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	
District RP	
Facility ID	
Application ID	

Release Notification

			Resp	onsible Party	y		
Responsible Party Hilcorp Energy OGR		OGRID 37	72171				
Contact Name Clara Cardoza		Contact Te	elephone 505.56	4.0733			
Contact ema	il ccardoza@	hilcorp.com		Incident #	(assigned by OCD)	nAPP2101050782	
Contact mail	ing address	382 CR 3100, Azt	ec NM 87410	l			
			Location	of Release So	ource		
Latitude 36.6	952477		(NAD 83 in dec	Longitude <u>-</u> cimal degrees to 5 decin	-107.9413605 mal places)		
Site Name Ea	iton A 1R			Site Type 0	Gas Well		٦
Date Release	Discovered	January 8, 2021		API# (if app	olicable) 30-045-344	 157	
Unit Letter	Section	Township	Range	Coun	nty		
J	25	029N	011W	San Ju	uan		
Surface Owner		Federal Tr	Nature and	l Volume of 1)	
Material(s) Released (Select all that apply and attach calculations or specification Crude Oil Volume Released (bbls)		calculations or specific	Volume Reco				
Produced	oduced Water Volume Released (bbls)			Volume Reco	vered (bbls) 0		
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		chloride in the	Yes N	0			
☐ Condensate Volume Released (bbls) 12.5			Volume Reco	vered (bbls) 2			
Natural G	Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		Volume/Weig	tht Recovered (provide units)				
Cause of Rel- Over the top	ease						

Received by OCD: 5/7/2021 1:24:0 Page 2

State of New Mexico	
Oil Conservation Division	

	Page 2 of	66
Incident ID		
District RP		
Facility ID		
Application ID		

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
, ,		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
	g	(F,,)
	Initial R	esponse
The responsible p	varty must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
∑ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ive 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 an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence t	remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release not	ifications and perform corrective actions for releases which may endanger
failed to adequately investiga	ate and remediate contamination that pose a three	OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
<u> </u>		
Printed Name:Clara Ca	ardoza	Title: Environmental Specialist
Signature:		Date: <u>January 22, 2021</u>
email: <u>ccardoza@hil</u>	corp.com	Telephone: 505.564.0733
OCD Only		
Received by:		Date:

Received by OCD: 5/7/2021 1:24:07 PM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 3 of 60
Incident ID	
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?	$\frac{51-100}{\text{bgs}}$ (ft
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?	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No ☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No
Are the lateral extents of the release within a 100-year floodplain?	Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	
	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel □ Field data □ Data table of soil contaminant concentration data □ Depth to water determination 	ls.
Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs	
☐ Boring or excavation logs ☐ Photographs including date and GIS information	
Topographic/Aerial maps	
☐ Laboratory data including chain of custody	

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

Received by OCD: 5/7/2021 1:24:07 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 4 of 66
Incident ID	
District RP	
Facility ID	
Application ID	

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: Clara Cardoza	Title: Environmental Specialist	
Signature:email:ccardoza@hilcorp.com	Date:May 7, 2021 Telephone:505.564.0733	
OCD Only		
Received by:	Date:	

Received by OCD: 5/7/2021	1:24:07 PM
Form C-141	State of New Mexico
Page 6	Oil Conservation Division

	Page 5 of 66
Incident ID	
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		
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 OE	OC 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 certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Environmental Specialist	
OCD Only		
Received by:	Date:	
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.	
Closure Approved by: Nelson Velez Printed Name: Nelson Velez	Date: 02/22/2022	
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv	

Executive Summary

On January 8, 2021 Hilcorp Energy had a release of condensate at the Eaton A 1R. The source of the original release was an over the top corrosion around a welded seam of the tank. The volume reported in the initial report was 12.5 bbls of condensate based on strapping data recorded by the site operator and calculations using that data and amount of liquid recovered. Once remediation began, historic impacts were found and a notification was sent to NMOCD on 1/29/2021.

Two sample events took place on 1/29 and 2/3/2021 in accordance with NMAC 19.15.9.12D. This site is ranked at 51 - 100 ft per NMAC 19.15.29.12.E.



Release Area

Nearby Pipelines

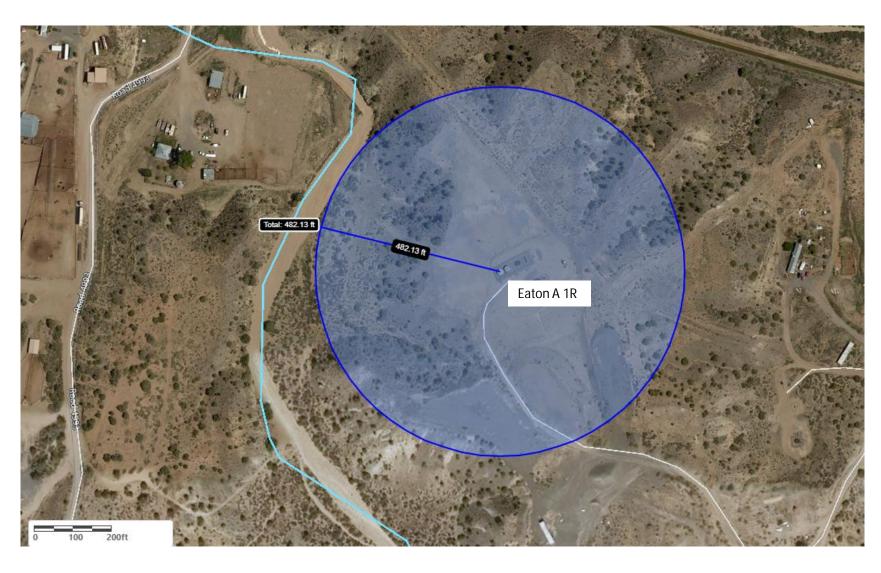


Enterprise Conventional

Released to Imaging: 2/22/2022 7:23:29 AM

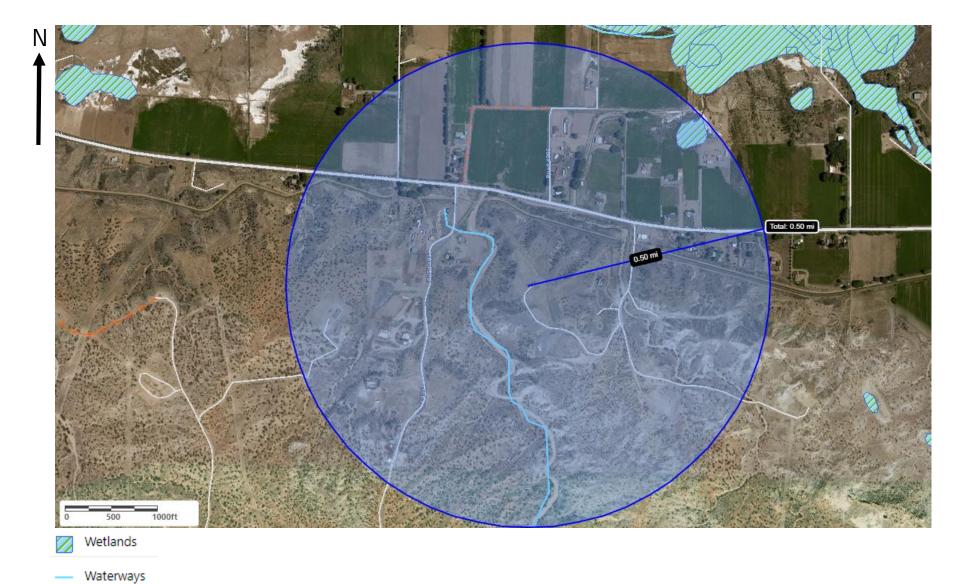
Distance to watercourse

N ♠



Distance to watercourse approximately 482 ft

Water sources or courses within ½ mile



Depth to groundwater



New Mexico Office of the State Engineer

Point of Diversion Summary

			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					500 con 100 and	(NAD83 U		
Well Tag Po		Number	Q64 Q16 Q4 S		Sec	Tws	Rng	X	Y		
3.5	SJ 0	0804		4	1	25	29N	11W	236866	4065508*	
Driller Lic	ense:	666	Driller	Com	pan	ıy:	GII	BERT,	JOHN G.		
Driller Na	me:	GILBERT, JOHN G									
Drill Start Date: 10/09/1978		10/09/1978	Drill Finish Date:			10/12/1978		78 P	lug Date:		
Log File D	ate:	10/23/1978	PCW Rcv Date:					S	ource:	Shallow	
Pump Type	e:		Pipe Discharge Size:					E	stimated Yield:	15 GPM	
Casing Size:		6.00	Depth Well:			37 feet		D	Depth Water:		
	Wate	er Bearing Stratificat	ions:		To	p E	otton	Desci	ription		
					3	0	37	Sands	tone/Grave	l/Conglomerate	

