

July 1, 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: Revised Remediation Work Plan San Juan 28-4 Unit 26A Hilcorp Energy Company NMOCD Incident No: nAPP2502156424

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Revised Remediation Work Plan* (Work Plan) for a release at the San Juan 28-4 Unit 26A natural gas production well (Site). The Site is located on United States Forest Service (USFS) land in Rio Arriba County, New Mexico, Unit I, Section 18, Township 28 North, Range 4 West (Figure 1). This Work Plan includes a summary of delineation activities conducted at the Site and the proposed remediation of impacted soil resulting from the release.

SITE BACKGROUND

On January 21, 2025, Hilcorp personnel discovered a release of 24 barrels (bbls) of condensate and 18 bbls of produced water at the Site. During a routine Audio, Visual, and Olfactory (AVO) inspection, a Hilcorp operator observed stained soil surrounding the condensate above-ground storage tank (AST). Upon further inspection a corrosion hole at the bottom of the AST was discovered to be the source of the release. The operator then shut off the oil dump line and gauged the tank, which was found to be empty. Fluids did not migrate horizontally outside of secondary containment; however, no fluids were recovered. Hilcorp submitted the *Notification of Release* to the New Mexico Oil Conservation Division (NMOCD) on January 21, 2025 and the Site was assigned NMOCD Incident Number nAPP2502156424. Hilcorp also notified the USFS and the Bureau of Land Management (BLM) on January 21, 2025.

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

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interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

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

The nearest significant watercourse, which is also identified as a wetland, to the Site is a dry wash located approximately 550 feet west of the well pad. This feature is a first order tributary to a watercourse represented by a dashed blue line on the USGS 7.5 minute quadrangle map. To assess Site-specific depth-to-groundwater, borehole BH01 was advanced on March 25, 2025, to a depth of 55 feet below ground surface (bgs). Upon completion of the borehole, a temporary well screen and casing were installed in the open borehole and allowed to equilibrate for 72 hours. A water-level indicator was used to assess for the presence or absence of groundwater on March 28, 2025. Groundwater was encountered in the borehole at a depth of 54.75 feet bgs, indicating the depth to groundwater beneath the Site is greater than 50 feet bgs. The nearest constructed freshwater well is NMOSE permitted well SJ-02385, located approximately 3.4 miles east of the Site with a recorded depth to water of 85 feet bgs. Additionally, two cathodic protection wells associated with natural gas production wells 30-039-25286 and 30-039-25431 are located 2,130 feet east and 2,610 feet north of the Site, respectively. Recorded depth to water in these wells is greater than 150 feet bgs. Depth to water documentation is provided in Appendix A.

The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake. 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 Bureau of Land Management). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

SITE CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- TPH as a combination of GRO and 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 January 31, 2025. A notification of sampling activities was submitted to the NMOCD prior to the delineation work and is attached as Appendix B. During delineation activities, an Ensolum geologist assessed the soil for petroleum hydrocarbon staining and odors. Soil samples were field screened for the presence of organic vapors using a calibrated photoionization detector (PID) and chloride concentrations with Hach[®] chloride test strips. Borehole HA01 was advanced immediately adjacent to the condensate aboveground storage tank or AST (source of the release) to evaluate the soil with the greatest potential impacts resulting from the release. This hand auger was advanced to 6 feet bgs where refusal was met on formation sandstone bedrock. Frozen ground outside the release footprint prevented advancement of additional boreholes to assess the lateral extents of impacts.

Based on field screening results, two soil samples from borehole HA01 were collected directly into laboratory-provided jars and immediately placed on ice. Soil samples were collected from depth intervals indicating the greatest impacts based on field screening results and from the terminal depth of the borehole. Soil descriptions were noted in the field book. Samples were submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of TPH following United States Environmental Protection Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0.

Analytical results indicated concentrations of BTEX and TPH in soil exceeded the applicable NMOCD Closure Criteria at depths of 0 to 1 feet and 6 feet bgs from borehole HA01. Photographs documenting delineation activities are provided in Appendix C.

Based on the initial laboratory analytical results, Ensolum conducted additional backhoe pothole delineation activities on February 27, 2025. Five pothole locations (PH01 through PH05) were advanced at the Site. During delineation activities, Ensolum personnel logged lithology and field screened soil in the same manner described above. All potholes were advanced to refusal on formation sandstone bedrock, with depths ranging from 6 feet to 8 feet bgs. Two soil samples were collected from each pothole in the manner described above and submitted to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico for analysis of BTEX, TPH, and chloride by the same methods described above.

One sample collected from PH01 from a depth of 7.5 feet bgs contained TPH and BTEX concentrations exceeding the applicable NMOCD Closure Criteria. Based on analytical results, all other samples collected on February 27, 2025, were in compliance with the NMOCD Table I Closure Criteria.

Due to shallow refusal on bedrock during hand auger and pothole delineation activities, Hilcorp retained Enviro-Drill, Inc. to advance six boreholes (BH01 through BH06) using hollow-stem auger drilling and sampling equipment at the Site. Sampling notifications were provided to the NMOCD prior to delineation work (Appendix B). Boreholes were advanced to depths ranging from 25 feet to 55 feet bgs. At least two samples were collected from each borehole, one from the highest field screening results, and one from the terminus of the borehole. Analytical results indicated COCs were either not detected above laboratory reporting limits or were detected at concentrations below the applicable NMOCD Table I Closure Criteria.

Soil delineation data, including PID field screening results, are summarized in Table 1 and on Figure 2. Photographs taken during delineation activities are provided in Appendix C. Complete laboratory reports are attached in Appendix D. Field boring logs for BH01 through BH06 are included as Appendix E.

ENSOLUM

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 depth of approximately 12 feet bgs. Analytical results also indicate impacted soil is likely limited to areas within and immediately surrounding the secondary containment berm with an approximate areal extent of 1,100 square feet. Based on these estimates, approximately 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 50 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 50 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 1-gallon, 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. Additionally, discrete surface soil samples will be collected from outside and within 5 feet of the excavation extent in order to confirm that contaminants have not laterally migrated outside of the recorded release extent. These discrete delineation samples will also be analyzed for TPH and BTEX constituents.

SCHEDULE

Within 90 days of NMOCD, USFS, 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 National Forest Service 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

Cc: National Forest Service

Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Delineation Soil Samples Map
- 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
- Appendix E: Field Boring Logs

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





FIGURES

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TABLES

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	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS San Juan 28-4 Unit 26A 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	NMOCD Closure Criteria for Soils Impacted by a Release		NE	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
HA01@0-1'	1/31/2025	0 - 1	1,996	1.7	130	19	66	217	4,500	330	<46.0	4,830	4,830	<60.0
HA01@6'	1/31/2025	6.0	1,904	17	560	40.0	130	747	10,000	450	<46.0	10,450	10,450	<60.0
PH01@7.5'	2/27/2025	7.5	1,579	29	649	38.9	132	849	5,470	634	<50.0	6,104	6,104	<20.0
PH02@2'	2/27/2025	2.0	23.1	<0.0250	0.0271	<0.0250	<0.0250	0.0271	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH02@6.5'	2/27/2025	6.5	7.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0	<20.0
PH03@6'	2/27/2025	6.0	3.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH03@8'	2/27/2025	8.0	1.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH04@4'	2/27/2025	4.0	38.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH04@7'	2/27/2025	7.0	50.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH05@2'	2/27/2025	2.0	7.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH05@6'	2/27/2025	6.0	34.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
BH01@15'	3/25/2025	15.0	1,919	<0.025	0.063	<0.050	0.29	0.353	72	15	<50	87	87	<60
BH01@20'	3/25/2025	20.0	2,358	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<48	<48	<48	<60
BH01@25'	3/25/2025	25.0	677.2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	10	<47	10	10	<60
BH02@20'	3/25/2025	20.0	13.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	<47	<60
BH02@30'	3/25/2025	30.0	7.8	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	27	<47	27	27	<60
BH03@10'	3/25/2025	10.0	23.6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	23	<48	23	23	<60
BH03@35'	3/25/2025	35.0	2.0	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	<48	<60
BH04@15'	3/25/2025	15.0	48.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	<48	<60
BH04@35'	3/26/2025	35.0	5.8	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.7	<49	<49	<49	<60
BH05@30'	3/26/2025	30.0	12.3	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	20	<48	20	20	<60
BH05@35'	3/26/2025	35.0	15.1	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	13	<45	13	13	<60
BH06@5'	3/26/2025	5.0	38.2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	26	<47	26	26	<60
BH06@25'	3/26/2025	25.0	6.9	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<47	<47	<47	<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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riller:	Rodney	Β.			North Co	ordinate: W	ell Materials:		
ogged E	By: O.F.				West Coo	rdinate: St	urface Completion:		
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41						v.fmed sand w/ some silt			
42	_								
43	_								
44	1126					Well graded sand w/ silt			
45		50-4"	50%	172.3	SW-SM	-tan, dry, no o/s, v.fmed sand,	some silt		
46	\square				ML	S:17 -red/brown, dry, no o/s, brittle,	non coh,		
47						non plst			
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50 -	\mathbb{N}	50.6"	50%	63.9	ML	Silt redish brown, dry, no o/s, britt	le		
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Date Sam Drilled By Driller:	Piled: 3/2 y: Enviro Rodney y: O.F.	25/25 - Dr:11	LU	Μ	Project La Project M Ground S	anager: S.Hyde urface Elevation: sing Elevation: ordinate:	BORING LOG NUMBER BHO1 Project No.: Borehole Diameter: 8" Casing Diameter: Well Materials: Surface Completion: Boring Method: H5A		
DEPTH (FEET)	SAMPLE	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION	
1 16		Contraction of the Contract							
2 27	+K>								
3 18	$\frac{1}{1}$								
4 4	1149								
5 49	\mathbb{N}	50-6"	30%	45.2	ML	5:11			
6 6				10.2	7.6	Red/brown, dry, no o/s, brittle, non coh/pist			
32-	+								
33									
34	+								
35	+								
36	+								
-37	+					-			
-38	+								
39 -	Ť.					2		-	
40-	I								
-41						a and a second			
42				-					
43									
-44 . -45-	+								
45									
47									
48									
49-									
-50-									

vived by OCD:	7/1/2025 2:55	:15 PM	•	#	226	30-0	39-25	Page 17 of 1
چې د اړ							39-07	
	DATA SI	HEET FOR DEI N			DIC.PR		•	
Operator_	Meridian	0,1		Location:	Unit/	<u>K</u> Sec. <u>/7</u>	_Twp <u>28</u> Rn	ig_ <u>-</u> 4
Name of N	Well/Wel	ls or Pipel	ine Servi	ced				· · ·
SAN	JUAN	28-4 #	226 4	#2				·
Elevatio	nCo	mpletion Da	te <u> 4/13 /9</u>	<u>5-</u> Total De	epth <u>4</u>	53 Land	Type <u>F</u>	
. 8. 20. 10. 2. 2. 1986 - 19 66		Sizes, Type					•	
		PUC. No gr	s, where	or boulder	S laster	instered .	Junio CI	SNE
If Casin	g String	s are cemen	ited, show	v amounts &	& types			
ASING	- Comon	ted with	21 ba	es Cant	est	·····		
If Cemen		tonite Plug	is have be	een placed	, show	depths 8	amounts	used
Bar Anther Bar	· .	ess of water	zones wi	ith descri	ption (of water:	: Fresh,	Clear,
		Etc. Non			-			
	•	<u></u>					· · ·	
Depths q	as encou	intered:	lowe					
		with type		of coke b	reeze	used:		
••	_			·				
Depths a	nodes pl	bASS 410, 3 Laced: 240	385,370, 32	5, 310, 300,	290,2	150,270,	2.60;250	y
		es placed:				m		ST COMPANY LINES
		rations: 🔬					EGEIN	/国门
Remarks:	}					······		
						ഫ	l Con.	1.111111

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

• • •

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number. Received by OCD: 7/1/2025 2:55:15 PM

	#201 30-039-25431
	
,	IND BED CATHODIC. PROTECTION WELLS STERN NEW MEXICO
Operator Meridian Oil INC.	Location: Unit <u>A</u> Sec. <u>18</u> Twp <u>28</u> Rng <u>04</u>
Name of Well/Wells.or Pipeline Ser	rviced
SAN JUAN 28-4 #201	
Elevation 7508 Completion Date	Total DepthLand Type /
to an it is the the the the	pths 3/22 SET 99 Of 8" PUC CASING.
and the second sec	te ENCOUNTERED During CASING.
	how amounts & types used CemenTed
WITH 19 SACKS.	men empres a cipes user <u>Contented</u> .
If Cement or Bentonite Plugs have	been placed, snow depths & amounts used
N-	<u>+</u>
Depths & thickness of water zones	with description of water: Fresh, Clear,
and the second	A - DAMP MAY BE AT 150'
Depths gas encountered: No	>
Ground bed depth with type & amou	ant of coke breeze used: 487' deep
with 6500 lbs	
	406,397,388,379,370,361,352,343,334,325
Depths vent pipes placed: 48	21/20
	TTOM 350 DERENNED
Remarks:	UN 1 1 1996 19
······	
If any of the above data is war	DIST. 3
logs, including Drillers Log, Wa	ailable, please indicate so. Copies of al ter Analyses & Well Bore Schematics shoul
be submitted when available. Un	plugged abandoned wells are to be include
Land Type may be shown: F-Feder	
If Federal or Indian, add Lease	Number.



APPENDIX B

Agency Correspondence

From:	Stuart Hyde
То:	Wes Weichert
Subject:	Fw: The Oil Conservation Division (OCD) has accepted the application, Application ID: 424641
Date:	Monday, January 27, 2025 10:59:18 AM

Stuart Hyde, PG

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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, January 24, 2025 4:27:48 PM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 424641

[**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#) nAPP2502156424.

The sampling event is expected to take place:

When: 01/31/2025 @ 09:00 **Where:** I-18-28N-04W 1750 FSL 530 FEL (36.65901,-107.28456)

Additional Information: Contact Pm- Stuart Hyde (970)403-6023

Additional Instructions: San Juan 28-4 Unit 26A (36.658808, -107.284805). Hand Auger delineation hand sampling. Number of samples is estimated.

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

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

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

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

Wes Weichert

From:	Stuart Hyde
Sent:	Thursday, February 20, 2025 10:32 AM
То:	Wes Weichert
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 433870



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

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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, February 20, 2025 10:24 AM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 433870

[**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#) nAPP2502156424.

The sampling event is expected to take place:

When: 02/27/2025 @ 09:00 Where: I-18-28N-04W 1750 FSL 530 FEL (36.65901,-107.28456)

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

Additional Instructions: San Juan 28-4 Unit 26A (30-039-27636). Coordinates of the site are 36.65878, - 107.28376. Delineation and Excavation Sampling

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

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

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

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
To:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 443037
Date:	Monday, March 17, 2025 11:04:17 AM

EXTERNAL EMAIL]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2502156424.

The sampling event is expected to take place:

When: 03/24/2025 @ 09:00 **Where:** I-18-28N-04W 1750 FSL 530 FEL (36.65901,-107.28456)

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

Additional Instructions: San Juan 28-4 #26A well pad, coordinates 36.65901,-107.28456

Sampling will take place on 3/24/2025 and 3/25/2025 starting at 9 AM each day.

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: 443931
Date:	Wednesday, March 19, 2025 12:47:56 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#) nAPP2502156424.

The sampling event is expected to take place:

When: 03/26/2025 @ 09:00 **Where:** I-18-28N-04W 1750 FSL 530 FEL (36.65901,-107.28456)

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

Additional Instructions: San Juan 28-4 #26A well pad, coordinates 36.65901,-107.28456

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

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

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

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



APPENDIX C

Photographic Log

Released to Imaging: 7/2/2025 1:28:01 PM





APPENDIX D

Laboratory Analytical Reports

Received by OCD: 7/1/2025 2:55:15 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Page 29 of 116

Attn: Kate Kaufman Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 2/12/2025 10:33:51 AM

JOB DESCRIPTION

San Juan 28-4 Unit 26A

JOB NUMBER

885-19169-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notos 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

Juhelle (parica

Generated 2/12/2025 10:33:51 AM

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

Laboratory Job ID: 885-19169-1

Table of Contents

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Client Sample Results	6
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	
Certification Summary	13
Chain of Custody	14
Receipt Checklists	15

Definitions/Glossary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A Job ID: 885-19169-1

Qualifiers

Quaimers		 3
GC VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
Glossary		 5
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	0
CNF	Contains No Free Liquid	Ο
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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 Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent

POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count TNTC

Case Narrative

Job ID: 885-19169-1

Client: Hilcorp Energy Project: San Juan 28-4 Unit 26A

Eurofins Albuquerque

Page 33 of 116

Job ID: 885-19169-1

Job Narrative 885-19169-1

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 2/1/2025 7:40 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 1.7°C.

Gasoline Range Organics

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 885-20298 and analytical batch 885-20239 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.

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.

