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	NAPP2224945459
District RP	
Facility ID	
Application ID	

## I Release Notification

### **Responsible Party**

Dagmangih	la Dantru III	a ann Enangy		OCDI	D 372171
Responsible Party: Hilcorp Energy  Contact Name: Kate Kaufman					
Contact Name: Kate Kaufman  Contact email: kkaufman@hilcorp.com					ct Telephone: 346-237-2275
		-			ent # (assigned by OCD)
Contact m	ailing addre	ss: 1111 Travis S	St. Houston, TX	77471	
			Locati	on of Releas	e Source
Latitude 36	5.5649		(NAD 83	Longitu in decimal degrees to 5	de -107.82607
Site Name:	Lodewick	8E		Site T	ype: Well Site
Date Relea	se Discovere	ed: 8/26/2022		API# (	if applicable) 30-045-23877
Unit Letter	Section	Township	Range	Co	unty
В	19	027N	009W	San Juan	
			ct all that apply and a	and Volume	ecific justification for the volumes provided below)
Crude		Volume Rele			Volume Recovered (bbls)
⊠ Produc	ed Water	Volume Rele	eased (bbls) 47.5		Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride produced water >10,000 mg/l?			☐ Yes ⊠ No	
Conder Conder	☐ Condensate Volume Released (bbls) 20.7			Volume Recovered (bbls) 0	
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units		ovide units)	Volume/Weight Recovered (provide units)		
Unknown	hydrocarbor	ı			
	in tank side			sate and produced v drained to allow fo	water that remained within a partially lined containment area. or repairs.

Received by OCD: 12/13/2022 2:40:53 PM Form C-141 State of New Mexico Oil Conservation Division Page 2

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Incident ID	NAPP2224945459	
District RP		
Facility ID		

Application ID

	If YES, for what reason(s) does the responsible party consider this a major release? Release volume greater than 25 bbls of condensate and produced water.  Ditice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  as made by Clara Cardoza via email at 3:37 PM MST on Friday, 8/26/2022 to Emmanuel Adeloye at BLM and other condensate and produced water.
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
Released materials ha All free liquids and re	ease has been stopped.  Is been secured to protect human health and the environment.  Inve been contained via the use of berms or dikes, absorbent pads, or other containment devices.  Invecoverable materials have been removed and managed appropriately.  If above have not been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environment failed to adequately investigation	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
	ufman Title:Environmental Specialist
Signature: Kathyukan	Date:9/6/2022
	orp.com Telephone:346-237-2275
OCD Only	
Received by:	Date:

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Incident ID	NAPP2224945459	
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?	351 (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?			
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 <b>not</b> on an exploration, development, production, or storage site?	☐ 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.			
Characterization Report Checklist: Each of the following items must be included in the report.			
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel</li> <li>☐ Field data</li> <li>☐ Data table of soil contaminant concentration data</li> <li>☐ Depth to water determination</li> </ul>	ls.		
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs			
<ul> <li>☑ Photographs including date and GIS information</li> <li>☑ Topographic/Aerial maps</li> </ul>			

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.

□ Laboratory data including chain of custody

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Incident ID	NAPP2224945459
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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:Kathryn H Kaufman Title:Environmental Specialist
Signature: Date:12-13-2022
email:kkaufman@hilcorp.com Telephone:346-237-2275
OCD Only
Received by: Jocelyn Harimon Date:12/13/2022

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Incident ID	NAPP2224945459	
District RP		
Facility ID		
Application ID		

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>□ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:Clara Cardoza	Title:Environmental Specialist
Signature:	Date:
email:ccardoza@hilcorp.com	Telephone:505.564.0733
OCD Only	
Received by:	Date:12/13/2022
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Mate of New Mexico

Incident ID	NAPP2224945459
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: _Kathryn H. Kaufman Title: _Environmental Specialist   Date: 12-13-2021
OCD Only
Received by: Jocelyn Harimon Date:12/13/2022
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Nelson Velez Date: 12/23/2022
Closure Approved by: Nelson Velez  Printed Name: Nelson Velez  Date: 12/23/2022  Title: Environmental Specialist - Adv

#### Kate Kaufman

From: Velez, Nelson, EMNRD < Nelson.Velez@emnrd.nm.gov>

Sent: Wednesday, November 16, 2022 9:02 AM

To: Kate Kaufman

Subject: RE: [EXTERNAL] Hilcorp Release Reporting

**CAUTION:** External sender. DO NOT open links or attachments from UNKNOWN senders.

Good morning Kate,

Thank you for the notice. After a review of the available documents (bgt permits located in each well file) and our discussion yesterday afternoon, OCD has granted time extensions for both locations listed in your email below. New deadline for both is 12/16/2022 and has been updated in both incident pages. According to our records, these are initial time extension requests for both sites.

