District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2331717075
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hilcorp Energy Company	OGRID 372171
Contact Name Mitch Killough	Contact Telephone 713-757-5247
Contact email mkillough@hilcorp.com	Incident # nAPP2331717075
Contact mailing address 1111 Travis Street, Houston, Texas 77002	

Location of Release Source

Latitude 36.84576

Longitude -108.07138_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Zachry Com 1A	Site Type Well
Date Release Discovered: 10/30/2023 @ 03:30 pm (MT)	API# 30-045-23311

Unit Letter	Section	Township	Range	County
С	2	30N	12W	San Juan

Surface Owner: State Federal Tribal Private

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the ☐ Yes ☐ No produced water >10,000 mg/l? Condensate Volume Released (bbls) 15.66 bbls Volume Recovered (bbls) 0 bbls Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)

Cause of Release

On 10/30/2023 at approx. 3:30 pm (MT), a Hilcorp operator discovered visibly-impacted pad material near the manway of a 210-bbl storage tank. After comparing the fluid level of the storage tank to the previous month's reported data, it was determined that 15.66 bbls of condensate had leaked out. No spilled fluids could be recovered from the ground surface. The 15.66-bbl spill is reportable to NMOCD and NM State Land Office (NM-SLO). The 210-bbl storage tank is scheduled to have the manway gasket replaced and re-inspected before placing back into service.

The spill amount was determined by operator's monthly tank gauging data.

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

In the case of this release, the spilled fluids soaked vertically into the ground surface adjacent to the 210-bbl storage tank. If any free liquids could have been recovered, Hilcorp would have certainly done so.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name:Mitch Killough	Title:Environmental Specialist
Signature:	Date:11/14/2023
email:mkillough@hilcorp.com	Telephone:713-757-5247
OCD Only	
Received by: <u>Shelly Wells</u>	Date: <u>11/14/2023</u>

Page 2

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	285675
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition scwells None

CONDITIONS

Action 285675

Condition Date 11/14/2023

Received by OCD: 1/26/2024 11:45:29 AM Form C-141 State of New Mexico

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Oil Conservation Division

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Incident ID	napp2331717075	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<u>Characterization Report Checklist</u>: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/26/202	4 11:45:29 AM State of New Mexico		Page				
			Incident ID	napp2331717075			
Page 4	Oil Conservation Division	l	District RP				
			Facility ID				
			Application ID				
regulations all operators are republic health or the environme failed to adequately investigat addition, OCD acceptance of and/or regulations. Printed Name: <u>Mitch</u> Signature:	nation given above is true and complete to the equired to report and/or file certain release no ent. The acceptance of a C-141 report by the te and remediate contamination that pose a th a C-141 report does not relieve the operator of Killough	tifications and perform OCD does not relieve treat to groundwater, surf of responsibility for con Title: <u>Envi</u>	corrective actions for rele he operator of liability sho face water, human health pliance with any other fec	ases which may endanger ould their operations have or the environment. In leral, state, or local laws			
OCD Only Received by:		Date:					

Received by OCD: 1/26/2024 11:45:29 AM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

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Incident ID	napp2331717075
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points \square Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. Printed Name: ____Mitch Killough ______ Title: ____Environmental Specialist______ Signature: _____ *Ah JAp_____* Date: __<u>1/26/2024</u>_____ Telephone: ____713-757-5247_____ email: mkillough@hilcorp.com OCD Only Received by: _____ Date: ____ Approved with Attached Conditions of Approval Denied Approved Deferral Approved Signature: Date:



January 26, 2024

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

Re: Remediation Work Plan Zachry Com 1A Hilcorp Energy Company NMOCD Incident No: nAPP2331717075

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Work Plan* (Work Plan) for a release at the Zachry Com 1A natural gas production well (Site). The Site is located on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO) in Unit C, Section 2, Township 30 North, Range 12 West, San Juan County, New Mexico (Figure 1). This Work Plan includes a summary of delineation activities performed at the Site and the proposed remediation of impacted soil originating from the release of condensate.

SITE BACKGROUND

On October 30, 2023, Hilcorp discovered visibly impacted material near the manway of a 210 barrel (bbl) condensate aboveground storage tank (AST). After comparing the fluid level of the AST to the previous month's reported data, it was estimated 15.66 bbls of condensate was released from the AST and stayed within the bermed secondary containment. No released fluids were recovered at the time of discovery. The manway gasket was replaced and the tank inspected before placing the AST back into service. Hilcorp reported the release to the NMSLO and the New Mexico Oil Conservation Division (NMOCD) on a *Release Notification Form C-141* on November 14, 2023. The NMOCD has assigned the Site Incident Number nAPP2331717075.

SITE CHARACTERIZATION

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

GEOLOGY AND HYDROGEOLOGY

The Site is located within the Nacimiento Geologic Formation. In the report titled "Hydrogeology and Water Resources of San Juan Basin, New Mexico" (Stone, et. al., 1983), the Nacimiento Formation is characterized by interbedded black carbonaceous mudstones and white, coarsegrained sandstones, which ranges in thickness from 418 feet to 2,232 feet. The hydrogeologic properties of the Nacimiento Formation display variable properties dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply. The Nacimiento Formation is underlain by the Ojo Alamo sandstone (Stone et. al, 1983).

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 closest significant watercourse is an unnamed dry wash located 450 feet west-southwest of the Site, is defined by a bed and bank, and is a first order tributary to a dashed blue line on a USGS 7.5-minute quadrangle map. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland (Figure 1). The closest fresh-water well is NMOSE permitted well SJ-02643 (Appendix A), located approximately 3,290 feet south of the Site. The recorded depth to water on the NMOSE database is 140 feet below ground surface (bgs) with a total depth of 195 feet bgs. The well is approximately 120 feet lower in elevation than the Site, therefore depth to groundwater at the Site is estimated to be greater than 100 feet bgs.

