<u>District I</u> 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 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	
District RP	
Facility ID	
Application ID	

### I Release Notification

#### **Responsible Party**

Responsible Party Hilcorp Energy					OGRID 372171			
Contact Na	ame: Kate k	Kaufman			Contact Telephone: 346-237-2275			
Contact email: kkaufman@hilcorp.com					Incident #	ncident # (assigned by OCD) nAPP2313243978		
Contact m	ailing addres	ss: 1111 Travis S	t. Houston, TX	77471	1			
			Locati	on of R	elease So	ource		
Latitude 36	5.690871		(NAD 83		Longitude - grees to 5 decin	·107.861444_ nal places)		
Site Name:	Abrams L	#1			Site Type:	Well Site		
Date Relea	se Discovere	ed: 2/16/2023			API# (if app	plicable) 30-045	5-25970	
Unit Letter	Section	Township	Danga		County		7	
J	23	029N	Range 011W	San Ju	·		-	
	23	02311	011 11	Sun su	uii			
Surface Ow	ner: 🗌 Stat	e  Federal	Tribal   Priva	ate (Name:	Ledfors			)
			No4	and Val	a a <b>f</b> I	Dalaasa		
			Nature a	ana voi	lume of I	Keiease		
		rial(s) Released (Selec		attach calculat	ions or specific			
Crude		Volume Relea	` ′				ecovered (bbls	,
Produc	ed Water	Volume Relea	ased (bbls)			Volume Re	ecovered (bbls	)
			eration of dissolver >10,000 mg/l		in the	Yes	] No	
Conder	isate	Volume Relea		•		Volume Re	ecovered (bbls	)
Natural	Gas	Volume Relea	ased (Mcf)			Volume Recovered (Mcf)		
Other (	describe)		ght Released (pro	ovide units)	)		-	red (provide units)
Historic H	ydrocarbon	Estimated 29	bbls			Estimated 2	29 bbls	
Cause of R	Lelease					•		
Historic co	ntamination	was discovered d	uring BGT perm	nit closure o	operations. I	nitial sample	results were r	received on 2/16/2023.
Hilcorp pro	oceeded with	n delineation and o	determined an es	stimated rel	ease volume	on 5/11/2023	3.	
i								

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Estimated release volume is greater than 25 bbls.
⊠ Yes □ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Notification was made to	Nelson Velez by Kate Kaufman via phone and email on 5/12/2023.
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ase has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
This is a historic release a	nd there was no active source at the time of discovery.
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 environmailed 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 ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 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: Katty Wat	Date:5/12/2023
	Drp.com         Telephone:346-237-2275
OCD Only	
Received by:	Date:

e of New Mexico

Incident ID NAPP2313243978

Incident ID	NAPP2313243978
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#### 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?	<50 (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?	□ Vas ☑ Na
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 <b>not</b> on an exploration, development, production, or storage site?	Yes No
	Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>	ls.

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.

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Incident ID	NAPP2313243978
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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: _5/16/2023
email:kkaufman@hilcorp.com
OCD Only
Received by: Jocelyn Harimon Date: 05/17/2023

Incident ID NAPP2313243978

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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 ite	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	1 NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	nediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for zions. The responsible party acknowledges they must substantially editions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Citle: _Environmental Specialist
OCD Only	
Received by: Jocelyn Harimon	Date: <u>05/17/2023</u>
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Nelson Velez	Date: 05/17/2023
Closure Approved by: Nelson Velez  Printed Name: Nelson Velez	Title: Environmental Specialist - Adv

## Executive Summary – Incident #nAPP2313243978

Hilcorp removed a below ground tank (BGT) at the Abrams L 1 wellsite (API 30-045-25670) on February 7, 2023. The closure sample results were above permit limits and above the NMOCD action criteria in NMAC 19.15.29 Table 1 for total petroleum hydrocarbons (TPH).

Hilcorp proceeded with delineation and removed approximately 500 yds<sup>3</sup> of clean and potentially impacted soil from the excavation. Impacted material will be hauled offsite for disposal. The final excavation dimensions were approximately 30'w x 30'l x 20' below ground surface. The historic hydrocarbon release volume was estimated to be approximately 29 bbls. Release volume estimate attached.

Five 5-point composite samples were collected from the base and sidewalls on 5/2/2023 and 5/5/2023. Analytical results from this sampling event were below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample results are included at the end of this summary report.