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: HA01@ 0-1

Date Collected: 01/31/25 13:20

Date Received: 02/01/25 07:40

Client: Hilcorp Energy

Client Sample Results

Job ID: 885-19169-1

Lab Sample ID: 885-19169-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	4500		95	mg/Kg		02/04/25 09:52	02/06/25 16:56	20
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	192	S1+	35 - 166			02/04/25 09:52	02/06/25 16:56	20
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.7		0.48	mg/Kg		02/04/25 09:52	02/06/25 16:56	20
Ethylbenzene	19		0.95	mg/Kg		02/04/25 09:52	02/06/25 16:56	20
Toluene	130		9.5	mg/Kg		02/04/25 09:52	02/06/25 17:18	200
Xylenes, Total	66		1.9	mg/Kg		02/04/25 09:52	02/06/25 16:56	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			02/04/25 09:52	02/06/25 16:56	20
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	330		9.1	mg/Kg		02/04/25 14:09	02/04/25 21:24	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		02/04/25 14:09	02/04/25 21:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			02/04/25 14:09	02/04/25 21:24	1
	Chromotogram	hv						
Method: EPA 300.0 - Anions, Ion	Cinomatograp							
Method: EPA 300.0 - Anions, Ion Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Albuquerque

5

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: HA01@ 6

Client Sample Results

Job ID: 885-19169-1

Lab Sample ID: 885-19169-2 Matrix: Solid

Date Collected: 01/31/25 13:22 Date Received: 02/01/25 07:40

Client: Hilcorp Energy

_

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	10000		470	mg/Kg		02/04/25 09:52	02/06/25 16:35	100
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		35 - 166			02/04/25 09:52	02/06/25 16:35	100
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17		2.3	mg/Kg		02/04/25 09:52	02/06/25 16:35	100
Ethylbenzene	40		4.7	mg/Kg		02/04/25 09:52	02/06/25 16:35	100
Toluene	560		9.3	mg/Kg		02/04/25 09:52	02/07/25 11:55	200
Xylenes, Total	130		9.3	mg/Kg		02/04/25 09:52	02/06/25 16:35	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			02/04/25 09:52	02/06/25 16:35	100
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	450		9.2	mg/Kg		02/04/25 14:09	02/04/25 21:34	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		02/04/25 14:09	02/04/25 21:34	1
5 - 5 []								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	% Recovery 94	Qualifier	Limits 62 - 134			Prepared 02/04/25 14:09	Analyzed 02/04/25 21:34	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	94					· · · · · · · · · · · · · · · · · · ·		
Surrogate	94 Chromatograp			Unit	D	· · · · · · · · · · · · · · · · · · ·		

Released to Imaging: 7/2/2025 1:28:01 PM

QC Sample Results

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

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

Lab Sample ID: MB 885-20264/1-A								Client S	ample ID: Metho	d Blank
Matrix: Solid									Prep Type: 1	Total/N/
Analysis Batch: 20452									Prep Batch	n: 2026
	MB	MB								
Analyte	Result	Qualifier	RL		Unit		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/k	ζg	(02/04/25 09:52	02/06/25 16:13	
	MB	МВ								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fa
1-Bromofluorobenzene (Surr)	94		35 - 166				(02/04/25 09:52	02/06/25 16:13	
_ab Sample ID: LCS 885-20264/2-A							Cli	ent Sample	ID: Lab Control	Sample
Matrix: Solid									Prep Type: 1	Total/N
Analysis Batch: 20452									Prep Batch	
-			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits	
Gasoline Range Organics [C6 -			25.0	25.5		mg/Kg		102	70 - 130	
	LCS LCS	•								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	194		35 - 166

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

Lab Sample ID: MB 885-20298/1	- A									Client Sa	mple ID: Metho	d Blank
Matrix: Solid											Prep Type: 7	Fotal/NA
Analysis Batch: 20239											Prep Batcl	n: 2029 8
		ΜВ	MB									
Analyte	Re	sult	Qualifier	RL		Unit		D	P	repared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]		ND		10		mg/K	g	_	02/0	4/25 14:09	02/04/25 18:41	1
Motor Oil Range Organics [C28-C40]		ND		50		mg/K	g		02/04	4/25 14:09	02/04/25 18:41	
		ΜВ	МВ									
Surrogate	%Reco	very	Qualifier	Limits					P	repared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)		91		62 - 134					02/0	4/25 14:09	02/04/25 18:41	1
Matrix: Solid Analysis Batch: 20239				Spike	LCS	LCS					Prep Type: Prep Batcl %Rec	
Analyte				Added		Qualifier	Unit		D	%Rec	Limits	
				50.0	50.3		mg/Kg			101	60 - 135	
	LCS	LCS										
Diesel Range Organics [C10-C28] Surrogate	LCS %Recovery		lifier	Limits								
[C10-C28]			lifier	Limits 62 - 134								

Lab Sample ID: MB 885-20285/1-A Matrix: Solid							Client Sa	mple ID: Metho Prep Type: 1	
	Analysis Batch: 20268							Prep Batch	n: 20285
		MB	МВ						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	ND		3.0	mg/Kg		02/04/25 11:56	02/04/25 15:11	1

Eurofins Albuquerque
QC Sample Results

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

6

Job ID: 885-19169-1

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Method: 300.0 - Anions, Ion Chromatography (Continued) Lab Sample ID: LCS 885-20285/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 20268 Prep Batch: 20285 Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits Chloride 30.0 30.9 mg/Kg 103 90 - 110 Lab Sample ID: 885-19169-1 MS Client Sample ID: HA01@ 0-1 Matrix: Solid Prep Type: Total/NA Analysis Batch: 20268 Prep Batch: 20285 Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Chloride ND 29.7 71.6 mg/Kg NC 50 - 150 Lab Sample ID: 885-19169-1 MSD Client Sample ID: HA01@ 0-1

Matrix: Solid Analysis Batch: 20268										Type: To b Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	ND		29.8	71.8		mg/Kg		NC	50 - 150	0	20

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Method

5030C

5030C

5030C

5030C

Method

8015M/D

8015M/D

8015M/D

8015M/D

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

Client Sample ID

HA01@ 0-1

Method Blank

Lab Control Sample

Client Sample ID

HA01@ 0-1

HA01@ 6

Method Blank

Lab Control Sample

HA01@6

Prep Batch

Prep Batch

20264

20264

20264

20264

Job ID: 885-19169-1

7

Analysis Batch: 20453

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-19169-1	HA01@ 0-1	Total/NA	Solid	8021B	20264
885-19169-1	HA01@ 0-1	Total/NA	Solid	8021B	20264
885-19169-2	HA01@ 6	Total/NA	Solid	8021B	20264

Analysis Batch: 20491

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-19169-2	HA01@ 6	Total/NA	Solid	8021B	20264

GC Semi VOA

Analysis Batch: 20239

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-19169-1	HA01@ 0-1	Total/NA	Solid	8015M/D	20298
885-19169-2	HA01@ 6	Total/NA	Solid	8015M/D	20298
MB 885-20298/1-A	Method Blank	Total/NA	Solid	8015M/D	20298
LCS 885-20298/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	20298
Prep Batch: 20298					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-19169-1	HA01@ 0-1	Total/NA	Solid	SHAKE	

	p			
LCS 885-20298/2-A	Lab Control Sample	Total/NA	Solid	SHAKE
MB 885-20298/1-A	Method Blank	Total/NA	Solid	SHAKE
885-19169-2	HA01@ 6	Total/NA	Solid	SHAKE
885-19169-1	HA01@ 0-1	Total/NA	Solid	SHAKE

HPLC/IC

Analysis Batch: 20268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19169-1	HA01@ 0-1	Total/NA	Solid	300.0	20285
885-19169-2	HA01@ 6	Total/NA	Solid	300.0	20285
MB 885-20285/1-A	Method Blank	Total/NA	Solid	300.0	20285
LCS 885-20285/2-A	Lab Control Sample	Total/NA	Solid	300.0	20285
885-19169-1 MS	HA01@ 0-1	Total/NA	Solid	300.0	20285
885-19169-1 MSD	HA01@ 0-1	Total/NA	Solid	300.0	20285
Prep Batch: 20285					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-19169-1	HA01@ 0-1	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

GC VOA

885-19169-1

885-19169-2

MB 885-20264/1-A

LCS 885-20264/2-A

Lab Sample ID

885-19169-1

885-19169-2

MB 885-20264/1-A

LCS 885-20264/2-A

Analysis Batch: 20452

Prep Batch: 20264 Lab Sample ID

QC Association Summary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

HPLC/IC (Continued)

Prep Batch: 20285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19169-2	HA01@ 6	Total/NA	Solid	300_Prep	
MB 885-20285/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-20285/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-19169-1 MS	HA01@ 0-1	Total/NA	Solid	300_Prep	
885-19169-1 MSD	HA01@ 0-1	Total/NA	Solid	300_Prep	

Job ID: 885-19169-1

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: HA01@ 0-1

Date Collected: 01/31/25 13:20

Client: Hilcorp Energy

Job ID: 885-19169-1

Lab Sample ID: 885-19169-1

Matrix: Solid

5 6

8

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52	
Total/NA	Analysis	8015M/D		20	20452	AT	EET ALB	02/06/25 16:56	
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52	
Total/NA	Analysis	8021B		20	20453	AT	EET ALB	02/06/25 16:56	
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52	
Total/NA	Analysis	8021B		200	20453	AT	EET ALB	02/06/25 17:18	
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09	
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 21:24	
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56	
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 17:57	

Client Sample ID: HA01@ 6

Date Collected: 01/31/25 13:22 Date Received: 02/01/25 07:40

Lab Sample ID: 885-19169-2

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8015M/D		100	20452	AT	EET ALB	02/06/25 16:35
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		100	20453	AT	EET ALB	02/06/25 16:35
Total/NA	Prep	5030C			20264	JP	EET ALB	02/04/25 09:52
Total/NA	Analysis	8021B		200	20491	AT	EET ALB	02/07/25 11:55
Total/NA	Prep	SHAKE			20298	MI	EET ALB	02/04/25 14:09
Total/NA	Analysis	8015M/D		1	20239	MI	EET ALB	02/04/25 21:34
Total/NA	Prep	300_Prep			20285	ES	EET ALB	02/04/25 11:56
Total/NA	Analysis	300.0		20	20268	ES	EET ALB	02/04/25 18:28

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

Laboratory: Eurofins Albuquerque

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

for which the agenc Analysis Method 300.0 8015M/D 8015M/D 8015M/D 8021B	Progr	am	Identification Number	Expiration Date
Mexico	State		NM9425, NM0901	02-26-25
The following analytes	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This	list may include analyte
for which the agency of	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organic	s [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organio	cs [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
gon	NELA	P	NM100001	02-25-25

Job ID: 885-19169-1

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Container Type and #

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Page 14 of 15

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Level 4 (Full Validation)

Az Compliance

Accreditation: □ Standard

□ Other_

□ NELAC □ EDD (Type)

Project Manager:

email or Fax#: Khav From Allorp. Com

Phone #:

QA/QC Package.

Sampler: Refer Anderson

V Yes

On Ice:

of Coolers: 1

Cooler Temp(including CF): 1.6 +0.1= 1.7

Alln: Kate Kaufman

Client: HEC

Mailing Address:

28-4 Unit 26A

Sen Jues Project Name:

Project #:

C Rush

Standard

Turn-Around Time:

Chain-of-Custody Record

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 19169

List Number: 1 Creator: Casarrubias, Tracy

Answer	Comment
True	
N/A	
True	
True	
True	
True	
N/A	
	True True True True True True True True

List Source: Eurofins Albuquerque



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:

San Juan 28-4 #26A

Work Order: E502288

Job Number: 17051-0002

Received: 2/28/2025

Revision: 3

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 4/4/25

Stuart Hyde PO Box 61529 Houston, TX 77208

Project Name: San Juan 28-4 #26A Workorder: E502288 Date Received: 2/28/2025 1:08:00PM

Stuart Hyde,



Page 45 of 116

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2025 1:08:00PM, under the Project Name: San Juan 28-4 #26A.

The analytical test results summarized in this report with the Project Name: San Juan 28-4 #26A apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

		Sample Sum	mar y		
Hilcorp Energy Co		Project Name:	San Juan 28-4 #26A	1	Reported:
PO Box 61529		Project Number:	17051-0002		Reporteu.
Houston TX, 77208		Project Manager:	Stuart Hyde		04/04/25 09:10
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01@7.5	E502288-01A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH02@2	E502288-02A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH02@6.5	E502288-03A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH03@6	E502288-04A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH03@8	E502288-05A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH04@4	E502288-06A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH04@7	E502288-07A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH05@2	E502288-08A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.
PH05@6	E502288-09A	Soil	02/27/25	02/28/25	Glass Jar, 4 oz.



Project Name:	San	Juan 28-4 #26A			
Project Number	r: 1703	51-0002			Reported:
Project Manage	er: Stua	rt Hyde			4/4/2025 9:10:34AN
]	PH01@7.5				
	E502288-01				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	: BA		Batch: 2510001
29.0	2.50	100	03/03/25	03/03/25	
38.9	2.50	100	03/03/25	03/03/25	
649	2.50	100	03/03/25	03/03/25	
17.7	2.50	100	03/03/25	03/03/25	
114	5.00	100	03/03/25	03/03/25	
132	2.50	100	03/03/25	03/03/25	
1	90.4 %	70-130	03/03/25	03/03/25	
mg/kg	mg/kg	Analyst	: BA		Batch: 2510001
5470	2000	100	03/03/25	03/03/25	
!	93.2 %	70-130	03/03/25	03/03/25	
mg/kg	mg/kg	Analyst	: RAS		Batch: 2510004
634	25.0	1	03/03/25	03/03/25	
ND	50.0	1	03/03/25	03/03/25	
	404 %	61-141	03/03/25	03/03/25	<i>S5</i>
mg/kg	mg/kg	Analyst	: AK		Batch: 2510003
ND	20.0	1	03/03/25	03/03/25	
	Project Number Project Manage Result mg/kg 29.0 38.9 649 17.7 114 132 mg/kg 5470 mg/kg 634 ND	Project Number: 1702 Project Manager: Stat Project Manager: FH01@7.5 E502288-01 E502288-01 Result Limit mg/kg mg/kg mg/kg 2.50 649 2.50 649 2.50 114 5.00 132 2.50 90.4 % 900 mg/kg mg/kg mg/kg Mg/kg for a fight 2.50 132 2.50 634 2.50 Mg/kg Mg/kg mg/kg Mg/kg Mg/kg 5.00 50.0 50.0 MD 50.0 MD 50.0 Mg/kg Mg/kg	Project Number: 17051-0002 Project Manager: Stuart Hyde PH01@7.5 E502288-01 E502288-01 Dilution Result Limit Dilution mg/kg mg/kg Analyst 29.0 2.50 100 38.9 2.50 100 649 2.50 100 17.7 2.50 100 132 2.50 100 90.4 % 70-130 100 mg/kg mg/kg Analyst mg/kg mg/kg Analyst f634 25.0 1 MD 50.0 1 Mg/kg Mg/kg 1 Mg/kg Mg/kg Analyst	Project Number: 17051-0002 Stuart Hyde Project Manager: Stuart Hyde PH01@7.5 Esot2288-01 E502288-01 Dilution Prepared Result Limit Dilution Prepared Mg/kg mg/kg Analyst: Main (Main	Project Number: 17051-0002 Project Manager: Stuart Hyde PH01@7.5 E502288-01 E502288-01 Version (Construction) Result Limit Dilution Prepared Analyzed Mg/kg Mg/kg Analyst: Version Opposite <





Sample Data

	5	ampic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: Project Numbe Project Manag	er: 170:	Juan 28-4 #26A 51-0002 rt Hyde			Reported: 4/4/2025 9:10:34AM
		PH02@2				
		E502288-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	0.0271	0.0250	1	03/03/25	03/03/25	
p-Xylene	ND	0.0250	1	03/03/25	03/03/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Fotal Xylenes	ND	0.0250	1	03/03/25	03/03/25	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2510001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		111 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	



Sample Data

	50	ampie D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: Project Numbe Project Manag	er: 170:	Juan 28-4 #26A 51-0002 art Hyde			Reported: 4/4/2025 9:10:34AM
		 PH02@6.5	-			
		E502288-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
o-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
urrogate: 4-Bromochlorobenzene-PID		88.8 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2510001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	/kg Analyst: RAS			Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		112 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	

Sample Data

		ampic D	ata			
Hilcorp Energy Co	Project Name:	: San	Juan 28-4 #26A			
PO Box 61529	Project Numb	er: 170:	51-0002		Reported:	
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			4/4/2025 9:10:34AM
		PH03@6				
		E502288-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
p-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Fotal Xylenes	ND	0.0250	1	03/03/25	03/03/25	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2510001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		109 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	



Sample Data

		ampic D	ata			
Hilcorp Energy Co	Project Name:	: San	Juan 28-4 #26A			
PO Box 61529	Project Numb	er: 170	17051-0002			Reported:
Houston TX, 77208	Project Manag	ger: Stua	ırt Hyde			4/4/2025 9:10:34AM
		PH03@8				
		E502288-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
p-Xylene	ND	0.0250	1	03/03/25	03/03/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Fotal Xylenes	ND	0.0250	1	03/03/25	03/03/25	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2510001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		109 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	



