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/28/25 13:19	08/29/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*08/28/25 13:19*	*08/29/25 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 14:21	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA02@4'

Date Collected: 08/21/25 11:44
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 09:48	08/29/25 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*15 - 150*	*08/25/25 09:48*	*08/29/25 01:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 09:48	08/29/25 01:40	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 09:48	08/29/25 01:40	1
Toluene	ND		0.049		mg/Kg		08/25/25 09:48	08/29/25 01:40	1
Xylenes, Total	ND		0.098		mg/Kg		08/25/25 09:48	08/29/25 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*08/25/25 09:48*	*08/29/25 01:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/28/25 13:19	08/29/25 17:42	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/28/25 13:19	08/29/25 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*08/28/25 13:19*	*08/29/25 17:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 14:30	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA03@0-0.5'
Date Collected: 08/21/25 12:07
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		08/25/25 09:48	08/29/25 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*15 - 150*	*08/25/25 09:48*	*08/29/25 02:03*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 09:48	08/29/25 02:03	1
Ethylbenzene	ND		0.048		mg/Kg		08/25/25 09:48	08/29/25 02:03	1
Toluene	ND		0.048		mg/Kg		08/25/25 09:48	08/29/25 02:03	1
Xylenes, Total	ND		0.097		mg/Kg		08/25/25 09:48	08/29/25 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*	*08/25/25 09:48*	*08/29/25 02:03*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/28/25 13:19	08/29/25 17:53	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/28/25 13:19	08/29/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*08/28/25 13:19*	*08/29/25 17:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 14:40	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA03@2'

Date Collected: 08/21/25 12:43
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 09:48	08/29/25 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*15 - 150*	*08/25/25 09:48*	*08/29/25 02:27*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 09:48	08/29/25 02:27	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 09:48	08/29/25 02:27	1
Toluene	ND		0.049		mg/Kg		08/25/25 09:48	08/29/25 02:27	1
Xylenes, Total	ND		0.099		mg/Kg		08/25/25 09:48	08/29/25 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*15 - 150*	*08/25/25 09:48*	*08/29/25 02:27*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/28/25 13:19	08/29/25 18:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/28/25 13:19	08/29/25 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*08/28/25 13:19*	*08/29/25 18:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		50		mg/Kg		08/26/25 07:45	08/26/25 14:50	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA03@6'

Date Collected: 08/21/25 13:10
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		08/25/25 13:37	08/27/25 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 150*	*08/25/25 13:37*	*08/27/25 21:36*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 13:37	08/27/25 21:36	1
Ethylbenzene	ND		0.050		mg/Kg		08/25/25 13:37	08/27/25 21:36	1
Toluene	ND		0.050		mg/Kg		08/25/25 13:37	08/27/25 21:36	1
Xylenes, Total	ND		0.10		mg/Kg		08/25/25 13:37	08/27/25 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*	*08/25/25 13:37*	*08/27/25 21:36*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/02/25 12:09	09/03/25 12:42	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/02/25 12:09	09/03/25 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*09/02/25 12:09*	*09/03/25 12:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 15:00	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA04@0-0.5'
Date Collected: 08/21/25 13:02
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		08/25/25 13:37	08/27/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 150*	*08/25/25 13:37*	*08/27/25 22:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 13:37	08/27/25 22:41	1
Ethylbenzene	ND		0.050		mg/Kg		08/25/25 13:37	08/27/25 22:41	1
Toluene	ND		0.050		mg/Kg		08/25/25 13:37	08/27/25 22:41	1
Xylenes, Total	ND		0.10		mg/Kg		08/25/25 13:37	08/27/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*	*08/25/25 13:37*	*08/27/25 22:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/02/25 12:09	09/03/25 12:53	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/02/25 12:09	09/03/25 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*09/02/25 12:09*	*09/03/25 12:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		49		mg/Kg		08/26/25 07:45	08/26/25 15:10	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA04@4'

Date Collected: 08/21/25 14:08
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 13:37	08/27/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 150*	*08/25/25 13:37*	*08/27/25 23:46*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 13:37	08/27/25 23:46	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 13:37	08/27/25 23:46	1
Toluene	ND		0.049		mg/Kg		08/25/25 13:37	08/27/25 23:46	1
Xylenes, Total	ND		0.098		mg/Kg		08/25/25 13:37	08/27/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*	*08/25/25 13:37*	*08/27/25 23:46*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/02/25 12:09	09/03/25 13:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/02/25 12:09	09/03/25 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*09/02/25 12:09*	*09/03/25 13:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 15:39	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA04@5'

