ENSOLUM

August 20, 2025

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

Re: Remediation Work Plan
Canyon Largo Unit Com #472
Hilcorp Energy Company
NMOCD Incident No: nAPP2514946582

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Work Plan* (Work Plan) for a release at the Canyon Largo Unit Com #472 natural gas production well (Site). The Site is located on land managed by the United States Bureau of Land Management (BLM) in Unit A, Section 26, Township 29 North, Range 6 West, Rio Arriba County, New Mexico (Figure 1). This Work Plan includes a summary of delineation activities performed at the Site and the proposed remediation of impacted soil originating from the release.

SITE BACKGROUND

On May 27, 2025, Hilcorp personnel discovered a release of 42 barrels (bbls) of condensate at the Site. Specifically, the field operator turned the well on after an extended pressure buildup over the prior weekend. The following week, the operator discovered the well had unloaded an abnormal volume of fluid that had overtopped the condensate tank, resulting in the release. The release also migrated as sheet flow into the below-grade tank (BGT) cribbing but was ultimately contained within the secondary containment berm. A total of 20 bbls of condensate were recovered from within the BGT cribbing resulting in 22 bbls of condensate unrecovered.

Hilcorp submitted the *Notification of Release* to the New Mexico Oil Conservation Division (NMOCD) on May 29, 2025. The NMOCD has assigned the Site Incident Number nAPP2514946582.

SITE CHARACTERIZATION

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

GEOLOGY AND HYDROGEOLOGY

The Site is located on Tertiary (Eocene) age San Jose Formation and is underlain by the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

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

To assess Site-specific depth-to-groundwater, one borehole was advanced on the Site well pad on July 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 at least 72 hours. A water-level indicator was used to assess for the presence or absence of groundwater on July 21, 2025. Groundwater was not encountered in the borehole at a depth of approximately 51.5 feet bgs (sluff had filled the boring from 55 feet to 51.5 feet bgs), indicating the depth to groundwater beneath the Site is greater than 51.5 feet bgs. The boring was backfilled following the depth to water measurement. Depth to water information is provided as Appendix A.

The nearest significant watercourse to the Site is a dry wash located approximately 950 feet west-northwest of the well pad. The nearest fresh water well is located greater than 1,000 feet from the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and within 300 feet from any wetland. No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile 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 BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

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

DELINEATION AND SOIL SAMPLING ACTIVITIES

Upon discovery of the release, Hilcorp retained Ensolum to conduct hand auger delineation activities on June 11, 2025. A notification of sampling activities was provided to the NMOCD prior to the delineation work and is attached as Appendix B. In total, six boreholes (BH01 through BH06) were advanced at the Site to depths up to 4 feet bgs (Figure 2). Boreholes BH01 and BH02 were advanced within the release footprint in order to assess the soil with the greatest potential impacts resulting from the release and provide vertical delineation. Boreholes BH03 through BH06 were advanced to field screen and delineate the lateral and vertical extents of potential impacts outside of the release footprint. All hand auger boreholes met refusal at a depth of 4 feet bgs on formation sandstone bedrock.

During delineation activities, Ensolum personnel logged soil lithology and field screened for the presence of volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). Soil descriptions and field screening results were noted in the field book. Photographs taken during delineation activities are also provided in Appendix C. PID field screening results are also included in Table 1.

Two soil samples were collected from each pothole in order to delineate the vertical impacts at the Site: one at the depth interval indicating the greatest observed contamination (including VOC concentration based on PID field screening results) and a second soil sample collected at the terminus of each borehole. Soil samples were collected directly into laboratory-provided jars and immediately placed on ice. Samples were submitted to Eurofins Environment Testing (Eurofins) for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH following Method 8015M/D, and chloride following EPA Method 300.0.

Based on the laboratory analytical results, BTEX and/or TPH concentrations exceeding the NMOCD Closure Criteria were encountered in boreholes BH01 and BH02 to the terminus of the borings (4 feet bgs), which are located within the release footprint. BTEX, TPH, and/or chloride were either not detected above laboratory reporting limits or were not detected above the applicable Closure Criteria in any other analyzed samples.

Based on the analytical results collected during the June 11, 2025 sampling event and shallow refusal on bedrock, additional sampling was necessary to vertically delineate impacts within the release footprint. As such, drilling was conducted on July 16, 2025 using hollow-stem auger drilling and sampling equipment. One borehole, BH02, was advanced near hand auger borehole BH01 to a depth of 15 feet bgs. Soil samples were collected from the drill rig at 5-foot intervals and submitted to Eurofins for analysis of BTEX, TPH, and chloride using the same methods described above. Based on the analytical results, BTEX and TPH were detected above the NMOCD Closure Criteria from sample “BH02 4-6” collected at a depth interval of 4 feet to 6 feet bgs. Results from all other analyzed samples indicated that concentrations of BTEX, TPH, and chloride were compliant with the applicable Closure Criteria.

A summary of analytical results is summarized in Table 1 and Figure 2, with complete laboratory reports attached in Appendix D.

REMEDIATION WORK PLAN

Based on the soil sampling results described above, it is estimated impacted soil is present at the Site between the ground surface to a maximum depth of approximately 7 feet bgs. Analytical results also indicate impacted soil is likely limited to areas within the secondary containment berm with an approximate areal extent of 1,800 square feet. Based on these estimates, approximately 400 cubic yards to 500 cubic yards of impacted soil are present at the Site.

Because of the areal extent of impacts, volume of impacted soil, and remote location of the Site, soil shredding has been chosen as the remediation technique to address impacted soil at the Site. Soil shredding is an ex-situ and on-Site treatment of impacted soil through which impacted material is chemically treated using a chemical oxidant (hydrogen peroxide) applied to the soil. Impacted material is excavated from the ground using standard construction techniques and placed onto a soil screening unit using a special shredding bucket. The impacted soil is conveyed by the screening unit and chemical treatment is applied simultaneously. The treated soil will be placed in 100 cubic yard stockpiles and allowed to process for 24 to 48 hours in order for the oxidant to degrade the petroleum hydrocarbon contaminants in the soil. The stockpiles will be stored on-Site, and a berm will be constructed around the stockpile area in order to prevent run-off should a significant precipitation event occur.

Once treated, one 5-point composite sample will be collected for analysis from each 100 cubic yard stockpile using a hand auger and/or the excavator bucket. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Samples will be submitted to the analytical laboratory using the handling procedures described above and will be analyzed for TPH and BTEX constituents. Assuming soil is compliant with the NMOCD Table I Closure Criteria, the soil will be ultimately used to backfill the open excavation. Any stockpiles exceeding the applicable Closure Criteria will be allowed to process for a longer period of time and/or be retreated until Closure Criteria are met.

As soil is removed from the excavation, the excavation sidewalls and floors will be field screened using a PID. Once field screening indicates impacted soil has been removed, 5-point composite samples will be collected from the sidewalls and floor of the excavation at a frequency of one sample per 200 square feet. The 5-point composite samples will be collected in the same manner described above. Samples will also be collected and submitted to the analytical laboratory using the techniques described above and will again be analyzed for TPH and BTEX constituents.

SCHEDULE

Within 90 days of NMOCD and BLM approval of this *Remediation Work Plan,* pending contractor availability, Hilcorp will complete the remediation work as described above. Hilcorp will notify the NMOCD and BLM of any delays in this schedule.

VARIANCE REQUEST

Based on previous delineation analytical results, chloride was not detected in any analyzed sample at concentrations exceeding the NMOCD Table I Closure Criteria (10,000 mg/kg) or reclamation requirement (600 mg/kg). As such and in accordance with 19.15.29.14 NMAC, we are requesting a variance in order to collect confirmation soil samples from the remedial excavation for analysis of only TPH and BTEX constituents. Based on the existing Site data and no significant concentrations of chloride being detected resulting from the release, this variance will provide equal protection of fresh water, public health, and the environment.

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 work plan to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,
Ensolum, LLC

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

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

Attachments:

Figure 1: Site Location Map
Figure 2: Delineation Soil Samples

Table 1: Soil Sample Analytical Results

Appendix A: Depth to Water Determination
Appendix B: Agency Correspondence
Appendix C: Photographic Log
Appendix D: Laboratory Analytical Reports