## Scaled Site Map

Lat: 36.690871 Long: -107.861444 Abrams L 1 Wellsite API: 30-045-25670



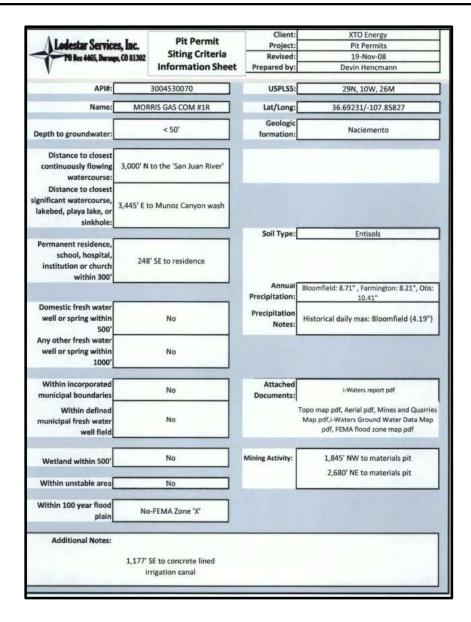


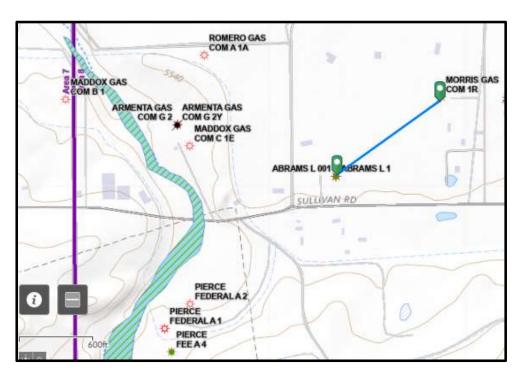
Ν

Released to Imaging: 5/17/2023 9:21:58 AM

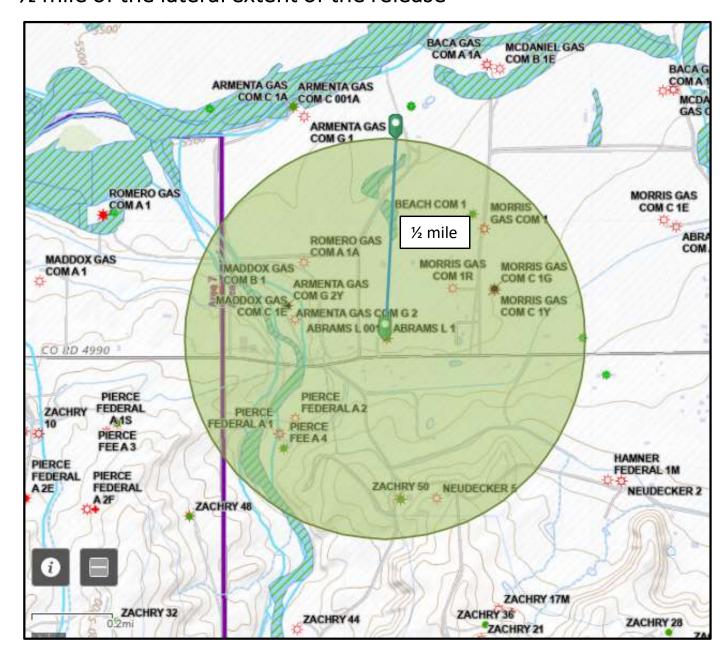
## Depth to groundwater determination.

Estimated depth to groundwater at the Abrams L 1 wellsite is <50'. Note siting criteria for the Morris Gas Com 1R, which is ~1,000' NE of the Abrams L 1 wellsite.





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



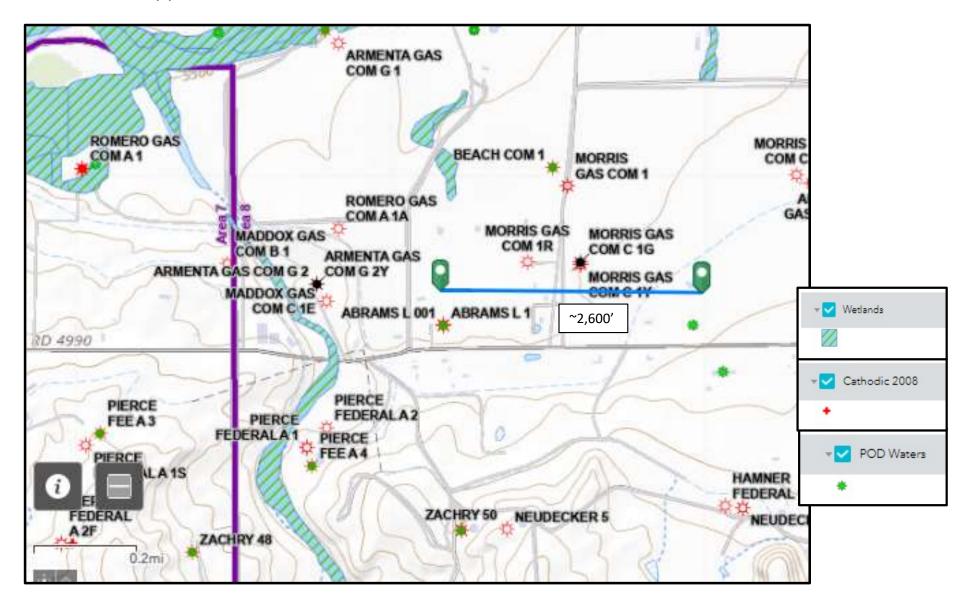




**Note 1:** Release point is not within 300 ft of a continuously flowing watercourse or other significant water course.

**Note 2:** The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland. *Released to Imaging: 5/17/2023 9:21:58 AM* 

### 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

		Abrams L #1 Laboratory Results										
Sample Name	Sample Date	Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	TPH as GRO + DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX (mg/kg)
BGT Permit Closu	re Criteria < 50'	600	-	-	-	100	-	10	-	-		50
BGT Closure Sample	02/07/23	ND	230	9	1100	1339	239	ND	ND	ND	0.42	0.42
S-2 - 20-26'	05/02/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
North Wall Composite	05/05/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
South Wall Composite	05/05/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
East Wall Composite	05/05/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
West Wall Composite	05/05/23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Confirmation samples were collected on 5/2/2023 and 5/5/2023 by Hilcorp personnel and all results were below NMOCD 19.15.29.12.D Table 1 closure criteria.

## Field Sample Diagram

Samples were collected on 5/2/2023 and 5/5/2023.



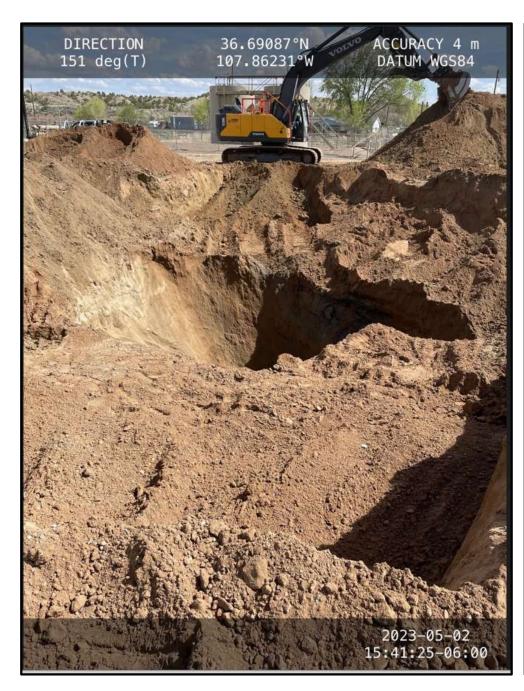
## Sample Photos – Aerial Image, 5/5/20203