Date Collected: 08/21/25 14:15
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 13:37	08/28/25 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 150*	*08/25/25 13:37*	*08/28/25 00:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 13:37	08/28/25 00:08	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 00:08	1
Toluene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 00:08	1
Xylenes, Total	ND		0.099		mg/Kg		08/25/25 13:37	08/28/25 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*	*08/25/25 13:37*	*08/28/25 00:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/02/25 12:09	09/03/25 13:16	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/02/25 12:09	09/03/25 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*119*		*62 - 134*	*09/02/25 12:09*	*09/03/25 13:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		49		mg/Kg		08/26/25 07:45	08/26/25 15:49	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA05@0-0.5'
Date Collected: 08/21/25 13:45
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 13:37	08/28/25 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 150*	*08/25/25 13:37*	*08/28/25 00:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 13:37	08/28/25 00:30	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 00:30	1
Toluene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 00:30	1
Xylenes, Total	ND		0.099		mg/Kg		08/25/25 13:37	08/28/25 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*	*08/25/25 13:37*	*08/28/25 00:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/02/25 12:09	09/03/25 13:28	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/02/25 12:09	09/03/25 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*09/02/25 12:09*	*09/03/25 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 15:59	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA05@3'

Date Collected: 08/21/25 13:59
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		08/25/25 13:37	08/28/25 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*08/25/25 13:37*	*08/28/25 00:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 13:37	08/28/25 00:52	1
Ethylbenzene	ND		0.048		mg/Kg		08/25/25 13:37	08/28/25 00:52	1
Toluene	ND		0.048		mg/Kg		08/25/25 13:37	08/28/25 00:52	1
Xylenes, Total	ND		0.095		mg/Kg		08/25/25 13:37	08/28/25 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 150*	*08/25/25 13:37*	*08/28/25 00:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.7		mg/Kg		09/02/25 15:01	09/03/25 15:10	1
Motor Oil Range Organics [C28-C40]	**76**		49		mg/Kg		09/02/25 15:01	09/03/25 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*09/02/25 15:01*	*09/03/25 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51		mg/Kg		08/26/25 07:45	08/26/25 16:09	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA06@0-0.5'
Date Collected: 08/21/25 14:08
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 13:37	08/28/25 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 150*	*08/25/25 13:37*	*08/28/25 01:14*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 13:37	08/28/25 01:14	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 01:14	1
Toluene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 01:14	1
Xylenes, Total	ND		0.097		mg/Kg		08/25/25 13:37	08/28/25 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*	*08/25/25 13:37*	*08/28/25 01:14*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		09/02/25 15:01	09/03/25 15:34	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/02/25 15:01	09/03/25 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*09/02/25 15:01*	*09/03/25 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 07:45	08/26/25 16:19	10

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA06@2'

Date Collected: 08/21/25 14:19
Date Received: 08/23/25 06:10

Lab Sample ID: 885-31729-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		08/25/25 13:37	08/28/25 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 150*	*08/25/25 13:37*	*08/28/25 01:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/25/25 13:37	08/28/25 01:35	1
Ethylbenzene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 01:35	1
Toluene	ND		0.049		mg/Kg		08/25/25 13:37	08/28/25 01:35	1
Xylenes, Total	ND		0.097		mg/Kg		08/25/25 13:37	08/28/25 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*08/25/25 13:37*	*08/28/25 01:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/02/25 15:01	09/03/25 15:58	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/02/25 15:01	09/03/25 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*09/02/25 15:01*	*09/03/25 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		08/26/25 09:57	08/26/25 16:29	10

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

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

Lab Sample ID: MB 885-33094/1-A
Matrix: Solid
Analysis Batch: 33488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33094

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		08/25/25 09:48	08/28/25 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*15 - 150*	*08/25/25 09:48*	*08/28/25 15:48*	*1*

Lab Sample ID: LCS 885-33094/2-A
Matrix: Solid
Analysis Batch: 33488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	24.1		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*		*15 - 150*

Lab Sample ID: MB 885-33151/1-A
Matrix: Solid
Analysis Batch: 33398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33151

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		08/25/25 13:37	08/27/25 21:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 150*	*08/25/25 13:37*	*08/27/25 21:15*	*1*

Lab Sample ID: LCS 885-33151/2-A
Matrix: Solid
Analysis Batch: 33398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33151

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	22.7		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*215*		*15 - 150*

Lab Sample ID: 885-31729-9 MS
Matrix: Solid
Analysis Batch: 33398

Client Sample ID: HA03@6'
Prep Type: Total/NA
Prep Batch: 33151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.8	21.3		mg/Kg		86	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*15 - 150*

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

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

Lab Sample ID: 885-31729-9 MSD
Matrix: Solid
Analysis Batch: 33398

Client Sample ID: HA03@6'
Prep Type: Total/NA
Prep Batch: 33151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.9	22.7		mg/Kg		91	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-33094/1-A
Matrix: Solid
Analysis Batch: 33489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33094

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 09:48	08/28/25 15:48	1
Ethylbenzene	ND		0.050		mg/Kg		08/25/25 09:48	08/28/25 15:48	1
Toluene	ND		0.050		mg/Kg		08/25/25 09:48	08/28/25 15:48	1
Xylenes, Total	ND		0.10		mg/Kg		08/25/25 09:48	08/28/25 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*	*08/25/25 09:48*	*08/28/25 15:48*	*1*