^{*}UTM location was derived from PLSS - see Help

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

5/5/21 1:15 PM POINT OF DIVERSION SUMMARY

POD#	Elevation (ft)	GW depth (ft)		
SJ 00804	5492	25		
SJ 04040	5504	20		
SJ 01808	5526	43		
Eaton A 1R	5570	102, 86, 87 AVG 92		



New Mexico Office of the State Engineer

Point of Diversion Summary

Shallow 15 GPM
15

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

5/5/21 2:54 PM POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)				
Well Tag	POD	Number	Q64 Q	Q16 Q4 Sec		Tws I	Rng	X	Y			
	SJ 0	1808 0-5	1	1 3	26	29N	11W	234753	4065274*			
Driller Lic	ense:	583	Driller C	ompan	y:	EA	RL & SC	ONS INC.				
Driller Na	me:											
Drill Start	Date:	02/06/1984	Drill Fin	ish Date	e:	02	2/06/198	4 I	lug Date:			
Log File Date: 09/21/1984			PCW Rcv Date:					S	ource:	Shallow .		
Pump Typ	e:		Pipe Discharge Size:					Estimated Yield:				
Casing Siz	e:	6.00	Depth Well:			52 feet			Depth Water:	43 feet		
	Wate	r Bearing Strati	ications:	Top	В	ottom	Descri	iption				
				42		47	Sandst	tone/Grav	el/Conglomerat	e		
Casing Perfo			forations: Top B			Bottom						
				32		52						

*UTM location was derived from PLSS - see Help

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

5/5/21 1:14 PM POINT OF DIVERSION SUMMARY

Depth to groundwater POD locations

N **↑**

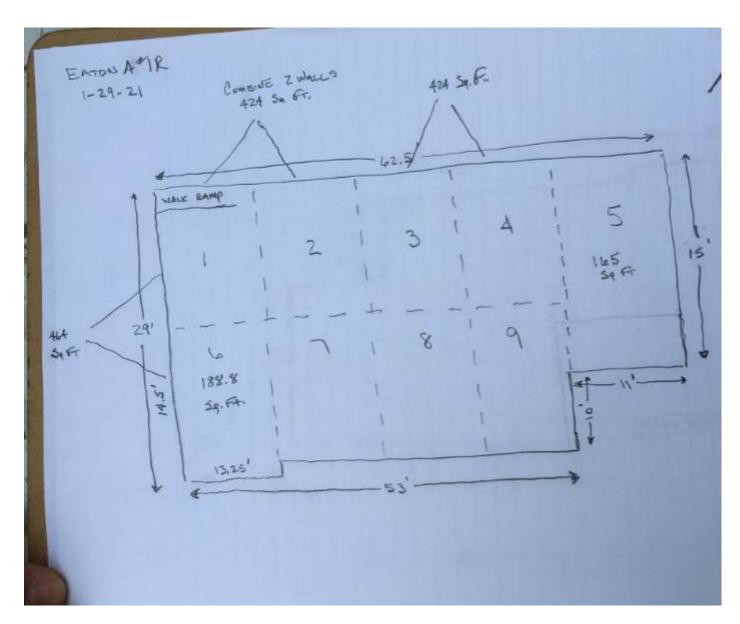


POD Waters

Cathodic 2008

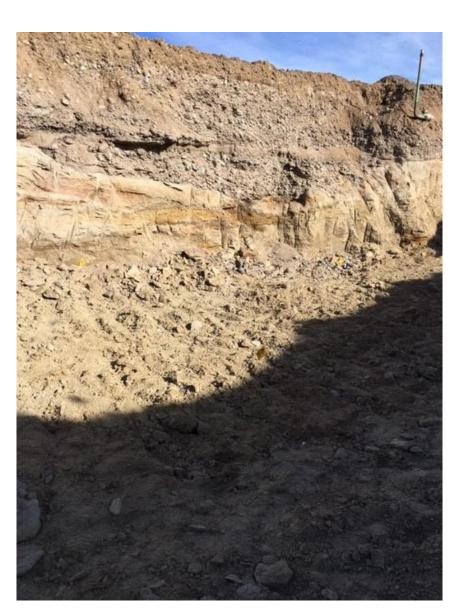
Sample locations/field notes



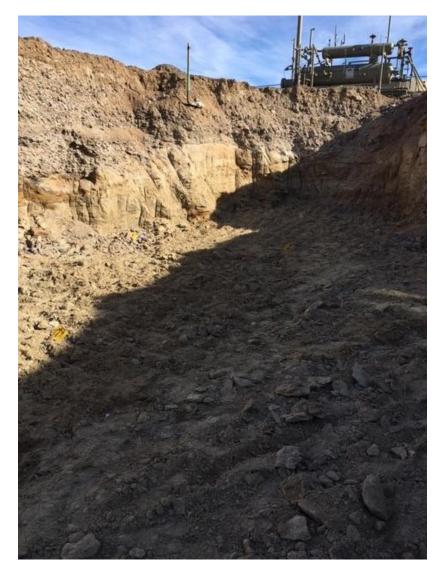




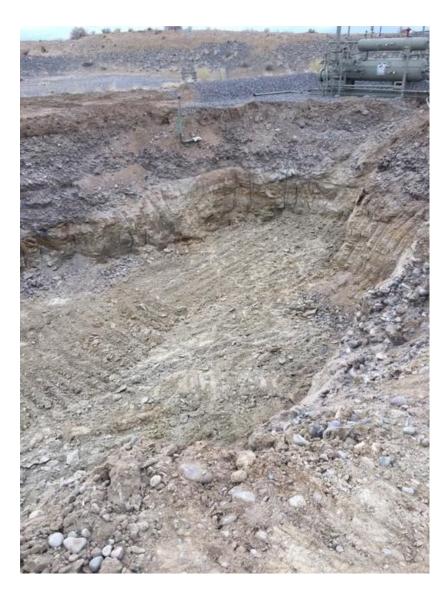
Wall 1 - 2 and Base 1 - 2



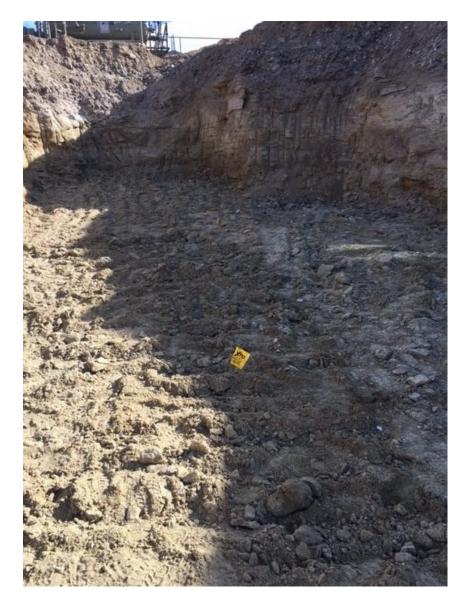
Wall 3 -4 and Base 3-4



North Wall Sect 5



Base 5East



South Wall 5 and Base 5, 9 & 8



Wall 9 & 8 and Base 9 & 8

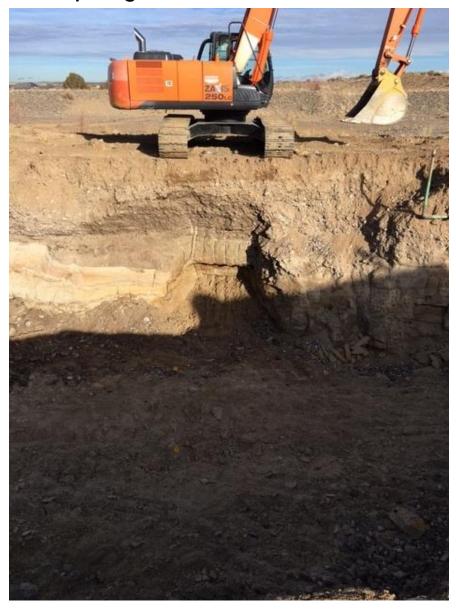


Wall 6 and Base 6 & 7



Wall 6 & 7 and Base 6 & 7

Sampling 2/3/2021





Wall 3-4 stain (removed)