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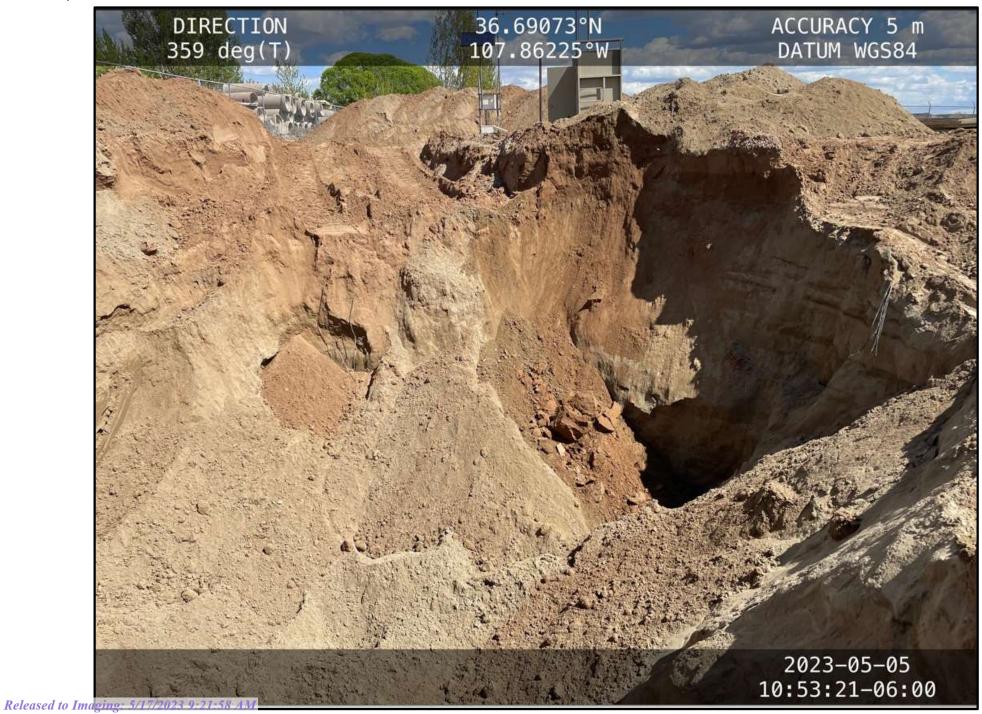
Received by OCD: 5/16/2023 2:47:09 PM

## Sample Photos

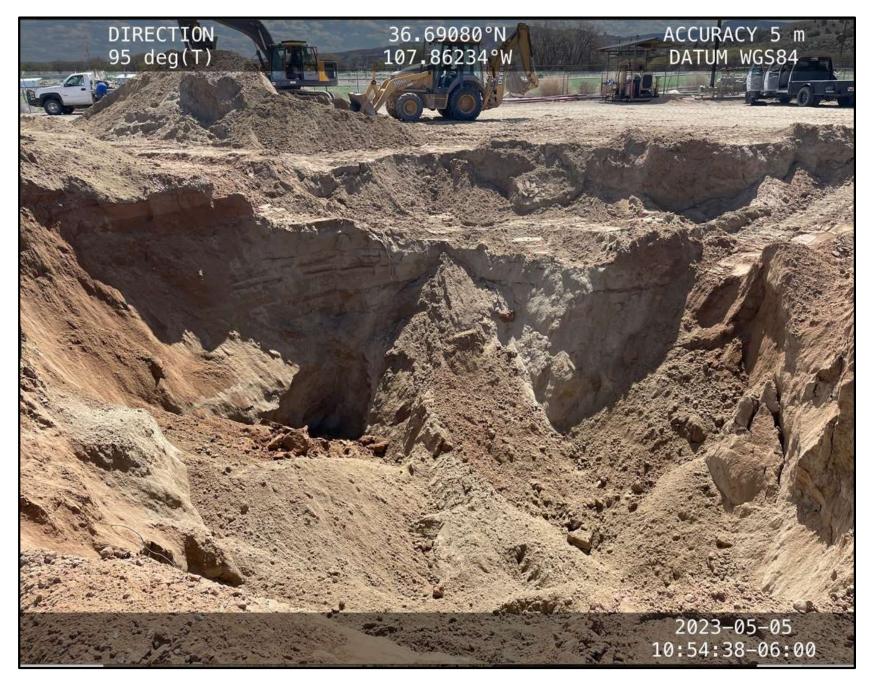




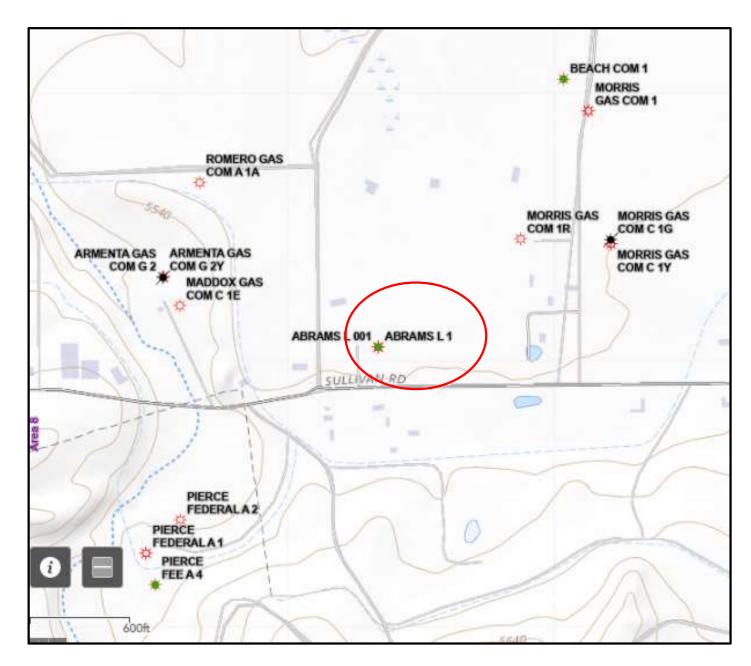
## Sample Photos



## Sample Photos



## Topographic Map



| N

N

#### ESTIMATED RELEASE VOLUME TOOL ABRAMS L1 BGT HILCORP ENERGY COMPANY

This tool estimates a release volume based on the size and concentration of a dry excavation.