Any bgt related inquiries should initially go through Jaclyn Burdine of the environmental permitting group.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov NOTE NEW EMAIL ADDRESS http://www.emnrd.state.nm.us/OCD/



From: Kate Kaufman < kkaufman@hilcorp.com > Sent: Tuesday, November 15, 2022 1:42 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Subject: [EXTERNAL] Hilcorp Release Reporting

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Nelson -

I tried to give you a call this afternoon (your VM box is full, by the way.)

Do you have time for a call today or tomorrow to discuss a couple recent Hilcorp releases?

- 1. Lodewick 8E release date 8/26/2022, nAPP2224945459. We have completed a dig and haul at this location, and are waiting on analytical data for closure. The 90 day reporting deadline is 11/24/2022. If I do not have analytical results back by that time, can I please request a 7-14 day extension for the 90 day report? Please let me know if you need me to submit anything via the portal.
- 2. Riddle Gas Com A 1R release date 8/25/2022, nAPP2224436644 similar situation with this release. Due to encountering sandstone at the location, our delineation efforts took a little longer than expected. We are planning to dig and haul at this location, and should be able to start this week. However, I likely will not have analytical data back by the 90 day reporting timeframe (11/23) and would like to request an extension. I would also like to get your input on the BGT next to the release location, and our plan for sampling.

Thank you!

Kate

Kate Kaufman | Senior Environmental Specialist | Hilcorp Energy Company O: 346-237-2275 | C: 907-244-8292 | <a href="mailto:kkaufman@hilcorp.com">kkaufman@hilcorp.com</a>

1111 Travis St. | Houston | TX | 77002

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## Executive Summary – Incident #nAPP2224945459

On August 28, 2022, approximately 48 barrels of produced water and 21 barrels of oil were released from an above ground storage tank at the Lodewick #8E wellsite (30-045-23877) S19, T27N, R09W, B. The release was due to corrosion on the sidewall of the tank. The release was discovered at 12:51 PM MST on Friday, August 26 and was reported to NMOCD and BLM at 3:37 PM MST that same day.

The tank sidewall developed a hole approximately six inches above the base and impacted an area approximately 30' by 27' inside the berm. The release remained inside the berm, in a partially lined containment area. No fluids were recovered. There was no immediate danger to the public and no fire occurred as a result of the release. The well was shut in and the tank drained for inspection and repair prior to being put back into service.

Eleven 5-point composite samples were collected on November 10, 2022. Analytical results from this sampling event were below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample results are included.

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## Scaled Site Map

Lat: 36.5649 Long: -107.82607

Lodewick #8E Wellsite API: 30-045-23877

Release Area



N

## Depth to groundwater determination.

BGT Siting Criteria for Lodewick 8E

Estimated depth to groundwater is greater than 368'.