Sample Data

	D.	ampic D	ata			
Hilcorp Energy Co	Project Name:	: San	Juan 28-4 #26A			
PO Box 61529	Project Numb	er: 170	17051-0002			Reported:
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			4/4/2025 9:10:34AM
		PH04@4				
		E502288-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
p-Xylene	ND	0.0250	1	03/03/25	03/03/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Fotal Xylenes	ND	0.0250	1	03/03/25	03/03/25	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2510001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: RAS		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		108 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	



Sample Data

	0	ampic D	ala			
Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name Project Numb Project Manaş	er: 170:	Juan 28-4 #26A 51-0002 .rt Hyde			Reported: 4/4/2025 9:10:34AM
		PH04@7				
		E502288-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
p-Xylene	ND	0.0250	1	03/03/25	03/03/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Fotal Xylenes	ND	0.0250	1	03/03/25	03/03/25	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2510001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		111 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	



Sample Data

	D	ampic D	ata			
Hilcorp Energy Co	Project Name	: San	Juan 28-4 #26A			
PO Box 61529	Project Numb	er: 1703	51-0002			Reported:
Houston TX, 77208	Project Manag	ger: Stua	ırt Hyde			4/4/2025 9:10:34AM
		PH05@2				
		E502288-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
p-Xylene	ND	0.0250	1	03/03/25	03/03/25	
o,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
urrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2510001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Dil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		114 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	



Sample Data

	D.	ampic D	ala			
Hilcorp Energy Co	Project Name:		Juan 28-4 #26A			
PO Box 61529	Project Numb		51-0002			Reported:
Houston TX, 77208	Project Manag	ger: Stua	rt Hyde			4/4/2025 9:10:34AM
		PH05@6				
		E502288-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2510001
Benzene	ND	0.0250	1	03/03/25	03/03/25	
Ethylbenzene	ND	0.0250	1	03/03/25	03/03/25	
Toluene	ND	0.0250	1	03/03/25	03/03/25	
p-Xylene	ND	0.0250	1	03/03/25	03/03/25	
p,m-Xylene	ND	0.0500	1	03/03/25	03/03/25	
Total Xylenes	ND	0.0250	1	03/03/25	03/03/25	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2510001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/03/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	03/03/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2510004
Diesel Range Organics (C10-C28)	ND	25.0	1	03/03/25	03/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/03/25	03/03/25	
Surrogate: n-Nonane		114 %	61-141	03/03/25	03/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AK		Batch: 2510003
Chloride	ND	20.0	1	03/03/25	03/03/25	



QC Summary Data

		$\mathbf{t} \in \mathcal{S}$		I y Date					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	17	n Juan 28-4 # 051-0002 uart Hyde	‡26A				Reported: 4/4/2025 9:10:34AM
,		Volatile O		•	21B				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ilig/kg	iiig/kg	mg/kg	iiig/kg	70	70	70	70	INOTES
Blank (2510001-BLK1)						1	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.08		8.00		76.0	70-130			
LCS (2510001-BS1)						1	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Benzene	4.69	0.0250	5.00		93.9	70-130			
Ethylbenzene	4.58	0.0250	5.00		91.7	70-130			
Toluene	4.67	0.0250	5.00		93.5	70-130			
o-Xylene	4.57	0.0250	5.00		91.4	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	13.9	0.0250	15.0		92.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.31		8.00		78.8	70-130			
LCS Dup (2510001-BSD1)						1	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Benzene	4.44	0.0250	5.00		88.7	70-130	5.65	20	
Ethylbenzene	4.35	0.0250	5.00		86.9	70-130	5.34	20	
Toluene	4.43	0.0250	5.00		88.5	70-130	5.44	20	
o-Xylene	4.38	0.0250	5.00		87.7	70-130	4.15	20	
p,m-Xylene	8.87	0.0500	10.0		88.7	70-130	5.00	20	
Total Xylenes	13.3	0.0250	15.0		88.3	70-130	4.72	20	
Surrogate: 4-Bromochlorobenzene-PID	6.41		8.00		80.1	70-130			



QC Summary Data

		QU L	/umm	ary Date	u				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number Project Manage	: 1	San Juan 28-4 # 7051-0002 Stuart Hyde	26A				Reported: 4/4/2025 9:10:34AM
	No	nhalogenated	Organics	by EPA 80	15D - G	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2510001-BLK1)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Gurrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			
LCS (2510001-BS2)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			
LCS Dup (2510001-BSD2)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130	0.334	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			



QC Summary Data

		QC D	u 111 111 (ary Data	u				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1	an Juan 28-4 # 7051-0002 Ituart Hyde	26A				Reported: 4/4/2025 9:10:34AM
	Nonh	alogenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2510004-BLK1)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.1		50.0		108	61-141			
LCS (2510004-BS1)							Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	53.8		50.0		108	61-141			
Matrix Spike (2510004-MS1)				Source:	E502288-	06	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	56-156			
Surrogate: n-Nonane	55.9		50.0		112	61-141			
Matrix Spike Dup (2510004-MSD1)				Source:	E502288-	06	Prepared: 0	3/03/25 A	analyzed: 03/03/25
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156	1.88	20	
Surrogate: n-Nonane	58.2		50.0		116	61-141			



QC Summary Data

		$\mathbf{z} \in \mathcal{D}$							
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:		San Juan 28-4 # 17051-0002 Stuart Hyde	26A				Reported: 4/4/2025 9:10:34AM
		Anions l	by EPA	300.0/9056A	4				Analyst: AK
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	6 6	6 6	00	0 0	,,,	,,,	,,,		
Blank (2510003-BLK1)							Prepared: 03	3/03/25	Analyzed: 03/03/25
Chloride	ND	20.0							
LCS (2510003-BS1)							Prepared: 03	3/03/25	Analyzed: 03/03/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2510003-MS1)				Source:	E502288-	04	Prepared: 03	3/03/25	Analyzed: 03/03/25
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2510003-MSD1)				Source:	E502288-	04	Prepared: 03	3/03/25	Analyzed: 03/03/25
Chloride	253	20.0	250	ND	101	80-120	0.00789	20	

QC Summary Report Comment:

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



Reported:
04/04/25 09:10

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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

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



Chain of Custody

Page _____ of _____

Received by OCD: 7/1/2025 2:55:15 PM

Index: Mail: Miscellaneous: Image:	Client Information					1.0	Invoice Information					1.55	L	Lab Use Only							TAT State				
Iddress: Phone: Sample Information	oject N	lame: Sø	n Ju	an i	28-4		-	Add	ress:	Attnska	the b		6 WO	# 288	5				2	1D	2D	3D Std			T TX
Image: Sample Information Image: I			5.005 1										-		273	Ana	alysis	and	Meth	od				EPA Prog	ram
Interviewed with the sample in the sample i		te, Zip:				_	_			2, hilcorp.	com						8						SDW.	A CWA	RCRA
Sample Information Time Sample Information Time Sample Information Time Sample ID		Shydes	D. one	NUM	com		-	Misc	ellaneous:	-		Ē	5	10									Compli	inneo I V	or N
650 2/17/65 301 1.402 PHO1@7.5 1 <td>nan.</td> <td>51.100</td> <td>2 4 0</td> <td></td> <td></td> <td></td> <td>-</td> <td>100.000</td> <td>AND PROPERTY</td> <td></td> <td>3.144 M</td> <td></td> <td>/ 801</td> <td>/ 801</td> <td>-</td> <td></td> <td>0.0</td> <td>-</td> <td>×</td> <td>sle</td> <td>Pkg</td> <td></td> <td>10.449/2010 10 2014</td> <td></td> <td></td>	nan.	51.100	2 4 0				-	100.000	AND PROPERTY		3.144 M		/ 801	/ 801	-		0.0	-	×	sle	Pkg		10.449/2010 10 2014		
650 2/17/65 301 1.402 PHO1@7.5 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Samp</td> <td>ole Infor</td> <td>matio</td> <td>1</td> <td></td> <td></td> <td></td> <td>RO by</td> <td>RO by</td> <td>/ 802</td> <td>8260</td> <td>e 300</td> <td>NN -</td> <td>05 - T</td> <td>Meta</td> <td>Vnion</td> <td></td> <td></td> <td></td> <td></td>						Samp	ole Infor	matio	1				RO by	RO by	/ 802	8260	e 300	NN -	05 - T	Meta	Vnion				
556 PHO202 Q Q Q Q 1554 PHO206.5 3 Q Q Q 1554 PHO206.5 3 Q Q Q 1550 PHO3006 Y Q Q Q Q 1650 PHO3006 Y Q Q Q Q Q 1650 PHO3008 S Q		Date Sample	d Matrix					5	Sample ID		Field	Lab Numbe	DRO/O	GRO/D	BTEX by	voc by	Chlorid	BGDOC	TCEQ 10	RCRA 8	Cation/#			Remarl	ks
ISS4 P Ho 2@ G · 5 3 1 1 ISS2 P Ho 3@ G Y Y Y Y Y ISS0 P Ho 3@ B 5 Y<	550	2/27/20	5 301/	1,	402	PHO	10	7.6	5			1	+	+	+		+								
ISS4 P Ho 2@ G.S 3 1 1 ISS2 PHo 3@ G Y Y Y Y Y ISS0 PHo 3@ B S Y	556											2											-		
1550 PH03@8 5 Image: state of the sample is ample in the sample in the sample location, date or time of collection is considered fraud and may be grounds for legal action. 546 PH04@9 B Image: state of the sample is ample in the sample in the sample in the sample location, date or time of collection is considered fraud and may be grounds for legal action. S44 A V V PH05@6 S44 A V V PH05@6 Colspan="2">Samples requiring themal preservation must be received on ice the day they isometer of the sample in the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring themal preservation must be received on ice the day they isometer of the sample of the day they isometer of the day they isometer of the sample of	1554			1		PHO	020	6.5				3					10								
1 PHO 4 @ 9 6 1 1 1546 PHO 4 @ 7 7 1 1 1546 PHO 6 @ 7 7 1 1 1544 PHO 5 @ 2 8 1 1 1542 V PHO 5 @ 2 8 1 1 1542 V PHO 5 @ 2 8 1 1 1542 V PHO 5 @ 2 8 1 1 1542 V PHO 5 @ 2 8 1 1 1542 V PHO 5 @ 2 9 1 1 16ditional Instructions: 1 1 1 1 1 1field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. mpled by: 1 <t< td=""><td>552</td><td></td><td></td><td></td><td></td><td>PH</td><td>036</td><td>CG</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	552					PH	036	CG				4													
IS46 PH04@7 7 Image: Second Sec	1550	al an		1		PH	030	98				5													
1549 PH05@2 8 1549 PH05@6 9 1542 PH05@6 9 1542 PH05@6 9 1542 PH05@6 9 1544 PH05@6 9 1544 PH05@6 9 1544 PH05@6 9 1545 9 1 1546 PH05@6 9 1547 PH05@6 9 1548 PH05@736 9 1548 PH05@6 9 1548 PH05@736 9 1548 PH05% 9	548					PH	040	29				6													
KH2 V V PHDSQL Q V<	1546					PHO	14 @	7(-12-3		7													
SH2 V V PHDSGG PHDSGG PHDSGG dditional Instructions: field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. mpled by: V	344	1			-12	PHO	66	22				8													
(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Interview of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Interview of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Interview of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they ampled or received packed in ice at an avg temp above 0 but less than 6 °C or the sample by: (Signature) Date Time Received by: (Signature) Date Time Lab Use Only	1542	V	2					100				9	V	V	V		4								
(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Impled by: <u>Feter Anothon</u> elinquished by: (Signature) Date Time Received by: (Signature) Date Time O7:36 elinquished by: (Signature) Date Time Received by: (Signature) Date Time Interview of the sample location is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they sample or received packed in ice at an avg temp above 0 but less than 6°C or the same of the sample of the sample of the sample of the same of the sample of the same of								1																	
Impled by: Iter Andrian Time Received by: (Signature) Date Time Samples requiring thermal preservation must be received on ice the day they sampled or received packed in ice at an avg temp above 0 but less than 6 °C or preservation elinquished by: Date Time Received by: (Signature) Date Time Samples requiring thermal preservation must be received on ice the day they sampled or received packed in ice at an avg temp above 0 but less than 6 °C or preservation elinquished by: Date Time Received by: Date Time elinquished by: (Signature) Date Time Lab Use Only	dditior	al Instruct	ions:																						
Bate Time Received by: (Signature) Date Time 2/38/35 07131 Exclos Carrad 2/38/35 07:36 Selinquished by: (Signature) Date Time 2/1000 Date Time			the validity a	nd auth	menticity of t	his sample.	l am awai	re that ta	mpering with or intentiona	Ily mislabeling t	he samp	le location,	date or	time of	fcollec	tion is a	conside	ered fra	aud and	may l	be grou	unds for lega	l action.		
Plinguished by: (Signature) Date Time Received by: (Signature) Date Time Lab Use Only			ture)								Date 21	128/25	Time		ı					15.111					
Elle carrol 2/08/15 1305 NOC Sato 2-28-25 1308 Received on ice: (V/N	elinquish	ied by: (Signa	ture)			125	Time 1309		Received by: (Signature)	Date Z-	28-25	Time	308	3			Rece	eived o	on ic	e:	Lab U			
elinquished by: (Signature) Date Time Received by: (Signature) Date Time T1 T2 T3					Date		Time				Date		Time					T1				T2		T3	
elinquished by: (Signature) Date Time Received by: (Signature) Date Time AVG Temp °C	elinquish	ned by: (Signa	ture)		Date		Time		Received by: (Signature)	Date		Time					AVG	Tem	o°c	4				
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											_														
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above so applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	of at 1	the cli	ent exp	ense	. The r	report for	he analy	sis of the ab	ove samples

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Hilcorp Energy Co Da	te Received:	02/28/25 13	3:08		Work Order ID:	E502288
Phone:	- Da	te Logged In:	02/28/25 13	3:21		Logged In By:	Noe Soto
Email:	shyde@ensolum.com Du	e Date:	03/03/25 1	7:00 (1 day TA	Г)		
Chain of	Custody (COC)						
l. Does tl	he sample ID match the COC?		Yes				
2. Does tl	he number of samples per sampling site location match t	he COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier	: Eric Carroll		
4. Was th	e COC complete, i.e., signatures, dates/times, requested	analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes			Commen	ts/Resolution
Sample 7	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes				
			103				
Sample C	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
-	e sample(s) received intact, i.e., not broken?						
	custody/security seals present?		Yes				
			No				
-	s, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling	eived w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4</u> °	<u>C</u>				
	<u>Container</u>						
	queous VOC samples present?		No				
	/OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample containers	collected?	Yes				
Field La							
	field sample labels filled out with the minimum information of the same set of	ation:	V				
	Sample ID? Date/Time Collected?		Yes				
	Collectors name?		No No				
	Preservation		110				
	the COC or field labels indicate the samples were preser	rved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved metal	ls?	No				
Multipha	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphase?		No				
	s, does the COC specify which phase(s) is to be analyzed	!?	NA				
	ract Laboratory						
	amples required to get sent to a subcontract laboratory?		No				
	a subcontract laboratory specified by the client and if so	who?		Subcontract I	ah: NA		
=>. mus t	a subsective fullowing spectrice by the energy and it so		11/1				

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



•



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 4/3/2025 9:03:50 AM

JOB DESCRIPTION

San Juan 28-4 Unit 26A

JOB NUMBER

885-22163-1

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Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109





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

Juhelle Garcia Authorized for release by

Michelle Garcia, Project Manager michelle.garcia@et.eurofinsus.com

(505)345-3975

Generated 4/3/2025 9:03:50 AM

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Definitions/Glossary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary Abbreviation

₽

%R

CFL

CFU

CNF

DER

DL

DLC

EDL

LOD

LOQ MCL

MDA

MDC

MDL

ML MPN

MQL

NC

ND NEG

POS

PQL

QC RER

RL

PRES

Dil Fac

DL, RA, RE, IN

Ich ID: 005 22162

Energy Job ID: 885-221	63-1
an Juan 28-4 Unit 26A	2
	3
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	4
Percent Recovery	
Contains Free Liquid	5
Colony Forming Unit	
Contains No Free Liquid	6
Duplicate Error Ratio (normalized absolute difference)	0
Dilution Factor	7
Detection Limit (DoD/DOE)	
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	0
Decision Level Concentration (Radiochemistry)	0
Estimated Detection Limit (Dioxin)	
Limit of Detection (DoD/DOE)	9
Limit of Quantitation (DoD/DOE)	10
EPA recommended "Maximum Contaminant Level"	10
Minimum Detectable Activity (Radiochemistry)	
Minimum Detectable Concentration (Radiochemistry)	11
Method Detection Limit	
Minimum Level (Dioxin)	
Most Probable Number	

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

Eurofins Albuquerque

Case Narrative

Job ID: 885-22163-1

Client: Hilcorp Energy Project: San Juan 28-4 Unit 26A

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Job ID: 885-22163-1

Eurofins Albuquerque

Job Narrative 885-22163-1

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 3/27/2025 7:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Gasoline Range Organics

No additional analytical or guality 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: Surrogate recovery for the following samples is outside the upper control limit: (CCV 885-23268/84) and (CCV 885-23268/87). Due to the high bias found in these CCV, associated samples with passing surrogate will be reported and any samples with hits for target analytes with high surrogate will be reran.