Lab Sample ID: LCS 885-33094/3-A
Matrix: Solid
Analysis Batch: 33489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.869		mg/Kg		87	70 - 130		
Ethylbenzene			1.00	0.857		mg/Kg		86	70 - 130		
m&p-Xylene			2.00	1.84		mg/Kg		92	70 - 130		
o-Xylene			1.00	0.870		mg/Kg		87	70 - 130		
Toluene			1.00	0.875		mg/Kg		87	70 - 130		
Xylenes, Total			3.00	2.71		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*

Lab Sample ID: MB 885-33151/1-A
Matrix: Solid
Analysis Batch: 33399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33151

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/25/25 13:37	08/27/25 21:15	1
Ethylbenzene	ND		0.050		mg/Kg		08/25/25 13:37	08/27/25 21:15	1
Toluene	ND		0.050		mg/Kg		08/25/25 13:37	08/27/25 21:15	1
Xylenes, Total	ND		0.10		mg/Kg		08/25/25 13:37	08/27/25 21:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*08/25/25 13:37*	*08/27/25 21:15*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 885-33151/3-A
Matrix: Solid
Analysis Batch: 33399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33151

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.01		mg/Kg		101	70 - 130		
Ethylbenzene			1.00	1.01		mg/Kg		101	70 - 130		
m&p-Xylene			2.00	2.01		mg/Kg		100	70 - 130		
o-Xylene			1.00	1.01		mg/Kg		101	70 - 130		
Toluene			1.00	1.01		mg/Kg		101	70 - 130		
Xylenes, Total			3.00	3.02		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*15 - 150*

Lab Sample ID: 885-31729-10 MS
Matrix: Solid
Analysis Batch: 33399

Client Sample ID: HA04@0-0.5'
Prep Type: Total/NA
Prep Batch: 33151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.998	0.996		mg/Kg		100	70 - 130		
Ethylbenzene	ND		0.998	1.02		mg/Kg		102	70 - 130		
m&p-Xylene	ND		2.00	2.03		mg/Kg		101	70 - 130		
o-Xylene	ND		0.998	1.02		mg/Kg		102	70 - 130		
Toluene	ND		0.998	1.01		mg/Kg		102	70 - 130		
Xylenes, Total	ND		2.99	3.04		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*

Lab Sample ID: 885-31729-10 MSD
Matrix: Solid
Analysis Batch: 33399

Client Sample ID: HA04@0-0.5'
Prep Type: Total/NA
Prep Batch: 33151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.997	0.939		mg/Kg		94	70 - 130	6	20
Ethylbenzene	ND		0.997	0.955		mg/Kg		96	70 - 130	7	20
m&p-Xylene	ND		1.99	1.93		mg/Kg		97	70 - 130	5	20
o-Xylene	ND		0.997	0.953		mg/Kg		96	70 - 130	7	20
Toluene	ND		0.997	0.935		mg/Kg		94	70 - 130	8	20
Xylenes, Total	ND		2.99	2.88		mg/Kg		96	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*15 - 150*

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

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

Lab Sample ID: 885-31729-8 MS
Matrix: Solid
Analysis Batch: 33561

Client Sample ID: HA03@2'
Prep Type: Total/NA
Prep Batch: 33478

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		49.0	50.1		mg/Kg		102	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*

Lab Sample ID: 885-31729-8 MSD
Matrix: Solid
Analysis Batch: 33561

Client Sample ID: HA03@2'
Prep Type: Total/NA
Prep Batch: 33478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.1	54.2		mg/Kg		110	44 - 136	8	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*

Lab Sample ID: MB 885-33717/1-A
Matrix: Solid
Analysis Batch: 33782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33717

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/02/25 12:08	09/03/25 11:38	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/02/25 12:08	09/03/25 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*09/02/25 12:08*	*09/03/25 11:38*	*1*

Lab Sample ID: LCS 885-33717/2-A
Matrix: Solid
Analysis Batch: 33782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33717

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	57.3		mg/Kg		115	51 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*121*		*62 - 134*

Lab Sample ID: MB 885-33744/1-A
Matrix: Solid
Analysis Batch: 33782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33744

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/02/25 15:00	09/03/25 13:12	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/02/25 15:00	09/03/25 13:12	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

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

Lab Sample ID: MB 885-33744/1-A
Matrix: Solid
Analysis Batch: 33782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33744

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134	09/02/25 15:00	09/03/25 13:12	1

Lab Sample ID: LCS 885-33744/2-A
Matrix: Solid
Analysis Batch: 33782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33744

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	42.7		mg/Kg		85	51 - 148		

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-33185/1-A
Matrix: Solid
Analysis Batch: 33192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33185

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		08/26/25 07:45	08/26/25 09:17	1

Lab Sample ID: LCS 885-33185/2-A
Matrix: Solid
Analysis Batch: 33192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33185