No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile radius from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management (BLM)). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

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:

- 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
- A combination of TPH-GRO and TPH-DRO: 1,000 mg/kg
- Benzene: 10 mg/kg
- A combination of benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Chloride: 20,000 milligrams per kilogram (mg/kg)

DELINEATION AND SOIL SAMPLING ACTIVITIES

To assess potential impacts to soil at the Site, Ensolum conducted delineation activities from January 10 to January 12, 2023. Since the release remained on pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

Six borings (BH01 through BH06) were advanced using hollow stem auger drilling and sampling equipment at the locations shown on Figure 2. Because the drill rig could not access the west side of the AST, one near-surface soil sample (SS01) was also collected directly adjacent to the release source at the AST manway to assess soil directly impacted by the condensate. At least two business days prior to commencing work, Hilcorp provided the NMOCD with sampling

ENSOLUM

notifications for the delineation work, attached as Appendix B. During drilling, an Ensolum geologist logged lithology, inspected the soil for petroleum hydrocarbon staining and odors, and field screened for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID), with results noted on field logs. , which are attached as Appendix C. Photographs taken during delineation activities are provided in Appendix D.

In general, soil samples were collected at depth intervals indicating the greatest impacts based on field screening results and from the terminal depth of each boring. Soil samples were collected directly into laboratory-provided jars and immediately placed on ice. Samples were submitted to Eurofins Environment Testing (Eurofins) for analysis of BTEX following Environmental Protection Agency (EPA) Method 8021B, TPH following EPA Method 8015M/D, and chloride following EPA Method 300.0.

Soil composition at the Site predominantly consisted of sand with silt and silty sand with occasional clay and gravel. Groundwater and/or saturated soil was not observed in any of the borings during drilling. Soil sample SS01, located near the release source, contained GRO+DRO and BTEX concentrations exceeding the NMOCD Closure Criteria at a depth of approximately 4 inches bgs. Concentrations of Site COCs were either not detected above laboratory reporting limits or were not detected above the applicable Closure Criteria in any other analyzed samples collected during the delineation activities. A summary of analytical results is summarized in Table 1 and presented on Figure 2. Complete laboratory reports are attached in Appendix E.

PROPOSED REMEDIAL ACTIONS

Based on the field screening and soil sampling results described above, it appears the lateral and vertical extent of impacted soil is limited to areas within the secondary containment berm. Active equipment limited access for the drill rig on the west side of the AST. Additionally, frozen ground prevented further vertical delineation using a hand auger in this area; however, borings BH01 and BH02 were located approximately 16 feet east and 20 feet north, respectively, of the source of the release and indicated fluids had not migrated significantly away from the AST. It is estimated impacted soil is present at the Site between the ground surface to a depth of approximately 4 feet bgs with an approximate areal extent of 750 square feet. Based on these estimates, approximately 111 cubic yards of impacted soil above the NMOCD Table I Closure Criteria are present at the Site.

Hilcorp proposes to excavate impacted soil resulting from the release at the Site to achieve NMOCD Table I Closure Criteria. Soil will be excavated and transported off-Site for disposal at the Envirotech Landfarm located in San Juan County, New Mexico. Following removal of the impacted soil, 5-point composite soil samples will be collected at least every 200 square feet from the floor and sidewalls of the excavation. 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. Soil samples will be submitted for laboratory analysis of TPH, BTEX, and chloride in the manner described above.

Hilcorp will complete the excavation and soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD and NMSLO. A *Closure Request* will be submitted within 30 days of receipt of final laboratory analytical results.

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.



Hilcorp Energy Company Remediation Work Plan Zachry Com 1A

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

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Soil Sample Results
- Table 1:
 Delineation Soil Sample Analytical Results
- Appendix A: NMOSE Point of Diversion Summary
- Appendix B: Agency Correspondence
- Appendix C: Boring Logs
- Appendix D: Photographic Log
- Appendix E: Laboratory Analytical Reports





FIGURES

Received by OCD: 1/26/2024 11:45:29 AM

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Released to Interingental Systems Released in Struct A SRI), United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS), National Geographic Society, i-cubed



Released to Imaging: 4/1/2024 11:26:56 AM

Sources: Environmental Systems Research Institute (ESRI), Google Earth



TABLES

E N S O L U M

	TABLE 1 DELINEATION SOIL SAMPLE ANALYTICAL RESULTS Zachary Com 1A Hilcorp Energy Company San Juan County, New Mexico													
Sample ID	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)	TPH GRO+DRO (mg/kg	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure	e Criteria for Soil Release	Is Impacted by a	NE	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
BH01 4-6	1/10/2024	4-6	33.5	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<47	<14.3	<47	<60
BH01 24-26	1/10/2024	24-26	3.4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<14.7	<49	<60
BH02 9-11	1/10/2024	9-11	272	<0.024	<0.049	<0.049	0.099	0.099	<4.9	15	<50	15	15	<60
BH02 24-26	1/10/2024	24-26	6.9	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<14.2	<46	<60
BH03 14-16	1/10/2024	14-16	42.6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	18	<47	18	18	<60
BH03 24-26	1/10/2024	24-26	8.5	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	12	<48	12	12	<60
BH04 4-6	1/10/2024	4-6	8.2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<14.5	<49	82
BH04 24-26	1/10/2024	24-26	1.6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.7	<49	<14.5	<49	<60
BH05 4-6	1/10/2024	4-6	1.4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<14.8	<50	<60
BH05 19-21	1/10/2024	19-21	0.7	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.7	<49	<14.5	<49	<60
BH06 4-6	1/11/2024	4-6	10.4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	220	120	220	340	1,200
BH06 24-26	1/11/2024	24-26	2.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<50	<14.9	<50	<60
SS01	1/11/2024	0-0.5	1,947	<0.023	2.9	4.5	56	63	880	330	<49	1,210	1,210	<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 ': feet GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: 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