Instructions: Input the excavation parameters (dimensions) in red text, and the spreadsheet calculates a potential spill volume. Other parameters can be changed as appropriate.

Tool Inputs					
Soil Density	99.88473696 lbs/ft3				
Crude Oil Density	7.093593783 lbs/gal				

Excava	ation Parameters	
Average	2000	
Hydrocarbon	1211.14 mg/kg	
Concentration		
Length	ft	
Width	fi	
Depth	fi	
Expansion Factor	%	
Total Soil Volume	500 yds3	

Choose the appropriate column for the released product

	Crude Oil/Condensate	Produced Water
Hydrocarbon		
Concentration	25 %	75 %
(Percent)		Albert Cont.

#### CALCULATED SPILL VOLUME

Hydrocarbon Mass	1,633 lbs	1,633 lbs
Hydrocarbon	921 gal	307 gal
(Release) Volume	<b>21.9 bbls</b>	<b>7 bbls</b>

#### Notes

% - percent ft - feet kg - kilograms mg - milligrams bbls - barrels gal -gallons lbs - pounds yd - yard

Red values are variable and can be changed according to site specific information.

Analytical Data, Samples Collected 5/2/2023 and 5/5/2023

See attached Lab Report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 11, 2023

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Abrams L1 OrderNo.: 2305355

#### Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/6/2023 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: North Comp

 Project:
 Abrams L1
 Collection Date: 5/5/2023 10:30:00 AM

 Lab ID:
 2305355-001
 Matrix: MEOH (SOIL)
 Received Date: 5/6/2023 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/8/2023 10:55:42 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/8/2023 10:55:42 AM
Surr: DNOP	87.6	69-147	%Rec	1	5/8/2023 10:55:42 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	5/8/2023 12:22:01 PM
Surr: BFB	81.7	15-244	%Rec	1	5/8/2023 12:22:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.021	mg/Kg	1	5/8/2023 12:22:01 PM
Toluene	ND	0.043	mg/Kg	1	5/8/2023 12:22:01 PM
Ethylbenzene	ND	0.043	mg/Kg	1	5/8/2023 12:22:01 PM
Xylenes, Total	ND	0.086	mg/Kg	1	5/8/2023 12:22:01 PM
Surr: 4-Bromofluorobenzene	89.0	39.1-146	%Rec	1	5/8/2023 12:22:01 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	190	60	mg/Kg	20	5/8/2023 12:34:24 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

of ph Not in Range Page 1 of 8

Date Reported: 5/11/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: South Comp

 Project:
 Abrams L1
 Collection Date: 5/5/2023 10:40:00 AM

 Lab ID:
 2305355-002
 Matrix: MEOH (SOIL)
 Received Date: 5/6/2023 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/8/2023 11:06:18 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/8/2023 11:06:18 AM
Surr: DNOP	86.1	69-147	%Rec	1	5/8/2023 11:06:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	5/8/2023 12:45:25 PM
Surr: BFB	84.1	15-244	%Rec	1	5/8/2023 12:45:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.016	mg/Kg	1	5/8/2023 12:45:25 PM
Toluene	ND	0.032	mg/Kg	1	5/8/2023 12:45:25 PM
Ethylbenzene	ND	0.032	mg/Kg	1	5/8/2023 12:45:25 PM
Xylenes, Total	ND	0.063	mg/Kg	1	5/8/2023 12:45:25 PM
Surr: 4-Bromofluorobenzene	88.1	39.1-146	%Rec	1	5/8/2023 12:45:25 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/8/2023 1:11:37 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: 5/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: East Comp

 Project:
 Abrams L1
 Collection Date: 5/5/2023 10:50:00 AM

 Lab ID:
 2305355-003
 Matrix: MEOH (SOIL)
 Received Date: 5/6/2023 8:45:00 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	9.2	mg/Kg	1	5/8/2023 11:21:39 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/8/2023 11:21:39 AM
Surr: DNOP	90.1	69-147	%Rec	1	5/8/2023 11:21:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	5/8/2023 1:08:51 PM
Surr: BFB	81.4	15-244	%Rec	1	5/8/2023 1:08:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	5/8/2023 1:08:51 PM
Toluene	ND	0.036	mg/Kg	1	5/8/2023 1:08:51 PM
Ethylbenzene	ND	0.036	mg/Kg	1	5/8/2023 1:08:51 PM
Xylenes, Total	ND	0.072	mg/Kg	1	5/8/2023 1:08:51 PM
Surr: 4-Bromofluorobenzene	88.6	39.1-146	%Rec	1	5/8/2023 1:08:51 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/8/2023 1:24:01 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: 5/11/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: West Comp

 Project:
 Abrams L1
 Collection Date: 5/5/2023 11:00:00 AM

 Lab ID:
 2305355-004
 Matrix: MEOH (SOIL)
 Received Date: 5/6/2023 8:45:00 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	9.7	mg/Kg	1	5/8/2023 11:32:14 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/8/2023 11:32:14 AM
Surr: DNOP	89.8	69-147	%Rec	1	5/8/2023 11:32:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	5/8/2023 1:32:15 PM
Surr: BFB	74.8	15-244	%Rec	1	5/8/2023 1:32:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	5/8/2023 1:32:15 PM
Toluene	ND	0.033	mg/Kg	1	5/8/2023 1:32:15 PM
Ethylbenzene	ND	0.033	mg/Kg	1	5/8/2023 1:32:15 PM
Xylenes, Total	ND	0.067	mg/Kg	1	5/8/2023 1:32:15 PM
Surr: 4-Bromofluorobenzene	87.1	39.1-146	%Rec	1	5/8/2023 1:32:15 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/8/2023 1:36:26 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

Page 4 of 8

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2305355** *11-May-23* 

Client: HILCORP ENERGY

**Project:** Abrams L1

Sample ID: MB-74803 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74803 RunNo: 96588