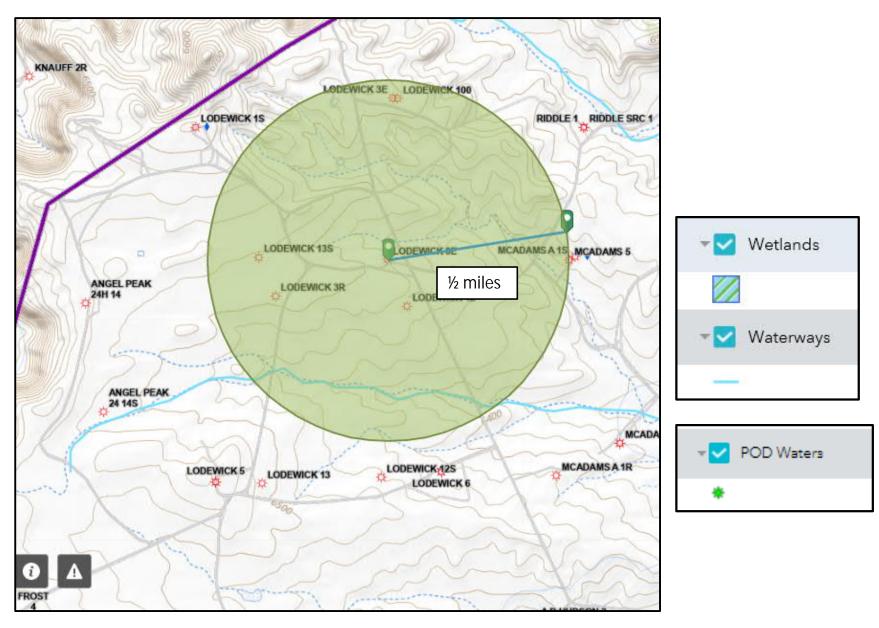
#### **LODEWICK 8E**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LODEWICK 8E', which is located at 36.5649 degrees North latitude and 107.82607 degrees West longitude. This location is located on the Huerfanito Peak 7.5' USGS topographic quadrangle. This location is in section 19 of Township 27 North Range 9 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Blanco, located 10.9 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 24.1 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 7.4 miles to the southwest. The location is on BLM land and is 7,103 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located 1977 meters or 6484 feet above sea level and receives 11 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 368 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 300 feet to the north and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,637 feet to the northwest. The nearest water body is 1.634 feet to the northwest. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 11,161 feet to the north. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 12,331 feet to the east. The nearest wetland is a 131.9 acre Ravine located 7,250 feet to the southeast. The slope at this location is 1 degrees to the northeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Fruitland-Persayo-Sheppard complex, hilly' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 24.8 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

# Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



Note 1: Release point is within 300 ft of a continuously flowing watercourse or other significant water course.

Note 2: The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.

## Distance to mapped water wells.



Note: The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

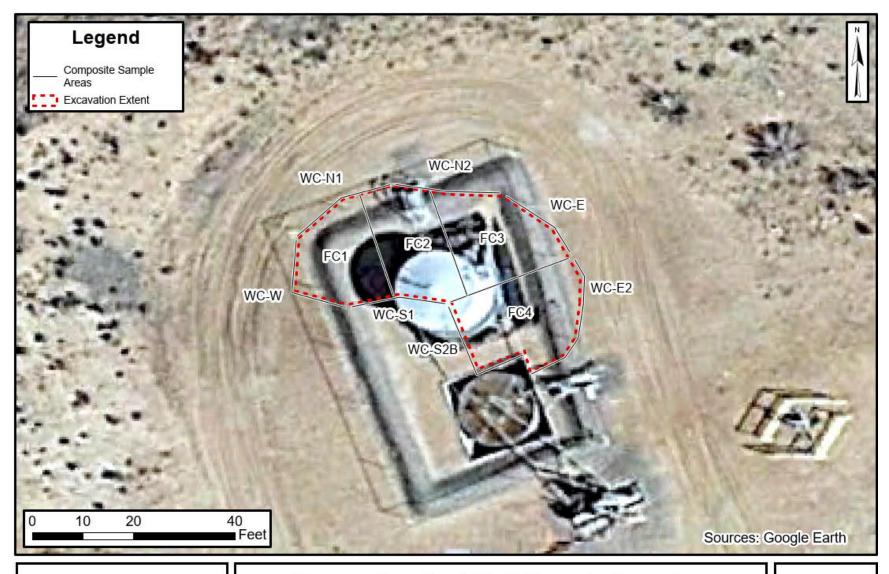
## Data table of soil contaminant concentrations

				Lodewick #8E Laboratory Results									
								TPH as					
		Field VOCs		TPH as	TPH as	TPH as		GRO +				Total	
		by PID	Chloride	DRO	GRO	MRO	Total TPH	DRO	Benzene	Toluene	Ethylbenzene	Xylene	Total BTEX
Sample Name	Sample Date	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
19.15.29 Table	1 Closure Crite	eria	600	-	-	-	100	-	10	-	-	-	50
Floor Composite 1	11/10/2022	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Floor Composite 2	11/10/2022	8.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Floor Composite 3	11/10/2022	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Floor Composite 4	11/10/2022	70.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall Composite N1	11/10/2022	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall Composite N2	11/10/2022	1.3	ND	28	ND	ND	28	28	ND	ND	ND	ND	ND
Wall Composite E	11/10/2022	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall Composite S1	11/10/2022	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall Composite W	11/10/2022	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall Composite E2	11/10/2022	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall Composite S2B	11/10/2022	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Confirmation samples were collected on 11/10/2022 by Ensolum and all results were below NMOCD 19.15.29.12.D Table 1 closure criteria.