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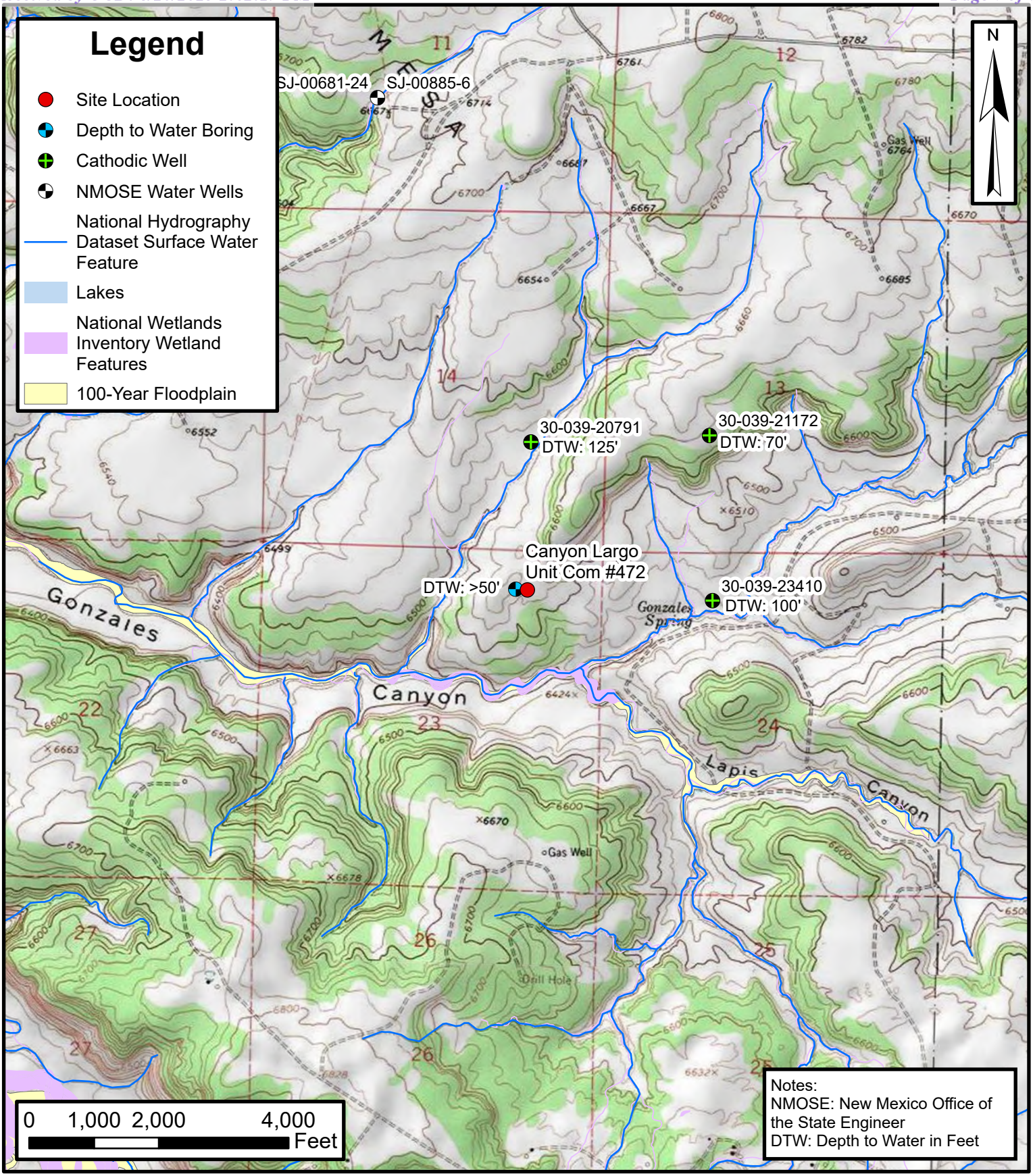
FIGURES



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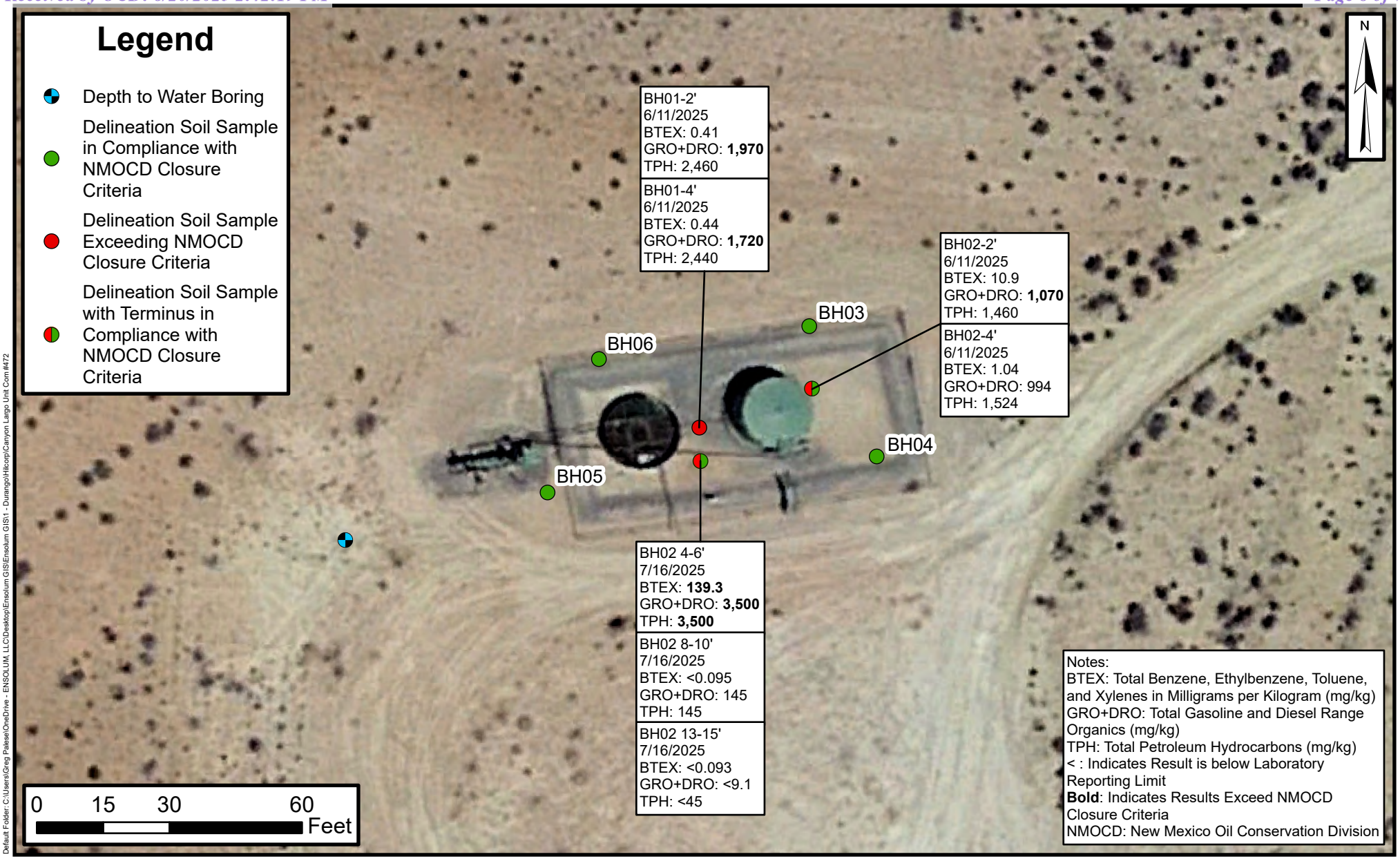
Environmental, Engineering and Hydrogeologic Consultants

Site Location Map

Canyon Largo Unit Com #472
Hilcorp Energy Company

36.390957, -107.432089
Rio Arriba County, New Mexico

FIGURE
1



Default Folder: C:\Users\Greg Pelesel\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Hilcorp\Canyon Largo Unit Com #472

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Delineation Soil Samples

Canyon Largo Unit Com #472
Hilcorp Energy Company
36.390957, -107.432089
Rio Arriba County, New Mexico

FIGURE
2

Sources: Google Earth (2022)

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Canyon Largo Unit Com #472
Hilcorp Energy Company
Rio Arriba County, New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
BH01-2'	6/11/2025	2	15,000	<0.025	<0.050	0.15	0.26	0.41	70	1,900	490	**1,970**	2,460	<60
BH01-4'	6/11/2025	4	5,280	<0.024	<0.049	0.27	0.17	0.44	120	1,600	720	**1,720**	2,440	<60
BH02-2'	6/11/2025	2	4,111	<0.12	1.1	1.1	8.7	10.9	330	740	390	**1,070**	1,460	<60
BH02-4'	6/11/2025	4	3,299	<0.025	<0.049	0.19	0.85	1.04	84	910	530	994	1,524	<60
BH02 4-6	7/16/2025	4 - 6	388.0	<0.23	22	7.3	110	**139.3**	1,400	2,100	<490	**3,500**	**3,500**	110
BH02 8-10	7/16/2025	8 - 10	86.8	<0.024	<0.047	<0.047	<0.095	<0.095	4.8	140	<46	145	145	<60
BH02 13-15	7/16/2025	13 - 15	--	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.1	<45	<9.1	<45	<60
BH03-N2'	6/11/2025	2	3.3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<9.7	<49	<60
BH03-N4'	6/11/2025	4	1,153	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	12	<48	12	12	<59
BH04-E2'	6/11/2025	2	97.6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<9.5	<47	<60
BH04-E4'	6/11/2025	4	10.2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	<60
BH05-S2'	6/11/2025	2	111.8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<9.8	<49	<60
BH05-S4'	6/11/2025	4	43.2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<48	<9.5	<48	<60
BH06-W2'	6/11/2025	2	20.8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<9.3	<47	<60
BH06-W4'	6/11/2025	4	36.9	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<9.6	<48	<60

Notes:

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

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APPENDIX A

Depth to Water Determination

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Client: HEC
Project Name: CLU 472
Project Location: NM
Project Manager: S. Hyde

BORING LOG NUMBER: BH01 DTW
Project No.:

Date Sampled: 7-16-25
Drilled By: Envirodrill
Driller: Rodney
Logged By: EC

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

Borehole Diameter: 8"
Casing Diameter: NA
Well Materials: NA
Surface Completion: NA
Boring Method: NA

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0		NM	NM	NM	SP	lt red brown fn sand moist	
1							
2							
3							
4							
5							
6					SP	lt gray weathered sandstone	
7						dry	
8							
9							
10							
11					SST	lt gray sand stone	
12						to 55"	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

ENSOLUM

Client: HEC
Project Name: CLC 472
Project Location: NM
Project Manager: S. Hyde

BORING LOG NUMBER: BH01 DTW
Project No.:

Date Sampled: 7-16-25
Drilled By: EDE
Driller: Ryan
Logged By: E. Carroll

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

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25		NM	NM	NM	SST	Drv lt. gray brown Sandstone	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48						TD = 55'	
49							
50							

ENSOLUM

Client: HEC
Project Name: CLU 472
Project Location: NM
Project Manager: S. Hyde

BORING LOG NUMBER: BH02
Project No.:

Date Sampled: 7-16-25
Drilled By: Envirodrill
Driller:
Logged By: EC

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

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

DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
0–8							
2	4-6	NM	80%	38.8	SP	lt red brown fn sand hard moist	
9	9-11	NM	40%	86.8	SP	lt gray brown weathered Sand stone hard dry	
15	15	NM	0%	NM	SP SST	Hard Sand stone no recovery sample from cuttings	

DAILY DRILLING REPORT

JOB COMPLETED ☑ YES ☐ NO

NO. JOBS THIS DAY

Client ENSOLUM Date 7/16/25 Start: 7:00 End: 4:30

Project CANYON LARGO # 498 Job No. 25383

Location _____ 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							
2	0	15							

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	2.0		
212	DRILLING INCLUDES: SAFETY MEETING	0.5		
	DRILL OPERATIONS	3.5		
	REAMING HOLE(S)			
	MOVING BETWEEN SITE(S)			
	GROUTING, HOURS ____ FEET ____			
	SITE CLEANUP			
212	MISCELLANEOUS LABOR INCLUDES: DECONTAMINATION SERVICES			
	MOVING DRUMS			
	CREW TRAVEL WITHOUT RIG	2.0		
212	LABORER			
212	WELL INSTALLATION			
212	WELL DEVELOPMENT			
212	WELL ABANDONMENT			
250	STANDBY & DELAYS (EXPLAIN)	1.0		
212	CREW OVERTIME			
–	PER DIEM	2		
212	MEAL / MISC. BREAKS (DOT REQUIRED)	0.5		
278	CREW BREAK			
276	PERMITS / REPORTS			
277	SUPERVISORY TIME			

REMARKS: WAITING ON SITE FOR CLIENT

MAN-HOUR ALLOCATION	HOURS
OPERATOR Ryan	9.5
ASSISTANT Tino	9.5
LABORER	

– SIGNATURE APPROVING WORK CONTENT –

CLIENT SIGNATURE: Etta Trout

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

RENTALS / SUPPLIES	QTY.	RATE	CHARGE
SUPPORT VEHICLE / TRAILER	1		
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 2 IN. X 10 FT.	5		
SCREEN .0 1 0 SLOT 2 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:	30		
JACK HAMMER			
AIR COMPRESSOR, SIZE:			

EQUIPMENT	UNIT NO.	STARTING MILEAGE	ENDING MILEAGE	TOTAL MILES	RATE	CHARGE
RIG	979					
SUPPORT VEHICLE	1111					

RIG / TRUCK DOWN TIME, HOURS (EXPLAIN BELOW)

DAMAGED OR LOST EQUIPMENT: _____

White – Invoicing; Yellow – Client

Enviro-Drill

Ensolum
Hilcorp - CLU 472
07.21.2025 14:36
36.39088, -107.43239

NW

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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: 471248
Date: Thursday, June 5, 2025 12:32:57 PM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2514946582.

The sampling event is expected to take place:

When: 06/11/2025 @ 10:00
Where: A-26-29N-06W 790 FNL 1285 FEL (36.690598,-107.431711)

Additional Information: Project Manager Stuart Hyde 970-903-1607

Additional Instructions: HIlcorp Canyon Largo Unit #472, coordinates 36.390598, -107.431711

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

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

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

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

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 483892
Date: Thursday, July 10, 2025 2:14:57 PM

[**EXTERNAL EMAIL**]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2514946582.

The sampling event is expected to take place:

When: 07/16/2025 @ 09:00
Where: A-26-29N-06W 790 FNL 1285 FEL (36.690598,-107.431711)

Additional Information: Project Manager Stuart Hyde 970-903-1607

Additional Instructions: HIlcorp Canyon Largo Unit #472, coordinates 36.390598, -107.431711

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

Photographic Log

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Photographic Log
Hilcorp Energy Company
Canyon Largo Unit Com #472
San Juan County, New Mexico

Photograph: 1 Date: 6/11/2025
Description: Attempted boring inside cribbing
View: Northwest

Photograph: 2 Date: 6/11/2025
Description: Release extent
View: North

Photograph: 3 Date: 6/11/2025
Description: BH01
View: Southeast

Photograph: 4 Date: 6/11/2025
Description: BH02
View: West

ENSOLUM

Photographic Log
Hilcorp Energy Company
Canyon Largo Unit Com #472
San Juan County, New Mexico

Photograph: 5 Date: 6/11/2025
Description: BH03
View: Southwest

Photograph: 6 Date: 6/11/2025
Description: BH04
View: West

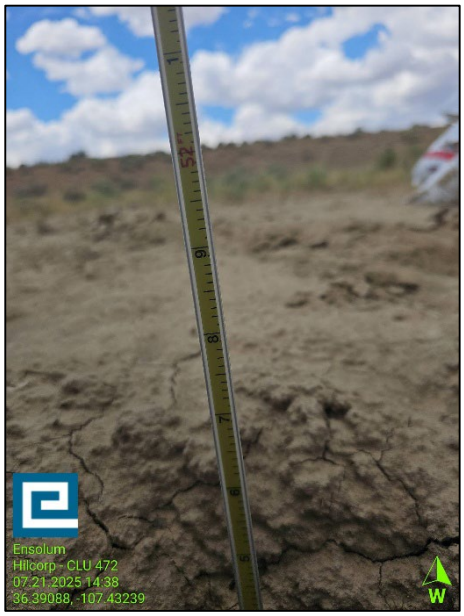
Photograph: 7 Date: 6/11/2025
Description: BH05
View: North

Photograph: 8 Date: 6/11/2025
Description: BH06
View: Southeast

ENSOLUM

Photographic Log
Hilcorp Energy Company
Canyon Largo Unit Com #472
San Juan County, New Mexico

Photograph: 9 Date: 7/21/2025
Description: Depth to water boring
View: Northwest



Photograph: 10 Date: 7/21/2025
Description: Groundwater greater than 51 feet
View: West

ENSOLUM

APPENDIX D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/23/2025 12:44:47 PM

JOB DESCRIPTION

Canyon Largo Unit #472

JOB NUMBER

885-26741-1

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
6/23/2025 12:44:47 PM

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

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Laboratory Job ID: 885-26741-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-26741-1
Project/Site: Canyon Largo Unit #472

Qualifiers

GC VOA

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

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: Canyon Largo Unit #472

Job ID: 885-26741-1

Job ID: 885-26741-1 Eurofins Albuquerque

Job Narrative
885-26741-1

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

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

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

Receipt
The samples were received on 6/13/2025 6:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

Gasoline Range Organics
Method 8015D_GRO: Surrogate recovery for the following samples were outside control limits: BH01-2' (885-26741-1), BH01-4' (885-26741-2), BH02-2' (885-26741-3) and BH02-4' (885-26741-4). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-28342 and analytical batch 885-28345 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015D_DRO: Surrogate recovery for the following sample is outside the upper control limit: (CCV 885-28634/38). Due to this high bias, only associated samples with passing surrogate or non-detect for target analytes have been reported.

Method 8015D_DRO: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: (885-26741-A-4-E MS). The parent sample's surrogate recovery and the matrix spike duplicate (MSD) surrogate recovery were within limits. The MS/MSD sample has been qualified and reported. Furthermore, the LCS surrogate was also within reporting limits.