Prep Date: 5/8/2023 Analysis Date: 5/8/2023 SeqNo: 3502959 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74803 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74803 RunNo: 96588

Prep Date: 5/8/2023 Analysis Date: 5/8/2023 SeqNo: 3502960 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.8 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

Page 5 of 8

### Hall Environmental Analysis Laboratory, Inc.

2305355 11-May-23

WO#:

**Client:** HILCORP ENERGY

Project:	Abrams L	.1										
Sample ID:	LCS-74794	SampT	ype: <b>LC</b>	s	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics		
Client ID:	LCSS	Batch	ID: <b>74</b> 7	794	F	RunNo: 96	6580					
Prep Date:	5/8/2023	Analysis D	ate: <b>5/</b> 8	8/2023	S	SeqNo: 3	501910	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	41	10	50.00	0	82.5	61.9	130				
Surr: DNOP		4.2		5.000		84.9	69	147				
Sample ID:	MB-74794	SampT	уре: МЕ	BLK	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics		
Client ID:	PBS	Batch	ID: <b>74</b> 7	794	F	RunNo: <b>96580</b>						
Prep Date:	5/8/2023	Analysis D	ate: <b>5/</b> 8	8/2023	5	SeqNo: 3	501912	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	ND	10									
Motor Oil Rang	ge Organics (MRO)	ND	50									
Surr: DNOP		7.5		10.00		75.3	69	147				
Sample ID:	2305355-001AMS	SampT	уре: <b>м</b> S	3	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics		
Client ID:	North Comp	Batch	ID: <b>74</b> 7	794	F	RunNo: 96	6580					
Prep Date:	5/8/2023	Analysis D	ate: <b>5/</b> 8	8/2023	9	SeqNo: 3	502869	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	35	9.4	47.04	0	75.0	54.2	135				
Surr: DNOP		3.9		4.704		82.7	69	147				
Sample ID:	2305355-001AMSD	SampT	уре: МЅ	SD	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics		
Client ID:	North Comp	Batch	ID: <b>74</b> 7	794	F	RunNo: 96	6580					
Prep Date:	5/8/2023	Analysis D	ate: <b>5/</b> 3	8/2023	S	SeqNo: 3	502870	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	38	9.5	47.53	0	80.2	54.2	135	7.67	29.2		
Surr: DNOP		4.2		4.753		88.5	69	147	0	0		

#### 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 6 of 8

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2305355 11-May-23

**Client:** HILCORP ENERGY

Project: Abrams L	1										
Sample ID: 2.5ug gro lcs	SampT	ype: <b>LC</b>	s	Tes	tCode: <b>EF</b>	PA Method	8015D: Gaso	line Range			
Client ID: LCSS	Batch	ID: GS	96584	F	RunNo: <b>96</b>	5584					
Prep Date:	Analysis D	ate: <b>5/</b>	8/2023	5	SeqNo: 35	502072	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.4	70	130				
Surr: BFB	4900		1000		486	15	244			S	
Sample ID: mb	SampT	ype: <b>ME</b>	BLK	Tes	tCode: <b>EF</b>	PA Method	8015D: Gaso	line Range			
Client ID: PBS	Batch	ID: GS	96584	F	RunNo: <b>96584</b>						
Prep Date:	Analysis D	ate: <b>5/</b>	8/2023	SeqNo: <b>3502073</b> Units: <b>mg/K</b>				ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	720		1000		71.8	15	244				
Sample ID: 2305355-001ams	SampT	ype: <b>MS</b>	3	Tes	tCode: <b>EF</b>	PA Method 8015D: Gasoline Range					
Client ID: North Comp	Batch	ID: GS	96584	F	RunNo: <b>96</b>	5584					
Prep Date:	Analysis D	ate: <b>5/</b>	8/2023	5	SeqNo: 35	503076	Units: mg/K	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	20	4.3	21.41	0	93.5	70	130				
Surr: BFB	4300		856.2		501	15	244			S	
Sample ID: 2305355-001amsd	SampT	ype: <b>MS</b>	SD	Tes	tCode: <b>EF</b>	PA Method	8015D: Gaso	line Range	ı		
Client ID: North Comp	Batch	ID: GS	96584	F	RunNo: <b>96</b>	5584					
Prep Date:	Analysis D	ate: <b>5/</b>	8/2023	5	SeqNo: 35	503077	Units: mg/K	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	20	4.3	21.41	0	92.9	70	130	0.644	20		

#### Qualifiers:

Surr: BFB

- 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.

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856.2

Analyte detected in the associated Method Blank

502

244

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

S

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2305355** *11-May-23* 

Client: HILCORP ENERGY

**Project:** Abrams L1

Sample ID: 100NG BTEX LCS	Samp	ype: <b>LC</b>	S	Tes							
Client ID: LCSS	Batcl	n ID: <b>R9</b> 0	6584	F	RunNo: 96584						
Prep Date:	Analysis [	nalysis Date: <b>5/8/2023</b> SeqNo: <b>3502076</b>					Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	93.0	70	130				
Toluene	0.94	0.050	1.000	0	94.1	70	130				
Ethylbenzene	0.94	0.050	1.000	0	94.4	70	130				
Xylenes, Total	2.8	0.10	3.000	0	94.9	70	130				
Surr: 4-Bromofluorobenzene	0.90		1.000		90.5	39.1	146				

Sample ID: mb	Samp	SampType: MBLK TestCode: EPA Metho						hod 8021B: Volatiles					
Client ID: PBS	Batcl	h ID: <b>R9</b>	6584	F	RunNo: 96584								
Prep Date:	Analysis [	Date: <b>5/</b> 8	8/2023	SeqNo: <b>3502077</b>			Units: mg/K						
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	0.86		1.000		86.1	39.1	146						

Sample ID: 2305355-002ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: South Comp	Batc	n ID: <b>R9</b>	6584	F	RunNo: <b>96</b>					
Prep Date:	Analysis [	Date: <b>5/8</b>	3/2023	5	SeqNo: 3503078 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.55	0.016	0.6305	0	87.4	70	130			
Toluene	0.56	0.032	0.6305	0	88.8	70	130			
Ethylbenzene	0.56	0.032	0.6305	0	89.2	70	130			
Xylenes, Total	1.7	0.063	1.892	0	89.1	70	130			
Surr: 4-Bromofluorobenzene	0.57		0.6305		90.2	39.1	146			