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.

Eurofins Albuquerque

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH01@15'

Client Sample Results

5

Job ID: 885-22163-1

Lab Sample ID: 885-22163-1 Matrix: Solid

Date Collected: 03/25/25 10:30 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	72		5.0	mg/Kg		03/27/25 13:09	04/02/25 01:56	1
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147		35 - 166			03/27/25 13:09	04/02/25 01:56	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/27/25 13:09	04/02/25 01:56	1
Ethylbenzene	ND		0.050	mg/Kg		03/27/25 13:09	04/02/25 01:56	1
Toluene	0.063		0.050	mg/Kg		03/27/25 13:09	04/02/25 01:56	1
Xylenes, Total	0.29		0.099	mg/Kg		03/27/25 13:09	04/02/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145			03/27/25 13:09	04/02/25 01:56	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15		9.9	mg/Kg		03/28/25 11:29	03/28/25 21:44	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/28/25 11:29	03/28/25 21:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			03/28/25 11:29	03/28/25 21:44	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH01@20'

Client Sample Results

Job ID: 885-22163-1

Lab Sample ID: 885-22163-2 Matrix: Solid

Date Collected: 03/25/25 10:39 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/27/25 13:09	04/02/25 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			03/27/25 13:09	04/02/25 02:17	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 02:17	1
Ethylbenzene	ND		0.047	mg/Kg		03/27/25 13:09	04/02/25 02:17	1
Toluene	ND		0.047	mg/Kg		03/27/25 13:09	04/02/25 02:17	1
Xylenes, Total	ND		0.095	mg/Kg		03/27/25 13:09	04/02/25 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			03/27/25 13:09	04/02/25 02:17	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
•	_ Result	Qualifier	<u></u> 9.7	Unit mg/Kg	<u> </u>	03/28/25 11:29	Analyzed 03/28/25 21:55	Dil Fac
Diesel Range Organics [C10-C28]		Qualifier			<u> </u>	· · ·		1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND		9.7	mg/Kg	D	03/28/25 11:29	03/28/25 21:55	
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	ND ND		9.7 48	mg/Kg	<u> </u>	03/28/25 11:29 03/28/25 11:29	03/28/25 21:55 03/28/25 21:55	1 Dil Fac
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND ND %Recovery 112	Qualifier	9.7 48 <i>Limits</i>	mg/Kg	<u> </u>	03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 21:55 03/28/25 21:55 Analyzed	
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	ND ND %Recovery 112 Chromatograp	Qualifier	9.7 48 <i>Limits</i>	mg/Kg	<u>D</u>	03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 21:55 03/28/25 21:55 Analyzed	1 1 Dil Fac

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH01@25'

Client Sample Results

Job ID: 885-22163-1

Lab Sample ID: 885-22163-3 Matrix: Solid

Date Collected: 03/25/25 10:46 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/27/25 13:09	04/02/25 02:39	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		35 - 166			03/27/25 13:09	04/02/25 02:39	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 02:39	
Ethylbenzene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 02:39	
Toluene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 02:39	
Xylenes, Total	ND		0.096	mg/Kg		03/27/25 13:09	04/02/25 02:39	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		48 - 145			03/27/25 13:09	04/02/25 02:39	
		ics (DRO) (03/27/25 13:09	04/02/25 02:39	
Method: SW846 8015M/D - Diese	l Range Organ	<mark>ics (DRO) (</mark> Qualifier		Unit	D	03/27/25 13:09 Prepared	04/02/25 02:39 Analyzed	Dil Fac
Method: SW846 8015M/D - Diese Analyte	l Range Organ		GC)	<mark>Unit</mark>	<u>D</u>			Dil Fac
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28]	I Range Organ		GC) RL		<u>D</u>	Prepared	Analyzed	
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	I Range Organ Result 10	Qualifier	GC) <u> RL</u> 9.5 	mg/Kg	<u>D</u>	Prepared 03/28/25 11:29	Analyzed	
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	I Range Organ 	Qualifier	GC) <u> RL</u> 9.5 47	mg/Kg	<u> </u>	Prepared 03/28/25 11:29 03/28/25 11:29	Analyzed 03/28/25 22:07 03/28/25 22:07	
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	I Range Organ Result 10 ND %Recovery 128	Qualifier	GC) <u>RL</u> 9.5 47 Limits	mg/Kg	<u>D</u>	Prepared 03/28/25 11:29 03/28/25 11:29 Prepared	Analyzed 03/28/25 22:07 03/28/25 22:07 Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	I Range Organ Result 10 ND %Recovery 128 Chromatograp	Qualifier	GC) <u>RL</u> 9.5 47 Limits	mg/Kg	D	Prepared 03/28/25 11:29 03/28/25 11:29 Prepared	Analyzed 03/28/25 22:07 03/28/25 22:07 Analyzed	Dil Fa

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Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH02@20'

Client Sample Results

Job ID: 885-22163-1

Lab Sample ID: 885-22163-4 Matrix: Solid

Date Collected: 03/25/25 13:01 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/27/25 13:09	04/02/25 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			03/27/25 13:09	04/02/25 03:22	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/27/25 13:09	04/02/25 03:22	1
Ethylbenzene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 03:22	1
Toluene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 03:22	1
Xylenes, Total	ND		0.098	mg/Kg		03/27/25 13:09	04/02/25 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			03/27/25 13:09	04/02/25 03:22	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
			, RL	11 14	D	Prepared	Analyzed	D11 E
Analyte	Result	Qualifier	RL	Unit		Tiopaloa	,, _	Dil Fac
-	_ Result ND	Qualifier	9.3	mg/Kg		03/28/25 11:29	03/28/25 22:19	1
Diesel Range Organics [C10-C28]		Qualifier				<u> </u>		
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND		9.3	mg/Kg		03/28/25 11:29	03/28/25 22:19	1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	ND ND		9.3 47	mg/Kg		03/28/25 11:29 03/28/25 11:29	03/28/25 22:19 03/28/25 22:19	1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND ND %Recovery 113	Qualifier	9.3 47 <i>Limits</i>	mg/Kg		03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 22:19 03/28/25 22:19 Analyzed	1 1 <i>Dil Fac</i>
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	ND ND %Recovery 113 Chromatograp	Qualifier	9.3 47 <i>Limits</i>	mg/Kg	D	03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 22:19 03/28/25 22:19 Analyzed	1 1 <i>Dil Fac</i>
Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH02@30'

Client Sample Results

5

Job ID: 885-22163-1

Lab Sample ID: 885-22163-5 Matrix: Solid

Date Collected: 03/25/25 13:16 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/27/25 13:09	04/02/25 03:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			03/27/25 13:09	04/02/25 03:44	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 03:44	1
Ethylbenzene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 03:44	1
Toluene	ND		0.048	mg/Kg		03/27/25 13:09	27/25 13:09 04/02/25 03:44	
Xylenes, Total	ND		0.095	mg/Kg		03/27/25 13:09	04/02/25 03:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			03/27/25 13:09	04/02/25 03:44	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
	• •	<mark>ics (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •		· ·	<mark>Unit</mark> mg/Kg	D	Prepared 03/28/25 11:29	Analyzed	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result				<u>D</u>			
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result	Qualifier		mg/Kg	<u>D</u>	03/28/25 11:29	03/28/25 22:31	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result 27 ND	Qualifier	RL 9.5 47	mg/Kg	<u> </u>	03/28/25 11:29 03/28/25 11:29	03/28/25 22:31 03/28/25 22:31	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result 27 ND %Recovery 117	Qualifier		mg/Kg	<u>D</u>	03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 22:31 03/28/25 22:31 Analyzed	1 1 Dil Fac
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result 27 ND <u>%Recovery</u> 117 Chromatograp	Qualifier		mg/Kg	D	03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 22:31 03/28/25 22:31 Analyzed	1 1 Dil Fac

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH03@10'

Client Sample Results

Job ID: 885-22163-1

Lab Sample ID: 885-22163-6 Matrix: Solid

Date Collected: 03/25/25 13:53 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/27/25 13:09	04/02/25 04:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			03/27/25 13:09	04/02/25 04:05	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/27/25 13:09	04/02/25 04:05	1
Ethylbenzene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 04:05	1
Toluene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 04:05	1
Xylenes, Total	ND		0.099	mg/Kg		03/27/25 13:09	04/02/25 04:05	1
Surrogate	%Recoverv	Qualifier	Limits			Prepared	Analyzed	Dil Fac
0	94		48 - 145			03/27/25 13:09	04/02/25 04:05	1
4-Bromofluorobenzene (Surr)		ics (DRO) (48 - 145			03/27/25 13:09		1
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese	I Range Organ	<mark>ics (DRO) (</mark> Qualifier	48 - 145	Unit	D	03/27/25 13:09 Prepared		1 Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese Analyte	I Range Organ		48 - 145 GC)	Unit mg/Kg	<u>D</u>		04/02/25 04:05	1 Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28]	I Range Organ Result		48 - 145 GC) RL		D	Prepared	04/02/25 04:05	
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	I Range Organ Result 23	Qualifier	48 - 145 GC) 	mg/Kg	<u> </u>	Prepared 03/28/25 11:29	04/02/25 04:05 Analyzed 03/28/25 22:42	1
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	I Range Organ Result 23 ND	Qualifier	48 - 145 GC) <u>RL</u> 9.5 48	mg/Kg	<u>D</u>	Prepared 03/28/25 11:29 03/28/25 11:29	04/02/25 04:05 Analyzed 03/28/25 22:42 03/28/25 22:42	1 1 Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	I Range Organ Result 23 ND %Recovery 114	Qualifier	48 - 145 GC) 9.5 48 Limits	mg/Kg	<u>D</u>	Prepared 03/28/25 11:29 03/28/25 11:29 Prepared	04/02/25 04:05 Analyzed 03/28/25 22:42 03/28/25 22:42 Analyzed	1
4-Bromofluorobenzene (Surr) Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	I Range Organ Result 23 ND %Recovery 114 Chromatograp	Qualifier	48 - 145 GC) 9.5 48 Limits	mg/Kg	D	Prepared 03/28/25 11:29 03/28/25 11:29 Prepared	04/02/25 04:05 Analyzed 03/28/25 22:42 03/28/25 22:42 Analyzed	1 1 Dil Fac

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH03@35'

Client Sample Results

5

Job ID: 885-22163-1

Lab Sample ID: 885-22163-7 Matrix: Solid

Date Collected: 03/25/25 14:33 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/27/25 13:09	04/02/25 04:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			03/27/25 13:09	04/02/25 04:27	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/27/25 13:09	04/02/25 04:27	1
Ethylbenzene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 04:27	1
Toluene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 04:27	1
Xylenes, Total	ND		0.098	mg/Kg		03/27/25 13:09	04/02/25 04:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			03/27/25 13:09	04/02/25 04:27	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (GC)					
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier		Unit mg/Kg	<u> </u>	Prepared 03/28/25 11:29	Analyzed 03/28/25 22:54	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result	Qualifier			<u>D</u>	· · ·		
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	_ ResultND	Qualifier Qualifier	9.5	mg/Kg	<u>D</u>	03/28/25 11:29	03/28/25 22:54	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result ND ND		9.5	mg/Kg	<u> </u>	03/28/25 11:29 03/28/25 11:29	03/28/25 22:54 03/28/25 22:54	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result ND ND %Recovery 103	Qualifier	9.5 48 <i>Limits</i>	mg/Kg	<u> </u>	03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 22:54 03/28/25 22:54 Analyzed	1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result ND ND %Recovery 103 Chromatograp	Qualifier	9.5 48 <i>Limits</i>	mg/Kg	<u>D</u>	03/28/25 11:29 03/28/25 11:29 Prepared	03/28/25 22:54 03/28/25 22:54 Analyzed	1 1 Dil Fac

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH04@15'

Client Sample Results

Job ID: 885-22163-1

Lab Sample ID: 885-22163-8 Matrix: Solid

Date Collected: 03/25/25 15:41 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/27/25 13:09	04/02/25 04:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		35 - 166			03/27/25 13:09	04/02/25 04:49	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 04:49	1
Ethylbenzene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 04:49	1
Toluene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 04:49	1
Xylenes, Total	ND		0.096	mg/Kg		03/27/25 13:09	04/02/25 04:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			03/27/25 13:09	04/02/25 04:49	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac
•	ND		9.7	mg/Kg		03/28/25 11:29	03/28/25 23:06	1
Diesel Range Organics [C10-C28]			9.7	mg/Kg mg/Kg		03/28/25 11:29 03/28/25 11:29	03/28/25 23:06 03/28/25 23:06	
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND	Qualifier		00				1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	ND ND	Qualifier	48	00		03/28/25 11:29	03/28/25 23:06	1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND ND %Recovery 109		48 Limits	00		03/28/25 11:29 Prepared	03/28/25 23:06 Analyzed	1 1 Dil Fac
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	ND ND %Recovery 109 Chromatograp		48 Limits	00		03/28/25 11:29 Prepared	03/28/25 23:06 Analyzed	1 1 Dil Fac

3-1 3-8 3-8 3-8 3-1 3-8 3-1 3-8 3-1 4 5 5 Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH04@35'

Client Sample Results

5

Job ID: 885-22163-1

Lab Sample ID: 885-22163-12 Matrix: Solid

Date Collected: 03/26/25 09:05 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/27/25 13:09	04/02/25 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			03/27/25 13:09	04/02/25 05:10	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 05:10	1
Ethylbenzene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 05:10	1
Toluene	ND		0.049	mg/Kg		03/27/25 13:09 04/02/25 05:10		1
Xylenes, Total	ND		0.097	mg/Kg		03/27/25 13:09	04/02/25 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			03/27/25 13:09	04/02/25 05:10	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
	• •	ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •		· ·	<mark>Unit</mark> mg/Kg	D	Prepared 03/28/25 11:31	Analyzed 03/28/25 23:18	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result				<u>D</u>	· · · · · · · · · · · · · · · · · · ·		
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	_ Result	Qualifier		mg/Kg	<u>D</u>	03/28/25 11:31	03/28/25 23:18	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result	Qualifier	RL 9.7 49	mg/Kg	<u> </u>	03/28/25 11:31 03/28/25 11:31	03/28/25 23:18 03/28/25 23:18	1
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion	Result ND ND %Recovery 108	Qualifier		mg/Kg	<u> </u>	03/28/25 11:31 03/28/25 11:31 Prepared	03/28/25 23:18 03/28/25 23:18 Analyzed	1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result ND ND %Recovery 108 Chromatograp	Qualifier		mg/Kg	<u>D</u>	03/28/25 11:31 03/28/25 11:31 Prepared	03/28/25 23:18 03/28/25 23:18 Analyzed	1 1 Dil Fac

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH05@30'

Client Sample Results

Job ID: 885-22163-1

Lab Sample ID: 885-22163-13

Date Collected: 03/26/25 10:38 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/27/25 13:09	04/02/25 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			03/27/25 13:09	04/02/25 05:32	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		03/27/25 13:09	04/02/25 05:32	1
Ethylbenzene	ND		0.047	mg/Kg		03/27/25 13:09	04/02/25 05:32	1
Toluene	ND		0.047	mg/Kg		03/27/25 13:09	04/02/25 05:32	1
Xylenes, Total	ND		0.093	mg/Kg		03/27/25 13:09	04/02/25 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			03/27/25 13:09	04/02/25 05:32	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		9.5	mg/Kg		03/28/25 11:31	03/28/25 23:41	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/28/25 11:31	03/28/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			03/28/25 11:31	03/28/25 23:41	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
	• •	-		11		Drenered	Amalymad	D!!
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5-22163-13 Matrix: Solid

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH05@35'

Client Sample Results

5

Job ID: 885-22163-1

Lab Sample ID: 885-22163-14 Matrix: Solid

Date Collected: 03/26/25 10:51 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/27/25 13:09	04/02/25 05:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			03/27/25 13:09	04/02/25 05:53	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 05:53	1
Ethylbenzene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 05:53	1
Toluene	ND		0.049	mg/Kg		03/27/25 13:09	04/02/25 05:53	1
Xylenes, Total	ND		0.098	mg/Kg		03/27/25 13:09	04/02/25 05:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			03/27/25 13:09	04/02/25 05:53	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
	•••	<mark>ics (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•••			<mark>Unit</mark> mg/Kg	D	Prepared 03/28/25 11:31	Analyzed 03/28/25 23:53	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result				<u>D</u>	· · ·		1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	_ Result			mg/Kg	<u> </u>	03/28/25 11:31	03/28/25 23:53	
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result 13 ND	Qualifier	RL 9.1 45	mg/Kg	<u> </u>	03/28/25 11:31 03/28/25 11:31	03/28/25 23:53 03/28/25 23:53	
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result 13 ND <i>%Recovery</i> 109	Qualifier		mg/Kg	D	03/28/25 11:31 03/28/25 11:31 Prepared	03/28/25 23:53 03/28/25 23:53 Analyzed	1 Dil Fac
Method: SW846 8015M/D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result 13 ND %Recovery 109 Chromatograp	Qualifier		mg/Kg	<u>D</u>	03/28/25 11:31 03/28/25 11:31 Prepared	03/28/25 23:53 03/28/25 23:53 Analyzed	1 1 Dil Fac