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: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH01-2'

Date Collected: 06/11/25 14:00
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-1

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]	**70**		5.0		mg/Kg		06/13/25 06:40	06/18/25 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*15 - 150*	*06/13/25 06:40*	*06/18/25 21:06*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 06:40	06/18/25 21:06	1
Ethylbenzene	**0.15**		0.050		mg/Kg		06/13/25 06:40	06/18/25 21:06	1
Toluene	ND		0.050		mg/Kg		06/13/25 06:40	06/18/25 21:06	1
Xylenes, Total	**0.26**		0.099		mg/Kg		06/13/25 06:40	06/18/25 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*	*06/13/25 06:40*	*06/18/25 21:06*	*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]	**1900**		49		mg/Kg		06/19/25 09:13	06/20/25 15:21	5
Motor Oil Range Organics [C28-C40]	**490**		240		mg/Kg		06/19/25 09:13	06/20/25 15:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*06/19/25 09:13*	*06/20/25 15:21*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:13	06/13/25 17:11	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH01-4'

Date Collected: 06/11/25 14:15
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-2

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]	120		4.9		mg/Kg		06/13/25 10:44	06/18/25 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*219*	*S1+*	*15 - 150*	*06/13/25 10:44*	*06/18/25 21:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		06/13/25 10:44	06/18/25 21:30	1
Ethylbenzene	0.27		0.049		mg/Kg		06/13/25 10:44	06/18/25 21:30	1
Toluene	ND		0.049		mg/Kg		06/13/25 10:44	06/18/25 21:30	1
Xylenes, Total	0.17		0.097		mg/Kg		06/13/25 10:44	06/18/25 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*06/13/25 10:44*	*06/18/25 21:30*	*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]	1600		19		mg/Kg		06/14/25 15:40	06/16/25 15:46	2
Motor Oil Range Organics [C28-C40]	720		97		mg/Kg		06/14/25 15:40	06/16/25 15:46	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*127*		*62 - 134*	*06/14/25 15:40*	*06/16/25 15:46*	*2*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:13	06/13/25 17:25	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH02-2'

Date Collected: 06/11/25 14:30
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-3

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]	330		25		mg/Kg		06/13/25 10:44	06/18/25 21:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*15 - 150*	*06/13/25 10:44*	*06/18/25 21:54*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.12		mg/Kg		06/13/25 10:44	06/18/25 21:54	5
Ethylbenzene	1.1		0.25		mg/Kg		06/13/25 10:44	06/18/25 21:54	5
Toluene	1.1		0.25		mg/Kg		06/13/25 10:44	06/18/25 21:54	5
Xylenes, Total	8.7		0.49		mg/Kg		06/13/25 10:44	06/18/25 21:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*06/13/25 10:44*	*06/18/25 21:54*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	740		49		mg/Kg		06/19/25 09:13	06/19/25 14:04	5
Motor Oil Range Organics [C28-C40]	390		250		mg/Kg		06/19/25 09:13	06/19/25 14:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*120*		*62 - 134*	*06/19/25 09:13*	*06/19/25 14:04*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:13	06/13/25 18:33	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH02-4'

Date Collected: 06/11/25 14:40
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-4

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]	**84**		4.9		mg/Kg		06/13/25 10:44	06/18/25 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*199*	*S1+*	*15 - 150*	*06/13/25 10:44*	*06/18/25 22:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 10:44	06/18/25 22:17	1
Ethylbenzene	**0.19**		0.049		mg/Kg		06/13/25 10:44	06/18/25 22:17	1
Toluene	ND		0.049		mg/Kg		06/13/25 10:44	06/18/25 22:17	1
Xylenes, Total	**0.85**		0.098		mg/Kg		06/13/25 10:44	06/18/25 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 150*	*06/13/25 10:44*	*06/18/25 22:17*	*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]	**910**		19		mg/Kg		06/19/25 09:13	06/19/25 13:20	2
Motor Oil Range Organics [C28-C40]	**530**		94		mg/Kg		06/19/25 09:13	06/19/25 13:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*132*		*62 - 134*	*06/19/25 09:13*	*06/19/25 13:20*	*2*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		06/13/25 09:13	06/13/25 18:47	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH03-N2'

Date Collected: 06/11/25 15:00
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-5

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		4.9		mg/Kg		06/13/25 10:44	06/18/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 150*	*06/13/25 10:44*	*06/18/25 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		06/13/25 10:44	06/18/25 22:41	1
Ethylbenzene	ND		0.049		mg/Kg		06/13/25 10:44	06/18/25 22:41	1
Toluene	ND		0.049		mg/Kg		06/13/25 10:44	06/18/25 22:41	1
Xylenes, Total	ND		0.099		mg/Kg		06/13/25 10:44	06/18/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*	*06/13/25 10:44*	*06/18/25 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		9.7		mg/Kg		06/14/25 15:40	06/16/25 11:23	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		06/14/25 15:40	06/16/25 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*116*		*62 - 134*	*06/14/25 15:40*	*06/16/25 11:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:13	06/13/25 19:00	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH03-N4'

Date Collected: 06/11/25 15:10
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-6

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		06/13/25 10:44	06/18/25 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*	*06/13/25 10:44*	*06/18/25 23:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		06/13/25 10:44	06/18/25 23:52	1
Ethylbenzene	ND		0.049		mg/Kg		06/13/25 10:44	06/18/25 23:52	1
Toluene	ND		0.049		mg/Kg		06/13/25 10:44	06/18/25 23:52	1
Xylenes, Total	ND		0.097		mg/Kg		06/13/25 10:44	06/18/25 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*06/13/25 10:44*	*06/18/25 23:52*	*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]	**12**		9.6		mg/Kg		06/14/25 15:40	06/16/25 11:34	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		06/14/25 15:40	06/16/25 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*119*		*62 - 134*	*06/14/25 15:40*	*06/16/25 11:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59		mg/Kg		06/13/25 09:13	06/13/25 19:14	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH04-E2'

Date Collected: 06/11/25 15:20
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-7

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		4.9		mg/Kg		06/13/25 10:44	06/19/25 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 150*	*06/13/25 10:44*	*06/19/25 00:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 10:44	06/19/25 00:39	1
Ethylbenzene	ND		0.049		mg/Kg		06/13/25 10:44	06/19/25 00:39	1
Toluene	ND		0.049		mg/Kg		06/13/25 10:44	06/19/25 00:39	1
Xylenes, Total	ND		0.098		mg/Kg		06/13/25 10:44	06/19/25 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*06/13/25 10:44*	*06/19/25 00:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		06/14/25 15:40	06/16/25 11:45	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		06/14/25 15:40	06/16/25 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*06/14/25 15:40*	*06/16/25 11:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:13	06/13/25 19:28	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH04-E4'

Date Collected: 06/11/25 15:25
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-8

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		5.0		mg/Kg		06/13/25 10:44	06/19/25 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 150*	*06/13/25 10:44*	*06/19/25 01:03*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 10:44	06/19/25 01:03	1
Ethylbenzene	ND		0.050		mg/Kg		06/13/25 10:44	06/19/25 01:03	1
Toluene	ND		0.050		mg/Kg		06/13/25 10:44	06/19/25 01:03	1
Xylenes, Total	ND		0.10		mg/Kg		06/13/25 10:44	06/19/25 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 150*	*06/13/25 10:44*	*06/19/25 01:03*	*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		10		mg/Kg		06/14/25 15:40	06/16/25 11:56	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		06/14/25 15:40	06/16/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*119*		*62 - 134*	*06/14/25 15:40*	*06/16/25 11:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:14	06/13/25 19:41	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH05-S2'

Date Collected: 06/11/25 16:00
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-9

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		06/13/25 10:44	06/19/25 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 150*	*06/13/25 10:44*	*06/19/25 01:27*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 10:44	06/19/25 01:27	1
Ethylbenzene	ND		0.050		mg/Kg		06/13/25 10:44	06/19/25 01:27	1
Toluene	ND		0.050		mg/Kg		06/13/25 10:44	06/19/25 01:27	1
Xylenes, Total	ND		0.099		mg/Kg		06/13/25 10:44	06/19/25 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*15 - 150*	*06/13/25 10:44*	*06/19/25 01:27*	*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		9.8		mg/Kg		06/14/25 15:05	06/15/25 22:53	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		06/14/25 15:05	06/15/25 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*06/14/25 15:05*	*06/15/25 22:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:14	06/13/25 19:55	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH05-S4'

Date Collected: 06/11/25 16:05
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-10

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		4.9		mg/Kg		06/13/25 10:44	06/19/25 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 150*	*06/13/25 10:44*	*06/19/25 01:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 10:44	06/19/25 01:51	1
Ethylbenzene	ND		0.049		mg/Kg		06/13/25 10:44	06/19/25 01:51	1
Toluene	ND		0.049		mg/Kg		06/13/25 10:44	06/19/25 01:51	1
Xylenes, Total	ND		0.099		mg/Kg		06/13/25 10:44	06/19/25 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 150*	*06/13/25 10:44*	*06/19/25 01:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		06/14/25 15:05	06/15/25 23:04	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		06/14/25 15:05	06/15/25 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*06/14/25 15:05*	*06/15/25 23:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:14	06/13/25 20:08	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH06-W2'

Date Collected: 06/11/25 16:25
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-11

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		06/13/25 10:44	06/19/25 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*06/13/25 10:44*	*06/19/25 02:14*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 10:44	06/19/25 02:14	1
Ethylbenzene	ND		0.049		mg/Kg		06/13/25 10:44	06/19/25 02:14	1
Toluene	ND		0.049		mg/Kg		06/13/25 10:44	06/19/25 02:14	1
Xylenes, Total	ND		0.098		mg/Kg		06/13/25 10:44	06/19/25 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*	*06/13/25 10:44*	*06/19/25 02:14*	*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		9.3		mg/Kg		06/14/25 15:05	06/15/25 23:16	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		06/14/25 15:05	06/15/25 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*06/14/25 15:05*	*06/15/25 23:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:14	06/13/25 20:49	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH06-W4'