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## Field Sample Diagram





## **Excavation And Soil Sample Locations**

Lodewick 8E Hilcorp Energy Company FIGURE 1

## Sample Photos – Southwest to Southeast



## Sample Photos – East to West



## Sample Photos – West to East

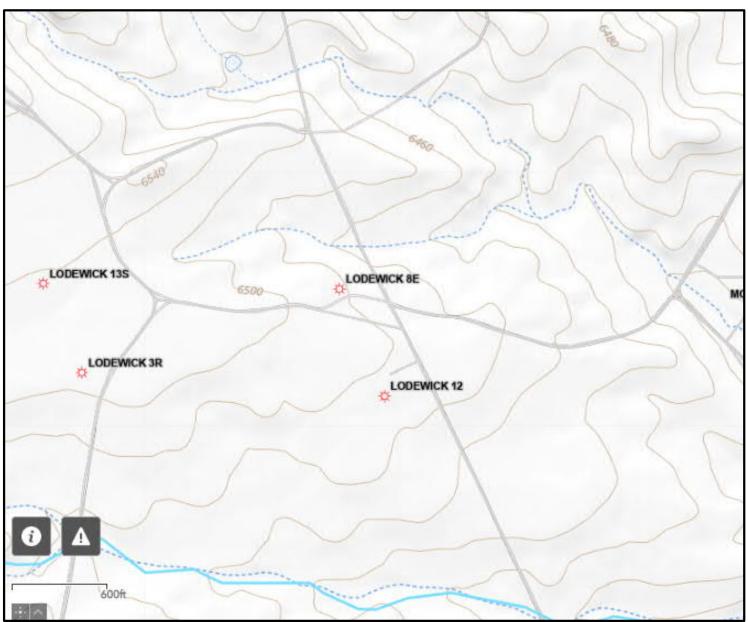


## Sample Photos – North to South



N

## Topographic Map



Analytical Data, Sample Collected 11/10/2022.

See attached Lab Report.

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/18/2022

CLIENT: HILCORP ENERGY Client Sample ID: FC1

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 12:55:00 PM

 Lab ID:
 2211695-001
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 4:28:17 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/16/2022 4:28:17 AM
Surr: DNOP	102	21-129	%Rec	1	11/16/2022 4:28:17 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/15/2022 1:38:00 AM
Surr: BFB	98.1	37.7-212	%Rec	1	11/15/2022 1:38:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	11/15/2022 1:38:00 AM
Toluene	ND	0.047	mg/Kg	1	11/15/2022 1:38:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	11/15/2022 1:38:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	11/15/2022 1:38:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	11/15/2022 1:38:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/15/2022 7:09:56 PM

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

Date Reported: 11/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: FC2

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 12:58:00 PM

 Lab ID:
 2211695-002
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 4:38:46 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/16/2022 4:38:46 AM
Surr: DNOP	103	21-129	%Rec	1	11/16/2022 4:38:46 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/15/2022 2:17:00 AM
Surr: BFB	100	37.7-212	%Rec	1	11/15/2022 2:17:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	11/15/2022 2:17:00 AM
Toluene	ND	0.047	mg/Kg	1	11/15/2022 2:17:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	11/15/2022 2:17:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	11/15/2022 2:17:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	11/15/2022 2:17:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/15/2022 7:22:21 PM

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/18/2022

CLIENT: HILCORP ENERGY Client Sample ID: FC3

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:04:00 PM

 Lab ID:
 2211695-003
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 4:49:13 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/16/2022 4:49:13 AM
Surr: DNOP	104	21-129	%Rec	1	11/16/2022 4:49:13 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2022 2:36:00 AM
Surr: BFB	98.5	37.7-212	%Rec	1	11/15/2022 2:36:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/15/2022 2:36:00 AM
Toluene	ND	0.048	mg/Kg	1	11/15/2022 2:36:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/15/2022 2:36:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	11/15/2022 2:36:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	11/15/2022 2:36:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	61	mg/Kg	20	11/15/2022 7:59:34 PM