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.7	49.7		mg/Kg		98	90 - 110		

Lab Sample ID: 885-31729-1 MS
Matrix: Solid
Analysis Batch: 33192

Client Sample ID: HA01@0-0.5'
Prep Type: Total/NA
Prep Batch: 33185

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	740		50.3	802	4	mg/Kg		116	50 - 150		

Lab Sample ID: 885-31729-1 MSD
Matrix: Solid
Analysis Batch: 33192

Client Sample ID: HA01@0-0.5'
Prep Type: Total/NA
Prep Batch: 33185

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	740		49.5	776	4	mg/Kg		67	50 - 150	3	20

Lab Sample ID: MB 885-33214/1-A
Matrix: Solid
Analysis Batch: 33192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33214

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		08/26/25 09:57	08/26/25 10:57	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-33214/2-A
Matrix: Solid
Analysis Batch: 33192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33214

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			49.7	48.2		mg/Kg		97	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

GC VOA

Prep Batch: 33094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1	HA01@0-0.5'	Total/NA	Solid	5030C	
885-31729-2	HA01@4'	Total/NA	Solid	5030C	
885-31729-3	HA01@7'	Total/NA	Solid	5030C	
885-31729-4	HA02@0-0.5'	Total/NA	Solid	5030C	
885-31729-5	HA02@2'	Total/NA	Solid	5030C	
885-31729-6	HA02@4'	Total/NA	Solid	5030C	
885-31729-7	HA03@0-0.5'	Total/NA	Solid	5030C	
885-31729-8	HA03@2'	Total/NA	Solid	5030C	
MB 885-33094/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33094/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33094/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 33151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-9	HA03@6'	Total/NA	Solid	5030C	
885-31729-10	HA04@0-0.5'	Total/NA	Solid	5030C	
885-31729-11	HA04@4'	Total/NA	Solid	5030C	
885-31729-12	HA04@5'	Total/NA	Solid	5030C	
885-31729-13	HA05@0-0.5'	Total/NA	Solid	5030C	
885-31729-14	HA05@3'	Total/NA	Solid	5030C	
885-31729-15	HA06@0-0.5'	Total/NA	Solid	5030C	
885-31729-16	HA06@2'	Total/NA	Solid	5030C	
MB 885-33151/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-33151/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-33151/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-31729-9 MS	HA03@6'	Total/NA	Solid	5030C	
885-31729-9 MSD	HA03@6'	Total/NA	Solid	5030C	
885-31729-10 MS	HA04@0-0.5'	Total/NA	Solid	5030C	
885-31729-10 MSD	HA04@0-0.5'	Total/NA	Solid	5030C	

Analysis Batch: 33398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-9	HA03@6'	Total/NA	Solid	8015M/D	33151
885-31729-10	HA04@0-0.5'	Total/NA	Solid	8015M/D	33151
885-31729-11	HA04@4'	Total/NA	Solid	8015M/D	33151
885-31729-12	HA04@5'	Total/NA	Solid	8015M/D	33151
885-31729-13	HA05@0-0.5'	Total/NA	Solid	8015M/D	33151
885-31729-14	HA05@3'	Total/NA	Solid	8015M/D	33151
885-31729-15	HA06@0-0.5'	Total/NA	Solid	8015M/D	33151
885-31729-16	HA06@2'	Total/NA	Solid	8015M/D	33151
MB 885-33151/1-A	Method Blank	Total/NA	Solid	8015M/D	33151
LCS 885-33151/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33151
885-31729-9 MS	HA03@6'	Total/NA	Solid	8015M/D	33151
885-31729-9 MSD	HA03@6'	Total/NA	Solid	8015M/D	33151

Analysis Batch: 33399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-9	HA03@6'	Total/NA	Solid	8021B	33151
885-31729-10	HA04@0-0.5'	Total/NA	Solid	8021B	33151
885-31729-11	HA04@4'	Total/NA	Solid	8021B	33151
885-31729-12	HA04@5'	Total/NA	Solid	8021B	33151

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

GC VOA (Continued)

Analysis Batch: 33399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-13	HA05@0-0.5'	Total/NA	Solid	8021B	33151
885-31729-14	HA05@3'	Total/NA	Solid	8021B	33151
885-31729-15	HA06@0-0.5'	Total/NA	Solid	8021B	33151
885-31729-16	HA06@2'	Total/NA	Solid	8021B	33151
MB 885-33151/1-A	Method Blank	Total/NA	Solid	8021B	33151
LCS 885-33151/3-A	Lab Control Sample	Total/NA	Solid	8021B	33151
885-31729-10 MS	HA04@0-0.5'	Total/NA	Solid	8021B	33151
885-31729-10 MSD	HA04@0-0.5'	Total/NA	Solid	8021B	33151