APPENDIX A

NMOSE Point of Diversion Summary



New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quart	ers are	1=NV	N 2=N	E 3=SW	′ 4=SE)				
			(qua	rters ar	e sma	llest to	o largest)		(NAD83 U	JTM in meters)		
Well Tag	POD) Number	Q64	Q16	Q4	Sec	Tws	Rng	Х	Y		
	SJ 0	2643	2	3	3	02	30N	12W	225928	4081166* 🌍		
x Driller Lic	ense:	847	Driller	· Con	ıpan	y:	SAV	/AGE, E	BOB			
Driller Na	me:	SAVAGE, BOB										
Drill Start	Date:	07/10/1995	Drill F	ìnish	Dat	e:	0	7/25/199	95 PI	ug Date:		
Log File Date: 08/21/1996		PCW	Rev I	Date:			Se	Source:				
Pump Typ	e:		Pipe Discharge Size:						E	Estimated Yield:		
Casing Size: 4.50			Depth	Well	:		1	95 feet	D	epth Water:	140 feet	
X	Wate	er Bearing Stratific	ations:		То	p l	Bottom	Desci	ription			
					15	5	157	Sands	stone/Grave	el/Conglomerate		
X	orations: Top			p l	Bottom							
					15	6	195	;				

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/1/23 11:47 AM

POINT OF DIVERSION SUMMARY



APPENDIX B

Agency Correspondence

From:	OCDOnline@state.nm.us
То:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 300142
Date:	Thursday, January 4, 2024 3:27:41 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#) nAPP2331717075.

The sampling event is expected to take place:

When: 01/10/2024 @ 09:00 Where: C-02-30N-12W 990 FNL 1630 FWL (36.845768,-108.0713806)

Additional Information: Site contact is Reece Hanson, 970-210-9803

Sampling is being performed for delineation purposes. The stated sampling area is the total approximate area that we will be investigating and does not constitute the area of soil impacts.

Additional Instructions: Site Coordinates: 36.845833, -108.071678

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
То:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 300144
Date:	Thursday, January 4, 2024 3:28:47 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#) nAPP2331717075.

The sampling event is expected to take place:

When: 01/11/2024 @ 09:00 Where: C-02-30N-12W 990 FNL 1630 FWL (36.845768,-108.0713806)

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Sampling is being performed for delineation purposes. The stated sampling area is the total approximate area that we will be investigating and does not constitute the area of soil impacts.

Additional Instructions: Site Coordinates: 36.845833, -108.071678

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: 301484
Date:	Tuesday, January 9, 2024 9:37:16 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#) nAPP2331717075.

The sampling event is expected to take place:

When: 01/12/2024 @ 09:00 **Where:** C-02-30N-12W 990 FNL 1630 FWL (36.845768,-108.0713806)

Additional Information: Site contact is Reece Hanson, 970-210-9803 Sampling is being performed for delineation purposes. The stated sampling area is the total approximate area that we will be investigating and does not constitute the area of soil impacts.

Additional Instructions: Site Coordinates: 36.845833, -108.071678

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

Boring Logs

						Projec Projec	itilicant it Name: 1 Zachary Com 1 A it Location: it Manager: 5 1 to du	$\frac{\text{BOREHOLE ID}}{[Sito]}$ Date: $1/(9/2) = 4$		
Project	No.:						ole Diameter:	Ground Surface Elevation:		
Drilling	Comp	any: Envir	v - 1)ril(Casin	g Diameter: Naterials: BachF:11	Top of Casing Elevation:		
Driller:	R,					Well N	laterials:	Latitude:		
Drilling	Equip					Surfac	ce Completion:	Longitude:		
ogged	By:	RH				Drillin	g Method:	Total Depth: 25	•	
DEPTH (FEET)	SAMPLE INTERVAL	SPT BLOW COUNT	RECOVERY (%)	(Mdd) QId	MOISTURE	nscs	GEOLOGIC DESCRI	PTION	WELL COMPLETION	
0 1		27- 50 fr 3	90	33.5	514		SAND WY SELT: 5-6': light tan - fr WY Some silf 11-5: brown to m to andown Sand 2" gray statuch st	h tan v. Fin w silt way in mille		
6 7 8 9	∇	33 - 50 h	00	1.5	slf		SAND W/ SFLJ! 10 nh sand w/ some SILT U/ SAND + CLo mustly Gron-gray Some Clay + free	5:17 5AA 17: 9-10'		
11 _ 12 _ 13 _ 14 _ 15		50 Fur 6	75	5.5	dry		14-15: SAA: Mostly 10-11: internal wrs 15-11: SAND/SANDS 1:ght gray Fire to mel Son ted, some con	some as some fines tung: some mod.		
16 17 18 19		JU For	50	4.2	dz		Sand Stone EtA			
20 21 22 23 24 25		2 (- 50 Fur 6	90	3.4	51+		Transitions to - SI - only any silt m sant - No color Some what consulidated Compaction	· ·. fine -fire		

Page:

Client: 1-1. Con Project Name: Zachary Con 11 BOREHOLE ID ENSOLUM BHO2 Project Location: Date: 1/10/24 Project Manager: 5 Hade Ground Surface Elevation: Project No.: Borehole Diameter: Drilling Company: Enviro - Drill Top of Casing Elevation: Casing Diameter: Surface Completion: Backfill Driller: Ry~ l atitude: Longitude Drilling Equip Total Depth: 25. Logged By: RH **Drilling Method:** SAMPLE SPT BLOW COUNT RECOVERY (%) **AOISTURE** DEPTH (FEET) WELL (Mdd uscs GEOLOGIC DESCRIPTION COMPLETION 0 SELTY SAND! Tan - fire - mel 1 Sout of some silt, No \$10 2 511 3 25-54 100 87.6 4 ful 5 6 SAND: light gry to the fire- at sand mod. so hed 7 60 272 5/7 8 No 510 - slough above Stat 50 fr 9 10 SAA: sond vories from mansolidated to conjucted 11 12 25-5 60 20.1 My W/ SS chunks 13 Nº S/O 14 15 19-20- 541 16 20-21 - unconsolidate but sit compacted fine to coarse poorly 17 20.3 dry 33-50 80 18 surfed and we some fores (springer 19 for 6 N. 5/0 20 lucks similar to same 21 n 1401 22 Not. gray, compacted silt ut 23 22 - 50 100 C.9 dry V. five . One shad No SIO 24 616 25

Page 25 of 52

							t Name: Zachary Car (A t Location: t Manager: 6 14. Ac	BOREHOLE ID 31763 Date: 1/10/23		
Drilling	Dject No.: Illing Company: Enviry -Dr: []					Boreh Casin	ole Diameter: g Diameter:	Ground Surface Elevation: Top of Casing Elevation:		
Driller:		m						Latitude:		
Drilling						-	ce Completion:	Longitude:		
Logge		RH				Drillin	g Method:	Total Depth: 25	r	
DEPTH (FEET)	SAMPLE	SPT BLOW COUNT	RECOVERY (%)	(Mdd) Old	MOISTURE	nscs	GEOLOGIC DESCRI	PTION	WELL COMPLETION	
0 1 2 3 4 5		SU For	50	24.(SIF		SILTY SAND: Sume top of superal, un for - ml. sand w/ to m.d. gray	fings e considuated solt tan		
5 6 7 8 9		5045		32_		-	Sands w/ game sitt & Joteval Silty Sands wy Some			
10 11 12 13 14 15		5	60	42.6	514		Light Gray to tur Fine to med Silty Sask in up Interval	. Sands per fortot		
16 17 18 19 20		40-30 FV 5	95	3.3	dry		SAND: white to tan fine to my. Sh more silfy e top white in classions	nd, Conjucted		
21 22 23 24		35-50	qD	8.5	æ)		SILT - gray - com wr some fore so black rusca No SVO			
25	IX	tury	1				p e 25'			

BOREHOLE ID Client: ACCONT Project Name: Zachary Con 1A EENSOLUM BHOY Project Location: 10/24 Date: Project Manager: 5 Hyde Ground Surface Elevation: Borehole Diameter: Project No.: Top of Casing Elevation: Brok Fill Casing Diameter: Drilling Company: Envire - Dr:11 Latitude: Well Materials: Driller: Longitude Surface Completion: Total Depth: 25 Drilling Equip: **Drilling Method:** Logged By: TH WELL RECOVERY (%) SPT BLOW COUNT **IOISTURE** SAMPLE COMPLETION DEPTH (FEET) GEOLOGIC DESCRIPTION uscs QId 0 SAND UN SELT ; Tan Fire - ml Sand we silt poorly so hed 1 Buffor y" = SAND : conjucted 2 while to light may sand fee - ord. No 50 3 SIT 50 for 60 8.2 4 Groy Sond W/Silt Fin-MED weilCompacted 5 6 7 Powsen Drl 40 1.8 for 8 9 10 11 SAA 12 60 4.9 PPY 13 50 For 14 light Grey to white med Sund W/Sr/+ Porty Sorted 15 16 17 20 ×4 24 14 40 18 Upper-SAA Lever - 5.1+ Grey in Sam fer Sounds word compacted 19 20 21 50 22 p 1.6 23 24 25 TPE25'

Page

						Projec Projec Projec	t Name: ZACHRY Com /A t Location: t Manager: SH, JL ole Diameter:	BOREHOLE ID BH 0 S Date: 1//•/2 4 Ground Surface Elevation:		
Drilling Driller:	Comp	any: Enu:	·> -1	Pr: 1			g Diameter: Naterials: Back PI(Top of Casing Elevation: Latitude:		
Drilling							taterials: Ver (Longitude:		
Logged							g Method:	Total Depth: 20		
DEPTH (FEET)	SAMPLE	SPT BLOW COUNT	RECOVERY (%)	(Mdd) Qld	MOISTURE	nscs	GEOLOGIC DESCRIP		WELL COMPLETION	
0 1		40 fer 6	Ŵ	14	2.19h		Tan Wisame Guy M-fin Photy Sorted No 5/0			
6 7 8 9 10		50 for y	20	6.6	pri		Grey to tor for-med very well compacted NU \$/0	Sund w/ Same Sh	\$	
11 12 13 14 15		50 Far 6	50	1.0	Dry		light gray compacted fire - mit gains Crumbly No S/O	l smd ch		
16 17 18 19 20	$\langle \rangle$	50 for 5	40	6.7	Sul		Upper SAA Lower-Tan to gray Somes NO S/O	Siltw/fine		
21 22 23 24 25							TPe 20°			