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

Page 3 of 18

Date Reported: 11/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: WC-N1

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:07:00 PM

 Lab ID:
 2211695-004
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE ORG	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 4:59:40 AM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/16/2022 4:59:40 AM	
Surr: DNOP	103	21-129	%Rec	1	11/16/2022 4:59:40 AM	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2022 2:56:00 AM	
Surr: BFB	97.2	37.7-212	%Rec	1	11/15/2022 2:56:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	11/15/2022 2:56:00 AM	
Toluene	ND	0.048	mg/Kg	1	11/15/2022 2:56:00 AM	
Ethylbenzene	ND	0.048	mg/Kg	1	11/15/2022 2:56:00 AM	
Xylenes, Total	ND	0.096	mg/Kg	1	11/15/2022 2:56:00 AM	
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	11/15/2022 2:56:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	ND	60	mg/Kg	20	11/15/2022 8:11:59 PM	

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

Date Reported: 11/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: WC-N2

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:10:00 PM

 Lab ID:
 2211695-005
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	28	14	mg/Kg	1	11/16/2022 5:10:06 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/16/2022 5:10:06 AM
Surr: DNOP	105	21-129	%Rec	1	11/16/2022 5:10:06 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2022 3:16:00 AM
Surr: BFB	107	37.7-212	%Rec	1	11/15/2022 3:16:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/15/2022 3:16:00 AM
Toluene	ND	0.048	mg/Kg	1	11/15/2022 3:16:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/15/2022 3:16:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	11/15/2022 3:16:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	11/15/2022 3:16:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	61	mg/Kg	20	11/15/2022 8:49:12 PM

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/18/2022

CLIENT: HILCORP ENERGY Client Sample ID: WC-E

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:13:00 PM

 Lab ID:
 2211695-006
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 5:20:30 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/16/2022 5:20:30 AM
Surr: DNOP	106	21-129	%Rec	1	11/16/2022 5:20:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2022 3:35:00 AM
Surr: BFB	95.9	37.7-212	%Rec	1	11/15/2022 3:35:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	11/15/2022 3:35:00 AM
Toluene	ND	0.049	mg/Kg	1	11/15/2022 3:35:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	11/15/2022 3:35:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	11/15/2022 3:35:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	11/15/2022 3:35:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/15/2022 9:01:37 PM

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: 11/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: WC-S1

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:14:00 PM

 Lab ID:
 2211695-007
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 5:30:52 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/16/2022 5:30:52 AM
Surr: DNOP	102	21-129	%Rec	1	11/16/2022 5:30:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2022 3:55:00 AM
Surr: BFB	98.0	37.7-212	%Rec	1	11/15/2022 3:55:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/15/2022 3:55:00 AM
Toluene	ND	0.048	mg/Kg	1	11/15/2022 3:55:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/15/2022 3:55:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	11/15/2022 3:55:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	11/15/2022 3:55:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/15/2022 9:14:02 PM

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

Date Reported: 11/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: WC-W

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:17:00 PM

 Lab ID:
 2211695-008
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE ORG	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 5:41:09 AM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/16/2022 5:41:09 AM	
Surr: DNOP	107	21-129	%Rec	1	11/16/2022 5:41:09 AM	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/15/2022 4:14:00 AM	
Surr: BFB	96.4	37.7-212	%Rec	1	11/15/2022 4:14:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: RAA	
Benzene	ND	0.024	mg/Kg	1	11/15/2022 4:14:00 AM	
Toluene	ND	0.049	mg/Kg	1	11/15/2022 4:14:00 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	11/15/2022 4:14:00 AM	
Xylenes, Total	ND	0.098	mg/Kg	1	11/15/2022 4:14:00 AM	
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	11/15/2022 4:14:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: NAI	
Chloride	ND	60	mg/Kg	20	11/15/2022 9:26:26 PM	

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/18/2022

CLIENT: HILCORP ENERGY Client Sample ID: FC4

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:20:00 PM

 Lab ID:
 2211695-009
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/16/2022 5:51:26 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/16/2022 5:51:26 AM
Surr: DNOP	107	21-129	%Rec	1	11/16/2022 5:51:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/15/2022 4:34:00 AM
Surr: BFB	101	37.7-212	%Rec	1	11/15/2022 4:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	11/15/2022 4:34:00 AM
Toluene	ND	0.048	mg/Kg	1	11/15/2022 4:34:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	11/15/2022 4:34:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	11/15/2022 4:34:00 AM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	11/15/2022 4:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/15/2022 9:38:50 PM