Base 2

Lab Analysis

Data table of soil contamination concentration data

				Laboratory Results									
	Date	Field VOCs by	Chloride	TPH as	TPH as GRO	TPH as MRO	Total TPH	TPH as GRO + DRO	Benzene	Toluene	Ethylbenzene	Total Xylene	Total BTEX
Sample Name	Collected	PID (ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Actio	n Level	-	10,000	-	-	-	2,500	1,000	10	-	-	-	50
Base 5	01/29/21		ND	46	ND	ND	46	46	ND	ND	ND	ND	ND
Base 4	01/29/21		ND	340	14	160	514	354	ND	ND	ND	0.11	0.1
Base 3	01/29/21		ND	390	49	200	639	439	ND	0.043	0.15	1.8	2.0
Base 2	01/29/21		ND	2100	530	790	3420	2630	0.035	3.3	2.8	35	41.1
Base 9	01/29/21		ND	67	ND	ND	67	67	ND	ND	ND	ND	ND
Base 8	01/29/21		ND	340	35	150	525	375	ND	ND	ND	0.66	0.7
Base 7	01/29/21		ND	180	24	90	294	204	ND	ND	ND	0.12	0.12
Base 6	01/29/21		ND	18	ND	ND	18	18	ND	ND	ND	ND	ND
Wall 1&2	01/29/21		ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND
Wall 3&4	01/29/21		ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND
Wall 3&4 Stain	01/29/21		ND	1500	570	530	2600	2070	0.2	5.7	3.4	43	52.3
#5 N Wall	01/29/21		ND	38	9.6	ND	48	48	ND	0.062	0.045	0.5	0.607
#5 E Wall	01/29/21		ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND
#5 S Wall	01/29/21		ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND
#8&9 Wall	01/29/21		ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND
#6&7 Wall	01/29/21		ND	25	5.5	ND	31	31	ND	ND	ND	ND	ND
#1 Base	01/29/21		ND	99	16	ND	115	115	ND	ND	0.061	0.71	0.771
#1&6 Wall	01/29/21		ND	160	29	60	249	189	ND	0.081	0.12	1.5	1.701
3 & 4 Wall Stain	02/03/21		ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND
#2 Base	02/03/21		ND	46.00	ND	ND	46	46	ND	ND	ND	ND	ND

Over closure standard



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

February 04, 2021

Clara Cardoza HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Eaton A 1R OrderNo.: 2101B07

Dear Clara Cardoza:

Hall Environmental Analysis Laboratory received 18 sample(s) on 1/30/2021 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #5 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:00:00 AM

 Lab ID:
 2101B07-001
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	46	9.7	mg/Kg	1	1/30/2021 1:14:42 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/30/2021 1:14:42 PM
Surr: DNOP	87.7	30.4-154	%Rec	1	1/30/2021 1:14:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/30/2021 6:08:38 PM
Surr: BFB	101	75.3-105	%Rec	1	1/30/2021 6:08:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.019	mg/Kg	1	1/30/2021 6:08:38 PM
Toluene	ND	0.038	mg/Kg	1	1/30/2021 6:08:38 PM
Ethylbenzene	ND	0.038	mg/Kg	1	1/30/2021 6:08:38 PM
Xylenes, Total	ND	0.077	mg/Kg	1	1/30/2021 6:08:38 PM
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	1/30/2021 6:08:38 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	1/31/2021 11:44:55 AM

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #4 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:03:00 AM

 Lab ID:
 2101B07-002
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	340	9.4	mg/K	(g 1	1/30/2021 2:25:52 PM
Motor Oil Range Organics (MRO)	160	47	mg/K	(g 1	1/30/2021 2:25:52 PM
Surr: DNOP	94.8	30.4-154	%Re	c 1	1/30/2021 2:25:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	14	3.8	mg/K	(g 1	1/30/2021 6:32:07 PM
Surr: BFB	230	75.3-105	S %Re	c 1	1/30/2021 6:32:07 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.019	mg/K	(g 1	1/30/2021 6:32:07 PM
Toluene	ND	0.038	mg/K	(g 1	1/30/2021 6:32:07 PM
Ethylbenzene	ND	0.038	mg/K	(g 1	1/30/2021 6:32:07 PM
Xylenes, Total	0.11	0.077	mg/K	.g 1	1/30/2021 6:32:07 PM
Surr: 4-Bromofluorobenzene	104	80-120	%Re	c 1	1/30/2021 6:32:07 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/K	.g 20	1/31/2021 11:57:19 AM

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #3 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:06:00 AM

 Lab ID:
 2101B07-003
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	390	8.8	mg/Kg	1	1/30/2021 2:49:33 PM
Motor Oil Range Organics (MRO)	200	44	mg/Kg	1	1/30/2021 2:49:33 PM
Surr: DNOP	96.4	30.4-154	%Rec	1	1/30/2021 2:49:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	49	4.1	mg/Kg	1	1/30/2021 6:55:42 PM
Surr: BFB	429	75.3-105	S %Rec	1	1/30/2021 6:55:42 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.020	mg/Kg	1	1/30/2021 6:55:42 PM
Toluene	0.043	0.041	mg/Kg	1	1/30/2021 6:55:42 PM
Ethylbenzene	0.15	0.041	mg/Kg	1	1/30/2021 6:55:42 PM
Xylenes, Total	1.8	0.082	mg/Kg	1	1/30/2021 6:55:42 PM
Surr: 4-Bromofluorobenzene	115	80-120	%Rec	1	1/30/2021 6:55:42 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	61	mg/Kg	20	1/31/2021 12:09:44 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 25

CLIENT: HILCORP ENERGY

Analytical Report

Lab Order **2101B07**Date Reported: **2/4/2021**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: #2 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:08:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: mb
Diesel Range Organics (DRO)	2100	94		mg/Kg	10	1/30/2021 3:36:55 PM
Motor Oil Range Organics (MRO)	790	470		mg/Kg	10	1/30/2021 3:36:55 PM
Surr: DNOP	0	36.4-154	S	%Rec	10	1/30/2021 3:36:55 PM
EPA METHOD 8015D: GASOLINE RANGE	\times					Analyst: NSB
Gasoline Range Organics (GRO)	530	41		mg/Kg	10	2/1/2021 9:18:47 AM
Surr: BFB	354	75.3-195	S	%Rec	10	2/1/2021 9:18:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.035	0.021		mg/Kg	1	1/30/2021 7:19:10 PM
Toluene	3.3	0.041		mg/Kg	1	1/30/2021 7:19:10 PM
Ethylbenzene	2.8	0.041		mg/Kg	1	1/30/2021 7:19:10 PM
Xylenes, Total	35	0.82		mg/Kg	10	2/1/2021 9:18:47 AM
Surr: 4-Bromofluorobenzene	299	80-120	S	%Rec	1	1/30/2021 7:19:10 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	1/31/2021 12:22:08 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #9 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:12:00 AM

 Lab ID:
 2101B07-005
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Uni	ts DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	67	9.7	mg	/Kg 1	1/30/2021 4:00:32 PM
Motor Oil Range Organics (MRO)	ND	48	mg	/Kg 1	1/30/2021 4:00:32 PM
Surr: DNOP	90.5	30.4-154	%R	ec 1	1/30/2021 4:00:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.8	mg.	/Kg 1	1/30/2021 7:43:03 PM
Surr: BFB	107	75.3-105	S %R	ec 1	1/30/2021 7:43:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.019	mg	/Kg 1	1/30/2021 7:43:03 PM
Toluene	ND	0.038	mg.	/Kg 1	1/30/2021 7:43:03 PM
Ethylbenzene	ND	0.038	mg.	/Kg 1	1/30/2021 7:43:03 PM
Xylenes, Total	ND	0.077	mg.	/Kg 1	1/30/2021 7:43:03 PM
Surr: 4-Bromofluorobenzene	97.5	80-120	%R	ec 1	1/30/2021 7:43:03 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg	/Kg 20	1/31/2021 12:59:22 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #8 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:15:00 AM

 Lab ID:
 2101B07-006
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	340	9.2	mg/Kg	1	1/30/2021 4:24:12 PM
Motor Oil Range Organics (MRO)	150	46	mg/Kg	1	1/30/2021 4:24:12 PM
Surr: DNOP	95.4	30.4-154	%Rec	1	1/30/2021 4:24:12 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	35	4.3	mg/Kg	1	1/30/2021 8:06:36 PM
Surr: BFB	338	75.3-105	S %Rec	1	1/30/2021 8:06:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.021	mg/Kg	1	1/30/2021 8:06:36 PM
Toluene	ND	0.043	mg/Kg	1	1/30/2021 8:06:36 PM
Ethylbenzene	ND	0.043	mg/Kg	1	1/30/2021 8:06:36 PM
Xylenes, Total	0.66	0.086	mg/Kg	1	1/30/2021 8:06:36 PM
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	1/30/2021 8:06:36 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	1/31/2021 1:11:46 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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #7 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:19:00 AM