ę

ENSOLUM						Projec	HEC et Name: Zachry Com 1A et Location: et Manager: S. 14yde	BOREHOLE ID BHOG Date: 1/11/24		
Project				~		Boreh	ole Diameter:	Ground Surface Elevation:	· · · · · · · · · · ·	
		Dany: Envir	0	mil			g Diameter: faterials:	Top of Casing Elevation: Latitude:		
Driller: Drilling		Ryan					ce Completion:	Longitude:		
Logge		RH				Drilling	g Method:	Total Depth:		
DEPTH (FEET)	SAMPLE	SPT BLOW COUNT	RECOVERY (%)	(Widd) Qid	MOISTURE	uscs	GEOLOGIC DESCRIPT	710N	WELL COMPLETION	
0							TAN- Medéum - fine	Sands w/s.it		
1	* 	4 for 3		N			Grrey/Black Staining			
3	-		40	10.4	WEA		Black liner materie	u @5'		
4							"Old." Smelling gre from 5-10'	y Stained Sail		
6	X	- ^		2			Compacted + Unecusol	idated f-m		
7	-	50 forte		9			Sand w/ some Sitt			
8	.	50	40	7.0	SIT		to tar	- 1		
9 10	$\sqrt{1}$						NO S/O			
11	A	0				·	Grey/White Med	Sandy w/		
12	_	for	40	3.2	-e-t		Some Silt poorly Some & Ginel Sized C	Sorted w/		
13		Ø	`	5.	Dri		,			
14 15	∇						No Slo			
16	Δ						light Grey to Ton	Sand		
17		50 for 6	10	1.0	DEY		f-m w/ some cla	istz		
18		50 [*]	50	1			Black Corbonaceous	, Layor Icm		
19	$\overline{\forall}$						No S/			
20 21	Å						upper 1/4 SAA			
22			110		al			acted Sitt		
23		27506	ųυ	2.0	Yry		LOWER 3/4 Grey Comp w/ Some V. fine Sards	\$ Black Mica		
24 25	M	4					NO 5/	0		
26	\wedge									

Page:



APPENDIX D

Photographic Log



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E N S O L U M	Photographic Log Hilcorp Energy Company Zachry Com 1A San Juan County, New Mexico
Photograph: 5 Date: 1/11/2024 Description: Location of soil sample "SS01"	Photograph: 6 Date: 1/11/2024 Description: BH06
View: Southeast	View: Northwest



APPENDIX E

Laboratory Analytical Reports

Analytical Report Lab Order 2401494

Date Reported:

J	• •			Du	ae Reported.			
CLIENT: HILCORP ENERGYProject:Zachary Com 1ALab ID:2401494-001	Matrix: SOIL	Client Sample ID: BH01 4-6 Collection Date: 1/10/2024 11:40: Matrix: SOIL Received Date: 1/12/2024 6:55:0						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: JKU			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/17/2024 2:36:29 PM			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/17/2024 2:36:29 PM			
Surr: DNOP	110	69-147	%Rec	1	1/17/2024 2:36:29 PM			
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2024 3:16:13 AM			
Surr: BFB	93.9	15-244	%Rec	1	1/17/2024 3:16:13 AM			
EPA METHOD 8021B: VOLATILES					Analyst: JJP			
Benzene	ND	0.024	mg/Kg	1	1/17/2024 3:16:13 AM			
Toluene	ND	0.048	mg/Kg	1	1/17/2024 3:16:13 AM			
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2024 3:16:13 AM			
Xylenes, Total	ND	0.095	mg/Kg	1	1/17/2024 3:16:13 AM			
Surr: 4-Bromofluorobenzene	85.9	39.1-146	%Rec	1	1/17/2024 3:16:13 AM			
EPA METHOD 300.0: ANIONS					Analyst: KCB			
Chloride	ND	60	mg/Kg	20	1/17/2024 1:18:26 PM			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 0

.

CLIENT: HILCORP ENERGY

Zachary Com 1A

2401494-002

Project:

Lab ID:

Analytical Report Lab Order 2401494

Date Reported:

Hall Environmental	Analysis 2	Laboratory, I	nc.
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Client Sample ID: BH01 24-26 Collection Date: 1/10/2024 11:47:00 AM Received Date: 1/12/2024 6:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/18/2024 5:06:40 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/18/2024 5:06:40 PM
Surr: DNOP	118	69-147	%Rec	1	1/18/2024 5:06:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/18/2024 6:37:22 PM
Surr: BFB	94.5	15-244	%Rec	1	1/18/2024 6:37:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/18/2024 6:37:22 PM
Toluene	ND	0.049	mg/Kg	1	1/18/2024 6:37:22 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/18/2024 6:37:22 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/18/2024 6:37:22 PM
Surr: 4-Bromofluorobenzene	86.2	39.1-146	%Rec	1	1/18/2024 6:37:22 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 12:47:12 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 2 of 0

*

Analytical Report Lab Order 2401494

Date Reported:

			Date Reported.				
CLIENT: HILCORP ENERGY	Client Sample ID: BH02 9-11						
Project: Zachary Com 1A	Collection Date: 1/10/2024 11:52:00 AM						
Lab ID: 2401494-003	Matrix: SOIL Received Date: 1/12/2024 6:55:00 AM						
Analyses	Result	RL Qual Units		DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS				Analyst: PRD		
Diesel Range Organics (DRO)	15	9.9	mg/Kg	1	1/18/2024 5:38:26 PM		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/18/2024 5:38:26 PM		
Surr: DNOP	106	69-147	%Rec	1	1/18/2024 5:38:26 PM		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: JJP		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/18/2024 7:48:27 PM		
Surr: BFB	108	15-244	%Rec	1	1/18/2024 7:48:27 PM		
EPA METHOD 8021B: VOLATILES					Analyst: JJP		
Benzene	ND	0.024	mg/Kg	1	1/18/2024 7:48:27 PM		
Toluene	ND	0.049	mg/Kg	1	1/18/2024 7:48:27 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	1/18/2024 7:48:27 PM		
Xylenes, Total	0.099	0.098	mg/Kg	1	1/18/2024 7:48:27 PM		
Surr: 4-Bromofluorobenzene	87.2	39.1-146	%Rec	1	1/18/2024 7:48:27 PM		
EPA METHOD 300.0: ANIONS					Analyst: SNS		
Chloride	ND	60	mg/Kg	20	1/18/2024 1:02:21 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 3 of 0