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: 11/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: WC-E2

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:25:00 PM

 Lab ID:
 2211695-010
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/15/2022 8:57:40 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/15/2022 8:57:40 PM
Surr: DNOP	104	21-129	%Rec	1	11/15/2022 8:57:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/14/2022 4:53:31 PM
Surr: BFB	89.7	37.7-212	%Rec	1	11/14/2022 4:53:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/14/2022 4:53:31 PM
Toluene	ND	0.048	mg/Kg	1	11/14/2022 4:53:31 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/14/2022 4:53:31 PM
Xylenes, Total	ND	0.096	mg/Kg	1	11/14/2022 4:53:31 PM
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	11/14/2022 4:53:31 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/15/2022 9:51:15 PM

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

Page 10 of 18

Date Reported: 11/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: WC-S2B

 Project:
 Lodewick 8E
 Collection Date: 11/10/2022 1:28:00 PM

 Lab ID:
 2211695-011
 Matrix: SOIL
 Received Date: 11/11/2022 6:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	11/15/2022 9:29:31 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	11/15/2022 9:29:31 PM
Surr: DNOP	111	21-129	%Rec	1	11/15/2022 9:29:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/14/2022 5:17:10 PM
Surr: BFB	90.5	37.7-212	%Rec	1	11/14/2022 5:17:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/14/2022 5:17:10 PM
Toluene	ND	0.049	mg/Kg	1	11/14/2022 5:17:10 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/14/2022 5:17:10 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/14/2022 5:17:10 PM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	11/14/2022 5:17:10 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	11/15/2022 10:28:29 PM

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

Page 11 of 18

Client:	Hilc	Kanf	ustody Record	Proje	ct Nam	day e: ew:						<b>A</b> wki	www ns N	<b>AL</b> v.hal IE -	lenv Alb	ironr	nent erqu	AE tal.co	во	7109	ATC		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 18, 2022

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Lodewick 8E OrderNo.: 2211695

#### Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 11 sample(s) on 11/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2211695** 

18-Nov-22

Client: HILCORP ENERGY

**Project:** Lodewick 8E

Sample ID: MB-71526 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71526 RunNo: 92584

Prep Date: 11/15/2022 Analysis Date: 11/15/2022 SeqNo: 3331242 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-71526 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71526 RunNo: 92584

Prep Date: 11/15/2022 Analysis Date: 11/15/2022 SeqNo: 3331243 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.5 90 110

#### 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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2211695** 

18-Nov-22

Client: HILCORP ENERGY

**Project:** Lodewick 8E

Sample ID: 2211695-010AMS	SampT	Гуре: <b>М</b> .	<u></u>	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: WC-E2	Batch	h ID: <b>71</b> 4	475	F	RunNo: 92	2583				
Prep Date: 11/14/2022	Analysis D	Date: 11	/15/2022	;	SeqNo: 3	330989	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	46.00	0	94.0	36.1	154			
Surr: DNOP	5.4		4.600		117	21	129			
Sample ID: 2211695-010AMSI	D SampT	уре: <b>М</b> .	SD	Tes	stCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: WC-E2	Batch	h ID: <b>71</b> 4	475	F	RunNo: 92	2583				
Prep Date: 11/14/2022	Analysis D	Date: 11	/15/2022	;	SeqNo: 33	330990	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	13	43.67	0	103	36.1	154	4.40	33.9	
Surr: DNOP	5.0		4.367		115	21	129	0	0	
Sample ID: LCS-71475	SampT	ype: <b>LC</b>	s	Tes	stCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	h ID: <b>71</b> 4	475	F	RunNo: 92	2583				
Prep Date: 11/14/2022	Analysis D	Date: 11	/15/2022	;	SeqNo: 3	331023	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.3	64.4	127			
Surr: DNOP	5.4		5.000		108	21	129			
Sample ID: LCS-71478	SampT	ype: <b>LC</b>	s	Tes	stCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	h ID: <b>71</b> 4	478	F	RunNo: 92	2583				
Prep Date: 11/14/2022	Analysis D	Date: 11	/16/2022	;	SeqNo: 3	331024	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	99.9	64.4	127			
Surr: DNOP	6.2		5.000		123	21	129			
Sample ID: <b>MB-71475</b>	SampT	уре: МЕ	BLK	Tes	stCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	h ID: <b>71</b> 4	475	F	RunNo: 92	2583				
Prep Date: 11/14/2022	Analysis D	Date: 11	/15/2022	;	SeqNo: 33	331025	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	21	129			

#### 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
- 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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### Hall Environmental Analysis Laboratory, Inc.