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Released to Imaging: 7/2/2025 1:28:01 PM

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH06@5'

Client Sample Results

5

Job ID: 885-22163-1

Lab Sample ID: 885-22163-15 Matrix: Solid

Date Collected: 03/26/25 11:28 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/27/25 13:09	04/02/25 06:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			03/27/25 13:09	04/02/25 06:15	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	l.					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 06:15	1
Ethylbenzene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 06:15	1
Toluene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 06:15	1
Kylenes, Total	ND		0.097	mg/Kg		03/27/25 13:09	04/02/25 06:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	91		48 - 145			03/27/25 13:09	04/02/25 06:15	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			9.4	mg/Kg		03/28/25 11:31	03/29/25 00:04	1
Diesel Range Organics [C10-C28]	ND		3.4	5 5				
	ND ND		47	mg/Kg		03/28/25 11:31	03/29/25 00:04	1
Motor Oil Range Organics [C28-C40]		Qualifier		0 0		03/28/25 11:31 Prepared	03/29/25 00:04 Analyzed	1 Dil Fac
Motor Oil Range Organics [C28-C40] Surrogate	ND	Qualifier	47	0 0				1 Dil Fac
Motor Oil Range Organics [C28-C40] <i>Surrogate</i> <i>Di-n-octyl phthalate (Surr)</i>	ND <u>%Recovery</u> 117		47 Limits	0 0		Prepared	Analyzed	
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	ND <u>%Recovery</u> 117 Chromatograp		47 Limits	0 0	D	Prepared	Analyzed	

Project/Site: San Juan 28-4 Unit 26A
Client Sample ID: BH06@25'

Client Sample Results

Job ID: 885-22163-1

Lab Sample ID: 885-22163-16

Date Collected: 03/26/25 12:00 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/27/25 13:09	04/02/25 06:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			03/27/25 13:09	04/02/25 06:36	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/27/25 13:09	04/02/25 06:36	1
Ethylbenzene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 06:36	1
Toluene	ND		0.048	mg/Kg		03/27/25 13:09	04/02/25 06:36	1
Xylenes, Total	ND		0.096	mg/Kg		03/27/25 13:09	04/02/25 06:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			03/27/25 13:09	04/02/25 06:36	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26		9.5	mg/Kg		03/28/25 11:31	03/29/25 00:16	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		03/28/25 11:31	03/29/25 00:16	1
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate		Qualifier	Limits 62 - 134			Prepared 03/28/25 11:31	Analyzed 03/29/25 00:16	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	121							-
Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	121 Chromatograp			Unit	D			-

5-22163-16 Matrix: Solid

QC Sample Results

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

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

_ Lab Sample ID: MB 885-23217/1-A									Client Sa	mple ID: Metho	od Blank
Matrix: Solid										Prep Type:	
Analysis Batch: 23544										Prep Batc	
	МВ	МВ									
Analyte	Result	Qualifier	RL		Uni	t	D	Р	repared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg	′Kg	_	03/2	27/25 13:09	04/01/25 21:35	1
	MB	МВ									
Surrogate	%Recovery	Qualifier	Limits					Р	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166					03/2	27/25 13:09	04/01/25 21:35	1
							~				0
Lab Sample ID: LCS 885-23217/2-A							C	lient	Sample	D: Lab Control	
Matrix: Solid										Prep Type:	
Analysis Batch: 23544										Prep Batc	h: 23217
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Gasoline Range Organics [C6 -			25.0	25.6		mg/Kg			102	70 - 130	
C10]											
	LCS LCS	6									
Surrogate %	Recovery Qua	alifier	Limits								
4-Bromofluorobenzene (Surr)	211		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-23217/1-A								Cli	ient Sa	mple ID: Metho	
Matrix: Solid										Prep Type: 1	
Analysis Batch: 23543										Prep Batch	1: 23217
	MB	MB									
Analyte	Result	Qualifier	RL		Unit		D	Prepa	ared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/K	g	03	3/27/25	5 13:09	04/01/25 21:35	1
Ethylbenzene	ND		0.050		mg/K	g	03	3/27/25	5 13:09	04/01/25 21:35	1
Toluene	ND		0.050		mg/K	g	03	3/27/25	5 13:09	04/01/25 21:35	1
Xylenes, Total	ND		0.10		mg/K	g	03	3/27/25	5 13:09	04/01/25 21:35	1
	МВ	МВ									
Surrogate	%Recovery	Qualifier	Limits					Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145				03	3/27/25	5 13:09	04/01/25 21:35	1
Lab Sample ID: LCS 885-23217/3-A							Clie	nt Sa	ample I	D: Lab Control	Sample
Matrix: Solid										Prep Type: 1	otal/NA
Analysis Batch: 23543										Prep Batch	n: 23217
-			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit		D %	Rec	Limits	
Benzene			1.00	0.994		mg/Kg			99	70 - 130	
Ethylbenzene			1.00	0.972		mg/Kg			97	70 - 130	
m&p-Xylene			2.00	1.96		mg/Kg			98	70 - 130	
o-Xylene			1.00	0.980		mg/Kg			98	70 - 130	
Toluene			1.00	0.973		mg/Kg			97	70 - 130	

Job ID: 885-22163-1

2.94

mg/Kg

98

70 - 130

QC Sample Results

RL

10

50

Limits

Spike

62 - 134

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

LCS LCS

D

Prepared

03/28/25 11:29

03/28/25 11:29

Prepared

03/28/25 11:29

92

D

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

Lab Sample ID: MB 885-23280/1-A

Matrix: Solid

Analyte

Surrogate

Matrix: Solid

Analysis Batch: 23268

Di-n-octyl phthalate (Surr)

Analysis Batch: 23268

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C28-C40]

Lab Sample ID: LCS 885-23280/2-A

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

Job ID: 885-22163-1

Prep Type: Total/NA

Prep Batch: 23280

Dil Fac

Dil Fac

1

1

1

6

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23280

Client Sample ID: Method Blank

Analyzed

03/28/25 19:23

03/28/25 19:23

Analyzed

03/28/25 19:23

Prep Batch: 23280
% Poc

Prep	Batch:	23280	
%Rec			

6Rec			

	%Rec	
%Rec	Limits	

60 - 135

Analyte	Add	ed Result	Qualifier
Diesel Range Organics	50	0.0 45.9	
[C10-C28]			
	LCS LCS		

MB MB

MB MB

%Recovery Qualifier

105

ND

ND

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	96		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-23258/1-A Matrix: Solid Analysis Batch: 23272										Client Sa	ample ID: M Prep Ty Prep		tal/NA
		MB MB											
Analyte	R	esult Qualifier		RL		Unit		D	P	repared	Analyze	d	Dil Fac
Chloride		ND		3.0		mg/K	g		03/2	8/25 08:29	03/28/25 1	1:21	1
Lab Sample ID: LCS 885-23258/2-A								Cli	ent	Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 23272											Prep	Batch:	23258
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			30.0		30.0		mg/Kg		_	100	90 - 110		
Lab Sample ID: 885-22163-1 MS										Clien	t Sample I	D: BH0	1@15'
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 23272											Prep	Batch:	23258
	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	ND		29.9		ND		mg/Kg		_	NC	50 - 150		
Lab Sample ID: 885-22163-1 MSD										Clien	t Sample I	D: BH0	1@15'
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 23272												Batch:	
	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	ND		30.2		ND		mg/Kg		_	NC	50 - 150	NC	20

QC Sample Results

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A Job ID: 885-22163-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

ab Sample ID: 885-22163-2 MS Iatrix: Solid								Clie	nt Sample Prep 1	ID: BH0 [·] ype: To		
analysis Batch: 23272	Sample	Sample	Spike	MS	MS				Prep %Rec	Batch:	23258	
nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
hloride	ND		29.9	ND		mg/Kg		NC	50 - 150			
ab Sample ID: 885-22163-2 MSD								Clie	nt Sample	ID: BH0	1@20'	
atrix: Solid									Prep 1	ype: To	tal/NA	
nalysis Batch: 23272									Prep	Batch:	23258	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
alyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
loride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20	

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Released to Imaging: 7/2/2025 1:28:01 PM

QC Association Summary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

Prep Batch: 23217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22163-1	BH01@15'	Total/NA	Solid	5030C	
885-22163-2	BH01@20'	Total/NA	Solid	5030C	
885-22163-3	BH01@25'	Total/NA	Solid	5030C	
885-22163-4	BH02@20'	Total/NA	Solid	5030C	
885-22163-5	BH02@30'	Total/NA	Solid	5030C	
885-22163-6	BH03@10'	Total/NA	Solid	5030C	
885-22163-7	BH03@35'	Total/NA	Solid	5030C	
885-22163-8	BH04@15'	Total/NA	Solid	5030C	
885-22163-12	BH04@35'	Total/NA	Solid	5030C	
885-22163-13	BH05@30'	Total/NA	Solid	5030C	
885-22163-14	BH05@35'	Total/NA	Solid	5030C	
885-22163-15	BH06@5'	Total/NA	Solid	5030C	
885-22163-16	BH06@25'	Total/NA	Solid	5030C	
MB 885-23217/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-23217/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-23217/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 23543

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-22163-1	BH01@15'	Total/NA	Solid	8021B	23217
885-22163-2	BH01@20'	Total/NA	Solid	8021B	23217
885-22163-3	BH01@25'	Total/NA	Solid	8021B	23217
885-22163-4	BH02@20'	Total/NA	Solid	8021B	23217
885-22163-5	BH02@30'	Total/NA	Solid	8021B	23217
885-22163-6	BH03@10'	Total/NA	Solid	8021B	23217
885-22163-7	BH03@35'	Total/NA	Solid	8021B	23217
885-22163-8	BH04@15'	Total/NA	Solid	8021B	23217
885-22163-12	BH04@35'	Total/NA	Solid	8021B	23217
885-22163-13	BH05@30'	Total/NA	Solid	8021B	23217
885-22163-14	BH05@35'	Total/NA	Solid	8021B	23217
885-22163-15	BH06@5'	Total/NA	Solid	8021B	23217
885-22163-16	BH06@25'	Total/NA	Solid	8021B	23217
MB 885-23217/1-A	Method Blank	Total/NA	Solid	8021B	23217
LCS 885-23217/3-A	Lab Control Sample	Total/NA	Solid	8021B	23217

Analysis Batch: 23544

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-22163-1	BH01@15'	Total/NA	Solid	8015M/D	23217
885-22163-2	BH01@20'	Total/NA	Solid	8015M/D	23217
885-22163-3	BH01@25'	Total/NA	Solid	8015M/D	23217
885-22163-4	BH02@20'	Total/NA	Solid	8015M/D	23217
885-22163-5	BH02@30'	Total/NA	Solid	8015M/D	23217
885-22163-6	BH03@10'	Total/NA	Solid	8015M/D	23217
885-22163-7	BH03@35'	Total/NA	Solid	8015M/D	23217
885-22163-8	BH04@15'	Total/NA	Solid	8015M/D	23217
885-22163-12	BH04@35'	Total/NA	Solid	8015M/D	23217
885-22163-13	BH05@30'	Total/NA	Solid	8015M/D	23217
885-22163-14	BH05@35'	Total/NA	Solid	8015M/D	23217
885-22163-15	BH06@5'	Total/NA	Solid	8015M/D	23217
885-22163-16	BH06@25'	Total/NA	Solid	8015M/D	23217
MB 885-23217/1-A	Method Blank	Total/NA	Solid	8015M/D	23217

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QC Association Summary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

GC VOA (Continued)

Analysis Batch: 23544 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCS 885-23217/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	23217

GC Semi VOA

Analysis Batch: 23268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22163-1	BH01@15'	Total/NA	Solid	8015M/D	23280
885-22163-2	BH01@20'	Total/NA	Solid	8015M/D	23280
885-22163-3	BH01@25'	Total/NA	Solid	8015M/D	23280
885-22163-4	BH02@20'	Total/NA	Solid	8015M/D	23280
885-22163-5	BH02@30'	Total/NA	Solid	8015M/D	23280
885-22163-6	BH03@10'	Total/NA	Solid	8015M/D	23280
885-22163-7	BH03@35'	Total/NA	Solid	8015M/D	23280
885-22163-8	BH04@15'	Total/NA	Solid	8015M/D	23280
885-22163-12	BH04@35'	Total/NA	Solid	8015M/D	23280
885-22163-13	BH05@30'	Total/NA	Solid	8015M/D	23280
885-22163-14	BH05@35'	Total/NA	Solid	8015M/D	23280
885-22163-15	BH06@5'	Total/NA	Solid	8015M/D	23280
885-22163-16	BH06@25'	Total/NA	Solid	8015M/D	23280
MB 885-23280/1-A	Method Blank	Total/NA	Solid	8015M/D	23280
LCS 885-23280/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	23280

Prep Batch: 23280

Prep Batch	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
	SHAKE	Solid	Total/NA	BH01@15'	885-22163-1
	SHAKE	Solid	Total/NA	BH01@20'	885-22163-2
	SHAKE	Solid	Total/NA	BH01@25'	885-22163-3
	SHAKE	Solid	Total/NA	BH02@20'	885-22163-4
	SHAKE	Solid	Total/NA	BH02@30'	885-22163-5
	SHAKE	Solid	Total/NA	BH03@10'	885-22163-6
	SHAKE	Solid	Total/NA	BH03@35'	885-22163-7
	SHAKE	Solid	Total/NA	BH04@15'	885-22163-8
	SHAKE	Solid	Total/NA	BH04@35'	885-22163-12
	SHAKE	Solid	Total/NA	BH05@30'	885-22163-13
	SHAKE	Solid	Total/NA	BH05@35'	885-22163-14
	SHAKE	Solid	Total/NA	BH06@5'	885-22163-15
	SHAKE	Solid	Total/NA	BH06@25'	885-22163-16
	SHAKE	Solid	Total/NA	Method Blank	MB 885-23280/1-A
	SHAKE	Solid	Total/NA	Lab Control Sample	LCS 885-23280/2-A

HPLC/IC

Prep Batch: 23258

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-22163-1	BH01@15'	Total/NA	Solid	300_Prep	
885-22163-2	BH01@20'	Total/NA	Solid	300_Prep	
885-22163-3	BH01@25'	Total/NA	Solid	300_Prep	
885-22163-4	BH02@20'	Total/NA	Solid	300_Prep	
885-22163-5	BH02@30'	Total/NA	Solid	300_Prep	
885-22163-6	BH03@10'	Total/NA	Solid	300_Prep	
885-22163-7	BH03@35'	Total/NA	Solid	300_Prep	
885-22163-8	BH04@15'	Total/NA	Solid	300_Prep	

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QC Association Summary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

HPLC/IC (Continued)

Prep Batch: 23258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22163-12	BH04@35'	Total/NA	Solid	300_Prep	
885-22163-13	BH05@30'	Total/NA	Solid	300_Prep	
885-22163-14	BH05@35'	Total/NA	Solid	300_Prep	
885-22163-15	BH06@5'	Total/NA	Solid	300_Prep	
885-22163-16	BH06@25'	Total/NA	Solid	300_Prep	
MB 885-23258/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-23258/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-22163-1 MS	BH01@15'	Total/NA	Solid	300_Prep	
885-22163-1 MSD	BH01@15'	Total/NA	Solid	300_Prep	
885-22163-2 MS	BH01@20'	Total/NA	Solid	300_Prep	
885-22163-2 MSD	BH01@20'	Total/NA	Solid	300_Prep	

Analysis Batch: 23272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22163-1	BH01@15'	Total/NA	Solid	300.0	23258
885-22163-2	BH01@20'	Total/NA	Solid	300.0	23258
885-22163-3	BH01@25'	Total/NA	Solid	300.0	23258
885-22163-4	BH02@20'	Total/NA	Solid	300.0	23258
885-22163-5	BH02@30'	Total/NA	Solid	300.0	23258
885-22163-6	BH03@10'	Total/NA	Solid	300.0	23258
885-22163-7	BH03@35'	Total/NA	Solid	300.0	23258
885-22163-8	BH04@15'	Total/NA	Solid	300.0	23258
885-22163-12	BH04@35'	Total/NA	Solid	300.0	23258
885-22163-13	BH05@30'	Total/NA	Solid	300.0	23258
885-22163-14	BH05@35'	Total/NA	Solid	300.0	23258
885-22163-15	BH06@5'	Total/NA	Solid	300.0	23258
885-22163-16	BH06@25'	Total/NA	Solid	300.0	23258
MB 885-23258/1-A	Method Blank	Total/NA	Solid	300.0	23258
LCS 885-23258/2-A	Lab Control Sample	Total/NA	Solid	300.0	23258
885-22163-1 MS	BH01@15'	Total/NA	Solid	300.0	23258
885-22163-1 MSD	BH01@15'	Total/NA	Solid	300.0	23258
885-22163-2 MS	BH01@20'	Total/NA	Solid	300.0	23258
885-22163-2 MSD	BH01@20'	Total/NA	Solid	300.0	23258

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Job ID: 885-22163-1

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH01@15'