Analysis Batch: 33488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1	HA01@0-0.5'	Total/NA	Solid	8015M/D	33094
885-31729-2	HA01@4'	Total/NA	Solid	8015M/D	33094
885-31729-4	HA02@0-0.5'	Total/NA	Solid	8015M/D	33094
885-31729-5	HA02@2'	Total/NA	Solid	8015M/D	33094
885-31729-6	HA02@4'	Total/NA	Solid	8015M/D	33094
885-31729-7	HA03@0-0.5'	Total/NA	Solid	8015M/D	33094
885-31729-8	HA03@2'	Total/NA	Solid	8015M/D	33094
MB 885-33094/1-A	Method Blank	Total/NA	Solid	8015M/D	33094
LCS 885-33094/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33094

Analysis Batch: 33489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1	HA01@0-0.5'	Total/NA	Solid	8021B	33094
885-31729-2	HA01@4'	Total/NA	Solid	8021B	33094
885-31729-4	HA02@0-0.5'	Total/NA	Solid	8021B	33094
885-31729-5	HA02@2'	Total/NA	Solid	8021B	33094
885-31729-6	HA02@4'	Total/NA	Solid	8021B	33094
885-31729-7	HA03@0-0.5'	Total/NA	Solid	8021B	33094
885-31729-8	HA03@2'	Total/NA	Solid	8021B	33094
MB 885-33094/1-A	Method Blank	Total/NA	Solid	8021B	33094
LCS 885-33094/3-A	Lab Control Sample	Total/NA	Solid	8021B	33094

Analysis Batch: 33569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-3	HA01@7'	Total/NA	Solid	8015M/D	33094

Analysis Batch: 33570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-3	HA01@7'	Total/NA	Solid	8021B	33094

GC Semi VOA

Prep Batch: 33478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1	HA01@0-0.5'	Total/NA	Solid	SHAKE	
885-31729-2	HA01@4'	Total/NA	Solid	SHAKE	
885-31729-3	HA01@7'	Total/NA	Solid	SHAKE	
885-31729-4	HA02@0-0.5'	Total/NA	Solid	SHAKE	
885-31729-5	HA02@2'	Total/NA	Solid	SHAKE	
885-31729-6	HA02@4'	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

GC Semi VOA (Continued)

Prep Batch: 33478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-7	HA03@0-0.5'	Total/NA	Solid	SHAKE	
885-31729-8	HA03@2'	Total/NA	Solid	SHAKE	
885-31729-8 MS	HA03@2'	Total/NA	Solid	SHAKE	
885-31729-8 MSD	HA03@2'	Total/NA	Solid	SHAKE	

Analysis Batch: 33561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-2	HA01@4'	Total/NA	Solid	8015M/D	33478
885-31729-4	HA02@0-0.5'	Total/NA	Solid	8015M/D	33478
885-31729-5	HA02@2'	Total/NA	Solid	8015M/D	33478
885-31729-6	HA02@4'	Total/NA	Solid	8015M/D	33478
885-31729-7	HA03@0-0.5'	Total/NA	Solid	8015M/D	33478
885-31729-8	HA03@2'	Total/NA	Solid	8015M/D	33478
885-31729-8 MS	HA03@2'	Total/NA	Solid	8015M/D	33478
885-31729-8 MSD	HA03@2'	Total/NA	Solid	8015M/D	33478

Analysis Batch: 33688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1	HA01@0-0.5'	Total/NA	Solid	8015M/D	33478
885-31729-3	HA01@7'	Total/NA	Solid	8015M/D	33478

Prep Batch: 33717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-9	HA03@6'	Total/NA	Solid	SHAKE	
885-31729-10	HA04@0-0.5'	Total/NA	Solid	SHAKE	
885-31729-11	HA04@4'	Total/NA	Solid	SHAKE	
885-31729-12	HA04@5'	Total/NA	Solid	SHAKE	
885-31729-13	HA05@0-0.5'	Total/NA	Solid	SHAKE	
MB 885-33717/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33717/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 33744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-14	HA05@3'	Total/NA	Solid	SHAKE	
885-31729-15	HA06@0-0.5'	Total/NA	Solid	SHAKE	
885-31729-16	HA06@2'	Total/NA	Solid	SHAKE	
MB 885-33744/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33744/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 33778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-9	HA03@6'	Total/NA	Solid	8015M/D	33717
885-31729-10	HA04@0-0.5'	Total/NA	Solid	8015M/D	33717
885-31729-11	HA04@4'	Total/NA	Solid	8015M/D	33717
885-31729-12	HA04@5'	Total/NA	Solid	8015M/D	33717
885-31729-13	HA05@0-0.5'	Total/NA	Solid	8015M/D	33717

Analysis Batch: 33782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-14	HA05@3'	Total/NA	Solid	8015M/D	33744
885-31729-15	HA06@0-0.5'	Total/NA	Solid	8015M/D	33744

QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

GC Semi VOA (Continued)