 Lab ID:
 2101B07-007
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	180	9.5	mg/Kg	1	1/30/2021 4:47:46 PM
Motor Oil Range Organics (MRO)	90	47	mg/Kg	1	1/30/2021 4:47:46 PM
Surr: DNOP	92.5	30.4-154	%Rec	1	1/30/2021 4:47:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	24	4.1	mg/Kg	1	1/30/2021 8:30:34 PM
Surr: BFB	275	75.3-105	S %Rec	1	1/30/2021 8:30:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.020	mg/Kg	1	1/30/2021 8:30:34 PM
Toluene	ND	0.041	mg/Kg	1	1/30/2021 8:30:34 PM
Ethylbenzene	ND	0.041	mg/Kg	1	1/30/2021 8:30:34 PM
Xylenes, Total	0.12	0.082	mg/Kg	1	1/30/2021 8:30:34 PM
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	1/30/2021 8:30:34 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	61	mg/Kg	20	1/31/2021 1:24:11 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #6 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:25:00 AM

 Lab ID:
 2101B07-008
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	18	8.9	mg/K	g 1	1/30/2021 5:11:17 PM
Motor Oil Range Organics (MRO)	ND	44	mg/K	g 1	1/30/2021 5:11:17 PM
Surr: DNOP	89.4	30.4-154	%Red	1	1/30/2021 5:11:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.6	mg/K	g 1	1/30/2021 8:54:03 PM
Surr: BFB	121	75.3-105	S %Red	1	1/30/2021 8:54:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.018	mg/K	g 1	1/30/2021 8:54:03 PM
Toluene	ND	0.036	mg/K	g 1	1/30/2021 8:54:03 PM
Ethylbenzene	ND	0.036	mg/K	g 1	1/30/2021 8:54:03 PM
Xylenes, Total	ND	0.073	mg/K	g 1	1/30/2021 8:54:03 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Red	1	1/30/2021 8:54:03 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	61	mg/K	g 20	1/31/2021 1:36:36 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #1 & 2 Wall

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:45:00 AM

 Lab ID:
 2101B07-009
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 1/30/2021 5:34:47 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 1/30/2021 5:34:47 PM Surr: DNOP 90.0 30.4-154 %Rec 1 1/30/2021 5:34:47 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 1/30/2021 9:17:37 PM 3.6 mg/Kg 1 Surr: BFB 97.8 75.3-105 %Rec 1 1/30/2021 9:17:37 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 1/30/2021 9:17:37 PM 0.018 mg/Kg 1 Toluene ND 0.036 mg/Kg 1 1/30/2021 9:17:37 PM Ethylbenzene ND 0.036 mg/Kg 1 1/30/2021 9:17:37 PM Xylenes, Total ND 0.072 mg/Kg 1 1/30/2021 9:17:37 PM Surr: 4-Bromofluorobenzene 102 80-120 %Rec 1 1/30/2021 9:17:37 PM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 1/31/2021 1:49:01 PM ma/Ka 20

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #3 & 4 Wall

Project: Eaton A 1R Collection Date: 1/29/2021 10:50:00 AM Lab ID: 2101B07-010 Matrix: MEOH (SOIL) Received Date: 1/30/2021 9:15:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 1/30/2021 5:58:11 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 1/30/2021 5:58:11 PM Surr: DNOP 89.6 30.4-154 %Rec 1 1/30/2021 5:58:11 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 1/30/2021 9:41:38 PM 3.6 mg/Kg 1 Surr: BFB 95.0 75.3-105 %Rec 1 1/30/2021 9:41:38 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.018 mg/Kg 1/30/2021 9:41:38 PM 1 Toluene ND 0.036 mg/Kg 1 1/30/2021 9:41:38 PM Ethylbenzene ND 0.036 mg/Kg 1 1/30/2021 9:41:38 PM Xylenes, Total ND 0.072 mg/Kg 1 1/30/2021 9:41:38 PM Surr: 4-Bromofluorobenzene 98.9 80-120 %Rec 1 1/30/2021 9:41:38 PM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 1/31/2021 2:01:25 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

ma/Ka

20

- Sample pH Not In Range
- Reporting Limit RL

Page 10 of 25

CLIENT: HILCORP ENERGY

Analytical Report

Lab Order **2101B07**Date Reported: **2/4/2021**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: #3 & 4 Wall Stain

Project: Eaton A 1R **Collection Date:** 1/29/2021 10:52:00 AM

Analyses	Result	RL (Qual	Units	DE	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	1500	46		mg/Kg	5	2/1/2021 1:56:18 PM
Motor Oil Range Organics (MRO)	530	230		mg/Kg	5	2/1/2021 1:56:18 PM
Surr: DNOP	109	30.4-154		%Rec	5	2/1/2021 1:56:18 PM
EPA METHOD 8015D: GASOLINE RANGE	\sim					Analyst: RAA
Gasoline Range Organics (GRO)	570	20		mg/Kg	5	1/31/2021 12:49:29 AM
Surr: BFB	603	75.3-105	S	%Rec	5	1/31/2021 12:49:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.20	0.10		mg/Kg	5	1/31/2021 12:49:29 AM
Toluene	5.7	0.20		mg/Kg	5	1/31/2021 12:49:29 AM
Ethylbenzene	3.4	0.20		mg/Kg	5	1/31/2021 12:49:29 AM
Xylenes, Total	43	0.41		mg/Kg	5	1/31/2021 12:49:29 AM
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	5	1/31/2021 12:49:29 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	1/31/2021 2:13:49 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #5 N. Wall

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 10:58:00 AM

 Lab ID:
 2101B07-012
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual U	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	38	9.2		mg/Kg	1	1/30/2021 6:44:52 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/30/2021 6:44:52 PM
Surr: DNOP	89.8	30.4-154		%Rec	1	1/30/2021 6:44:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	9.6	3.6		mg/Kg	1	1/31/2021 1:13:18 AM
Surr: BFB	147	75.3-105	S	%Rec	1	1/31/2021 1:13:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.018		mg/Kg	1	1/31/2021 1:13:18 AM
Toluene	0.062	0.036		mg/Kg	1	1/31/2021 1:13:18 AM
Ethylbenzene	0.045	0.036		mg/Kg	1	1/31/2021 1:13:18 AM
Xylenes, Total	0.50	0.071		mg/Kg	1	1/31/2021 1:13:18 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	1/31/2021 1:13:18 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	1/31/2021 2:26:14 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 25

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2101B07

Date Reported: 2/4/2021

1/31/2021 1:37:12 AM

1/31/2021 1:37:12 AM

1/31/2021 2:38:38 PM

Analyst: VP

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #5 E. Wall

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 11:03:00 AM

 Lab ID:
 2101B07-013
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.0 mg/Kg 1 1/30/2021 7:08:10 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 1/30/2021 7:08:10 PM Surr: DNOP 89.3 30.4-154 %Rec 1 1/30/2021 7:08:10 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 1/31/2021 1:37:12 AM 3.8 mg/Kg 1 Surr: BFB 94.0 75.3-105 %Rec 1 1/31/2021 1:37:12 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 1/31/2021 1:37:12 AM 0.019 mg/Kg 1 Toluene ND 0.038 mg/Kg 1 1/31/2021 1:37:12 AM Ethylbenzene ND 0.038 mg/Kg 1 1/31/2021 1:37:12 AM

ND

98.8

ND

0.076

80-120

60

mg/Kg

%Rec

ma/Ka

1

1

20

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 13 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #5 S. Wall

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 11:12:00 AM

 Lab ID:
 2101B07-014
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/30/2021 7:31:29 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/30/2021 7:31:29 PM
Surr: DNOP	88.8	30.4-154	%Rec	1	1/30/2021 7:31:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	1/31/2021 2:01:09 AM
Surr: BFB	96.0	75.3-105	%Rec	1	1/31/2021 2:01:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.020	mg/Kg	1	1/31/2021 2:01:09 AM
Toluene	ND	0.040	mg/Kg	1	1/31/2021 2:01:09 AM
Ethylbenzene	ND	0.040	mg/Kg	1	1/31/2021 2:01:09 AM
Xylenes, Total	ND	0.080	mg/Kg	1	1/31/2021 2:01:09 AM
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	1/31/2021 2:01:09 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	1/31/2021 2:51:03 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 25

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #8 & 9 Wall

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 11:18:00 AM

 Lab ID:
 2101B07-015
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 1/30/2021 7:54:47 PM 1/30/2021 7:54:47 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 Surr: DNOP 90.8 30.4-154 %Rec 1 1/30/2021 7:54:47 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 1/31/2021 2:25:02 AM 4.2 mg/Kg 1 Surr: BFB 94.1 75.3-105 %Rec 1 1/31/2021 2:25:02 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.021 mg/Kg 1/31/2021 2:25:02 AM 1 Toluene ND 0.042 mg/Kg 1 1/31/2021 2:25:02 AM Ethylbenzene ND 0.042 mg/Kg 1 1/31/2021 2:25:02 AM Xylenes, Total ND 0.085 mg/Kg 1 1/31/2021 2:25:02 AM Surr: 4-Bromofluorobenzene 98.7 80-120 %Rec 1 1/31/2021 2:25:02 AM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 1/31/2021 3:28:16 PM ma/Ka 20