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CLIENT: HILCORP ENERGY

Zachary Com 1A

2401494-004

Project:

Lab ID:

Analytical Report Lab Order 2401494

Date Reported:

Client Sample ID: BH02 24-26 Collection Date: 1/10/2024 11:58:00 AM Received Date: 1/12/2024 6:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/18/2024 5:49:01 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/18/2024 5:49:01 PM
Surr: DNOP	114	69-147	%Rec	1	1/18/2024 5:49:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/18/2024 8:59:24 PM
Surr: BFB	98.9	15-244	%Rec	1	1/18/2024 8:59:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/18/2024 8:59:24 PM
Toluene	ND	0.049	mg/Kg	1	1/18/2024 8:59:24 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/18/2024 8:59:24 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/18/2024 8:59:24 PM
Surr: 4-Bromofluorobenzene	90.6	39.1-146	%Rec	1	1/18/2024 8:59:24 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 1:17:30 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 4 of 0

*
Date Reported:

			Du	te Reported.				
CLIENT: HILCORP ENERGY				Client Sample ID: BH03 14-16				
	Collection Date: 1/10/2024 12:50:00 PM							
Matrix: SOIL	Recei	ived Date:	1/12/2	024 6:55:00 AM				
Result	RL Qua	al Units	DF	Date Analyzed				
E ORGANICS				Analyst: PRD				
18	9.5	mg/Kg	1	1/18/2024 5:59:36 PM				
ND	47	mg/Kg	1	1/18/2024 5:59:36 PM				
104	69-147	%Rec	1	1/18/2024 5:59:36 PM				
GE				Analyst: JJP				
ND	4.8	mg/Kg	1	1/18/2024 9:22:55 PM				
93.4	15-244	%Rec	1	1/18/2024 9:22:55 PM				
				Analyst: JJP				
ND	0.024	mg/Kg	1	1/18/2024 9:22:55 PM				
ND	0.048	mg/Kg	1	1/18/2024 9:22:55 PM				
ND	0.048	mg/Kg	1	1/18/2024 9:22:55 PM				
ND	0.097	mg/Kg	1	1/18/2024 9:22:55 PM				
85.7	39.1-146	%Rec	1	1/18/2024 9:22:55 PM				
				Analyst: SNS				
ND	60	mg/Kg	20	1/18/2024 2:02:58 PM				
	Result E ORGANICS 18 ND 104 SE ND 93.4 ND ND ND ND ND ND S5.7	Collect Matrix: SOIL Receive Result RL Qua E ORGANICS 18 9.5 18 9.5 0 ND 47 0 104 69-147 0 SE ND 4.8 ND 0.024 ND 0.024 ND 0.048 ND 0.097 85.7 39.1-146	Natrix: SOIL Received Date: Result RL Qual Units E ORGANICS 18 9.5 mg/Kg ND 47 mg/Kg 104 69-147 %Rec SE ND 4.8 mg/Kg 93.4 15-244 %Rec ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.097 mg/Kg	Client Sample ID: BH03 Collection Date: 1/10/2 Matrix: SOIL Received Date: 1/12/2 Result RL Qual Units DF E ORGANICS 18 9.5 mg/Kg 1 ND 47 mg/Kg 1 104 69-147 %Rec 1 OB ND 4.8 mg/Kg 1 SE ND 4.8 mg/Kg 1 ND 0.024 mg/Kg 1 ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.097 mg/Kg 1 ND 0.097 mg/Kg 1 ND 0.097 mg/Kg 1 85.7 39.1-146 %Rec 1				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 0

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2401494

Date Reported: **CLIENT: HILCORP ENERGY** Client Sample ID: BH03 24-26 **Project:** Zachary Com 1A Collection Date: 1/10/2024 12:52:00 PM Lab ID: 2401494-006 Matrix: SOIL Received Date: 1/12/2024 6:55:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 12 9.7 1/18/2024 6:10:11 PM mg/Kg 1 Motor Oil Range Organics (MRO) ND 1 1/18/2024 6:10:11 PM 48 mg/Kg Surr: DNOP 112 69-147 %Rec 1 1/18/2024 6:10:11 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.6 mg/Kg 1 1/18/2024 9:46:32 PM Surr: BFB 1 1/18/2024 9:46:32 PM 94.2 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.023 mg/Kg 1 1/18/2024 9:46:32 PM Toluene ND 0.046 mg/Kg 1 1/18/2024 9:46:32 PM Ethylbenzene 1/18/2024 9:46:32 PM ND 0.046 mg/Kg 1

ND

85.8

ND

0.092

60

39.1-146

mg/Kg

%Rec

mg/Kg

1

1

20

1/18/2024 9:46:32 PM

1/18/2024 9:46:32 PM

1/18/2024 2:18:07 PM

Analyst: SNS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit S

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank в

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 6 of 0

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Date Reported:

Hall Environmental	Analysis 2	Laboratory, Inc.	•
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J	•			Du	te Reported.	
CLIENT: HILCORP ENERGY Project: Zachary Com 1A Lab ID: 2401494-007	Client Sample ID: BH04 4-6 Collection Date: 1/10/2024 1:53:00 PM Matrix: SOIL Received Date: 1/12/2024 6:55:00 AM					
Analyses	Result	RL Qual Units		DF	DF Date Analyzed	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: PRD	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/18/2024 6:20:46 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/18/2024 6:20:46 PM	
Surr: DNOP	108	69-147	%Rec	1	1/18/2024 6:20:46 PM	
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/18/2024 10:10:24 PM	
Surr: BFB	94.4	15-244	%Rec	1	1/18/2024 10:10:24 PM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.024	mg/Kg	1	1/18/2024 10:10:24 PM	
Toluene	ND	0.048	mg/Kg	1	1/18/2024 10:10:24 PM	
Ethylbenzene	ND	0.048	mg/Kg	1	1/18/2024 10:10:24 PM	
Xylenes, Total	ND	0.096	mg/Kg	1	1/18/2024 10:10:24 PM	
Surr: 4-Bromofluorobenzene	86.2	39.1-146	%Rec	1	1/18/2024 10:10:24 PM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	82	60	mg/Kg	20	1/18/2024 2:33:16 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 7 of 0

CLIENT: HILCORP ENERGY

Zachary Com 1A

2401494-008

Project:

Lab ID:

Analytical Report Lab Order 2401494

Date Reported:

Client Sample ID: BH04 24-26 Collection Date: 1/10/2024 2:00:00 PM Received Date: 1/12/2024 6:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/18/2024 6:31:21 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/18/2024 6:31:21 PM
Surr: DNOP	113	69-147	%Rec	1	1/18/2024 6:31:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/18/2024 10:34:17 PM
Surr: BFB	93.8	15-244	%Rec	1	1/18/2024 10:34:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/18/2024 10:34:17 PM
Toluene	ND	0.048	mg/Kg	1	1/18/2024 10:34:17 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/18/2024 10:34:17 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/18/2024 10:34:17 PM
Surr: 4-Bromofluorobenzene	86.2	39.1-146	%Rec	1	1/18/2024 10:34:17 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 2:48:25 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported:

v	•			Du	te Reported.
CLIENT: HILCORP ENERGYProject: Zachary Com 1ALab ID: 2401494-009	Client Sample ID: BH05 4-6 Collection Date: 1/10/2024 2:30:00 PM Matrix: SOIL Received Date: 1/12/2024 6:55:00 AM				
Analyses	Result	RL Qual Units		DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/18/2024 6:52:23 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/18/2024 6:52:23 PM
Surr: DNOP	112	69-147	%Rec	1	1/18/2024 6:52:23 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/18/2024 10:57:46 PM
Surr: BFB	91.7	15-244	%Rec	1	1/18/2024 10:57:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/18/2024 10:57:46 PM
Toluene	ND	0.048	mg/Kg	1	1/18/2024 10:57:46 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/18/2024 10:57:46 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/18/2024 10:57:46 PM
Surr: 4-Bromofluorobenzene	84.8	39.1-146	%Rec	1	1/18/2024 10:57:46 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 3:03:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Date Reported:

J.	• •			Du	te Reported.	
CLIENT: HILCORP ENERGY Project: Zachary Com 1A	Client Sample ID: BH05 19-21 Collection Date: 1/10/2024 2:35:00 PM					
Lab ID: 2401494-010	Matrix: SOIL Received Date: 1/12					
Analyses	Result	RL Qual Units		DF Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: PRD	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/18/2024 7:02:59 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/18/2024 7:02:59 PM	
Surr: DNOP	119	69-147	%Rec	1	1/18/2024 7:02:59 PM	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/18/2024 11:21:15 PM	
Surr: BFB	93.5	15-244	%Rec	1	1/18/2024 11:21:15 PM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.024	mg/Kg	1	1/18/2024 11:21:15 PM	
Toluene	ND	0.048	mg/Kg	1	1/18/2024 11:21:15 PM	
Ethylbenzene	ND	0.048	mg/Kg	1	1/18/2024 11:21:15 PM	
Xylenes, Total	ND	0.095	mg/Kg	1	1/18/2024 11:21:15 PM	
Surr: 4-Bromofluorobenzene	86.4	39.1-146	%Rec	1	1/18/2024 11:21:15 PM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	ND	60	mg/Kg	20	1/18/2024 3:18:44 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 0

Date Reported:

J	5)			Du	ae Reported.
CLIENT: HILCORP ENERGY Project: Zachary Com 1A Lab ID: 2401494-011	Matrix: SOIL	Collect		1/11/2	4-6 2024 10:21:00 AM 2024 6:55:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	220	9.5	mg/Kg	1	1/18/2024 7:13:43 PM
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	1/18/2024 7:13:43 PM
Surr: DNOP	116	69-147	%Rec	1	1/18/2024 7:13:43 PM
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/18/2024 11:44:49 PM
Surr: BFB	104	15-244	%Rec	1	1/18/2024 11:44:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/18/2024 11:44:49 PM
Toluene	ND	0.048	mg/Kg	1	1/18/2024 11:44:49 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/18/2024 11:44:49 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/18/2024 11:44:49 PM
Surr: 4-Bromofluorobenzene	85.7	39.1-146	%Rec	1	1/18/2024 11:44:49 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1200	60	mg/Kg	20	1/18/2024 3:33:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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CLIENT: HILCORP ENERGY

Zachary Com 1A

2401494-012

Project:

Lab ID:

Analytical Report Lab Order 2401494

Date Reported:

Client Sample ID: BH06 24-26 Collection Date: 1/11/2024 10:22:00 AM Received Date: 1/12/2024 6:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/18/2024 7:53:56 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/18/2024 7:53:56 PM
Surr: DNOP	103	69-147	%Rec	1	1/18/2024 7:53:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/19/2024 12:32:01 AM
Surr: BFB	91.2	15-244	%Rec	1	1/19/2024 12:32:01 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/19/2024 12:32:01 AM
Toluene	ND	0.050	mg/Kg	1	1/19/2024 12:32:01 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/19/2024 12:32:01 AM
Xylenes, Total	ND	0.10	mg/Kg	1	1/19/2024 12:32:01 AM
Surr: 4-Bromofluorobenzene	83.9	39.1-146	%Rec	1	1/19/2024 12:32:01 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 3:49:04 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 12 of 0