Analysis Batch: 33782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-16	HA06@2'	Total/NA	Solid	8015M/D	33744
MB 885-33717/1-A	Method Blank	Total/NA	Solid	8015M/D	33717
MB 885-33744/1-A	Method Blank	Total/NA	Solid	8015M/D	33744
LCS 885-33717/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33717
LCS 885-33744/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33744

HPLC/IC

Prep Batch: 33185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1	HA01@0-0.5'	Total/NA	Solid	300_Prep	
885-31729-2	HA01@4'	Total/NA	Solid	300_Prep	
885-31729-3	HA01@7'	Total/NA	Solid	300_Prep	
885-31729-4	HA02@0-0.5'	Total/NA	Solid	300_Prep	
885-31729-5	HA02@2'	Total/NA	Solid	300_Prep	
885-31729-6	HA02@4'	Total/NA	Solid	300_Prep	
885-31729-7	HA03@0-0.5'	Total/NA	Solid	300_Prep	
885-31729-8	HA03@2'	Total/NA	Solid	300_Prep	
885-31729-9	HA03@6'	Total/NA	Solid	300_Prep	
885-31729-10	HA04@0-0.5'	Total/NA	Solid	300_Prep	
885-31729-11	HA04@4'	Total/NA	Solid	300_Prep	
885-31729-12	HA04@5'	Total/NA	Solid	300_Prep	
885-31729-13	HA05@0-0.5'	Total/NA	Solid	300_Prep	
885-31729-14	HA05@3'	Total/NA	Solid	300_Prep	
885-31729-15	HA06@0-0.5'	Total/NA	Solid	300_Prep	
MB 885-33185/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33185/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-31729-1 MS	HA01@0-0.5'	Total/NA	Solid	300_Prep	
885-31729-1 MSD	HA01@0-0.5'	Total/NA	Solid	300_Prep	

Analysis Batch: 33192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-2	HA01@4'	Total/NA	Solid	300.0	33185
885-31729-3	HA01@7'	Total/NA	Solid	300.0	33185
885-31729-4	HA02@0-0.5'	Total/NA	Solid	300.0	33185
885-31729-5	HA02@2'	Total/NA	Solid	300.0	33185
885-31729-6	HA02@4'	Total/NA	Solid	300.0	33185
885-31729-7	HA03@0-0.5'	Total/NA	Solid	300.0	33185
885-31729-8	HA03@2'	Total/NA	Solid	300.0	33185
885-31729-9	HA03@6'	Total/NA	Solid	300.0	33185
885-31729-10	HA04@0-0.5'	Total/NA	Solid	300.0	33185
885-31729-11	HA04@4'	Total/NA	Solid	300.0	33185
885-31729-12	HA04@5'	Total/NA	Solid	300.0	33185
885-31729-13	HA05@0-0.5'	Total/NA	Solid	300.0	33185
885-31729-14	HA05@3'	Total/NA	Solid	300.0	33185
885-31729-15	HA06@0-0.5'	Total/NA	Solid	300.0	33185
885-31729-16	HA06@2'	Total/NA	Solid	300.0	33214
MB 885-33185/1-A	Method Blank	Total/NA	Solid	300.0	33185
MB 885-33214/1-A	Method Blank	Total/NA	Solid	300.0	33214
LCS 885-33185/2-A	Lab Control Sample	Total/NA	Solid	300.0	33185
LCS 885-33214/2-A	Lab Control Sample	Total/NA	Solid	300.0	33214

QC Association Summary

Client: Hilcorp Energy
Job ID: 885-31729-1
Project/Site: San Juan 27-4 #37M

HPLC/IC (Continued)

Analysis Batch: 33192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1 MS	HA01@0-0.5'	Total/NA	Solid	300.0	33185
885-31729-1 MSD	HA01@0-0.5'	Total/NA	Solid	300.0	33185

Prep Batch: 33214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-16	HA06@2'	Total/NA	Solid	300_Prep	
MB 885-33214/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-33214/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 33303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31729-1	HA01@0-0.5'	Total/NA	Solid	300.0	33185

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA01@0-0.5'

Lab Sample ID: 885-31729-1
Matrix: Solid
Date Collected: 08/21/25 10:51
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 23:17
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 23:17
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33688	BZR	EET ALB	09/02/25 12:44
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33303	RC	EET ALB	08/27/25 16:10

Client Sample ID: HA01@4'

Lab Sample ID: 885-31729-2
Matrix: Solid
Date Collected: 08/21/25 11:13
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/28/25 23:41
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/28/25 23:41
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 16:56
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 13:12

Client Sample ID: HA01@7'

Lab Sample ID: 885-31729-3
Matrix: Solid
Date Collected: 08/21/25 13:21
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33569	JP	EET ALB	08/29/25 12:42
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33570	JP	EET ALB	08/29/25 12:42
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33688	BZR	EET ALB	09/02/25 13:20
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 14:01

Client Sample ID: HA02@0-0.5'

Lab Sample ID: 885-31729-4
Matrix: Solid
Date Collected: 08/21/25 11:31
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/29/25 00:28