Date Collected: 06/11/25 16:45
Date Received: 06/13/25 06:45

Lab Sample ID: 885-26741-12

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		4.8		mg/Kg		06/13/25 10:44	06/19/25 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 150*	*06/13/25 10:44*	*06/19/25 02:38*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		06/13/25 10:44	06/19/25 02:38	1
Ethylbenzene	ND		0.048		mg/Kg		06/13/25 10:44	06/19/25 02:38	1
Toluene	ND		0.048		mg/Kg		06/13/25 10:44	06/19/25 02:38	1
Xylenes, Total	ND		0.097		mg/Kg		06/13/25 10:44	06/19/25 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 150*	*06/13/25 10:44*	*06/19/25 02:38*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		06/14/25 15:05	06/15/25 23:27	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		06/14/25 15:05	06/15/25 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*06/14/25 15:05*	*06/15/25 23:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/13/25 09:14	06/13/25 21:03	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

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

Lab Sample ID: MB 885-28229/1-A
Matrix: Solid
Analysis Batch: 28607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28229

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/13/25 06:39	06/18/25 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 150*	*06/13/25 06:39*	*06/18/25 18:20*	*1*

Lab Sample ID: LCS 885-28229/2-A
Matrix: Solid
Analysis Batch: 28607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28229

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	23.9		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*196*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28229/1-A
Matrix: Solid
Analysis Batch: 28618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28229

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/13/25 06:39	06/18/25 18:20	1
Ethylbenzene	ND		0.050		mg/Kg		06/13/25 06:39	06/18/25 18:20	1
Toluene	ND		0.050		mg/Kg		06/13/25 06:39	06/18/25 18:20	1
Xylenes, Total	ND		0.10		mg/Kg		06/13/25 06:39	06/18/25 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*	*06/13/25 06:39*	*06/18/25 18:20*	*1*

Lab Sample ID: LCS 885-28229/12-A
Matrix: Solid
Analysis Batch: 28618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28229

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.02		mg/Kg		102	70 - 130		
Ethylbenzene			1.00	0.999		mg/Kg		100	70 - 130		
m&p-Xylene			2.00	2.09		mg/Kg		104	70 - 130		
o-Xylene			1.00	1.00		mg/Kg		100	70 - 130		
Toluene			1.00	0.998		mg/Kg		100	70 - 130		
Xylenes, Total			3.00	3.09		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

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

Lab Sample ID: 885-26741-5 MS
Matrix: Solid
Analysis Batch: 28618

Client Sample ID: BH03-N2'
Prep Type: Total/NA
Prep Batch: 28229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.986	0.924		mg/Kg		94	70 - 130
Ethylbenzene	ND		0.986	0.913		mg/Kg		91	70 - 130
m&p-Xylene	ND		1.97	1.93		mg/Kg		98	70 - 130
o-Xylene	ND		0.986	0.916		mg/Kg		93	70 - 130
Toluene	ND		0.986	0.915		mg/Kg		93	70 - 130
Xylenes, Total	ND		2.96	2.85		mg/Kg		96	70 - 130

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

Lab Sample ID: 885-26741-5 MSD
Matrix: Solid
Analysis Batch: 28618

Client Sample ID: BH03-N2'
Prep Type: Total/NA
Prep Batch: 28229

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.992	0.939		mg/Kg		95	70 - 130	2	20
Ethylbenzene	ND		0.992	0.925		mg/Kg		92	70 - 130	1	20
m&p-Xylene	ND		1.98	1.96		mg/Kg		99	70 - 130	2	20
o-Xylene	ND		0.992	0.939		mg/Kg		95	70 - 130	2	20
Toluene	ND		0.992	0.930		mg/Kg		94	70 - 130	2	20
Xylenes, Total	ND		2.98	2.90		mg/Kg		98	70 - 130	2	20

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

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

Lab Sample ID: MB 885-28342/1-A
Matrix: Solid
Analysis Batch: 28345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28342

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/14/25 15:05	06/15/25 19:15	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/14/25 15:05	06/15/25 19:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*	*06/14/25 15:05*	*06/15/25 19:15*	*1*

Lab Sample ID: LCS 885-28342/2-A
Matrix: Solid
Analysis Batch: 28345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	51.3		mg/Kg		103	51 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*

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QC Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

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

Lab Sample ID: MB 885-28343/1-A
Matrix: Solid
Analysis Batch: 28345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28343

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		06/14/25 15:40	06/16/25 00:11	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		06/14/25 15:40	06/16/25 00:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*06/14/25 15:40*	*06/16/25 00:11*	*1*

Lab Sample ID: LCS 885-28343/2-A
Matrix: Solid
Analysis Batch: 28345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28343

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	51.0		mg/Kg		102	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*

Lab Sample ID: MB 885-28639/1-A
Matrix: Solid
Analysis Batch: 28634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28639

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		06/19/25 09:13	06/19/25 10:58	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		06/19/25 09:13	06/19/25 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*06/19/25 09:13*	*06/19/25 10:58*	*1*

Lab Sample ID: LCS 885-28639/2-A
Matrix: Solid
Analysis Batch: 28634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28639

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	48.4		mg/Kg		97	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*

Lab Sample ID: 885-26741-4 MS
Matrix: Solid
Analysis Batch: 28634

Client Sample ID: BH02-4'
Prep Type: Total/NA
Prep Batch: 28639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	910		49.6	1010	4	mg/Kg		183	44 - 136		

QC Sample Results

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

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

Lab Sample ID: 885-26741-4 MS
Matrix: Solid
Analysis Batch: 28634

Client Sample ID: BH02-4'
Prep Type: Total/NA
Prep Batch: 28639

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*139*	*S1+*	*62 - 134*

Lab Sample ID: 885-26741-4 MSD
Matrix: Solid
Analysis Batch: 28634

Client Sample ID: BH02-4'
Prep Type: Total/NA
Prep Batch: 28639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	910		47.9	899	4	mg/Kg		-33	44 - 136	11	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*132*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28239/1-A
Matrix: Solid
Analysis Batch: 28261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28239

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		06/13/25 09:13	06/13/25 12:05	1

Lab Sample ID: LCS 885-28239/2-A
Matrix: Solid
Analysis Batch: 28261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28239

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.8		mg/Kg		99	90 - 110		

Lab Sample ID: 885-26741-1 MS
Matrix: Solid
Analysis Batch: 28261

Client Sample ID: BH01-2'
Prep Type: Total/NA
Prep Batch: 28239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		29.8	ND		mg/Kg		NC	50 - 150		

Lab Sample ID: 885-26741-1 MSD
Matrix: Solid
Analysis Batch: 28261

Client Sample ID: BH01-2'
Prep Type: Total/NA
Prep Batch: 28239

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20

QC Association Summary

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

GC VOA

Prep Batch: 28229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-1	BH01-2'	Total/NA	Solid	5030C	
885-26741-2	BH01-4'	Total/NA	Solid	5030C	
885-26741-3	BH02-2'	Total/NA	Solid	5030C	
885-26741-4	BH02-4'	Total/NA	Solid	5030C	
885-26741-5	BH03-N2'	Total/NA	Solid	5030C	
885-26741-6	BH03-N4'	Total/NA	Solid	5030C	
885-26741-7	BH04-E2'	Total/NA	Solid	5030C	
885-26741-8	BH04-E4'	Total/NA	Solid	5030C	
885-26741-9	BH05-S2'	Total/NA	Solid	5030C	
885-26741-10	BH05-S4'	Total/NA	Solid	5030C	
885-26741-11	BH06-W2'	Total/NA	Solid	5030C	
885-26741-12	BH06-W4'	Total/NA	Solid	5030C	
MB 885-28229/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28229/12-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28229/2-A	Lab Control Sample	Total/NA	Solid	5030C	
885-26741-5 MS	BH03-N2'	Total/NA	Solid	5030C	
885-26741-5 MSD	BH03-N2'	Total/NA	Solid	5030C	

Analysis Batch: 28607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-1	BH01-2'	Total/NA	Solid	8015M/D	28229
885-26741-2	BH01-4'	Total/NA	Solid	8015M/D	28229
885-26741-3	BH02-2'	Total/NA	Solid	8015M/D	28229
885-26741-4	BH02-4'	Total/NA	Solid	8015M/D	28229
885-26741-5	BH03-N2'	Total/NA	Solid	8015M/D	28229
885-26741-6	BH03-N4'	Total/NA	Solid	8015M/D	28229
885-26741-7	BH04-E2'	Total/NA	Solid	8015M/D	28229
885-26741-8	BH04-E4'	Total/NA	Solid	8015M/D	28229
885-26741-9	BH05-S2'	Total/NA	Solid	8015M/D	28229
885-26741-10	BH05-S4'	Total/NA	Solid	8015M/D	28229
885-26741-11	BH06-W2'	Total/NA	Solid	8015M/D	28229
885-26741-12	BH06-W4'	Total/NA	Solid	8015M/D	28229
MB 885-28229/1-A	Method Blank	Total/NA	Solid	8015M/D	28229
LCS 885-28229/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28229