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 25

Analytical Report Lab Order 2101B07

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #6 & 7 Wall

Project: Eaton A 1R **Collection Date:** 1/29/2021 11:23:00 AM

Lab ID: 2101B07-016 **Matrix:** MEOH (SOIL) **Received Date:** 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	25	9.8	mg/K	g 1	1/30/2021 8:18:04 PM
Motor Oil Range Organics (MRO)	ND	49	mg/K	g 1	1/30/2021 8:18:04 PM
Surr: DNOP	89.6	30.4-154	%Red	1	1/30/2021 8:18:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	5.5	3.6	mg/K	g 1	1/31/2021 2:48:53 AM
Surr: BFB	139	75.3-105	S %Red	1	1/31/2021 2:48:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.018	mg/K	g 1	1/31/2021 2:48:53 AM
Toluene	ND	0.036	mg/K	g 1	1/31/2021 2:48:53 AM
Ethylbenzene	ND	0.036	mg/K	g 1	1/31/2021 2:48:53 AM
Xylenes, Total	ND	0.073	mg/K	g 1	1/31/2021 2:48:53 AM
Surr: 4-Bromofluorobenzene	99.5	80-120	%Red	1	1/31/2021 2:48:53 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/K	g 20	1/31/2021 3:40:40 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 25

Analytical Report Lab Order 2101B07

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #1 Base

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 3:02:00 PM

 Lab ID:
 2101B07-017
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	99	9.1	mg/K	g 1	1/30/2021 8:41:21 PM
Motor Oil Range Organics (MRO)	ND	46	mg/K	g 1	1/30/2021 8:41:21 PM
Surr: DNOP	91.5	30.4-154	%Red	: 1	1/30/2021 8:41:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	16	3.9	mg/K	g 1	1/31/2021 3:12:36 AM
Surr: BFB	205	75.3-105	S %Red	: 1	1/31/2021 3:12:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.019	mg/K	g 1	1/31/2021 3:12:36 AM
Toluene	ND	0.039	mg/K	g 1	1/31/2021 3:12:36 AM
Ethylbenzene	0.061	0.039	mg/K	g 1	1/31/2021 3:12:36 AM
Xylenes, Total	0.71	0.078	mg/K	g 1	1/31/2021 3:12:36 AM
Surr: 4-Bromofluorobenzene	103	80-120	%Red	: 1	1/31/2021 3:12:36 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	59	mg/K	g 20	1/31/2021 3:53:04 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 25

Analytical Report Lab Order 2101B07

Date Reported: 2/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: #1 & 6 Wall

 Project:
 Eaton A 1R
 Collection Date: 1/29/2021 3:08:00 PM

 Lab ID:
 2101B07-018
 Matrix: MEOH (SOIL)
 Received Date: 1/30/2021 9:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	160	9.6	mg/Kg	1	1/30/2021 9:04:38 PM
Motor Oil Range Organics (MRO)	60	48	mg/Kg	1	1/30/2021 9:04:38 PM
Surr: DNOP	92.7	30.4-154	%Rec	1	1/30/2021 9:04:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	29	3.8	mg/Kg	1	1/31/2021 3:36:08 AM
Surr: BFB	308	75.3-105	S %Rec	1	1/31/2021 3:36:08 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.019	mg/Kg	1	1/31/2021 3:36:08 AM
Toluene	0.081	0.038	mg/Kg	1	1/31/2021 3:36:08 AM
Ethylbenzene	0.12	0.038	mg/Kg	1	1/31/2021 3:36:08 AM
Xylenes, Total	1.5	0.075	mg/Kg	1	1/31/2021 3:36:08 AM
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	1/31/2021 3:36:08 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	1/31/2021 4:30:18 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 25

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101B07** *04-Feb-21*

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: MB-57817 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57817 RunNo: 74958

Prep Date: 1/31/2021 Analysis Date: 1/31/2021 SeqNo: 2646202 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-57817 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57817 RunNo: 74958

Prep Date: 1/31/2021 Analysis Date: 1/31/2021 SeqNo: 2646203 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.3 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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 19 of 25

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101B07**

04-Feb-21

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: MB-57812	SampT	SampType: MBLK TestCode: EPA Method 801						esel Rang	e Organics	
Client ID: PBS	Batch	1D: 57	812	F	RunNo: 7	4960				
Prep Date: 1/30/2021	Analysis D	ate: 1/	/30/2021	8	SeqNo: 2	646384	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 Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.5	30.4	154			
Sample ID: LCS-57812	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	1D: 57	812	F	RunNo: 7	4960				
Prep Date: 1/30/2021	Analysis D	ate: 1	/30/2021	S	SeqNo: 2	646385	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.7	68.9	141			
Surr: DNOP	3.8		5.000		76.7	30.4	154			
Sample ID: 2101B07-001AM	S SampT	уре: М	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: #5 Base	Batch	1D: 57	812	F	RunNo: 7	4960				
Prep Date: 1/30/2021	Analysis D	ate: 1/	/30/2021	9	SeqNo: 2	646386	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	80	9.4	47.13	46.37	70.5	15	184			
Surr: DNOP	4.1		4.713		88.0	30.4	154			
Sample ID: 2101B07-001AM	SD SampT	уре: М	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: #5 Base	Batch	1D: 57	812	F	RunNo: 7	4960				
Prep Date: 1/30/2021	Analysis D	ate: 1/	/30/2021	S	SeqNo: 2	646387	Units: mg/k	(g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result									
Analyte Diesel Range Organics (DRO)	73	10	49.75	46.37	54.4	15	184	8.06	23.9	

Client ID: PBS	Bat	tch ID: 57819	RunNo: 7	4965				
Prep Date: 2/1	/2021 Analysis	Date: 2/1/2021	SeqNo: 2	2646643	Units: %Rec			
Analyte	Result	PQL SPK value	SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10	10.00	102	30.4	154			

SampType: MBLK

Sample ID: LCS-57819 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 57819 RunNo: 74965 Prep Date: 2/1/2021 Analysis Date: 2/1/2021 SeqNo: 2646800 Units: %Rec 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

Sample ID: MB-57819

B Analyte detected in the associated Method Blank

TestCode: EPA Method 8015M/D: Diesel Range Organics

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 25

Hall Environmental Analysis Laboratory, Inc.

4.8

2101B07 04-Feb-21

WO#:

Client: HILCORP ENERGY

Project: Eaton A 1R

Surr: DNOP

Sample ID: LCS-57819 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57819 RunNo: 74965

Prep Date: 2/1/2021 Analysis Date: 2/1/2021 SeqNo: 2646800 Units: %Rec

5.000

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

95.3

30.4

154

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 21 of 25

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

WO#: **2101B07**

04-Feb-21

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: 2.5ug gro Ics

, ,	, ,	•								
Client ID: LCSS	Batch	ID: R7	4957	R	RunNo: 7	4957				
Prep Date:	Analysis Da	ate: 1/	30/2021	9	SeqNo: 20	646140	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1100		1000		107	75.3	105			S
Sample ID: 2101b07-001ams	SampTy	pe: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: #5 Base	Batch	ID: R7	4957	R	tunNo: 7	4957				
Prep Date:	Analysis Da	ate: 1/	30/2021	8	SeqNo: 20	646154	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.8	19.17	0	97.9	61.3	114			
Surr: BFB	890		766.9		116	75.3	105			S
	. O	ne. Ms	SD.	Tes	tCode: FI	DA Mothod	8015D: Gaso	line Rang	Δ	
Sample ID: 2101b07-001ams	d SampTy	po. IVIC	_			A Method	0010D. Guso	mic italig	C	
Sample ID: 2101b07-001amso		ID: R7			unNo: 7		0010D. Guso	mile rung	•	
•		ID: R7	4957	R		4957	Units: mg/K		u	
Client ID: #5 Base	Batch	ID: R7	4957 30/2021	R	tunNo: 7	4957			RPDLimit	Qual
Client ID: #5 Base Prep Date:	Batch Analysis Da	ID: R7	4957 30/2021	R	RunNo: 74 SeqNo: 26	4957 646155	Units: mg/K	(g		Qual

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS	Batcl	h ID: R7	4957	F	RunNo: 7	4957				
Prep Date:	Analysis D	Date: 1/	30/2021	SeqNo: 2646173 Units: mg/Kg				(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		105	75.3	105			
Sample ID: mb1	Samn	Type: MF	RI K	Tes	tCode: F l	PA Method	8015D: Gaso	line Rang	e	

Sample ID. IIID I	Sampi	ype. WE	DLK	163	restouce. EFA method outsp. Gasonile Kange					
Client ID: PBS	Batch ID: G74963			F	RunNo: 74963					
Prep Date:	Analysis D	ate: 2/	1/2021	S	SeqNo: 20	647108	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.8	75.3	105			

Sample ID: 2.5ug gro Ics	SampType: LCS	TestCode: EPA Method	PA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: G74963	RunNo: 74963						
Prep Date:	Analysis Date: 2/1/2021	SeqNo: 2647109	Units: mg/Kg					
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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 25

Hall Environmental Analysis Laboratory, Inc.