Job ID: 885-22163-1

Lab Sample ID: 885-22163-1 Matrix: Solid

Date Collected: 03/25/25 10:30 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 01:56
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 01:56
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 21:44
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 11:48

Client Sample ID: BH01@20'

Date Collected: 03/25/25 10:39 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 02:17
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 02:17
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 21:55
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 12:29

Client Sample ID: BH01@25'

Date Collected: 03/25/25 10:46 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 02:39
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 02:39
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 22:07
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 13:10

Client Sample ID: BH02@20'

Date Collected: 03/25/25 13:01 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 03:22

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Lab Sample ID: 885-22163-2

Lab Sample ID: 885-22163-3

Lab Sample ID: 885-22163-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH02@20'

Job ID: 885-22163-1

Lab Sample ID: 885-22163-4

Lab Sample ID: 885-22163-5

Matrix: Solid

Matrix: Solid

Date Collected: 03/25/25 13:01 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 03:22
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 22:19
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 13:24

Client Sample ID: BH02@30'

Date Collected: 03/25/25 13:16 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 03:44
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 03:44
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 22:31
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 14:05

Client Sample ID: BH03@10' Date Collected: 03/25/25 13:53 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 04:05
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 04:05
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 22:42
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 14:18

Client Sample ID: BH03@35'

Date Collected: 03/25/25 14:33 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 04:27
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 04:27

Eurofins Albuquerque

5 8

Lab Sample ID: 885-22163-6

Matrix: Solid

Lab Sample ID: 885-22163-7 Matrix: Solid Project/Site: San Juan 28-4 Unit 26A Client Sample ID: BH03@35'

Job ID: 885-22163-1

Lab Sample ID: 885-22163-7

Lab Sample ID: 885-22163-8

Matrix: Solid

Matrix: Solid

Date Collected: 03/25/25 14:33 Date Received: 03/27/25 07:10

Client: Hilcorp Energy

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 22:54
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 14:32

Client Sample ID: BH04@15' Date Collected: 03/25/25 15:41

Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 04:49
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 04:49
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:29
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 23:06
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 14:45

Client Sample ID: BH04@35' Date Collected: 03/26/25 09:05

Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 05:10
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 05:10
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:31
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 23:18
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 14:59

Client Sample ID: BH05@30'

Date Collected: 03/26/25 10:38 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 05:32
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 05:32
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:31
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 23:41

Lab Sample ID: 885-22163-12 Matrix: Solid

Lab Sample ID: 885-22163-13

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Matrix: Solid

8

Project/Site: San Juan 28-4 Unit 26A

Client Sample ID: BH05@30'

Client Sample ID: BH05@35' Date Collected: 03/26/25 10:51

Date Received: 03/27/25 07:10

Batch

Туре

Prep

Analysis

Batch

300.0

Method

300_Prep

Date Collected: 03/26/25 10:38

Date Received: 03/27/25 07:10

Client: Hilcorp Energy

Prep Type

Total/NA

Total/NA

Lab Chronicle

Dilution

Factor

20

Run

Batch

Number Analyst

23258 DL

23272 RC

Lab

EET ALB

EET ALB

Job ID: 885-22163-1

Matrix: Solid

Lab Sample ID: 885-22163-14 Matrix: Solid

Lab Sample ID: 885-22163-15

Lab Sample ID: 885-22163-16

Matrix: Solid

Matrix: Solid

8

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 05:53
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 05:53
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:31
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/28/25 23:53
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 15:26

Client Sample ID: BH06@5' Date Collected: 03/26/25 11:28

Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 06:15
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 06:15
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:31
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/29/25 00:04
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 15:40

Client Sample ID: BH06@25'

Date Collected: 03/26/25 12:00 Date Received: 03/27/25 07:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8015M/D		1	23544	AT	EET ALB	04/02/25 06:36
Total/NA	Prep	5030C			23217	AT	EET ALB	03/27/25 13:09
Total/NA	Analysis	8021B		1	23543	AT	EET ALB	04/02/25 06:36
Total/NA	Prep	SHAKE			23280	EM	EET ALB	03/28/25 11:31
Total/NA	Analysis	8015M/D		1	23268	MI	EET ALB	03/29/25 00:16
Total/NA	Prep	300_Prep			23258	DL	EET ALB	03/28/25 08:29
Total/NA	Analysis	300.0		20	23272	RC	EET ALB	03/28/25 15:54

Eurofins Albuquerque

or Analyzed 03/28/25 08:29 03/28/25 15:13

Prepared

Lab Sample ID: 885-22163-13

Job ID: 885-22163-1

Lab Chronicle

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

Laboratory References:

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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: San Juan 28-4 Unit 26A

Laboratory: Eurofins Albuquerque

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

ority	Progr	am	Identification Number	Expiration Date
Mexico	State		NM9425, NM0901	02-27-26
The following analytes	s are included in this report, bu	ut the laboratory is not certi	ied by the governing authority. This	list may include analyte
for which the agency	loes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organi	cs [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics	[C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organi	cs [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
on	NELA	Р	NM100001	02-26-26

Job ID: 885-22163-1

Client:	hain: Hilcor		ustody Record	Stand	5 dQiy ard □ Rush)												of o ITA	L
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Mailing	Address	s:		- San Juo	.n 28-4 Unit	· 26A		4901	Hawk							M 871		斟	iç Z
Phone	#:			Project #:		······································			505-3		975		Fax	505-	345-	4107		35-2216	3 COC
email o	r Fax#:	mkilloug	h@hilcorp.com	Project Ma	-		1)	0				SO4			nt)				
QA/QC⊺ □ Stan	Package: Idard		□ Level 4 (Full Validation)		tuart Hyde hyde@ensolum.co	əm	TMB's (8021)	/ DRO / MRO		or 8270SIMS		NO ₂ , PO ₄ , S			nt/Abse				
Accredi	tation:	🗆 Az Co	ompliance	Sampler:	Osgood Fraelic	ch	IMB	/ DR	÷	827		40 ₂ ,			esei		2		
			f	On Ice:	_⊒-Yes	□ No		RO	504.1)) or	s			(Yo	P_		HOLD		
) (1ype) 			# of Cooler	and the second	Moso .440.2>1.6 (°C)	MTBE		pod bod	831(Aeta	N	A)	ni-V	form				
Thete	Time	Matrix	Sample Name	Container	Preservative		BTEX) N	TPH.8015D(GRO / DR 8081 Doctodoc/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	CIJF, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)		r lace o		
Date 3/25/25	Time 1030	Matrix 50:1	Sample Name	Type and 4 oz, one			\mathbb{N}			<u> </u>	R	\bigotimes	80	8	<u> </u>				
≝_∕	1039		Вноге 13	102, One	on ice		P	\mathcal{A}	-			彴							
9 \	1046	+	Вноге 25'	+ $-$				\rightarrow	_	 		$\left \right\rangle$							
		<u>├</u>		<u> </u>				-/ -				$ \downarrow$							
- <i> </i>	1301		BH02@20'	├($ \rangle$					$ \downarrow $					_		
(1316	┝──	BH02@30'		<u>}</u>		/	-/ -	_			$ \downarrow $					_	_	
	1353	<u> </u>	BH03@10'	<u> </u>			$ \downarrow $	+	_			\square						_	
-/	1433	/	BH03@35'									1							
	1541	<u> </u>	вночеть				1	1				1							
3/25/25	1055	501)	BH01@30'	Hoz, one	on ice		\mathbf{X}	\triangleleft				\times					$\overline{\mathbf{X}}$		
3/25/25	1108		BH01@35'				\bowtie	\mathbf{X}				\square					<[
3/25/25	1149		BH01@55'		1		\bowtie	\mathbf{X}				\square					ХТ	1-	
Date 44 3/26/25 4 Date 3/2/2	Time 1636 Time	Relinquist Relinquist	e é	Received by	W Waw	Date Time $\frac{3}{24}/25$ 1636 Date Time 3/27/25 7! 10	-		shyde (ofroeli							K			•

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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. 10

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Client:	Hilcorp		ustody Record	- 5,005 ⊠ Standard Project Nam		I				A	NN.	AL	.YS	519	5 L	A	30	1en Ra ⁻		
Mailing	Address	<u> </u>			28-4 Unit	26A							llenv							
				Project #:			-							-	-		M 87			
Phone #	<u> </u>							<u> </u> Te	el. 50)5-34	15-3	CONSIGNATION OF	F Snaly	COMPANY NO.	-	a lot at his section of	-4107 •	, 		
		mkillount	n @ hilcorp.com	Project Man	ader:												i F T			1
	Package:				.rt Hyde		021)	(A)	S		S		, SO4			sen				
□ Stan	-		□ Level 4 (Full Validation)	Shy	de @ensolum c	om	TMB's (8021)	/ DRO / MRO	PCB's		OSIM		PO4,			Coliform (Present/Absent)			-	
Accredi	tation:	🗆 Az Co	ompliance	Sampler: C	sgood Froelic	h	IMB	/DR	082	÷.	827(NO ₂ ,			esel				
		□ Othe	r	and the second se	/ Yes	D No	-	NS NS	ss/8	504	O	<u>0</u>			(Yo	(Pr				
	(Type)	T	1	# of Coolers		Moro	MTBE	Ø	icide	por	331C	leta	N	2	≻́-i	orm				
	1			Cooler Temp	O(Including CF):	1.4+0.2>1.6 (°C)	\sim	0151	Pest	Meth	by 8	8 2	Ъ,	NO/	(Semi-VOA)	Colif			1	
Date	Time	Matrix	Sample Name	Container	Preservative Type	HEAL No.	BTEX	TPH:8015DGRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI) F, Br, NO ₃ ,	8260 (VOA)	8270 (Total (
3/26/25		Soil	Вноч@35'	4 oz, one	onjice		$\mathbf{\nabla}$	$\overline{\mathbf{X}}$			<u>u</u> .	<u> </u>	\mathbb{X}	<u></u>						┢─
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	1051	\uparrow	BH05@35'		+ /	·····							$\left(\right)$				+			
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7	1200	<u> </u>	BH06@ 25'		1			1					1							
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3/20/25	U.	1/4	Mut Doele ubmitted to Hall Environmental may be su		round	3 27/25-7!10	}									_				

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Job Number: 885-22163-1

List Source: Eurofins Albuquerque

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 22163 List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

11



APPENDIX E

Field Boring Logs

Released to Imaging: 7/2/2025 1:28:01 PM

No. and Anna

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₽	EN	ISO	LU	Μ	Project Na Project Lo		BHO1		
					Project M		Project No.:		
		25/2025			Ground S	urface Elevation:	Borehole Diamet	er: 8"	
	: Envir				Top of Ca	sing Elevation:	Casing Diameter	: 2"	
riller:		y Begay			North Coo	ordinate: 36° 39.528'	Well Materials:	DVC	
ogged B	y: O.Fre	elich			West Coor	rdinate: 107"17.093'	Surface Completi	ion: N/A	
							Boring Method:	HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID Reading (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION		BORING/WELI COMPLETION	
0 -	_			_					
1	-								
	-								
2 _									
3	-								
4	- 1022								
5	-	1-1-1	5%	455.9	ML	Sandy 5:17			
6	-//					Sandy 5:17 -Red/grey, dry, very Faint odor, non coh/p1st,			
7	-								
8	-								
9	- 1025								
10	- [50-5"	10%	1958	SW-SM	Well graded sand w/ silt			
11	-					-Green/grey/brown, dry, ador stron v.Fmed sand, some s:11/fines	g,		
12	-								
13	-								
- 14	1030								
15	-	50-4"	30%	1919	ML	Sandy silt			
16						-Green Brown to green to grey, dry odor mild, well grown groded so	and uf-f,		
17						some s: It, frew grave)			
18	-								
19	1039			0250					
20		50-3	40%	2358 2314	รพ	Well graded sand	المواسم العز		
21	\square					-Green/tan, dry, odor mild/faint, w V.F. med sand w/ few silts/fines	un grunen		
22	-					العر			
23									
24	1046								
25	Λ	50-2"	40%	677.2	5W-5M	Well graded sand w/ silt	adar,		