2211695

WO#:

18-Nov-22

Client: HILCORP ENERGY

**Project:** Lodewick 8E

Sample ID: MB-71478 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics **PBS** Client ID: Batch ID: 71478 RunNo: 92583 Prep Date: Analysis Date: 11/16/2022 SeqNo: 3331026 11/14/2022 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 15
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 10.00 104 21 129

#### 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
- 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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2211695** 

18-Nov-22

Client: HILCORP ENERGY

**Project:** Lodewick 8E

Project:	Lodewick	8E									
Sample ID:	mb-71451	SampT	уре: <b>ме</b>	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID:	PBS	Batch	ID: <b>71</b> 4	<b>451</b>	F	RunNo: 92	2559				
Prep Date:	11/11/2022	Analysis D	ate: 11	/14/2022	5	SeqNo: 3	328235	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	ND	5.0								
Surr: BFB		900		1000		89.7	37.7	212			
Sample ID:	lcs-71451	SampT	ype: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID:	LCSS	Batch	ID: <b>71</b> 4	<b>451</b>	F	RunNo: 92	2559				
Prep Date:	11/11/2022	Analysis D	ate: 11	/14/2022	S	SeqNo: 33	328236	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB		1900		1000		193	37.7	212			
Sample ID:	2211695-010ams	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID:	WC-E2	Batch	ID: <b>71</b> 4	<b>451</b>	F	RunNo: 92	2559				
Prep Date:	11/11/2022	Analysis D	ate: 11	/14/2022	5	SeqNo: 3	328238	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	21	4.9	24.44	0	87.0	70	130			
Surr: BFB		1800		977.5		186	37.7	212			
Sample ID:	2211695-010amsd	SampT	ype: <b>MS</b>	SD	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID:	WC-E2	Batch	ID: <b>71</b> 4	<b>451</b>	F	RunNo: 92	2559				
Prep Date:	11/11/2022	Analysis D	ate: 11	/14/2022	(	SeqNo: 3	328239	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	e Organics (GRO)	23	4.9	24.53	0	92.5	70	130	6.54	20	
Surr: BFB		1800		981.4		187	37.7	212	0	0	
Sample ID:	lcs-71448	SampT	ype: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID:	LCSS	Batch	ID: <b>71</b> 4	148	F	RunNo: 92	2569				
Prep Date:	11/11/2022	Analysis D	ate: 11	/14/2022	5	SeqNo: 33	328730	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	25	5.0	25.00	0	99.6	72.3	137			0
Surr: BFB		2300		1000		227	37.7	212			S
Sample ID:	mb-71448	SampT	ype: <b>ME</b>	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID:	PBS	Batch	ID: <b>71</b> 4	148	F	RunNo: 92	2569				
Prep Date:	11/11/2022	Analysis D	ate: 11	/14/2022	5	SeqNo: 33	328731	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

#### 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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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2211695** 

18-Nov-22

**Client:** HILCORP ENERGY

**Project:** Lodewick 8E

Sample ID: mb-71448 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 71448 RunNo: 92569

Prep Date: 11/11/2022 Analysis Date: 11/14/2022 SeqNo: 3328731 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.2 37.7 212

#### 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

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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2211695** 

18-Nov-22

Client: HILCORP ENERGY

**Project:** Lodewick 8E

Sample ID: mb-71451	Sample ID: mb-71451 SampType: MBLK				tCode: EF	les				
Client ID: PBS	Batch	n ID: <b>714</b>	<b>151</b>	F	RunNo: 92	2559				
Prep Date: 11/11/2022	Analysis D	)ate: 11	/14/2022	;	SeqNo: 3	328269	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	70	130			
Sample ID: LCS-71451	SampT	ype: <b>LC</b> :	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batch	n ID: <b>714</b>	<b>151</b>	F	RunNo: 92	2559				