2101B07 04-Feb-21

WO#:

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G74963 RunNo: 74963

Prep Date: Analysis Date: 2/1/2021 SeqNo: 2647109 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 Gasoline Range Organics (GRO) 26 5.0 25.00 102 80 120 Surr: BFB 1100 1000 108 75.3 105 S

Sample ID: mb-57813 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 57813 RunNo: 74963

Prep Date: 1/30/2021 Analysis Date: 2/1/2021 SeqNo: 2647126 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 940 1000 Surr: BFB 94.4 75.3 105

Sample ID: Ics-57813 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 57813 RunNo: 74963

Prep Date: 1/30/2021 Analysis Date: 2/1/2021 SeqNo: 2647127 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1000 1000 103 75.3 105

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 23 of 25

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101B07**

04-Feb-21

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: 100ng btex Ics	Samp	Гуре: LC	S	Tes						
Client ID: LCSS	Batc	Batch ID: BS74957 RunNo: 74957								
Prep Date:	Analysis [Date: 1/3	30/2021	S	SeqNo: 2	646178	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 2101b07-002ams	SampT	ampType: MS TestCode: I					EPA Method 8021B: Volatiles					
Client ID: #4 Base	Batch	n ID: BS	74957	F	4957							
Prep Date:	Analysis D	oate: 1/3	30/2021	S	646181	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.77	0.019	0.7698	0	100	76.3	120					
Toluene	0.78	0.038	0.7698	0.007929	101	78.5	120					
Ethylbenzene	0.79	0.038	0.7698	0	103	78.1	124					
Xylenes, Total	2.5	0.077	2.309	0.1075	102	79.3	125					
Surr: 4-Bromofluorobenzene	0.85		0.7698		111	80	120					

Sample ID: 2101b07-002amsd	SD .	TestCode: EPA Method 8021B: Volatiles								
Client ID: #4 Base	Client ID: #4 Base Batch ID: BS74957				RunNo: 74957					
Prep Date:	S	SeqNo: 2646182 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.019	0.7698	0	98.4	76.3	120	1.95	20	
Toluene	0.77	0.038	0.7698	0.007929	98.8	78.5	120	1.86	20	
Ethylbenzene	0.78	0.038	0.7698	0	101	78.1	124	1.55	20	
Xylenes, Total	2.4	0.077	2.309	0.1075	99.3	79.3	125	2.34	20	
Surr: 4-Bromofluorobenzene	0.85		0.7698		110	80	120	0	0	

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: BS	74957	F	RunNo: 7	4957				
Prep Date:	Analysis D	oate: 1/	30/2021	S	SeqNo: 2	646199	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		108	80	120			

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 25

Hall Environmental Analysis Laboratory, Inc.

2101B07 04-Feb-21

WO#:

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: B74963 RunNo: 74963

Prep Date: Analysis Date: 2/1/2021 SeqNo: 2647153 Units: mg/Kg

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

Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.99 1.000 99.3 80 120

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: B74963 RunNo: 74963

Prep Date: Analysis Date: 2/1/2021 SeqNo: 2647154 Units: mg/Kg

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

 Xylenes, Total
 2.8
 0.10
 3.000
 0
 94.0
 80
 120

 Surr: 4-Bromofluorobenzene
 1.0
 1.000
 101
 80
 120

Sample ID: mb-57813 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 57813 RunNo: 74963

Prep Date: 1/30/2021 Analysis Date: 2/1/2021 SeqNo: 2647161 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

Sample ID: LCS-57813 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 57813 RunNo: 74963

Prep Date: 1/30/2021 Analysis Date: 2/1/2021 SeqNo: 2647162 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 99.5 80 120

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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

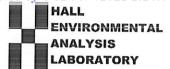
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 25 of 25



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	HILCORP	ENERGY	Worl	k Order Numbe	er: 2101B0	7	RcptN	lo: 1
Received By:	Juan Roj	as	1/30/20	021 9:15:00 A	М	Glane &		
Completed By:	Juan Roj	as	1/30/20	021 9:30:43 A	м	Heaven G		
Reviewed By:	N 01/30/	2021				, 2		
Chain of Cus	tody							
1. Is Chain of Co	ustody com	olete?			Yes 🗸	No □	Not Present	
2. How was the	sample deli	vered?			Courier			
<u>Log In</u>								
Was an attem	npt made to	cool the samp	les?		Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	oles received	d at a tempera	ature of >0° C	to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
5. Sample(s) in բ	oroper conta	iner(s)?			Yes 🗸	No 🗆		
6. Sufficient sam	ple volume	for indicated to	est(s)?		Yes 🗸	No 🗌		
7. Are samples (except VOA	and ONG) pr	operly preserv	ed?	Yes 🗸	No 🗌		
8. Was preservat	tive added to	bottles?			Yes \square	No 🗸	NA 🗌	
9. Received at le	ast 1 vial wi	th headspace	<1/4" for AQ \	/OA?	Yes	No 🗌	NA 🗸	
0. Were any sam	nple contain	ers received b	roken?		Yes	No 🗸	# of preserved	
1. Does paperwo (Note discrepa)		Yes 🗸	No 🗆	bottles checked for pH:	or >12 unless noted)
2. Are matrices c	orrectly ider	tified on Chai	n of Custody?		Yes 🗸	No 🗌	Adjusted?	
3. Is it clear what	analyses w	ere requested	?		Yes 🗸	No 🗌		
 Were all holdin (If no, notify cu 					Yes 🗸	No 🗆	Checked by:	JR 1/30/2
pecial Handli	ng (if app	olicable)						
5. Was client not	ified of all d	iscrepancies v	vith this order?	?	Yes	No 🗌	NA 🗸	
Person I	Notified:			Date				
By Whor	m:			Via:	eMail	Phone Fax	☐ In Person	
Regardir					~~~			
Client In:	structions:							
6. Additional rem	narks:							
7. Cooler Inform	nation							
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
1	2.4	Good						
2	1.3	Good						

Released	hain-	-of-CL	Chain-of-Custody Record	Turn-Around Time:	l Time:	,			HALL		2	TRO	2	ENVIRONMENTAL		Receive
	Hile	CORD		□ Standard	Rush K	2 DAY		1	Z	ALY	SIS		BOI	ANALYSIS LABORATOR	ORY	d by
		,		Project Name:					M	.haller	Iviron	www.hallenvironmental.com	Com			0C1
	Mailing Address:			EATON	1 1 2	٠	49()1 Hav	4901 Hawkins NE		Ibuau	eraue.	Albuqueraue. NM 87109	60		D: 5/
2/2	-	赤		Project #:			Tel.	I. 505-	505-345-3975		Fax	505-34	505-345-4107			7/20
2/20 Bhone #:	: 505	5-793	3-0733							Ana	Analysis	Request	st			21 1
email or Fax#:	Fax#:			Project Manager:	ager:			_		70	70	(‡0	(11			24:
22 QA/QC Package:	ackage:			<	<			s'8	SN	05 7	0 147	Josq	Q	11		:07 I
Standard	dard		☐ Level 4 (Full Validation)	いてみとな	CARD	OZH		ЪС	IIS0	<u></u>		Alto				M
Accreditation:	 	□ Az Co	☐ Az Compliance	Sampler:	5			45064 69		ON	17		19891			
□ EDD (Tv	(ed			# of Coolers:	Sa. K	ON I				_	10-					
				Cooler Temp(including CF):	O(including CF): 5 &e	Remarks (°C)	St 82-000002	808						i a m		
Date -	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	· \ X∃T8 · 08:H9T	9081 P6 M) 903	M) BOE	3 ASS 8	V) 0928	S) 0728	CHLO	- 1177		
1-29	00:00	55	# 5 BASE	402 JAR	200	-001	×			-			X	- 1		1
	10:03		# 4 BASE	1	1	700-	×						X			
	10:0b		# 3 BASE			5007	X						X	1 1 2 2		
	10:08		# 2 BASE			1001	×						×			
	21:0		# 9 TSASE			-C007	×						X	8 4		
_	19:15		# 8 BASE	_		2006	X			_			X			
_	61:01		#] BASE			-003	×						X			
	10:25	-	# 6 BASE			-008	×						X			
	10:45		# 1 5 2 WALL			1009	×						X			
	10:50	-	* 354 WALL			010-	X						×			
	10:52		3541	609		710	メメ			10.0			×			
	900		# S ROWELL	- >	,	210-	X						×			
Date: T		Relinquished by	ed by:	Received by:	(0	Date Time	Remarks:		Ci	0-7	C L	>				<u> </u>
Ť	Time:	Relinquished by	y po	Received by:	Via:	Date Time			-	3-0	-1	~				Pag
5	00	5	Modu (Nog L	J	(denter	21				.6.	100	9				ge 48 a
	necessary,	samples subi	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.	contracted to other a	ccredited laboratorie	is. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	possibility. A	ny sub-co	ontracted	data will l	oe clearly	notated	on the anal	ytical report		of 66