Released to Imaging: 7/2/2025 1:28:01 PM

Duck Sampled: $(23)/25/2025$ Drilled By: Enviro Drill Driller: Packey B. Lagged By: D.F.Project Manager: S. HydeProject No: Borchole Diameter: BDrilled By: Enviro Dr.N. Driller: Packey B. Lagged By: D.F.Torand Surface Elevation: North Coordinate:Dark Bill Diameter: C Surface Elevation: North Coordinate:Borchole Diameter: B Surface Completion: Borchole Diameter: B Surface Completion: Borchole Diameter: B Surface Completion: Borchole Diameter: B1111112511111261111127111112811111291055150:3735%8H6.130150:3735%8H6.15wr.5MWell graded saved of silt -Grougsh the, dry, mild oder, with oder, with rined saved of some silt311111132111133111134111135110850:5160%175.7381118111391118114050:5150%172.35450:4150%172.35450%172.354%ML51	UMBER	BORING LOG N		J 28-4 Unit 1916 26 Ime: H:leorp cation:		Μ	LU	I S C	EN	C
hare Samplet: $O3/25/2025$ Drilled By: Erviro. Dr. III Drilled By: Erviro. Dr. III Dr. IIII Dr. III Dr. III Dr. III Dr. III Dr. III Dr. III Dr. III Dr. III Dr. III Dr. IIII Dr. IIII Dr. III Dr. IIII Dr. III Dr. IIII Dr. IIII Dr.										
hilded By: $C_{Y,C'P} - C_{P,C'}$ (Materials: North Coordinate: North Coordinate: North Coordinate: North Coordinate: North Coordinate: North Coordinate: North Coordinate: North Coordinate: North Coordinate: Surface Completion: Boring Method: HSA Surface Completion: Boring Method: HSA Completion: Boring Method: Completion: Boring Method: Boring Meth	3"			the second se		5	125/202	pled: ()3	ate Sam	
hilter: Radney B. raged By: O.F. Well Coordinate: Well Graded sand $w/$ silt raged Sand w' silt raged Sand w' silt raged	·							n-Drill	Envir	rilled B
Argended By: $O.F.$ West Coordinate: Surface Completion: Boring Method: H5A Integrated by: $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ BORING COMPL Integrated by: $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ BORING Completion: Boring Method: H5A Integrated by: $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ BORING Completion: Boring Method: H5A Integrated by: $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ BORING Completion: Boring Method: H5A Integrated by: $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ BORING Completion: Boring Method: H5A Integrated by: $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ BORING Completion: Boring Method: H5A Integrated by: $O.F.$ Integrated by $O.F.$ Integrated by $O.F.$ BORING Completion: Boring Method: H5A Integrated by: $O.F.$ Integrated by $O.F.$ <t< td=""><td></td><td>-</td><td></td><td>5</td><td></td><td></td><td></td><td>Β.</td><td>Rodney</td><td>riller:</td></t<>		-		5				Β.	Rodney	riller:
Boring Method: H5AHigh High High $\frac{11}{100}$ S0-5" $\frac{11}{100}$ S0-5"<					L				C O F	ogged B
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	۵	•							0.7.	
25 26 27 28 29 1055 30 = 50-3" 35% 846.1 SW-SM Well graded sand w/ oilt -Oragsh ten, dry, mild eder, vf. med sand w/ same silt 32 33 34 35 1108 50-3" 60% 41.4 5W-SM Well graded sand w/ silt -Orage bream, dry, no eder, vf. med sand w/ some silt 37 38 39 1118 40 = 50-5" 40% 175.7 SW-SM Well graded sand w silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ some silt 41 42 43 44 1126 50-4" 50% 172.3 SW-SM Well graded sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt SW-SM Well graded sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish, dry, no eder, vf. med sand w/ silt -Braun w/ relich, engish dry silt -Braun w/ silt -Braun			Dorm			1	1	6		
26 27 28 29 1055 30 $\frac{1}{50\cdot3^{-1}}$ $\frac{50\cdot3^{-1}}{50\cdot3^{-1}}$ $\frac{50\cdot5^{-1}}{60^{-1}}$ $\frac{60^{-7}}{60^{-7}}$ $\frac{41.4}{50^{-5}}$ $\frac{1108}{50\cdot5^{-1}}$ $\frac{50\cdot5^{-1}}{60^{-7}}$ $\frac{60^{-7}}{60^{-7}}$ $\frac{41.4}{50^{-7}}$ $\frac{50^{-5}}{50\cdot5^{-1}}$ $\frac{40^{-7}}{60^{-7}}$ $\frac{41.4}{50^{-7}}$ $\frac{50^{-5}}{50\cdot5^{-1}}$ $\frac{40^{-7}}{60^{-7}}$ $\frac{50^{-7}}{50^{-7}}$ $\frac{41.4}{50^{-7}}$ $\frac{50^{-5}}{50\cdot5^{-1}}$ $\frac{40^{-7}}{60^{-7}}$ $\frac{50^{-5}}{50\cdot5^{-1}}$ $\frac{40^{-7}}{60^{-7}}$ $\frac{50^{-7}}{50^{-7}}$ $\frac{50^{-7}}{50^{-7}}$ $\frac{50^{-7}}{50^{-7}}$ $\frac{1125\cdot7}{50^{-7}}$ $\frac{50^{-7}}{50^{-7}}$ $\frac{50^{-7}}{50^{-7}}$ $\frac{50^{-7}}{50^{-7}}$ $\frac{112}{50^{-7}}$	NG/WELI PLETION		DESCRIPTION	USCS SYMBO	FID/PID Reading (PPM)	RECOVERY (%)	BLOW COUN	SAMPLE INTERVAI		
27 28 29 1055 30 $\overline{55}$ 50-3" 35% 846.1 SW-SM Well graded sand ω / 5ilt -Orengish ten, dry, mild oder, 31 $\overline{50}$ 50-3" 60% 41.4 32 33 34 35 1108 50-3" 60% 41.4 5W-SM Well graded sand ω / silt -Orenge brown, dry, no oder, uf-med sand ω / some silt 37 38 39 1118 40 50-5" 40% 175.7 5W-SM Well graded sand ω silt -Brown ω / mith, oregish, dry, no oder, uf-med sand ω / some silt 41 42 43 44 1126 50-4" 50% 172.3 5W-SM Well graded sand ω silt -brown ω / mith, oregish, dry, no oder, uf-med sand ω / some silt 51 50-4" 50% 172.3 5W-SM Well graded sand ω silt -ten, dry, no ofs, vf-med sand, some silt 51 ML -red/brown, dry, no ofs, brittle, non soh, non plst						n Madel and Anna				-
28 - 29 - 1055 30 - 50.3" 35% BH6.1 31 - 32 - 33 - 34 - 35 - 1108 50.3" 60% 41.4 5W-5M Well graded sand w/ solt -Orange brewn, dry, no eder, vf.-med sand w/ some silt -Orange brewn, dry, no eder, vf.-med sand w/ some silt -Orange brewn, dry, no eder, vf.-med sand w/ some silt - 38 - 39 - 1118 40 - 50.5" 40% 175.7 5W-5M Well graded sand w silt -Brewn w/ relich oragish, dry, no eder, vf.-med sand w/ some silt - -Brewn w/ relich oragish, dry, no eder, vf.-med sand w/ some silt - - - - - - - - - - - - -					-					26
29 $=$ 1055 30 $=$ 50.3" 35% BH6.1 31 $=$ 50.3" 35% BH6.1 31 $=$ 50.3" 35% BH6.1 32 $=$ 50.3" 50% BH6.1 33 $=$ 50.3" 50% BH6.1 34 $=$ 50% SW-5M Well graded sand w/ silt -0range bream, dry, no adar, uf. med sand w/ some silt -0range bream, dry, no adar, uf. med sand w/ some silt -0range bream, dry, no adar, uf. med sand w/ some silt -0range bream w/ mith, aragin, dry, no adar, uf. med sand w/ some silt -0range bream w/ mith, aragin, dry, no adar, uf. med sand w/ some silt -0range bream w/ mith, aragin, dry, no adar, uf. med sand w/ some silt -0range bream w/ mith, aragin, dry, no adar, uf. med sand w/ some silt -0range bream w/ mith, aragin, dry, no adar, uf. med sand w/ some silt -0range bream, dry, no adar, uf. med sand w/ some silt -0range bream, dry, no ofs, vf. med sand, some silt -0range bream, dry, no ofs, brittle, non soh, non plst										
$30 = 50.3^{\circ} 35\% 8H6.1$ $31 = 50.5^{\circ} 60\% 41.4$ $50.5^{\circ} 40\% 175.7$ $50.5^{\circ} 40\% 177.3$ $50.5^{\circ} 40\% 177.3$ $50.5^{\circ} 40\% 177.3$ $50.5^{\circ} 50\% 177.3$ $Mell graded sand w/ silt -4a\% sand w/ some silt$ 51.1 ML 51.1 ML $7.16^{\circ} 50\% 50\% 177.3$ ML $7.16^{\circ} 50\% 50\% 50\% 177.3$ ML $7.16^{\circ} 50\% 50\% 50\% 177.3$ ML										-
32 33 34 35 1108 $50-3"$ $60%$ 41.4 $5W-5M$ $Well graded sayd w/ silt$ $Drange brown, dry, no odor, w.f. med sand w/ some silt$ 37 40 1118 $50-5"$ $40%$ 175.7 $5W-5M$ $Well graded sand w s:H$ $-Brown w/ relich, orwgich, dry, no cdor, w.f. med sand w/ some silt$ 41 1126 $50-4"$ $50%$ 172.3 $5W-5M$ $Well graded sand w/ silt$ $-tan, dry, no o/s, w.f. med sand, some silt$ $5ilt$ $-red/brown, dry, no o/s, brittle, non coh, non plst$			1 11	10 11 1		0	4.04		1055	-
32 33 34 35 1108 $50-3"$ $60%$ 41.4 $5W-5M$ $Well graded sayd w/ silt$ $Drange brown, dry, no odor, w.f. med sand w/ some silt$ 37 40 1118 $50-5"$ $40%$ 175.7 $5W-5M$ $Well graded sand w s:H$ $-Brown w/ relich, orwgich, dry, no cdor, w.f. med sand w/ some silt$ 41 1126 $50-4"$ $50%$ 172.3 $5W-5M$ $Well graded sand w/ silt$ $-tan, dry, no o/s, w.f. med sand, some silt$ $5ilt$ $-red/brown, dry, no o/s, brittle, non coh, non plst$			w/ silt	Well graded sand Orangish tan, dry, mi	SW-SM	846,1	55%	50-3"	X	-
33 = 108 = 50 - 3" = 66% = 41.4 $35 = 108 = 50 - 3" = 66% = 41.4$ $36 =$			me silt	V.tmed sand w/ sor					f~~	
34 = 1108 50-3" 66% 41.4 SW-SM Well graded sand w/ silt = 0 range brown, dry, no odor, wf, med sand w/ some silt = 0 range brown w/ relich orangish, dry, no odor, wf, med sand w/ some silt = 0 range brown w/ relich orangish, dry, no odor, wf, red brown w/ some silt = 0 range brown, dry, no of s, wf, red brown, dry, no of s, brittle, non coh, non plst = 0 range brown, dry, no of s, brown, dry, no of					<u>1</u>					
$\frac{35}{36} = \frac{1108}{50 \cdot 3^{11}} \frac{60\%}{60\%} \frac{41.4}{41.4} = \frac{5W-5M}{2^{11}} \frac{Well graded sand w/ silt}{\frac{100}{2^{11}} \frac{100}{2^{11}} \frac{100\%}{2^{11}} \frac{110}{2^{11}} $						-				
$37 = \frac{38}{38} = \frac{39}{1118} = \frac{1118}{50-5"} = \frac{40\%}{175.7} = 5W-5M}$ Well graded sound ω s:H $-\frac{1126}{50-5"} = \frac{40\%}{172.3} = \frac{5W-5M}{50'}$ Well graded sound ω silt $41 = \frac{1126}{50-4"} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sound ω silt $-\frac{1126}{50-4"} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sound ω silt $-\frac{1126}{50-4"} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sound ω silt $-\frac{1126}{50-4"} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sound ω silt $-\frac{1126}{5W-5M} = \frac{1126}{5W-5M}$ Well graded sound ω sound ω sound so			الحراك	Wall and and mand	SW-SM	61.4	(
$37 = \frac{38}{39} = \frac{1118}{39} = \frac{1118}{50-5''} = \frac{40\%}{175.7} = 5W-5M}$ Well graded sand ω s:H $-\frac{1126}{50-5''} = \frac{40\%}{172.3} = \frac{5W-5M}{172.3}$ Well graded sand ω / some s:H $-\frac{1126}{50-4''} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sand ω / s:H $-\frac{1126}{50-4''} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sand ω / s:H $-\frac{1126}{50-4''} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sand ω / s:H $-\frac{1126}{50-4''} = \frac{50\%}{50\%} = \frac{172.3}{5W-5M}$ Well graded sand ω / s:H $-\frac{1126}{5W-5M} = \frac{1126}{5W-5M}$ Well graded sand ω / s:H $-\frac{1126}{5W-5M} = \frac{1126}{W-5M}$ $-\frac{1126}{W-5M} = \frac{1126}{W-5M}$ $-\frac{1126}{W-5M} = \frac{1126}{W-5M}$			no odor,	-Orange brown, dry, i	2	11.	6070	70-3		-
$38 = 1118$ $39 = 1118$ $40 = 50.5^{11} = 40^{\circ}/6 = 175.7 \text{SW-SM}$ $Well \text{ graded sond } \omega \text{ s:H} = Brown \omega/ \text{ red:eh, orwg:sh, dry, no oclor,} \\ v.Fmed \text{ sond } \omega/ \text{ some s:H} = 1126$ $41 = 1126$ $43 = 1126$ $50-4^{11} = 50\% 172.3 \text{SW-SM}$ $Well \text{ graded sand } \omega/ \text{ silt} = -50\% 172.3 \text{SW-SM}$ $Well \text{ graded sand } \omega/ \text{ silt} = -50\% 172.3 \text{SW-SM}$ $ML = -50\% 172.3 \text{SW-SM}$ $ML = -50\% 172.3 \text{SW-SM}$ $ML = -50\% 172.3 \text{SW-SM}$			ון גב איוסו	WT. MEDI SUIL WY S				1		
$39 = 1118$ $40 = 50-5" = 40\% 175.7 5W-5M$ Well graded sond ω s:H $-Brown w/ redish, orang:sh, dry, no oclor, u.Fmed sond \omega/ some s:It 42 = -1126 44 = 1126 50-4" = 50\% 172.3 5W-5M Well graded sond \omega/ s:It -tan, dry, no o/s, v:F:-med sond, some s:It 5:It = -tan, dry, no o/s, v:F:-med sond, some s:It 5:It = -tan, dry, no o/s, br:tHe, non coh, non pist$										-
$40 = 50-5" + 40\% 175.7 \text{ SW-SM} Well graded sond w s:H \\ -Brown w/ redish, orang:sh, dry, no odor, v.Fmed sond w/ some s:It 41 = 1126 \\ 43 = 1126 \\ 45 = 50-4" - 50\% 172.3 \\ 5W-SM Well graded sond w/ s:It \\ -tan, dry, no o/s, v:Fmed sond, some s:It \\ 5:It \\ -red/brown, dry, no o/s, brittle, non coh, non plst \\ State$									1118	
41 = -Brown w/redich, orangish, dry, no celet, 42 = 43 = 44 = 1126 45 = 50-4" 50% 172.3 SW-5M Well graded sand w/ silt -tan, dry, no o/s, v.fmed sand, some silt 5:1t -tan, dry, no o/s, brittle, non coh, non plst			s:#	Well graded sond w	SW-SM	175.7	40%	50-5"	Ň	
$\frac{42}{43} = \frac{1126}{50-4''} = \frac{50\%}{172.3} $		10 octor,	ish, dry, no oc	- Brown w/ realish, orang:				50 5	\square	
43 44 = 1126 45 = $50-4''$ 50% 172.3 SW-SM Well graded sand $\omega/$ silt -tan, dry, no o/s, v.fmed sand, some silt 5:1t -red/brown, dry, no o/s, brittle, non coh, non plst										-
44 - 1126 45 - 50-4" 50% 172.3 SW-SM Well graded sand av/ silt 46 - Silt 47 - Terl/brean, dry, no o/s, brittle, non coh, non plst					÷					_
45 = 50-4"'' = 50% 172.3 $5W-5M Well graded sand w/ sitt -tan, dry, no o/s, v.fmed sand, some silt 5:1t - red/brown, dry, no o/s, brittle, non coh, non plst$			N						1126	_
46 - ML 5:1t -red/brown, dry, no o/s, brittle, non coh, non plst		some silt	silt i-med sand, son	-tan, dry, no o/s, v.f.	SW-SM	172.3	50%	50-4"	\bigtriangledown	_
47		non coh,	s, brittle, non		ML				\mathbf{X}	2
					-					_
48										48 -
49 [137] (Slufff = two well graded sord w/ silt)									1137	_
50 - 50.6" 50% 63.9 ML Silt redish brown, dry, no o/s, brittle		Hle	ols, brittle	5:17 red:sh brown, dry, no	ML	63.9	50%	50-6"	TT I	_

e

Date Sam	pled: 3/1 1: Enviro Rodney ^{y:} O.F.	- Drill	LU	Μ	Project La Project M Ground S	anager: S.Hyde urface Elevation: sing Elevation: ordinate:	BH Project No.: Borehole Di Casing Diar Well Materi Surface Cor	BORING LOG NUMBER BHOI Project No.: Borehole Diameter: 8" Casing Diameter: Well Materials: Surface Completion: Boring Method: HSA		
DEPTH (FEET)	BEPTH (FEET) (FEET) SAMPLE INTERVAL BLOW COUNT BLOW COUNT (%) (%) (%)				USCS SYMBOL	GEOLOGIC DESCRIP	TION	BORING/WELI COMPLETION		
209 	X	and the second sec					and the second sec			
					-					
18					and and and a second second					
-	1149									
3 9	\mathbb{X}	50-6"	30%	45.2	ML	S:lf Red/brown, dry, no o/s, br:H	1.			
64						non coh/plst	ne,			
32-	-				n fan fan i Ramanan a na gang a					
- 33 -	+									
35	+									
-36	ł					4				
37										
-38	+					8				
39 -						2 5 5				
40-										
41										
42	-									
43	-									
-45-	-									
46	-									
47										
48					Research Weight (1997)					
49 -					to us the second data to be					
-50-	-									

	EN	25/2025	LU	M	Project Loc Project Ma	ne: SJ 28.4 Unit 26A	BORING LOG NUMBER BHO 2 Project No.: Borehole Diameter: 8"			
rilled B	y: Enviro Rodney By: O. Fro	o-Dr:11 Begay			Top of Casi North Coor	ing Elevation: dinate: 36°39.528' linate: 107°17.099'	Casing Diameto Well Materials: Surface Comple	Casing Diameter: 8 Well Materials: Surface Completion: Boring Method: H\SA		
DEPTH (FEET)	SAMPLE	BLOW COUNT	RECOVERY (%)	FID/PID Reading (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO)N	BORING/WELL COMPLETION		
0.										
1 . 2	-									
3	-					5 ⁵				
۰ ۲	- 1245									
5	-	2-3-7	75%	6.2	SM	-Sandy Silt Silty Sand				
6	-			6.5		-brown, dry, no o/s, well g v.fmed w/ silt, non coh/	roded sond plat			
7										
8	-									
9	- 1250									
10	1X	50-3"	30%	4.1	5W-SM	Well graded sand w/ s:lt Brown to light tan, dry, v.f. w/ some s:lt, non plst	med cand			
11	-/				an fransis and a star a starting to a start of the start	w/ some silt, non pist	/ coh			
12										
13	_			-						
14 .	- 1255		6-04		รพ					
15	<u> </u>	50-4"	50%	6.5	510	Well graded sand Ton, dry, no ols, v.F coarse	sand, few			
16	- (al (Shiron, a bit (State) barriet a sector	silt, non plst/coh, feas	gravels			
17 18	-									
18	- 1301					analysis (and the second s				
20		50-3"	40%	13.5	SW-SM	Well graded sort w/	s:1 1			
20 21	-					Tan, dry, no o/s, v.fm. w/ some silt, non plat/coh	ed sand			
21 . 22 ·	-				a and a second s	אמאומ וזער ביייע ביייע איייער איייער איי				
· 23	-	Anna ann an Anna Anna Anna Anna Anna An		· · · ·						
24 -	1308	annan anaid Free Int Line at th		1		Well graded sand with :	5:14.			
25	$\overline{\nabla}$	50-3"	40%	11.8	SW-SM	-Tan, dry, no 0/5, v.Fmed w/ more silt than before,	Sand			

0	EN	SO	LU	М	Project Los	me: 5J 28-4 26A cation: inager: J.H.yde	BORING LOG NUMBER BHO2 Project No.:		
Date Sam	pled: 03	125/25			Ground Su	rface Elevation:	Borehole Diam	eter: B"	
		o - Dr:11				ing Elevation:	Casing Diamet		
Driller:	Rodne	1			North Cool		Well Materials		
Logged B	0.F.				West Coord	dinate:	Surface Comp		
		-					Boring Methoo	I: Mar	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION	
25	X				i San Managana ang Sanasan				
26									
27	-								
28	-								
29	136								
30		50-3"	15%	7.8	SW-SM	Well graded sand w/ s:	14		
31						Well graded sand w/ s: Brown, dry, no o/s, v.F. sand w/ si)t, few gravel	-med		
32	-								
33	-								
34	-					an han an a			
35	-								
36						e de ser fans fans fans af sen er anderen skalende sen er fans tied ander men de anteren skalende er annen			
37									
38					No				
39					G				
40									
41									
42									
43									
44									
45									
46									
47 -									
48									
49									
50									