Sample ID: <b>LCS-71451</b>	5	restcode. <b>EPA Method 8021B: Volatiles</b>										
Client ID: LCSS	Client ID: LCSS Batch ID: 71451					RunNo: <b>92559</b>						
Prep Date: 11/11/2022						328270	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.92	0.025	1.000	0	91.6	80	120					
Toluene	0.94	0.050	1.000	0	93.8	80	120					
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120					
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120					
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	70	130					

Sample 1D. <b>2211695-011ams</b>	Samp	Samprype. Wis			resicode. EPA Method 6021B: Volatiles					
Client ID: WC-S2B	Bato	Batch ID: 71451			RunNo: <b>92559</b>					
Prep Date: 11/11/2022	Analysis	Date: <b>11</b>	/14/2022	5	SeqNo: 3	328273	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9843	0	91.8	68.8	120			
Toluene	0.93	0.049	0.9843	0	94.8	73.6	124			
Ethylbenzene	0.94	0.049	0.9843	0	95.4	72.7	129			
Xylenes, Total	2.8	0.098	2.953	0	95.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9843		93.2	70	130			

Sample ID: 2211695-011amsd	D	TestCode: EPA Method 8021B: Volatiles								
Client ID: WC-S2B	Batcl	h ID: <b>71</b> 4	<b>151</b>	F	RunNo: 92	2559				
Prep Date: 11/11/2022	Analysis D	Date: 11	/14/2022	5	SeqNo: 3	328274	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9728	0	94.0	68.8	120	1.29	20	
Toluene	0.93	0.049	0.9728	0	96.1	73.6	124	0.135	20	
Ethylbenzene	0.93	0.049	0.9728	0	95.9	72.7	129	0.652	20	
Xylenes, Total	2.8	0.097	2.918	0	96.2	75.7	126	0.426	20	
Surr: 4-Bromofluorobenzene	0.90		0.9728		93.0	70	130	0	0	

#### 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
- 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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2211695** 

18-Nov-22

Client: HILCORP ENERGY

**Project:** Lodewick 8E

Sample ID: Ics-71448	Sample ID: Ics-71448 SampTy			Tes	tCode: El	les				
Client ID: LCSS Batch ID: 71448			F	RunNo: <b>92569</b>						
Prep Date: 11/11/2022	Analysis [	Date: 11	/14/2022	5	SeqNo: 3	328782	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: mb-71448	SampType: MBLK			Tes						
Client ID: PBS	Batch	n ID: <b>71</b> 4	448	F	RunNo: 92					
Prep Date: 11/11/2022	Analysis D	Date: 11	/14/2022	5	SeqNo: 3	328783	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

#### 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
- 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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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Hilcorp Energy	Work Order Numl	ber: <b>2211695</b>		RoptNo: 1	
Received By:	Juan Rojas	11/1/2022 6:35:00	ΑM	Giana y		
Completed By:	Cheyenne Cason	11/11/2022 7:24:58	AM	Gently.		
Reviewed By:	THE	11/11/22		G T		
Chain of Cus	rtody					
1. Is Chain of C	ustody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the	sample delivered?		Client			
<u>Log In</u>					_	
<ol><li>Was an atten</li></ol>	npt made to cool the sam	nples?	Yes 🔽	No	NA 🗆	
4. Were all sam	ples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	nple volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples	(except VOA and ONG) p	properly preserved?	Yes 🔽	No 🗆		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at le	east 1 vial with headspac	e <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sar	mple containers received	broken?	Yes	No 🗸	# of preserved	
11				n. 🗆	bottles checked	
	ork match bottle labels? ancies on chain of custoo	ty)	Yes 🗸	No 🗀	for pH: (<2 or >	12 unless noted)
	correctly identified on Ch	• -	Yes 🗸	No 🗌	Adjusted?	
	t analyses were requeste		Yes 🗹	No 🗌		, 1
	ing times able to be met?		Yes 🗹	No 🗆	Checked by:	N1111/22
	ling (if applicable)	,		•		
	otified of all discrepancies	s with this order?	Yes 🗌	No 🗆	NA 🗹	
Person	Notified:	Date:				
By Who	om:	Via:	eMail	Phone 🔲 Fax	☐ In Person	
Regard	ling:					
Client I	nstructions:					
16. Additional re	emarks:					
17. Cooler Info	rmation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1	0.5 Good	Not Present				

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

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

Action 166602

#### **CONDITIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	166602
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/23/2022