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-31729-1
Project/Site: San Juan 27-4 #37M

Client Sample ID: HA02@0-0.5'
Lab Sample ID: 885-31729-4
Date Collected: 08/21/25 11:31
Matrix: Solid
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/29/25 00:28
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 17:19
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 14:11

Client Sample ID: HA02@2'
Lab Sample ID: 885-31729-5
Date Collected: 08/21/25 11:36
Matrix: Solid
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/29/25 00:52
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/29/25 00:52
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 17:30
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 14:21

Client Sample ID: HA02@4'
Lab Sample ID: 885-31729-6
Date Collected: 08/21/25 11:44
Matrix: Solid
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/29/25 01:40
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/29/25 01:40
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 17:42
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 14:30

Client Sample ID: HA03@0-0.5'
Lab Sample ID: 885-31729-7
Date Collected: 08/21/25 12:07
Matrix: Solid
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/29/25 02:03
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/29/25 02:03

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA03@0-0.5'

Lab Sample ID: 885-31729-7
Matrix: Solid
Date Collected: 08/21/25 12:07
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 17:53
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 14:40

Client Sample ID: HA03@2'

Lab Sample ID: 885-31729-8
Matrix: Solid
Date Collected: 08/21/25 12:43
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8015M/D		1	33488	JP	EET ALB	08/29/25 02:27
Total/NA	Prep	5030C			33094	KLS	EET ALB	08/25/25 09:48
Total/NA	Analysis	8021B		1	33489	JP	EET ALB	08/29/25 02:27
Total/NA	Prep	SHAKE			33478	DR	EET ALB	08/28/25 13:19
Total/NA	Analysis	8015M/D		1	33561	EM	EET ALB	08/29/25 18:05
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 14:50

Client Sample ID: HA03@6'

Lab Sample ID: 885-31729-9
Matrix: Solid
Date Collected: 08/21/25 13:10
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/27/25 21:36
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/27/25 21:36
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		1	33778	DR	EET ALB	09/03/25 12:42
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 15:00

Client Sample ID: HA04@0-0.5'

Lab Sample ID: 885-31729-10
Matrix: Solid
Date Collected: 08/21/25 13:02
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/27/25 22:41
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/27/25 22:41
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		1	33778	DR	EET ALB	09/03/25 12:53

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA04@0-0.5'

Lab Sample ID: 885-31729-10
Matrix: Solid
Date Collected: 08/21/25 13:02
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 15:10

Client Sample ID: HA04@4'

Lab Sample ID: 885-31729-11
Matrix: Solid
Date Collected: 08/21/25 14:08
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/27/25 23:46
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/27/25 23:46
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		1	33778	DR	EET ALB	09/03/25 13:05
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 15:39

Client Sample ID: HA04@5'

Lab Sample ID: 885-31729-12
Matrix: Solid
Date Collected: 08/21/25 14:15
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/28/25 00:08
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/28/25 00:08
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		1	33778	DR	EET ALB	09/03/25 13:16
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 15:49

Client Sample ID: HA05@0-0.5'

Lab Sample ID: 885-31729-13
Matrix: Solid
Date Collected: 08/21/25 13:45
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/28/25 00:30
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/28/25 00:30
Total/NA	Prep	SHAKE			33717	BZR	EET ALB	09/02/25 12:09
Total/NA	Analysis	8015M/D		1	33778	DR	EET ALB	09/03/25 13:28
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 15:59

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 27-4 #37M

Job ID: 885-31729-1

Client Sample ID: HA05@3'

Lab Sample ID: 885-31729-14
Matrix: Solid
Date Collected: 08/21/25 13:59
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/28/25 00:52
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/28/25 00:52
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 15:10
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 16:09

Client Sample ID: HA06@0-0.5'

Lab Sample ID: 885-31729-15
Matrix: Solid
Date Collected: 08/21/25 14:08
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/28/25 01:14
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/28/25 01:14
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 15:34
Total/NA	Prep	300_Prep			33185	RC	EET ALB	08/26/25 07:45
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 16:19

Client Sample ID: HA06@2'

Lab Sample ID: 885-31729-16
Matrix: Solid
Date Collected: 08/21/25 14:19
Date Received: 08/23/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8015M/D		1	33398	AT	EET ALB	08/28/25 01:35
Total/NA	Prep	5030C			33151	KLS	EET ALB	08/25/25 13:37
Total/NA	Analysis	8021B		1	33399	AT	EET ALB	08/28/25 01:35
Total/NA	Prep	SHAKE			33744	BZR	EET ALB	09/02/25 15:01
Total/NA	Analysis	8015M/D		1	33782	BZR	EET ALB	09/03/25 15:58
Total/NA	Prep	300_Prep			33214	RC	EET ALB	08/26/25 09:57
Total/NA	Analysis	300.0		10	33192	RC	EET ALB	08/26/25 16:29

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Job ID: 885-31729-1
Project/Site: San Juan 27-4 #37M