Analysis Batch: 28618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-1	BH01-2'	Total/NA	Solid	8021B	28229
885-26741-2	BH01-4'	Total/NA	Solid	8021B	28229
885-26741-3	BH02-2'	Total/NA	Solid	8021B	28229
885-26741-4	BH02-4'	Total/NA	Solid	8021B	28229
885-26741-5	BH03-N2'	Total/NA	Solid	8021B	28229
885-26741-6	BH03-N4'	Total/NA	Solid	8021B	28229
885-26741-7	BH04-E2'	Total/NA	Solid	8021B	28229
885-26741-8	BH04-E4'	Total/NA	Solid	8021B	28229
885-26741-9	BH05-S2'	Total/NA	Solid	8021B	28229
885-26741-10	BH05-S4'	Total/NA	Solid	8021B	28229
885-26741-11	BH06-W2'	Total/NA	Solid	8021B	28229
885-26741-12	BH06-W4'	Total/NA	Solid	8021B	28229
MB 885-28229/1-A	Method Blank	Total/NA	Solid	8021B	28229
LCS 885-28229/12-A	Lab Control Sample	Total/NA	Solid	8021B	28229

QC Association Summary

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

GC VOA (Continued)

Analysis Batch: 28618 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-5 MS	BH03-N2'	Total/NA	Solid	8021B	28229
885-26741-5 MSD	BH03-N2'	Total/NA	Solid	8021B	28229

GC Semi VOA

Prep Batch: 28342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-9	BH05-S2'	Total/NA	Solid	SHAKE	
885-26741-10	BH05-S4'	Total/NA	Solid	SHAKE	
885-26741-11	BH06-W2'	Total/NA	Solid	SHAKE	
885-26741-12	BH06-W4'	Total/NA	Solid	SHAKE	
MB 885-28342/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28342/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 28343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-2	BH01-4'	Total/NA	Solid	SHAKE	
885-26741-5	BH03-N2'	Total/NA	Solid	SHAKE	
885-26741-6	BH03-N4'	Total/NA	Solid	SHAKE	
885-26741-7	BH04-E2'	Total/NA	Solid	SHAKE	
885-26741-8	BH04-E4'	Total/NA	Solid	SHAKE	
MB 885-28343/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28343/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 28345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-9	BH05-S2'	Total/NA	Solid	8015M/D	28342
885-26741-10	BH05-S4'	Total/NA	Solid	8015M/D	28342
885-26741-11	BH06-W2'	Total/NA	Solid	8015M/D	28342
885-26741-12	BH06-W4'	Total/NA	Solid	8015M/D	28342
MB 885-28342/1-A	Method Blank	Total/NA	Solid	8015M/D	28342
MB 885-28343/1-A	Method Blank	Total/NA	Solid	8015M/D	28343
LCS 885-28342/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28342
LCS 885-28343/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28343

Analysis Batch: 28356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-2	BH01-4'	Total/NA	Solid	8015M/D	28343
885-26741-5	BH03-N2'	Total/NA	Solid	8015M/D	28343
885-26741-6	BH03-N4'	Total/NA	Solid	8015M/D	28343
885-26741-7	BH04-E2'	Total/NA	Solid	8015M/D	28343
885-26741-8	BH04-E4'	Total/NA	Solid	8015M/D	28343

Analysis Batch: 28634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-3	BH02-2'	Total/NA	Solid	8015M/D	28639
885-26741-4	BH02-4'	Total/NA	Solid	8015M/D	28639
MB 885-28639/1-A	Method Blank	Total/NA	Solid	8015M/D	28639
LCS 885-28639/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28639
885-26741-4 MS	BH02-4'	Total/NA	Solid	8015M/D	28639
885-26741-4 MSD	BH02-4'	Total/NA	Solid	8015M/D	28639

QC Association Summary

Client: Hilcorp Energy
Job ID: 885-26741-1
Project/Site: Canyon Largo Unit #472

GC Semi VOA

Prep Batch: 28639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-1	BH01-2'	Total/NA	Solid	SHAKE	
885-26741-3	BH02-2'	Total/NA	Solid	SHAKE	
885-26741-4	BH02-4'	Total/NA	Solid	SHAKE	
MB 885-28639/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28639/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-26741-4 MS	BH02-4'	Total/NA	Solid	SHAKE	
885-26741-4 MSD	BH02-4'	Total/NA	Solid	SHAKE	

Analysis Batch: 28706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-1	BH01-2'	Total/NA	Solid	8015M/D	28639

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Prep Batch: 28239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-1	BH01-2'	Total/NA	Solid	300_Prep	
885-26741-2	BH01-4'	Total/NA	Solid	300_Prep	
885-26741-3	BH02-2'	Total/NA	Solid	300_Prep	
885-26741-4	BH02-4'	Total/NA	Solid	300_Prep	
885-26741-5	BH03-N2'	Total/NA	Solid	300_Prep	
885-26741-6	BH03-N4'	Total/NA	Solid	300_Prep	
885-26741-7	BH04-E2'	Total/NA	Solid	300_Prep	
885-26741-8	BH04-E4'	Total/NA	Solid	300_Prep	
885-26741-9	BH05-S2'	Total/NA	Solid	300_Prep	
885-26741-10	BH05-S4'	Total/NA	Solid	300_Prep	
885-26741-11	BH06-W2'	Total/NA	Solid	300_Prep	
885-26741-12	BH06-W4'	Total/NA	Solid	300_Prep	
MB 885-28239/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28239/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-26741-1 MS	BH01-2'	Total/NA	Solid	300_Prep	
885-26741-1 MSD	BH01-2'	Total/NA	Solid	300_Prep	

Analysis Batch: 28261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26741-1	BH01-2'	Total/NA	Solid	300.0	28239
885-26741-2	BH01-4'	Total/NA	Solid	300.0	28239
885-26741-3	BH02-2'	Total/NA	Solid	300.0	28239
885-26741-4	BH02-4'	Total/NA	Solid	300.0	28239
885-26741-5	BH03-N2'	Total/NA	Solid	300.0	28239
885-26741-6	BH03-N4'	Total/NA	Solid	300.0	28239
885-26741-7	BH04-E2'	Total/NA	Solid	300.0	28239
885-26741-8	BH04-E4'	Total/NA	Solid	300.0	28239
885-26741-9	BH05-S2'	Total/NA	Solid	300.0	28239
885-26741-10	BH05-S4'	Total/NA	Solid	300.0	28239
885-26741-11	BH06-W2'	Total/NA	Solid	300.0	28239
885-26741-12	BH06-W4'	Total/NA	Solid	300.0	28239
MB 885-28239/1-A	Method Blank	Total/NA	Solid	300.0	28239
LCS 885-28239/2-A	Lab Control Sample	Total/NA	Solid	300.0	28239
885-26741-1 MS	BH01-2'	Total/NA	Solid	300.0	28239
885-26741-1 MSD	BH01-2'	Total/NA	Solid	300.0	28239

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH01-2'

Lab Sample ID: 885-26741-1

Date Collected: 06/11/25 14:00
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 06:40
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/18/25 21:06
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 06:40
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/18/25 21:06
Total/NA	Prep	SHAKE			28639	MI	EET ALB	06/19/25 09:13
Total/NA	Analysis	8015M/D		5	28706	EM	EET ALB	06/20/25 15:21
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:13
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 17:11

Client Sample ID: BH01-4'

Lab Sample ID: 885-26741-2

Date Collected: 06/11/25 14:15
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/18/25 21:30
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/18/25 21:30
Total/NA	Prep	SHAKE			28343	MI	EET ALB	06/14/25 15:40
Total/NA	Analysis	8015M/D		2	28356	MI	EET ALB	06/16/25 15:46
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:13
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 17:25

Client Sample ID: BH02-2'

Lab Sample ID: 885-26741-3

Date Collected: 06/11/25 14:30
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		5	28607	JP	EET ALB	06/18/25 21:54
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		5	28618	JP	EET ALB	06/18/25 21:54
Total/NA	Prep	SHAKE			28639	MI	EET ALB	06/19/25 09:13
Total/NA	Analysis	8015M/D		5	28634	MI	EET ALB	06/19/25 14:04
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:13
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 18:33

Client Sample ID: BH02-4'

Lab Sample ID: 885-26741-4

Date Collected: 06/11/25 14:40
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/18/25 22:17

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-26741-1
Project/Site: Canyon Largo Unit #472

Client Sample ID: BH02-4'
Lab Sample ID: 885-26741-4
Date Collected: 06/11/25 14:40
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/18/25 22:17
Total/NA	Prep	SHAKE			28639	MI	EET ALB	06/19/25 09:13
Total/NA	Analysis	8015M/D		2	28634	MI	EET ALB	06/19/25 13:20
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:13
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 18:47

Client Sample ID: BH03-N2'
Lab Sample ID: 885-26741-5
Date Collected: 06/11/25 15:00
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/18/25 22:41
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/18/25 22:41
Total/NA	Prep	SHAKE			28343	MI	EET ALB	06/14/25 15:40
Total/NA	Analysis	8015M/D		1	28356	MI	EET ALB	06/16/25 11:23
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:13
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 19:00

Client Sample ID: BH03-N4'
Lab Sample ID: 885-26741-6
Date Collected: 06/11/25 15:10
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/18/25 23:52
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/18/25 23:52
Total/NA	Prep	SHAKE			28343	MI	EET ALB	06/14/25 15:40
Total/NA	Analysis	8015M/D		1	28356	MI	EET ALB	06/16/25 11:34
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:13
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 19:14

Client Sample ID: BH04-E2'
Lab Sample ID: 885-26741-7
Date Collected: 06/11/25 15:20
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/19/25 00:39
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/19/25 00:39