Sample ID: 2305355-002amsd	SampT	уре: <b>МЅ</b>	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: South Comp	Batcl	n ID: <b>R9</b> 6	6584	F	RunNo: 90	6584				
Prep Date:	Analysis D	Date: 5/8	3/2023	5	SeqNo: 3	503079	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.53	0.016	0.6305	0	84.1	70	130	3.78	20	
Toluene	0.54	0.032	0.6305	0	85.2	70	130	4.14	20	
Ethylbenzene	0.54	0.032	0.6305	0	85.8	70	130	3.88	20	
Xylenes, Total	1.6	0.063	1.892	0	86.6	70	130	2.78	20	
Surr: 4-Bromofluorobenzene	0.57		0.6305		90.8	39.1	146	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
- 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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ENVIRONMENTAL

LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

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Page 1 of 1

Client Name:	HILCORP E	NERGY	Work	Order Numb	per: 2305355		RcptNo	c <b>1</b>
Received By:	Cheyenne	Cason	5/6/202	3 8:45:00 AI	M	Clearly		
•	_					Chenl		
Completed By:	Cheyenne		5/6/202	3 9:04:56 Al	VI	and		
Reviewed By: V	P 5/6/23	3						
Chain of Cust	od <u>y</u>							
1. Is Chain of Cu		ete?			Yes 🗹	No 🗌	Not Present	
2. How was the s	ample delive	ered?			Courier			
<u>Log In</u> 3. Was an attemp	ot made to c	ool the samp	les?		Yes 🗹	No 🗆	na 🗆	
4. Were all sampl	es received	at a tempera	ture of >0° C	to 6.0°C	Yes 🗹	No 🗆	na 🗆	
5. Sample(s) in p	roper contai	ner(s)?			Yes 🗹	No 🗆		
6. Sufficient samp	ole volume fo	or indicated te	est(s)?		Yes 🗹	No 🗌		
7. Are samples (e				ed?	Yes 🗹	No 🗌		
8. Was preservati	ve added to	bottles?			Yes 🗌	No 🗹	NA $\square$	
9. Received at lea	ast 1 vial witi	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any sam	ple containe	ers received b	roken?		Yes 🗆	No 🗹	# of preserved	1
11.Does paperwor			)		Yes 🗹	No 🗆	bottles checked for pH:	r >12 unless noted)
12. Are matrices co					Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what	analyses we	ere requested	?		Yes 🗹	No 🗌		
14. Were all holdin (If no, notify cu					Yes 🗹	No 🗌	Checked by:	me 5/6/23
Special Handlin				361				
15. Was client not			with this order	?	Yes 🗌	No 🗆	NA 🗹	
Person N	Notified:			Date:				
By Whor	m:			Via:	eMail	Phone Fax	☐ In Person	
Regardir	ng:							
Client In	structions:							
16. Additional ren	narks:							
17. Cooler Inform	nation Temp °C	Condition	1 Carl late :	0/-	010-4	Claused De		
Cooler No	5.0	Condition Good	Seal Intact Yes	Seal No Yogi	Seal Date	Signed By		
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Custody Record	Turn-Around Time:	HAII ENVIDONMENTAI
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	Project Name:	www.hallenvironmental.com
Mailing Address:	Abrams L1	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: prandon. Sincla irab ilcorp.co	Jeorg, co Project Manager:	*O\$
QA/QC Package:		s'8:
☐ Standard ☐ Level 4 (Full Validation)	Kate Kautman	) os
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f necessary, sembles submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: \$1,72023 9:21:58 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 11, 2023

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Abrams L1 OrderNo.: 2305355

#### Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/6/2023 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: North Comp

 Project:
 Abrams L1
 Collection Date: 5/5/2023 10:30:00 AM

 Lab ID:
 2305355-001
 Matrix: MEOH (SOIL)
 Received Date: 5/6/2023 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/8/2023 10:55:42 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/8/2023 10:55:42 AM
Surr: DNOP	87.6	69-147	%Rec	1	5/8/2023 10:55:42 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	5/8/2023 12:22:01 PM
Surr: BFB	81.7	15-244	%Rec	1	5/8/2023 12:22:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.021	mg/Kg	1	5/8/2023 12:22:01 PM
Toluene	ND	0.043	mg/Kg	1	5/8/2023 12:22:01 PM
Ethylbenzene	ND	0.043	mg/Kg	1	5/8/2023 12:22:01 PM
Xylenes, Total	ND	0.086	mg/Kg	1	5/8/2023 12:22:01 PM
Surr: 4-Bromofluorobenzene	89.0	39.1-146	%Rec	1	5/8/2023 12:22:01 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	190	60	mg/Kg	20	5/8/2023 12:34:24 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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orting Limit
Page 1 of 8

**CLIENT: HILCORP ENERGY** 

### **Analytical Report**

Lab Order 2305355

Date Reported: 5/11/2023

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: South Comp

 Project:
 Abrams L1
 Collection Date: 5/5/2023 10:40:00 AM

 Lab ID:
 2305355-002
 Matrix: MEOH (SOIL)
 Received Date: 5/6/2023 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/8/2023 11:06:18 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/8/2023 11:06:18 AM
Surr: DNOP	86.1	69-147	%Rec	1	5/8/2023 11:06:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	5/8/2023 12:45:25 PM
Surr: BFB	84.1	15-244	%Rec	1	5/8/2023 12:45:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.016	mg/Kg	1	5/8/2023 12:45:25 PM
Toluene	ND	0.032	mg/Kg	1	5/8/2023 12:45:25 PM
Ethylbenzene	ND	0.032	mg/Kg	1	5/8/2023 12:45:25 PM
Xylenes, Total	ND	0.063	mg/Kg	1	5/8/2023 12:45:25 PM
Surr: 4-Bromofluorobenzene	88.1	39.1-146	%Rec	1	5/8/2023 12:45:25 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/8/2023 1:11:37 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