Laboratory: Eurofins Albuquerque

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Hilcorp Energy Company
attn: Kate Kaufman
Mailing Address:
Phone #:
email or Fax#: kkaufman@hilcorp.com
QA/QC Package.
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard (5day) ☐ Rush
Project Name: San Juan 27-4 #37M
Project #:
Project Manager: Zach Myers
zmyers@ensolum.com
Sampler: Osgood Froelich + Mike Pollock
On Ice: ☑ Yes ☐ No (Alan)
# of Coolers: 1
Cooler Temp (including CF): 4.4 - 0.2 = 4.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORA
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-31729 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D GRO / DRO / MRO	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/21/25	1051	soil	HA01@0-0.5'	4 oz, one	on ice		X	X					X			
	1113		HA01@4'													
	1321		HA01@7'													
	1131		HA02@0-0.5'													
	1136		HA02@2'													
	1144		HA02@4'													
	1207		HA03@0-0.5'													
	1243		HA03@2'													
	1310		HA03@6'													
	1302		HA04@0-0.5'													
	1408		HA04@4'													
8/21/25	1415	soil	HA04@5'	4 oz, one	on ice		X	X					X			

Date	Time	Relinquished by	Received by	Via	Date	Time
8/22/25	1330			courier		
					8/23/25	6:10
Date	Time	Relinquished by	Received by:	Via:	Date	Time

Remarks:
cc: ofroelich@ensolum.com
mpollock@ensolum.com
shyde@ensolum.com
For NMOCD

Page 1 of 2

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

Chain-of-Custody Record

Client: Hilcorp Energy Company
attn: Kate Kaufman
Mailing Address:
Phone #:
email or Fax#: kkaufman@hilcorp.com
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard (5 days) ☐ Rush
Project Name: San Juan 27-4 #37M
Project #:
Project Manager: Zach Myers
Zmyers@ensolum.com
Sampler: Osgood Froelich + Mike Pollock
On Ice: ☒ Yes ☐ No Abby
# of Coolers: 1
Cooler Temp (including CF): 4.4 -0.2 = 4.2 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	(BTEX) MTBE / TMB's (8021)	TPH:8015D GRO / DRO / MRO	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/21/25	1345	soil	HA05@0-0.5'	4 oz, one	on ice		X	X					X			
8/21/25	1359		HA05@3'				X	X					X			
8/21/25	1408		HA06@0-0.5'				X	X					X			
8/21/25	1419		HA06@2'				X	X					X			

Date	Time	Relinquished by	Received by	Via	Date	Time
8/22/25	1330				8/22/25	1330
8/22/25	1745			Courier	8/23/25	6:10

Remarks:
cc: ofroelich@ensolum.com
mpollock@ensolum.com
shyde@ensolum.com
For NMOCD

Page 2 of 2

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

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-31729-1

Login Number: 31729 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

ENSOLUM

APPENDIX D

Photographic Log

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Photographic Log
Hilcorp Energy Company
San Juan 27-4 Unit 37M
Rio Arriba County, New Mexico

Photograph: 1 Date: 8/21/2025
Description: View of release point inside berm
View: North

Photograph: 2 Date: 8/21/2025
Description: Sample location HA01 directly adjacent to release point
View: Northwest

Photograph: 3 Date: 9/16/2025
Description: Depth to water boring with total depth of 55'
View: Southeast

Photograph: 4 Date: 9/19/2025
Description: Gauging depth to water boring at 54' with no water detected
View: North

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Phone: (505) 476-3441

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

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

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2522527512**
Incident Name	**NAPP2522527512 SAN JUAN 27-4 UNIT #37M @ 30-039-25933**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-039-25933] SAN JUAN 27 4 UNIT #037M**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	San Juan 27-4 Unit #37M
Date Release Discovered	08/12/2025
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Tank (Any) | Produced Water | Released: 78 BBL | Recovered: 0 BBL | Lost: 78 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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: 10/09/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	740
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	660
GRO+DRO (EPA SW-846 Method 8015M)	490
BTEX (EPA SW-846 Method 8021B or 8260B)	3.7
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	08/21/2025
On what date will (or did) the final sampling or liner inspection occur	08/21/2025
On what date will (or was) the remediation complete(d)	08/21/2025
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	0
What is the estimated volume (in cubic yards) that will be remediated	0
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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	*Not answered.*
(Ex Situ) Excavation and **on-site** 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)	Yes
Other Non-listed Remedial Process. Please specify	Remediation not required
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 10/09/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**496624**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**08/21/2025**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**2000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
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)	N/A

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: 10/09/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 513875
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2522527512, thank you. This Remediation Closure Report is approved. Please be advised that step-out sampling locations on pad that define the edge of the release will create the outline of the area that will need to be sampled for reclamation. The larger the step-out, the larger the eventual reclamation area that will need be to be sampled once the pad is abandoned and returned back to “land no longer in use.” The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division.	10/10/2025