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Canyon Largo Unit #472

Job ID: 885-26741-1

Client Sample ID: BH04-E2'

Lab Sample ID: 885-26741-7

Date Collected: 06/11/25 15:20
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			28343	MI	EET ALB	06/14/25 15:40
Total/NA	Analysis	8015M/D		1	28356	MI	EET ALB	06/16/25 11:45
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:13
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 19:28

Client Sample ID: BH04-E4'

Lab Sample ID: 885-26741-8

Date Collected: 06/11/25 15:25
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/19/25 01:03
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/19/25 01:03
Total/NA	Prep	SHAKE			28343	MI	EET ALB	06/14/25 15:40
Total/NA	Analysis	8015M/D		1	28356	MI	EET ALB	06/16/25 11:56
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:14
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 19:41

Client Sample ID: BH05-S2'

Lab Sample ID: 885-26741-9

Date Collected: 06/11/25 16:00
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/19/25 01:27
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/19/25 01:27
Total/NA	Prep	SHAKE			28342	MI	EET ALB	06/14/25 15:05
Total/NA	Analysis	8015M/D		1	28345	MI	EET ALB	06/15/25 22:53
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:14
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 19:55

Client Sample ID: BH05-S4'

Lab Sample ID: 885-26741-10

Date Collected: 06/11/25 16:05
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/19/25 01:51
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/19/25 01:51
Total/NA	Prep	SHAKE			28342	MI	EET ALB	06/14/25 15:05
Total/NA	Analysis	8015M/D		1	28345	MI	EET ALB	06/15/25 23:04

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-26741-1
Project/Site: Canyon Largo Unit #472

Client Sample ID: BH05-S4'
Lab Sample ID: 885-26741-10
Date Collected: 06/11/25 16:05
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:14
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 20:08

Client Sample ID: BH06-W2'
Lab Sample ID: 885-26741-11
Date Collected: 06/11/25 16:25
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/19/25 02:14
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/19/25 02:14
Total/NA	Prep	SHAKE			28342	MI	EET ALB	06/14/25 15:05
Total/NA	Analysis	8015M/D		1	28345	MI	EET ALB	06/15/25 23:16
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:14
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 20:49

Client Sample ID: BH06-W4'
Lab Sample ID: 885-26741-12
Date Collected: 06/11/25 16:45
Matrix: Solid
Date Received: 06/13/25 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8015M/D		1	28607	JP	EET ALB	06/19/25 02:38
Total/NA	Prep	5030C			28229	JE	EET ALB	06/13/25 10:44
Total/NA	Analysis	8021B		1	28618	JP	EET ALB	06/19/25 02:38
Total/NA	Prep	SHAKE			28342	MI	EET ALB	06/14/25 15:05
Total/NA	Analysis	8015M/D		1	28345	MI	EET ALB	06/15/25 23:27
Total/NA	Prep	300_Prep			28239	DL	EET ALB	06/13/25 09:14
Total/NA	Analysis	300.0		20	28261	RC	EET ALB	06/13/25 21:03

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Job ID: 885-26741-1
Project/Site: Canyon Largo Unit #472

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

Turn-Around Time:
5-Day TAT
☒ Standard ☐ Rush
Project Name: Canyon Largo Unit #472
Project #: DZA1988215
Project Manager: Zack Myers
Sampler: Aaron Lovato
On Ice: ☑ Yes ☐ No mojo
# of Coolers: 1
Cooler Temp (including CF): 3.1+0.2=3.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORA
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-26741 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)
6/11	1400	Soil	BH01-2'	4oz Jar			X	X					X			
6/11	1415	Soil	BH01-4'				X	X					X			
6/11	1430	Soil	BH02-2'				X	X					X			
6/11	1440	Soil	BH02-4				X	X					X			
6/11	1500	Soil	BH03-N2'				X	X					X			
6/11	1510	Soil	BH03-W4'				X	X					X			
6/11	1520	Soil	BH04-AL-E2'				X	X					X			
6/11	1525	Soil	BH04-AL-E4'				X	X					X			
6/11	1600	Soil	BH05-AL-S2'				X	X					X			
6/11	1605	Soil	BH05-AL-S4'				X	X					X			
6/11	1625	Soil	BH06-W2'				X	X					X			
6/11	1645	Soil	BH06-W4				X	X					X			

Date	Time	Relinquished by	Received by	Via:	Date	Time
6/12/25	1530				6/12/25	1530
6/12/25	1730			Via courier	6/13/25	0:45

Remarks:
CC: ZMyers shyde @ensolum.com
Wheichert

Analysis Request

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: 885-26741-1

Login Number: 26741 **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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/30/2025 5:43:35 PM

JOB DESCRIPTION

CLU 472

JOB NUMBER

885-29187-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

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7/30/2025 5:43:35 PM

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

Client: Hilcorp Energy
Project/Site: CLU 472

Laboratory Job ID: 885-29187-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: CLU 472

Job ID: 885-29187-1

Job ID: 885-29187-1 Eurofins Albuquerque

Job Narrative
885-29187-1

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

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

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

Receipt
The samples were received on 7/19/2025 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Gasoline Range Organics
Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: BH02 4-6 (885-29187-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-30775 and analytical batch 885-30888 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: BH02 4-6 (885-29187-1). Elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following sample required a dilution due to the nature of the sample matrix: BH02 4-6 (885-29187-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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: CLU 472

Job ID: 885-29187-1

Client Sample ID: BH02 4-6

Date Collected: 07/16/25 12:10
Date Received: 07/19/25 08:05

Lab Sample ID: 885-29187-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1400		46		mg/Kg		07/23/25 10:48	07/26/25 15:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*277*	*S1+*	*15 - 150*	*07/23/25 10:48*	*07/26/25 15:56*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.23		mg/Kg		07/23/25 10:48	07/26/25 15:56	10
Ethylbenzene	7.3		0.46		mg/Kg		07/23/25 10:48	07/26/25 15:56	10
Toluene	22		0.46		mg/Kg		07/23/25 10:48	07/26/25 15:56	10
Xylenes, Total	110		9.3		mg/Kg		07/23/25 10:48	07/28/25 20:07	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*		*15 - 150*	*07/23/25 10:48*	*07/26/25 15:56*	*10*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2100		99		mg/Kg		07/24/25 07:39	07/25/25 17:49	10
Motor Oil Range Organics [C28-C40]	ND	D	490		mg/Kg		07/24/25 07:39	07/25/25 17:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*07/24/25 07:39*	*07/25/25 17:49*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60		mg/Kg		07/23/25 13:54	07/24/25 14:15	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

Client Sample ID: BH02 8-10

Date Collected: 07/16/25 12:30
Date Received: 07/19/25 08:05

Lab Sample ID: 885-29187-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**4.8**		4.7		mg/Kg		07/23/25 10:48	07/28/25 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*15 - 150*	*07/23/25 10:48*	*07/28/25 19:43*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/23/25 10:48	07/26/25 16:20	1
Ethylbenzene	ND		0.047		mg/Kg		07/23/25 10:48	07/26/25 16:20	1
Toluene	ND		0.047		mg/Kg		07/23/25 10:48	07/26/25 16:20	1
Xylenes, Total	ND		0.095		mg/Kg		07/23/25 10:48	07/26/25 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*07/23/25 10:48*	*07/26/25 16:20*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		9.1		mg/Kg		07/24/25 07:39	07/25/25 18:00	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		07/24/25 07:39	07/25/25 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*07/24/25 07:39*	*07/25/25 18:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/23/25 13:54	07/24/25 14:29	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

Client Sample ID: BH02 13-15

Date Collected: 07/16/25 13:00
Date Received: 07/19/25 08:05

Lab Sample ID: 885-29187-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		07/23/25 10:48	07/26/25 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*07/23/25 10:48*	*07/26/25 16:43*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		07/23/25 10:48	07/26/25 16:43	1
Ethylbenzene	ND		0.046		mg/Kg		07/23/25 10:48	07/26/25 16:43	1
Toluene	ND		0.046		mg/Kg		07/23/25 10:48	07/26/25 16:43	1
Xylenes, Total	ND		0.093		mg/Kg		07/23/25 10:48	07/26/25 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*	*07/23/25 10:48*	*07/26/25 16:43*	*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		07/24/25 07:39	07/25/25 18:12	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		07/24/25 07:39	07/25/25 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*07/24/25 07:39*	*07/25/25 18:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/23/25 13:54	07/24/25 14:43	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

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

Lab Sample ID: MB 885-30701/1-A
Matrix: Solid
Analysis Batch: 30957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30701

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/23/25 10:48	07/26/25 07:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*07/23/25 10:48*	*07/26/25 07:41*	*1*

Lab Sample ID: LCS 885-30701/2-A
Matrix: Solid
Analysis Batch: 30957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30701

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	26.2		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*200*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-30701/1-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30701

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/23/25 10:48	07/26/25 07:41	1
Ethylbenzene	ND		0.050		mg/Kg		07/23/25 10:48	07/26/25 07:41	1
Toluene	ND		0.050		mg/Kg		07/23/25 10:48	07/26/25 07:41	1
Xylenes, Total	ND		0.10		mg/Kg		07/23/25 10:48	07/26/25 07:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*07/23/25 10:48*	*07/26/25 07:41*	*1*