Page 2 of 8

**CLIENT: HILCORP ENERGY** 

#### **Analytical Report**

Lab Order **2305355**Date Reported: **5/11/2023** 

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: East Comp

Project: Abrams L1 Collection Date: 5/5/2023 10:50:00 AM

**Lab ID:** 2305355-003 **Matrix:** MEOH (SOIL) **Received Date:** 5/6/2023 8:45:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/8/2023 11:21:39 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/8/2023 11:21:39 AM
Surr: DNOP	90.1	69-147	%Rec	1	5/8/2023 11:21:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	5/8/2023 1:08:51 PM
Surr: BFB	81.4	15-244	%Rec	1	5/8/2023 1:08:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	5/8/2023 1:08:51 PM
Toluene	ND	0.036	mg/Kg	1	5/8/2023 1:08:51 PM
Ethylbenzene	ND	0.036	mg/Kg	1	5/8/2023 1:08:51 PM
Xylenes, Total	ND	0.072	mg/Kg	1	5/8/2023 1:08:51 PM
Surr: 4-Bromofluorobenzene	88.6	39.1-146	%Rec	1	5/8/2023 1:08:51 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/8/2023 1:24:01 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 8

Date Reported: 5/11/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: West Comp

 Project:
 Abrams L1
 Collection Date: 5/5/2023 11:00:00 AM

 Lab ID:
 2305355-004
 Matrix: MEOH (SOIL)
 Received Date: 5/6/2023 8:45:00 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	9.7	mg/Kg	1	5/8/2023 11:32:14 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/8/2023 11:32:14 AM
Surr: DNOP	89.8	69-147	%Rec	1	5/8/2023 11:32:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	5/8/2023 1:32:15 PM
Surr: BFB	74.8	15-244	%Rec	1	5/8/2023 1:32:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>
Benzene	ND	0.017	mg/Kg	1	5/8/2023 1:32:15 PM
Toluene	ND	0.033	mg/Kg	1	5/8/2023 1:32:15 PM
Ethylbenzene	ND	0.033	mg/Kg	1	5/8/2023 1:32:15 PM
Xylenes, Total	ND	0.067	mg/Kg	1	5/8/2023 1:32:15 PM
Surr: 4-Bromofluorobenzene	87.1	39.1-146	%Rec	1	5/8/2023 1:32:15 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/8/2023 1:36:26 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

Page 4 of 8

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2305355 11-May-23

Client: HILCORP ENERGY

**Project:** Abrams L1

Sample ID: MB-74803 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74803 RunNo: 96588

Prep Date: 5/8/2023 Analysis Date: 5/8/2023 SeqNo: 3502959 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74803 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74803 RunNo: 96588

Prep Date: 5/8/2023 Analysis Date: 5/8/2023 SeqNo: 3502960 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.8 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

Page 5 of 8

#### Hall Environmental Analysis Laboratory, Inc.

2305355 11-May-23

WO#:

**Client:** HILCORP ENERGY

Project:	Abrams L	.1									
Sample ID:	LCS-74794	SampT	Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	LCSS	Batcl	h ID: <b>74</b> 7	794	F	RunNo: 9	6580				
Prep Date:	5/8/2023	Analysis D	)ate: <b>5/</b> 8	8/2023	S	SeqNo: 3	501910	Units: mg/k	<b>K</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	41	10	50.00	0	82.5	61.9	130			
Surr: DNOP		4.2		5.000		84.9	69	147			
Sample ID:	MB-74794	Samp1	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	PBS	Batcl	h ID: <b>74</b> 7	794	F	RunNo: 9	6580				
Prep Date:	5/8/2023	Analysis D	)ate: <b>5/</b> 8	8/2023	5	SeqNo: 3	501912	Units: mg/k	<b>K</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		7.5		10.00		75.3	69	147			
Sample ID:	2305355-001AMS	Samp1	Гуре: МЅ	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	North Comp	Batcl	h ID: <b>74</b> 7	794	F	RunNo: 90	6580				
Prep Date:	5/8/2023	Analysis D	Date: <b>5/</b> 8	8/2023	5	SeqNo: 3	502869	Units: mg/k	<b>K</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	35	9.4	47.04	0	75.0	54.2	135			
Surr: DNOP		3.9		4.704		82.7	69	147			
Sample ID:	2305355-001AMSD	Samp1	Гуре: МЅ	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	North Comp	Batcl	h ID: <b>74</b> 7	794	F	RunNo: 9	6580				
Prep Date:	5/8/2023	Analysis D	)ate: <b>5/</b> 8	8/2023	9	SeqNo: 3	502870	Units: mg/k	<b>K</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	38	9.5	47.53	0	80.2	54.2	135	7.67	29.2	
Surr: DNOP		4.2		4.753		88.5	69	147	0	0	

#### 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 6 of 8

#### Hall Environmental Analysis Laboratory, Inc.

20

4300

4.3

21.41

856.2

WO#: 2305355 11-May-23

S

**Client:** HILCORP ENERGY

**Project:** Abrams L1

Gasoline Range Organics (GRO)

Surr: BFB

Sample ID: 2.5ug gro lcs	SampType: <b>LCS</b>	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: <b>GS96584</b>	RunNo: 96584								
Prep Date:	Analysis Date: 5/8/2023	SeqNo: 3502072 Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Gasoline Range Organics (GRO)	24 5.0 25.00	0 96.4 70 130								
Surr: BFB	4900 1000	486 15 244 S								
Sample ID: mb	SampType: MBLK	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: GS96584	RunNo: 96584								
Prep Date:	Analysis Date: 5/8/2023	SeqNo: 3502073 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	720 1000	71.8 15 244								
Sample ID: <b>2305355-001ams</b>	SampType: <b>MS</b>	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: North Comp	Batch ID: <b>GS96584</b>	RunNo: 96584								
Prep Date:	Analysis Date: 5/8/2023	SeqNo: <b>3503076</b> Units: <b>mg/Kg</b>								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								