*

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

	5					Du	te Reported.
CLIENT:	HILCORP ENERGY		Clie	nt Sar	nple ID:	SS01	
Project:	Zachary Com 1A		Co	ollection	on Date:	1/11/2	024 10:15:00 AM
Lab ID:	2401494-013	Matrix: SOIL	R	leceiv	ed Date:	1/12/2	024 6:55:00 AM
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst: DGH
Diesel Ra	ange Organics (DRO)	330	9.7		mg/Kg	1	1/23/2024 12:55:33 PM
Motor Oil	I Range Organics (MRO)	ND	49		mg/Kg	1	1/23/2024 12:55:33 PM
Surr: [DNOP	107	69-147		%Rec	1	1/23/2024 12:55:33 PM
EPA ME	THOD 8015D: GASOLINE RANG	θE					Analyst: JJP
Gasoline	Range Organics (GRO)	880	46		mg/Kg	10	1/24/2024 12:34:16 AM
Surr: E	3FB	665	15-244	S	%Rec	10	1/24/2024 12:34:16 AM
EPA ME	THOD 8021B: VOLATILES						Analyst: JJP
Benzene		ND	0.23		mg/Kg	10	1/24/2024 12:34:16 AM
Toluene		2.9	0.46		mg/Kg	10	1/24/2024 12:34:16 AM
Ethylben	zene	4.5	0.46		mg/Kg	10	1/24/2024 12:34:16 AM
Xylenes,	Total	56	0.92		mg/Kg	10	1/24/2024 12:34:16 AM
Surr: 4	1-Bromofluorobenzene	108	39.1-146		%Rec	10	1/24/2024 12:34:16 AM
EPA ME	THOD 300.0: ANIONS						Analyst: KCB
Chloride		ND	60		mg/Kg	20	1/23/2024 12:01:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 308381

QUESTIONS			
Operator:	OGRID:		
HILCORP ENERGY COMPANY	372171		
1111 Travis Street	Action Number:		
Houston, TX 77002	308381		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2331717075
Incident Name	NAPP2331717075 ZACHRY COM 1A @ 30-045-23311
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-045-23311] ZACHRY COM #001A

Location of Release Source

Please answer all the questions in this group.			
Site Name	ZACHRY COM 1A		
Date Release Discovered	10/30/2023		
Surface Owner	State		

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	Νο		
Has this release endangered or does it have a reasonable probability of endangering public health	Νο		
Has this release substantially damaged or will it substantially damage property or the environment	Νο		
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	Νο		

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.					
Crude Oil Released (bbls) Details	Not answered.				
Produced Water Released (bbls) Details	Not answered.				
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.				
Condensate Released (bbls) Details	Cause: Equipment Failure Tank (Any) Condensate Released: 16 BBL Recovered: 0 BBL Lost: 16 BBL.				
Natural Gas Vented (Mcf) Details	Not answered.				
Natural Gas Flared (Mcf) Details	Not answered.				
Other Released Details	Not answered.				
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.				

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

QUESTIONS, Page 2

Action 308381

Page 47 of 52

Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number Houston, TX 77002 308381 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS (continued)

QUESTIONS

Initial Response

Nature and Volume of Release (continued)				
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.			
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No			
Reasons why this would be considered a submission for a notification of a major release	Unavailable.			
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.				

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	Not answered.		
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative or actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.			
	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases 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
The object of a bight of the above statement	Email: shyde@ensolum.com
	Date: 01/26/2024

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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 3

Action 308381

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Action

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	308381
	Action Type:
	[C-1/1] Site Char /Remediation Plan C-1/1 (C-1/1-v-Plan)

QUESTIONS (continued)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 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 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 1200 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 1210 GRO+DRO (EPA SW-846 Method 8015M) 1210 BTEX (EPA SW-846 Method 8021B or 8260B) 63 (EPA SW-846 Method 8021B or 8260B) Benzene 0 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 04/01/2024 On what date will (or did) the final sampling or liner inspection occur 01/10/2024 On what date will (or was) the remediation complete(d) 05/01/2024 What is the estimated surface area (in square feet) that will be reclaimed 750 What is the estimated volume (in cubic yards) that will be reclaimed 111 What is the estimated surface area (in square feet) that will be remediated 750 What is the estimated volume (in cubic yards) that will be remediated 111 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

District I

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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 4

Action 308381

QUESTIONS (continued)		
Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	308381	
	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.) Yes Which OCD approved facility will be used for off-site disposal ENVIROTECH LANDFARM #2 [fEEM0112336756] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Name: Stuart Hyde Title: Senior Geologist I hereby agree and sign off to the above statement Email: shyde@ensolum.com Date: 01/26/2024

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.

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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 (continued)	
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
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	-

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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QUESTIONS (continued) Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number Houston, TX 77002 308381 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	301484
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/12/2024
What was the (estimated) number of samples that were to be gathered	18
What was the sampling surface area in square feet	30000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. Requesting a remediation closure approval with this submission No

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CONDITIONS

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CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	308381
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By		Condition Date
nvelez	Remediation Plan is approved as written. Please provide site characterization supporting documentation within the final remediation closure report (e.g. lakebed, playa lake, subsurface mines, floodplains). Hilcorp has 90-days (July 1, 2024) to submit to OCD its appropriate or final remediation closure report.	4/1/2024