Lab Sample ID: LCS 885-30701/3-A
Matrix: Solid
Analysis Batch: 30956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30701

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.922		mg/Kg		92	70 - 130		
Ethylbenzene			1.00	0.919		mg/Kg		92	70 - 130		
Toluene			1.00	0.931		mg/Kg		93	70 - 130		
Xylenes, Total			3.00	2.81		mg/Kg		94	70 - 130		

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

QC Sample Results

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

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

Lab Sample ID: MB 885-30775/1-A
Matrix: Solid
Analysis Batch: 30888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30775

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		07/24/25 07:39	07/25/25 10:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		07/24/25 07:39	07/25/25 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*07/24/25 07:39*	*07/25/25 10:29*	*1*

Lab Sample ID: LCS 885-30775/2-A
Matrix: Solid
Analysis Batch: 30888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	48.1		mg/Kg		96	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-30730/1-A
Matrix: Solid
Analysis Batch: 30774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30730

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		07/23/25 13:54	07/24/25 08:07	1

Lab Sample ID: LCS 885-30730/2-A
Matrix: Solid
Analysis Batch: 30774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30730

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	15.0		mg/Kg		100	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

GC VOA

Prep Batch: 30701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	5030C	
885-29187-2	BH02 8-10	Total/NA	Solid	5030C	
885-29187-3	BH02 13-15	Total/NA	Solid	5030C	
MB 885-30701/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-30701/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-30701/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 30956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	8021B	30701
885-29187-2	BH02 8-10	Total/NA	Solid	8021B	30701
885-29187-3	BH02 13-15	Total/NA	Solid	8021B	30701
MB 885-30701/1-A	Method Blank	Total/NA	Solid	8021B	30701
LCS 885-30701/3-A	Lab Control Sample	Total/NA	Solid	8021B	30701

Analysis Batch: 30957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	8015M/D	30701
885-29187-3	BH02 13-15	Total/NA	Solid	8015M/D	30701
MB 885-30701/1-A	Method Blank	Total/NA	Solid	8015M/D	30701
LCS 885-30701/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	30701

Analysis Batch: 31051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-2	BH02 8-10	Total/NA	Solid	8015M/D	30701

Analysis Batch: 31052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	8021B	30701

GC Semi VOA

Prep Batch: 30775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	SHAKE	
885-29187-2	BH02 8-10	Total/NA	Solid	SHAKE	
885-29187-3	BH02 13-15	Total/NA	Solid	SHAKE	
MB 885-30775/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-30775/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 30888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	8015M/D	30775
885-29187-2	BH02 8-10	Total/NA	Solid	8015M/D	30775
885-29187-3	BH02 13-15	Total/NA	Solid	8015M/D	30775
MB 885-30775/1-A	Method Blank	Total/NA	Solid	8015M/D	30775
LCS 885-30775/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	30775

QC Association Summary

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

HPLC/IC

Prep Batch: 30730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	300_Prep	
885-29187-2	BH02 8-10	Total/NA	Solid	300_Prep	
885-29187-3	BH02 13-15	Total/NA	Solid	300_Prep	
MB 885-30730/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-30730/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 30774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-29187-1	BH02 4-6	Total/NA	Solid	300.0	30730
885-29187-2	BH02 8-10	Total/NA	Solid	300.0	30730
885-29187-3	BH02 13-15	Total/NA	Solid	300.0	30730
MB 885-30730/1-A	Method Blank	Total/NA	Solid	300.0	30730
LCS 885-30730/2-A	Lab Control Sample	Total/NA	Solid	300.0	30730

Lab Chronicle

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

Client Sample ID: BH02 4-6

Lab Sample ID: 885-29187-1

Date Collected: 07/16/25 12:10

Matrix: Solid

Date Received: 07/19/25 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			30701	KLS	EET ALB	07/23/25 10:48
Total/NA	Analysis	8015M/D		10	30957	JP	EET ALB	07/26/25 15:56
Total/NA	Prep	5030C			30701	KLS	EET ALB	07/23/25 10:48
Total/NA	Analysis	8021B		10	30956	JP	EET ALB	07/26/25 15:56
Total/NA	Prep	5030C			30701	KLS	EET ALB	07/23/25 10:48
Total/NA	Analysis	8021B		100	31052	JP	EET ALB	07/28/25 20:07
Total/NA	Prep	SHAKE			30775	JM	EET ALB	07/24/25 07:39
Total/NA	Analysis	8015M/D		10	30888	EM	EET ALB	07/25/25 17:49
Total/NA	Prep	300_Prep			30730	RC	EET ALB	07/23/25 13:54
Total/NA	Analysis	300.0		20	30774	RC	EET ALB	07/24/25 14:15

Client Sample ID: BH02 8-10

Lab Sample ID: 885-29187-2

Date Collected: 07/16/25 12:30

Matrix: Solid

Date Received: 07/19/25 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			30701	KLS	EET ALB	07/23/25 10:48
Total/NA	Analysis	8015M/D		1	31051	JP	EET ALB	07/28/25 19:43
Total/NA	Prep	5030C			30701	KLS	EET ALB	07/23/25 10:48
Total/NA	Analysis	8021B		1	30956	JP	EET ALB	07/26/25 16:20
Total/NA	Prep	SHAKE			30775	JM	EET ALB	07/24/25 07:39
Total/NA	Analysis	8015M/D		1	30888	EM	EET ALB	07/25/25 18:00
Total/NA	Prep	300_Prep			30730	RC	EET ALB	07/23/25 13:54
Total/NA	Analysis	300.0		20	30774	RC	EET ALB	07/24/25 14:29

Client Sample ID: BH02 13-15

Lab Sample ID: 885-29187-3

Date Collected: 07/16/25 13:00

Matrix: Solid

Date Received: 07/19/25 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			30701	KLS	EET ALB	07/23/25 10:48
Total/NA	Analysis	8015M/D		1	30957	JP	EET ALB	07/26/25 16:43
Total/NA	Prep	5030C			30701	KLS	EET ALB	07/23/25 10:48
Total/NA	Analysis	8021B		1	30956	JP	EET ALB	07/26/25 16:43
Total/NA	Prep	SHAKE			30775	JM	EET ALB	07/24/25 07:39
Total/NA	Analysis	8015M/D		1	30888	EM	EET ALB	07/25/25 18:12
Total/NA	Prep	300_Prep			30730	RC	EET ALB	07/23/25 13:54
Total/NA	Analysis	300.0		20	30774	RC	EET ALB	07/24/25 14:43

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: CLU 472

Job ID: 885-29187-1

Laboratory: Eurofins Albuquerque

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-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: HEC

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 ☐ Rush

Project Name: CLU 472

Project #:

Project Manager: S. Hyde - Ensolum

Sampler: E. Carroll

On Ice: ☒ Yes ☐ No

# of Coolers: 1 (HUCK)

Cooler Temp(including CF): 3.4+0.2=3.6°C (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-29187 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)
7-16	1210	S	BH02 4-6	1 4oz	Cool		X	X					X			
7-16	1230	S	BH02 8-10	1 4oz	Cool		X	X					X			
7-16	1300	S	BH02 13-15	1 4oz	Cool		✓	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/18/25	1625				7/18/25	1625
7/18/25	1730		SCM	COURIER	7/19/25	0805

Remarks: CC: Shyde@ensolum.com
ecarroll@ensolum.com

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

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-29187-1

Login Number: 29187 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

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

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

QUESTIONS

Action 497860

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 497860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2514946582**
Incident Name	**NAPP2514946582 CANYON LARGO UNIT COM #472 @ 30-039-30001**
Incident Type	**Release Other**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-039-30001] CANYON LARGO UNIT COM #472**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CANYON LARGO UNIT COM #472
Date Release Discovered	05/27/2025
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Pit (Specify) | Condensate | Released: 42 BBL | Recovered: 20 BBL | Lost: 22 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 497860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: 08/20/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 497860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
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 1000 (ft.) and ½ (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)	110
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3500
GRO+DRO (EPA SW-846 Method 8015M)	3500
BTEX (EPA SW-846 Method 8021B or 8260B)	139.3
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	10/01/2025
On what date will (or did) the final sampling or liner inspection occur	10/01/2025
On what date will (or was) the remediation complete(d)	10/07/2025
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	1800
What is the estimated volume (in cubic yards) that will be remediated	500
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: 497860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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.)	Yes
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
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: 08/20/2025
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: 497860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 497860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**483892**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/16/2025**
What was the (estimated) number of samples that were to be gathered	**2**
What was the sampling surface area in square feet	**10**

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	No

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CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 497860
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation plan approved with the following conditions: If any chemical other than hydrogen peroxide is to be used during the soil shredding process, OCD is to be notified and the chemical is required to receive approval prior to its use. Take photographs of the treatment area showing the lined bermed area that will protect against runoff, should a significant precipitation event occur. Provide photographs of the excavated area pursuant to 19.15.29.12(E) NMAC. Ensure horizontal delineation is achieved during the remediation process. The variance is approved to submit samples for laboratory testing for BTEX and TPH only, as all of the delineation samples collected thus far show chloride concentrations well below reclamation standards. Submit remediation closure report to the OCD by 11/28/2025.	8/29/2025