Chain-of-Custody Record	Turn-Around Tim	Time:	Carporate a company of the												Recei
Client: A. Leo 20	Standard	⊠ Rush	2 DAY				HALL		ENV.	Z Z	8	ENVIRONMENT	FE	TAL	ved by
Ima	Project Name:				1550						www hallenvironmental com		1		, <i>OC</i>
Mailing Address:	EATON	# Y Ma	7		490	1 Hav	4901 Hawkins NE	· 当	Albu	anero	Ille. N	Albuquerane NM 87109			D: 5/
- 2/2	Project #:				Tel.	505	505-345-3975	975	F	Fax 50	505-345-4107	-4107			7/20
Phone # 505 - 793 - 0733			and the second s					A	Analysis		Request				21 1
email or Fax#:	Project Manager:	jer:	5	(1	(0				†O		(ţu	D			24:
QA/QC Package:	ک	ARA CAD	4 70704	. (80S		CB,8	SMIS	, ja	S ԠOc	3	iəsdA\	0'0			07 PM
preditation.	Sampler.	000		NB.		A000			1 'zC		uəs				
		T Yes	No D	II /					N	(Α					
□ EDD (Type)	olers:		NAME OF TAXABLE PARTY.	38				stals			+ -				
	Cooler Temp(including CF):	~	ee Remarks (°C)	±₩				∍M 8				30-			
Date Time Matrix Sample Name	Container Type and #	Preservative Type	HEAL NO.	NETEX /	08:HGT	8081 P (N) BQ3	a sHA9	АЯЭЯ	Cl, F, E	7) 0828 8) 0728	O lstoT	ν			
1-29 11:03 55 #5 E. WALL	402 JAR	98. 13.	-0,3	×	メ							.×			
/ 11/12 / # 5 S. WALL	/	1	10-	×	×							×			
11:18 (# 8 29 WALL		/	10-	X	×		-	# 9			51	X			
11:23 # 6 ET WRIL			-016	×	X						3.	×		-	
3:02 # 1 BASE			£10-	×	×		133			1 5		X			
13:08 / # 12 6 WALL		(-018	×	×							X			
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Make: Time: Refinguished by:	Received by:	Via: - Towfer	Date Time					9.	2	20	ع				age 49 c
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.	ibcontracted to other acc	redited laboratories	Ę	s possib	lity. An	y sub-co	ontracte	data v	ill be cl	early no	tated on	the analytic	al report.		of 66



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

February 09, 2021

Clara Cardoza HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX:

RE: Eaton A 1R OrderNo.: 2102208

Dear Clara Cardoza:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/4/2021 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

Project: Eaton A 1R

Analytical Report

Lab Order **2102208**Date Reported: **2/9/2021**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: #3 & #4 Wall Stain Collection Date: 2/3/2021 9:04:00 AM

Lab ID: 2102208-001	Matrix: SOIL	Rec	eived Date:	2/4/20	21 8:00:00 AM
Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/5/2021 8:05:14 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/5/2021 8:05:14 AM
Surr: DNOP	92.0	70-130	%Rec	1	2/5/2021 8:05:14 AM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	2/4/2021 2:34:58 PM
Surr: BFB	107	75.3-105	S %Rec	1	2/4/2021 2:34:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.020	mg/Kg	1	2/4/2021 2:34:58 PM
Toluene	ND	0.039	mg/Kg	1	2/4/2021 2:34:58 PM
Ethylbenzene	ND	0.039	mg/Kg	1	2/4/2021 2:34:58 PM
Xylenes, Total	ND	0.078	mg/Kg	1	2/4/2021 2:34:58 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	2/4/2021 2:34:58 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	2/4/2021 5:11:27 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

CLIENT: HILCORP ENERGY

Analytical Report

Lab Order **2102208**

Date Reported: 2/9/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: #2 Base

 Project:
 Eaton A 1R
 Collection Date: 2/3/2021 10:00:00 AM

 Lab ID:
 2102208-002
 Matrix: SOIL
 Received Date: 2/4/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: TOM
Diesel Range Organics (DRO)	46	9.3		mg/Kg	1	2/5/2021 9:16:25 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/5/2021 9:16:25 AM
Surr: DNOP	94.7	70-130		%Rec	1	2/5/2021 9:16:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	2/4/2021 2:58:25 PM
Surr: BFB	114	75.3-105	S	%Rec	5	2/4/2021 2:58:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.091		mg/Kg	5	2/4/2021 2:58:25 PM
Toluene	ND	0.18		mg/Kg	5	2/4/2021 2:58:25 PM
Ethylbenzene	ND	0.18		mg/Kg	5	2/4/2021 2:58:25 PM
Xylenes, Total	ND	0.36		mg/Kg	5	2/4/2021 2:58:25 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	5	2/4/2021 2:58:25 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/4/2021 5:23:52 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102208**

09-Feb-21

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: MB-57922 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57922 RunNo: 75086

Prep Date: 2/4/2021 Analysis Date: 2/4/2021 SeqNo: 2650484 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-57922 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57922 RunNo: 75086

Prep Date: 2/4/2021 Analysis Date: 2/4/2021 SeqNo: 2650485 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.2 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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

2102208 09-Feb-21

WO#:

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: MB-57918 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 57918 RunNo: 75091

Prep Date: 2/4/2021 Analysis Date: 2/5/2021 SeqNo: 2650944 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 87.3 70 8.7 10.00 130

Sample ID: LCS-57918 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 57918 RunNo: 75091

Prep Date: 2/4/2021 Analysis Date: 2/5/2021 SeqNo: 2650945 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 44 10 68.9 50.00 88.8 141 Surr: DNOP 4.2 5.000 84.5 70 130

Sample ID: 2102208-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: #3 & #4 Wall Stain Batch ID: 57918 RunNo: 75091

Prep Date: 2/4/2021 Analysis Date: 2/5/2021 SeqNo: 2650947 Units: mg/Kg

HighLimit Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 0 97.0 15 9.6 48.08 184

Surr: DNOP 4.808 91.4 70 130 44

Sample ID: 2102208-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: #3 & #4 Wall Stain Batch ID: 57918 RunNo: 75091

Prep Date: 2/4/2021 Analysis Date: 2/5/2021 SeqNo: 2650948 Units: mg/Kg

%RPD Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 46 9.7 48.69 0 94.6 15 184 1.28 23.9 Surr: DNOP 4.4 4.869 90.5 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102208**

09-Feb-21

Client: HILCORP ENERGY

Project: Eaton A 1R

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G75077 RunNo: 75077

Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650151 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 1000 1000 105 75.3 105

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G75077 RunNo: 75077

Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650152 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 109 80 120 Surr: BFB 1200 1000 75.3 105 S 117

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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: 2102208

09-Feb-21

Client: HILCORP ENERGY

Project: Eaton A 1R

Surr: 4-Bromofluorobenzene

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: **B75077** RunNo: 75077 Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650166 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene

100

103

80

80

120

120

Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0

1.000

1.000

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: **B75077** RunNo: 75077 Units: mg/Kg Prep Date: Analysis Date: 2/4/2021 SeqNo: 2650169 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.93 0.025 1.000 0 93.4 80 120 Benzene Toluene 0.96 0.050 1.000 0 96.0 80 120 0.96 0.050 0 95.7 80 120 Ethylbenzene 1.000 2.9 0.10 3.000 0 95.7 80 120 Xylenes, Total

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 range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: HI	LCORP ENERGY	Work Order Nu	mber: 2102208		RcptNo:	1
Received By: J	uan Rojas	2/4/2021 8:00:00	АМ	Heaven		
Completed By: S	Sean Livingston	2/4/2021 8:21:12	AM	Guaranto Sand	,	
Reviewed By:	22/4/21) r U)	731-	
Chain of Custod	dy					
1. Is Chain of Custo	ody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the san	nple delivered?		Courier			
Log In						
7.00	made to cool the samp	les?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples	received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in prop	per container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample	volume for indicated to	est(s)?	Yes 🗸	No 🗌		
7. Are samples (exce	ept VOA and ONG) pr	operly 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 b	roken?	Yes	No 🗸	`	
11.5					# of preserved bottles checked	2/4/21
 Does paperwork n (Note discrepancie) 	natch bottle labels? es on chain of custody)	Yes 🗸	No 🔲	for pH:	>12 unless noted)
12. Are matrices corre	5		Yes 🗸	No 🗆	Adjusted?	12 unless noted)
13. Is it clear what and			Yes 🗸	No 🗌	-	
14. Were all holding ti	mes able to be met? mer for authorization.)		Yes 🗸	No 🗆	Checked by:	
Special Handling						
15. Was client notified		vith this order?	Yes	No 🗌	NA 🗹	
Person Noti	fied:	Date	a· [
By Whom:	The second contract of the second	Via:	·	Phone Fax	☐ In Person	
Regarding:	7-			Thore rax		
Client Instru	ictions:				ONE CONTRACTOR OF THE PROPERTY	
16. Additional remark	KS:					
17. Cooler Informati	ion					
	emp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 0.8		Yes		J.G., C. J.		