		SO	LÜ	М	Project Loca	e: SJ 28-4 26A	BORING LOG NUMBER BH03 Project No.:		
rilled B	pled: 03/ Y: Env:ro- Rodney Y: O.F.	Dr:11			Top of Casin North Coord	face Elevation: ng Elevation: linate: 36° 39.523' inate: 107° 17.093'	Borehole Diame Casing Diamete Well Materials: Surface Comple Boring Method	er:	
DEPTH (FEET)	SAMPLE	SAMPLE INTERVAL BLOW COUNT RECOVERV (%) FID/PID READING			USCS SYMBOL	GEOLOGIC DESCRIPTI	ON	BORING/WELL COMPLETION	
0 . 1	_			p ang manana sa a ka baanaa ay					
1 . 2	-			a ann an ann an an an an an an an an an					
 3	-				la Antore () on the complete North (and		an na sha an		
4	- 1348			and an analysis of a second part of the second parts					
5	- []	11-11-20	75%	6.8	ML	Sandy silt			
6	-					Brown / light brown, dry, org no stain, silt w/ vfmed	sand, we		
7	-					non coh/plot, brittle, trace	clays		
8	-		an a						
9	- 1353			and an analy "Management I where I have a	hter the sector s		an a		
10	1	50-3"	25%	23.6	SW-SM	Well graded sand w/ s:11+g. Tan, dry, v.fmed sand, son no d/s, non coh/pist, tu	ravel		
11					9.0 P	no o/s, non coh/plst, to	ace organics		
12 .			-		No. 27 March 19 (Sector Contraction of the Contract				
13	_			an (and and the second s	nanal ma fina at amazantin ada mita mita mita mata manan kata mita mata mata mata sa sa sa sa sa sa sa sa sa s A	an a		
14 .	- 1400	50-3"	50%						
15	IX	20-2	50%	4.8	SW-SM	Well graded sand up silt Tan, dry, no ofs, v.f. med	sand with		
16			and a subscription of a light control in the	nda hirin dan bandarina da	n - 1 - an - gant an aller of a defer the disc	some silt and few ground			
17	-		No. 1997 (1997)						
18 19	- 1408								
20	-17	50-3"	40%	4.3	SW-SM	Well graded sand w/ silt			
20	-1/	50 5		1.5		Tan, dry, no o/s, u.fmed w/ s:lt, non coh/pist	. sand		
21	-		a on an						
22	-		Barrador, serja (deres daras daras)	net (pinerid) at revi 4.0 anna 200					
23	-			and parage (1994) and paradol statistical to	and the PRE in the answer of the PE is not and				
24	-17	13,50-2"	50%	9.0	SW-SM	Well graded sand w/	5:17		
	IX					SAA			

				a. ¹	Client:	5J 28-4 26A	BORING L	OG NUMBER	
	EN	I S O	LU	Μ	Project Na		BHO	2	
					Project Los Project Ma	cation: inager: 5.Ηγde	Project No.:		
Date Sam	pled: 3/	25/25				rface Elevation:	Borehole Diameter: 8"		
Drilled B		100 - Dril	4		Top of Cas	ing Elevation:	Casing Diamet		
Driller:		dney B.			North Cool	rdinate:	Well Materials	:	
Logged B	y: O.F				West Coor	dinate:	Surface Compl		
	~ .	6	Boring Method	: par rish					
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION	
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27						ana an ann a bhann a' fhad ann an shealann an sheal air a she a air a sheal an 1941 - 2011 ann a' an 1946			
28	-				Billion in classical contractions and				
29	1424								
30		50-3"	10%	2.7	SW-SM	Well graded sand w/ silt Tan, dry, no o/s, v.f. med so	e en entretat ferenario (secolos estimo		
31	$-\square$			and a state of the	a contract devices and the second	Tan, dry, no ols, v.fmed so silt, non coh/plst	und w/		
32	-								
33	-					per flammentanistikas per pri primer, par baketer terre flammati anteres en per ser conserva ander	a nan Annoatan dan Sunda da Katana		
34	- 1433						dan men dagi nga meningan na meningan sebagai na sebagai na sebagai na sebagai na sebagai na sebagai na sebagai		
35	\mathbb{N}	50-3%	40%	2.0	รพ-รท	Well graded sand w/ s: Ten, dry, no o/s, v.fmed s some silt and few coarse	1+		
36	$ \Delta $				a na management da la factoria de la composición de la composición de la composición de la composición de la c	some silt and few coarse non coh/plst	sand/gravel,		
37	-			And the second data and the second second data	a mana ka dan si sa san dilan wa dan ma	·····	namet also a face of the second s		
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	EN	150	1.11	м	Client: P	l:lcorp ame: 5J 28-4 26A	BORING	BORING LOG NUMBER		
		130	LU		Project L		BHO	ВНОЧ		
					-	anager: Stuart Hyde	Project No.:	Project No .:		
Date Sa	mpled: 03	125 1202	5		-	urface Elevation:	Borehole Dia	meter: B"		
	By: Enviro		-			sing Elevation:	Casing Diamo			
	Rodney				· ·	ordinate: 36° 39.529'	Well Materia			
Logged	By: O.Fr	West Coordinate: 107°17. 087' Surface Com								
	- O.tr	elich				101	Boring Metho			
DEPTH (FEET)	SAMPLE	BLOW COUNT	RECOVERY (%)	FID/PID Reading (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPT	10N	BORING/WEL COMPLETION		
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1	-									
	-									
2		-	-			-				
3	-									
	-									
4	1522	7								
5	IV	3-5-6	75%	n.4	ML	Sandy Silt Brown, dry, no o/s, silt sand, firm, non coh/pist,				
6	-17\					Brown, dry, no o/s, silt	w/ v.f~med			
	-K	\$\$	-			Salo, sinn, non con/pist,	104121			
7	1		-							
8	-									
	_					na panalisinaka dapenen penyi di amati rekanan ing del kepadat tenjin beri nali Algori si Cardo. Man				
9	1527									
10	$- \vee$	50-4"	25%	22.6		Well araded sand w/ silt				
	-1/\					Well graded sand w/ silt Ton/brown, dry, organic edou v.fmed sand w/ silt,	, no stain,			
11		4				v.fmed sand w/ silt,	non pist/coh			
12	_									
13	-									
	_			1						
14	-1541									
15	- \/	50-4"	50%	48.5		Well graded sand w/ silt				
						Tan, dry, no o/s, v.fn w/silf, non plst/coh	ed sand			
16	-K					w/s:17, non plat/coh				
17	_									
10	-					1				
18	-									
19	1548	,								
20	-1//	50-4"	30%	20.0		Well graded sand w/ silt				
						SAA				
21	-K									
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	_					and a second				
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24	1555									
25	-\7	50-3"	40%	2.2		Well graded sand w/ 5	41			
1		10 9	10 /0				••	- I		

					Client:	Hilcorp	BORING I	OG NUMBER	
	EN	IS O	LU	Μ		me: 5J 28-4 26A	BHO	4	
					Project Lo		Project No.:	1	
Date Sam	pled: 03	helana				anager: S. Hyde	Borehole Diameter:		
Drilled By	: Envire	- D				ing Elevation:	Casing Diamet	er:	
Driller:	Q . J	v			North Coo	rdinate:	Well Materials	:	
Logged B	y: O.F.	/			West Coor	dinate:	Surface Compl		
					<u> </u>		Boring Method	:	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION	
25	IX	Line				administrative dependence of the second s	24		
26	\sim					a management and the feature of the second			
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28	-	51			-				
29	0913						an a bharann an tha inn an ann an thair a	anana ing kanalan kana	
30	X	50-4"	40%	6.9		Well graded sand w/ silt. Tan, dry, no c/s, vfmed w/ silt and few coarse sand gravel. Non coh/plst	sand		
31 - 32 - 32	-K		-	No heregen son taken so	nagagi di 1. Jiwa wayati ili ya y	w/ silt and few coarse sound gravel. Non coh/plst	+ trace		
33	-								
34	0919								
35		50.3"	50%	5.8		Well graded sand or/ silf + growe Tan, dry, no o/s, v.f med s	1		
36	Δ					some silt, coarse sand, t gr	and w/		
37	-			and a confidence of		non plst/coh.	n g gagt a bhannair a' trèis sinairt i a gag ga		
38				1	· · · · · · · · · · · · · · · · · · ·	annan ar an	and a second		
39 _					dist we findeda, in some en en some	antana sa ana ana ana ana ana ana ana ana a	er anter en gaberer (* gabere ar (%) (* et al) and en er		
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41 -					ani ee balah ann saanne bassan	те,	, in the design		
42 43		Nami Antonia (Mari J. (1977) Mala (Mari			an ann an t-saoithean ann an				
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50									

C	EN	I S O	LU	M		Hilcorp Ime: 5J 28-4 Unit 26A Reation:	BORING I BHO	log number 5	
					Project Ma	anager: Stuart Hyde	Project No .:		
ate San	npled: 03/	26/2025			Ground St	urface Elevation:	Borehole Diam	eter: 8"	
	ly: Envir				Top of Cas	sing Elevation:	Casing Diamet	er:	
riller:	Rodney				North Coo	ordinate: 36° 39.534'	Well Materials	:	
ogged I	By: O. Fro					dinate: 107"17.093'	Surface Comp	letion:	
	0.110						Boring Method	I: HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID Reading (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO	אכ	BORING/WEL	
0	-								
1	_								
2	-								
3	-								
4	- 0952				ML	Sandy silt ! brown, dry, no a	1, 5:1+ w/		
5	-17	12,50-3	80%	6.9		Sandy silt : brown, dry, no o some v.Fmed sand,	non con/plat		
	:大	12,50-5	80%	0.1	- <u>5</u> w-sm-	Well graded sand w/ s:17 Tan, dry, v:F-med sand w/			
6	-	1		-	-	Ton, dry, vit-med sound w/ non coh/plst	5;1+3, no o/s,		
7	_				-				
8	_			1.32	· · · · · · · · · · · · · · · · · · ·				
9	- 0957	,			C. 1				
10	łX	50-3"	20%	7.\	SW	Well graded sand FeTan, dry, no o/s, F-med s w/ some v.f. sand and few	and		
11	- <u>f</u>					w/ some v.f. send and few	silts		
12	_					ant minimizer annan an tearrainn a' fais ann anna grain an ag an an ag an an tearrainn an an an an an			
13						-			
14	1003					and a second			
15	-1X-	50-4"	20%	2.5	SW-SM	Well graded sand w/ silt Tan w/ whites + greens, no of	s da		
16	-14-2					v.F. see - med sand w/ s	ilts, non		
17	-					coh/plst			
18	-								
19	1020								
20		50-2"	50%	7.8	SW-SM				
21						-Brown:sh/green:sh tan, dry, V.F med sand, See silty, grave(no ols, trace		
22	-					1			
23	-					i s			
24	1027								
25 -		50-2"	25%	6.7	SW-SM	Well graded sand w/ silt			

	EN	SO	LU	M	Client: Project Na	Нлапр ^{me:} 5J 28-4 26A		OG NUMBER		
-					Project Lo	cation:	BHOS			
					Project Ma	inager: S.Hyde	Project No.:			
	pled: 03/2				Ground Su	rface Elevation:	Borehole Diam	eter: Ø"		
	Enviro				Top of Cas	ing Elevation:	Casing Diamet	er:		
Driller:	Rodney E	3			North Cool	rdinate:	Well Materials	:		
Logged B	y: 0 5				West Coor	dinate:	Surface Compl	etion:		
	0.F.						Boring Method	: HSA		
		F						1		
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION		
25	Х					and and a second descent and a second s				
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29	1038									
30	IX	50-3"	20%	12.3	SW-SM	Well graded sand w/ silt Tan w/ rads, dry, no o/s v.fmed sand w/ silts, no	(
31.	(v.fmed sand w/ silts, no	n coh/plst			
32	_									
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³⁴ . 35	- 1051	50-3%	25%	15.1	SWL-SM	hall a randont sand where it				
36	-1X	20 5.8				Well graded sand w/ silt Tan, dry, no o/s, v.fmed so w/ silt and few gravel, n	and L			
37	-				 N. A. Weiger and Strand Stranger and Stran Stranger and Stranger and S	wy silt and tes gravel, the	on con/pst	1		
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			LU	Μ	Project Na Project Lo Project Ma	H;lcorp ime: San Juan 28-4 Un:t 26A cation: anager: Stuart Hyde urface Elevation:	Project No .:	6/51	104	
Driller: Rodney Begay			Top of Casing Elevation:CaNorth Coordinate: 36* 39.530'WeWest Coordinate: 107° 17.094'Su		Casing Diamet Well Materials Surface Compl	Borehole Diameter: 8" Casing Diameter: 2" Well Materials: PVC Surface Completion: Boring Method: HSA				
o DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTIO	N		G/WELL LETION	
1	-									
4 - 5 -	- 1128	50-6"	75%	38.2	ML	Silt w/ Jand Redish brown, dry no odor/stain, w/ some v.f. med sond, non och	5:14 1/p13t			
6 _ 7 _					SW-SM	Dilt W Jana Redish brown, dry no odor/stain, w/ some v.fmed sand, non och Well graded sand w/ silt Tan/grey, dry, no o/s, v.fme w/ silt, non coh/plst	d Sand			
8 _ 9 _	- 1132					(Sluff: redish brown silt, no/s, e	hy)			
10 _ 11 _		50-3"	50%	17.4	5W	Well graded sand Tan, dry, no 0/5		×	××	-2' bentanite plug
12 - 13 -	-					(Sluff: other State - redish brown silt)	; dry, no o/s)			- sand to 13'
14 - 15 - 16 -	- 1139	50-3*	30%	9.8	SW-SM	Well graded send w/ sill Ten, dry, no o/s, v.Fmed s w/ sill, non coh/plst	and			
10 17 18				7						— screen From 15' to 25'
19 20	1147	50-3''	40%	7.6	SW-SM	Well graded sand w/ silt				vapor well set to 25'
21 22	Å					Well graded sand w/ sitt Tan/brown, dry, no o/s, v.fmec w/ sitt, non coh/plst	l Sand			
23 24	1200									
25 -	\mathbb{N}	50.3"	25%	6.9	SW-SM	Well graded sand w/ silt SAA				

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

Action 480793

QUESTIONS					
Operator:	OGRID:				
HILCORP ENERGY COMPANY	372171				
1111 Travis Street	Action Number:				
Houston, TX 77002	480793				
	Action Type:				
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				

QUESTIONS

Prerequisites				
nAPP2502156424				
NAPP2502156424 SAN JUAN 28-4 UNIT 26A @ 30-039-27636				
Oil Release				
Remediation Plan Received				
[30-039-27636] SAN JUAN 28 4 UNIT #026A				

Location of Release Source

Please answer all the questions in this group.
--

Site Name	SAN JUAN 28-4 UNIT 26A
Date Release Discovered	01/21/2025
Surface Owner	Federal

Incident Details

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Corrosion Production Tank Produced Water Released: 18 BBL Recovered: 0 BBL Lost: 18 BBL.			
Is the concentration of chloride in the produced water >10,000 mg/l	No			
Condensate Released (bbls) Details	Cause: Corrosion Production Tank Condensate Released: 24 BBL Recovered: 0 BBL Lost: 24 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)	41.72-bbl release (23.84-bbl condensate & 17.88-bbl produced water) due to corrosion.			

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

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QUESTIONS, Page 2

Action 480793

QUESTIONS (continued)				
Operator:	OGRID:			
HILCORP ENERGY COMPANY	372171			
1111 Travis Street	Action Number:			
Houston, TX 77002	480793			
	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 s	afety hazard that would result in injury.			
The source of the release has been stopped	True			
The impacted area has been secured to protect human health and the environment	True			
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True			
All free liquids and recoverable materials have been removed and managed appropriately	True			
If all the actions described above have not been undertaken, explain why	N/A			
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.			
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: 07/01/2025			

General Information Phone: (505) 629-6116

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

Page 112 of 116

QUESTIONS, Page 3

Action 480793

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171 Action Number: 480793		
	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.)		
Mitheat we also also an end to also the second to a she when the second to be also the s			

QUESTIONS (continued)

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 ar	id 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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Νο

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	sociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in millig	rams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10450
GRO+DRO (EPA SW-846 Method 8015M)	10450
BTEX (EPA SW-846 Method 8021B or 8260B)	849
Benzene (EPA SW-846 Method 8021B or 8260B)	29
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	09/01/2025
On what date will (or did) the final sampling or liner inspection occur	09/15/2025
On what date will (or was) the remediation complete(d)	09/15/2025
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	1430
What is the estimated volume (in cubic yards) that will be remediated	635
These estimated dates and measurements are recognized to be the best guess or calculation at the time	me 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTI	ONS (continued)
Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street Houston, TX 77002	Action Number: 480793
	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 ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ises which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface a does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/01/2025

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.

QUESTIONS, Page 4

Action 480793

General Information Phone: (505) 629-6116

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

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

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QUESTIONS, Page 5

Action 480793

QUESTIONS (continued)		
Operator: HILCORP ENERGY COMPANY	OGRID: 372171	
1111 Travis Street Houston, TX 77002	Action Number: 480793	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

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

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

QUESTIONS, Page 6

Action 480793

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QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	480793
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	443931
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2025
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	1000

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

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CONDITIONS

Action 480793

CONDITIONS	
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	480793
	Action Type:

[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	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 of ND. Submit remediation closure report to the OCD by 9/30/2025.	7/2/2025