Sample ID: 2305355-001amsd	Samp1	ype: MS	SD	Tes	tCode: <b>EF</b>	PA Method	8015D: Gasol	ine Range		
Client ID: North Comp	Batcl	n ID: GS	96584	F	RunNo: 96	6584				
Prep Date:	Analysis D	Date: <b>5/</b> 8	8/2023	5	SeqNo: 3	503077	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.3	21.41	0	92.9	70	130	0.644	20	
Surr: BFB	4300		856.2		502	15	244	0	0	S

0

93.5

501

70

15

130

244

#### 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 7 of 8

#### Hall Environmental Analysis Laboratory, Inc.

11-May-23

2305355

WO#:

**Client:** HILCORP ENERGY

**Project:** Abrams L1

Sample ID: 100NG BTEX LCS	SampType: LCS TestCode: EPA Method 8						8021B: Volati	iles			
Client ID: LCSS	Batc	h ID: <b>R9</b> 0	6584	F	RunNo: 90	6584					
Prep Date:	Analysis [	Date: <b>5/8</b>	8/2023	9	502076	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	93.0	70	130				
Toluene	0.94	0.050	1.000	0	94.1	70	130				
Ethylbenzene	0.94	0.050	1.000	0	94.4	70	130				
Xylenes, Total	2.8	0.10	3.000	0	94.9	70	130				
Surr: 4-Bromofluorobenzene	0.90		1.000		90.5	39.1	146				

Sample ID: <b>mb</b>	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	h ID: <b>R9</b>	6584	F	RunNo: 90	6584				
Prep Date:	Analysis [	8/2023	SeqNo: <b>3502077</b>			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	0.86		1.000		86.1	39.1	146			

Sample ID: 2305355-002ams	Samp <sup>-</sup>	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: South Comp	Batc	h ID: <b>R9</b>	6584	F	RunNo: 90	6584				
Prep Date:	Analysis [	Analysis Date: <b>5/8/2023</b> SeqNo: <b>3503078</b> Un					Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.55	0.016	0.6305	0	87.4	70	130			
Toluene	0.56	0.032	0.6305	0	88.8	70	130			
Ethylbenzene	0.56	0.032	0.6305	0	89.2	70	130			
Xylenes, Total	1.7	0.063	1.892	0	89.1	70	130			
Surr: 4-Bromofluorobenzene	0.57		0.6305		90.2	39.1	146			

Sample ID: <b>2305355-002amsd</b>	SampT	Type: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: South Comp	Batch	1D: <b>R9</b>	6584	RunNo: <b>96584</b>						
Prep Date:	Analysis D	Analysis Date: 5/8/2023 SeqNo: 3503079 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.53	0.016	0.6305	0	84.1	70	130	3.78	20	
Toluene	0.54	0.032	0.6305	0	85.2	70	130	4.14	20	
Ethylbenzene	0.54	0.032	0.6305	0	85.8	70	130	3.88	20	
Xylenes, Total	1.6	0.063	1.892	0	86.6	70	130	2.78	20	
Surr: 4-Bromofluorobenzene	0.57		0.6305		90.8	39.1	146	0	0	

#### 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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

### Sample Log-In Check List

Released to Imaging: 5/17/2023 9:21:58 AM

LABORATORY	Website: wi	vw.hallenvironmenta	l.com		
Client Name: HILCORP ENERGY	Work Order Nu	mber: 2305355		RcptNo: 1	
Received By: Cheyenne Cason	5/6/2023 8:45:00	АМ	Chenl		
Completed By: Cheyenne Cason	5/6/2023 9:04:56	АМ	Chul		
Reviewed By: VP 5/6/23					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In	0	Yes 🗹	No 🗌	na 🗆	
3. Was an attempt made to cool the sample	es?	Yes ₩	NO 🗀	NA L	
4. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA $\square$	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
6. Sufficient sample volume for indicated te	st(s)?	Yes 🗹	No 🗌		
$7_{\cdot}$ Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at least 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any sample containers received br	oken?	Yes 📙	No ☑	# of preserved bottles checked	1
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗆	for pH:	2 unless noted)
12. Are matrices correctly identified on Chair		Yes 🗹	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?	<b>?</b>	Yes 🗹	No 🗆		- 2
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by: CM	C 5/6/2
Special Handling (if applicable)	3.63				
15. Was client notified of all discrepancies w	rith this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Da				
By Whom:	Via	: eMail l	Phone  Fax	☐ In Person	
Regarding:	****				
Client Instructions: 16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		

C	hain	of-Cu	stody Record	Turn-Around	Time:		HALL ENVIRONMENT					- 41									
Client:	Hilco	rp		☐ Standard	₩ Rush	5-8-23	ANALYSIS LABORATO														
		•		Project Name	e:		www.hallenvironmental.com														
Mailing	Address			Abram	5 L1	ans as 1 - 1031		490	01 H	awkii	ns N	E -	Alb	uque	erqu	e, Ni	M 87	109			
				Project #:	Le secret profée			Te	el. 50	5-34	5-39					-345-	_	7	noch.		1
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QÀ/QC	Package:			121	1.2		(80	₹	PCB's		8270SIMS	DT		4		Abse					
☐ Stan	dard		☐ Level 4 (Full Validation)	Kate	Kaufi	non	- 8	잁	2 P(		202		a l			aut/					
Accred			mpliance	Sampler: $\beta$	randon	Sinclair	-   ₹	0/0	808	4.1)			\$	13	٧)	rese					
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2305355	BTEX) MTBE/ IMB's (8024)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	CI) F, Br, NO3, NO2, PO4,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	market				
5-5	1030	soil	North Comp	402 jar	cool	001		$\sqrt{}$					$\sqrt{}$					010	истр	6250	19 1
	1040		South Comp	VIII II		002	Ш				Carry	(fa 1		ell .	will i	10.19		12.511			sh
	1050		East Comp		2011	003										=1) 1 y =1  == 1	1,941		1		
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Date:	Time:	Relinquish	ned by:	Received by:	Via:	Date Time															
75/13	1824	101	I WILLIAM	Cme,	outles 1	0845											1.1				

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 217405

#### **CONDITIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	217405
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	5/17/2023