	. >	ı	D: 5/	7/20	21 1	.24.	:07 PM													_ <i>'</i>	Page 58	θf
	HALL ENVIRONMENTAL ANALYSIS LABORATOR	tue	4901 Hawkins NE - Albuquerque NM 87109		Analysis	ÞΟ	PCB's	(1,)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	s/804 or 8 / / /	ide 10 10 10 10 10 10 10	ethoethoethoethoethoethoethoethoethoetho	TPH:80 8081 P6 PAHs b RCRA 8 8260 (V 8270 (S Total Co		>						ks:		Francescon sometime to United States to United to United States to United St
1												9 X 3 T 8	×	<i>></i>						Remarks		
Turn-Around Time: Resucts by 2-5	M Rush 2 Card 12		A# 1P			ger:	CARDOXA	- ANN	√ Yes □ No		including CF): $1.0-0.2 \ge 0.8$ (°C)	Preservative HEAL No.	100	700						Via: Date Time	Via: Date Time	(COM) 1161 0
Turn-Around	□ Standard	Project Name:	EATEN	Project #:		Project Manager:	C. \$000	Sampler: K		# of Coolers:	Cooler Temp(including cF):	Container Type and #	()	11						Received by:	Received by:	1000
Chain-of-Custody Record	Client:		Mailing Address:		Phone #: 505~793~2784	email or Fax#:	QA/QC Package: □ Standard □ Level 4 (Full Validation)	Accreditation: Az Compliance	7	□ EDD (Type)		Date Time Matrix Sample Name	2-3 9:04 SS # 3:4 WALL STAIN	3E					,	Date: Time: Relinfujsheg/by/	Date: Time: Relinquished by:	

Agency Correspondence

Clara Cardoza

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Sent: Thursday, January 28, 2021 12:23 PM

To: Clara Cardoza Cc: Kurt Hoekstra

Subject: [EXTERNAL] RE: Conf Samples/Variance

Clara,

OCD reviewing the site it is on Private surface correct? If so the OCD is ok with approving the variance to the 48 hour notice for confirmation samples.

If the surface is Federal or State please make sure to get approval from either agency if needed.

Please sample per 19.15.29.12. NMAC or if needed you may send me photos/facetime and I could alternatively approve an alterative sampling plan.

Thanks,

Cory Smith • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Clara Cardoza <ccardoza@hilcorp.com> Sent: Thursday, January 28, 2021 11:17 AM

To: Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

Cc: Kurt Hoekstra <khoekstra@hilcorp.com> Subject: [EXT] Conf Samples/Variance

Good morning Cory. Hilcorp would like to request a variance on the 48 hr notice on confirmation sampling notice for the Eaton A 1R (nAPP2101050782). We had an over the top that has turned into a bigger excavation as we have found what appears to be historic impacts. Since we have the equipment onsite we wanted to utilize the time to get our confirmation samples completed. We know that NMOCD has restrictions because of COVID so we thought this might be acceptable. We want to sample tomorrow morning at 8:00 a.m. If this is not acceptable, can we schedule a 8:00 a.m. on Monday? Thank you for your consideration.

Clara M Cardoza Environmental Specialist 505-564-0733 (0) 505-793-2784 (C)



Clara Cardoza

From: Clara Cardoza

Sent: Wednesday, February 3, 2021 12:19 PM To: Smith, Cory, EMNRD; Kurt Hoekstra

Subject: RE: [EXTERNAL] RE: Eaton A #1R nAPP2101050782
Attachments: Grab sample before.jpg; Grab after.JPG; Base After.JPG

Cory, as a follow-up to the conversation you had with Kurt this morning regarding confirmation re-sampling at the Eaton A 1R please find the following:

Attached are pictures of the excavation areas that needed to be resampled (Grab sample you requested from 1/29 sampling pictured below in your email and base 2 depicted in my email below).

- Grab sample before shows the area of the grab sample and Base 2 (on the left of the grab area) both which did not pass and before additional work was done today before resampling.
- · Grab sample after shows the area sampled after dark soil was removed
- Base after shows base 2 after excavation

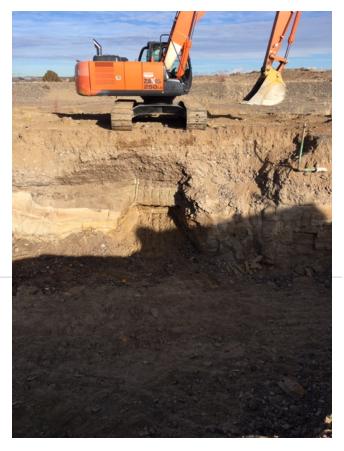
This email also serves to document your approval to resample these two areas without 48 hour notice.

Please let me know if you have any questions.

Thank you, Clara



Grab sample before



Grab sample after



Base After

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]

Sent: Friday, January 29, 2021 9:31 AM

To: Clara Cardoza <ccardoza@hilcorp.com>; Kurt Hoekstra <khoekstra@hilcorp.com>

Subject: [EXTERNAL] RE: Eaton A #1R

Clara,

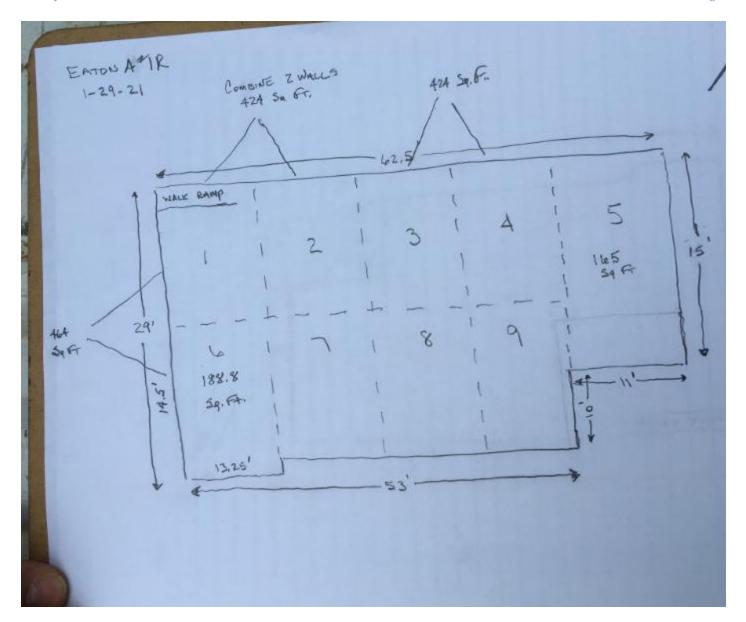
Thanks for the follow up!

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Clara Cardoza < ccardoza@hilcorp.com>
Sent: Friday, January 29, 2021 8:47 AM

To: Kurt Hoekstra < khoekstra@hilcorp.com >; Smith, Cory, EMNRD < Cory.Smith@state.nm.us >

Subject: [EXT] Re: Eaton A #1R



The attached is the document originally sent via text message that was conditionally approved by Cory in this email string with additional grab sample he specified.

Get Outlook for iOS

----Original Message-----

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]

Sent: Friday, January 29, 2021 8:41 AM

To: Kurt Hoekstra <khoekstra@hilcorp.com>; Clara Cardoza <ccardoza@hilcorp.com>

Subject: [EXTERNAL] RE: Eaton A #1R

Kurt,

OCD approves the alternative sampling on the walls for 400 sqft with the following conditions.

- Hilcorp will collect a grab sample of the area in red attached.

Please keep this approval for your records and include it in your Final C-141 as a hard copy will not be sent to you.



Thanks,

Cory Smith ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us http://www.emnrd.state.nm.us/OCD/

From: Kurt Hoekstra < <u>khoekstra@hilcorp.com</u>> Sent: Friday, January 29, 2021 8:32:58 AM

To: Cory Smith < Cory.Smith@state.nm.us; Clara Cardoza < ccardoza@hilcorp.com>

Subject: Eaton A #1R







Released to Imaging: 2/22/2022 7:23:29 AM

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 27379

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street Houston, TX 77002	Action Number: 27379
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	2/22/2022