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	NCS1915527449
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hilcorp Energy	OGRID 372171
Contact Name Clara Cardoza	Contact Telephone 505.564.0733
Contact email ccardoza@hilcorp.com	Incident # (assigned by OCD)NCS1915527449
Contact mailing address 382 CR 3100, Aztec NM 87410	

Location of Release Source

Latitude 36.6088295

Longitude <u>-107.7280273</u> (NAD 83 in decimal degrees to 5 decimal places)

Site Name Schwerdtfeger A 3M	Site Type Well Site
Date Release Discovered BGT Closure 5/31/2019	API# (<i>if applicable</i>) 30-045-11605

Unit Letter	Section	Township	Range	County
D	06	27N	8W	San Juan

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units) Unknown	Volume/Weight Recovered (provide units) n/a
Historic		
Cause of Release Closure	of two BGTs on site - the 95 bbl BGT did not meet cl	osure standards.

Form C-141	State of New Mexico Oil Conservation Division	Incident ID	
Page 2		District RP	
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ⊠ No	If YES, for what reason(s) does the responsible pa	rty consider this a major release?	

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

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

The source of the release has been stopped.

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: <u>Clara Cardoza</u>	Title: <u>Environmental Specialist</u>
Signature:	Date: <u>12/04/2019</u>
email:ccardoza@hilcorp.com	Telephone: <u>505.564.0733</u>
OCD Only	
Received by:	Date:

Received by OCD: 12/4/2019 3:49:10 PM

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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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?	<u>< 50</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

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

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 wells.

- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- 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: 12/4/201	19 3:49:10 PM			Page 4
Form C-141	State of New Mexico	of New Mexico		
Page 4	Oil Conservation Division	L	District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: <u>Clara</u> Signature: <u>Clara</u> email: <u>ccardoza@</u>	re required to report and/or file certain release no priment. The acceptance of a C-141 report by the tigate and remediate contamination that pose a the s of a C-141 report does not relieve the operator of Cardoza Cardoza hilcorp.com	otifications and perform OCD does not relieve reat to groundwater, su of responsibility for cor Title: <u>Environn</u> Date: <u>12/04/20</u> Telephone:	n corrective actions for release the operator of liability sho inface water, human health npliance with any other fee <u>nental Specialist</u> <u>119</u> <u>505.564.0733</u>	ases which may endanger ould their operations have or the environment. In leral, state, or local laws
Received by:		Date:		

Received by OCD: 12/4/2019 3:49:10 PM

Form C-141 Page 6

State of New Mexico Oil Conservation Division

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 ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: <u>Clara Cardoza</u>	Title: <u>Environmental Specialist</u>
Signature:	Date: <u>12/04/2019</u>
email: <u>ccardoza@hilcorp.com</u>	Telephone: <u>505.564.0733</u>
OCD Only	
Received by:OCD 12/4/2019	Date:
Closure approval by the OCD does not relieve the responsible party of	of liability should their operations have failed to adequately investigate and
party of compliance with any other federal, state, or local laws and/o	or regulations.
Closure Approved by:	Date:2/18/2020
Printed Name: Cory	Title: Environmental Specialist

Executive Summary

On May 31, 2019 Hilcorp Energy sampled 2 – BGTs at the Schwerdtfeger A 3M for closure. The 95 bbl BGT did not pass in accordance with the approved BGT pit closure plan approved by NMOCD on 07/06/2016. Hilcorp then requested permission to backfill both BGTs with the intent of re-excavating and removing remaining contaminants of the 95 bbl BGT once the re-fracing was completed at that site (email included).

Confirmation samples were taken in the area of the 95 bbl BGT on July 15, 2019 in accordance with NMAC 19.15.29.12.D. NMOCD was present for sampling. Three sample were taken and came back in compliance with clean up action levels. A variance was approved for sampling methods and is included in this report.







Distance to watercourse

Distance to watercourse approximately 1,643 ft

Water sources or courses within ½ mile

Depth to groundwater

	New Mexico Office of the State Engineer Water Column/Average Depth to Water	Water Co	Mexico Office of the State Engineer Diumn/Average Depth to Water
	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD\$3 UTM in meters)
	No recoras nound.		No records found.
PLSS Search: Section(s): 5, 6, The data is furnished by the 2	7, 8 Township: 27N Range: 08W	PLSS Search: Section(s): 1, 12 Township: 27N	Range: 09W
12/2/19 3:18 PM	mity, usatility, or suitability for any particular purpose of the data. WATER COLUMN/ AVERAGE	The data is furnished by the NMOSE/ISC and is accepted by the rec accuracy, completeness, reliability, usability, or suitability for any pr	ripient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning articular purpose of the data.
	New Mexico Office of the State Engineer	New Water	Mexico Office of the State Engineer
	water Column/Average Depth to water	water Co	olumn/Average Depth to water
	(quarters are 1=NW2=NE 3=SW 4=SE)		(quarters are 1=NW 2=NE 3=SW 4=SE)
	(quarters are smallest to largest) (NAD65 UIM in meters) No records found.		(quarters are summers to magest) ((AADos O FAI in meters) No records found.
PLSS Search:		PLSS Search:	
Section(s): 36	Township: 28N Range: 09W	Section(s): 31, 32 Township: 28N	Range: 08W
se data is furnished by the NI curacy completeness, reliable	MOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the inv usability or unitability for any rational memory of the data.	The data is furnished by the NMOSE/ISC and is accepted by the 1 accuracy, completeness, reliability, usability, or suitability for any	recipient with the expressed understanding that the OSE ISC make no warranties, expressed or implied, concernin particular purpose of the data
2/2/19 3:22 PM	WATER COLUMN/ AVERAGE DEPTH TO WATER	12/2/19 3:24 PM	WATER COLUMN/ AVERAGE DEPTH TO WATER

No data available on the NM Office State Engineers. Default to the closure clean-up standards from BGT permit of < 50 ft for groundwater depth. For any future reporting and/or closures this will be revisited as necessary.

Depth to groundwater

No groundwater depth data available on the NM Office of the State Engineer website or cathodic data from HEC

Sample locations from excavation of 95 bbl BGT

				Laboratory Results									
		Field VOCs by PID	Chloride	TPH as DRO	TPH as GRO	TPH as MRO	Total TPH	TPH as GRO + DRO	Benzene	Toluene	Ethylbenzene	Total Xvlene	Total BTEX
Sample Name	Date	(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	-	600	-	-	-	100	-	10	-	-	-	50
95 bbl pit	05/31/19	n/a	ND	210.00	ND	240.00	450.00	210.00	ND	ND	ND	ND	0
21 bbl pit	05/31/19	n/a	ND	ND	ND	ND	0.00	0.00	ND	ND	ND	ND	0
N 1/3 Base	07/11/19	n/a	ND	21	ND	50	71.00	21.00	ND	ND	ND	ND	0
M 1/3 Base	07/11/19	n/a	ND	ND	ND	ND	0.00	0.00	ND	ND	ND	ND	0
S 1/3 Base	07/11/19	n/a	ND	ND	ND	ND	0.00	0.00	ND	ND	ND	ND	0

Data table of soil contaminant concentration data

Confirmation samples taken on 5/31/2019 in accordance with NMAC 19.15.29.12.D. The 95 bbl BGT failed on Total TPH. The area of the BGT was excavated and samples were taken again on 7/11/2019 in accordance with NMAC 19.15.29.12.D. NMOCD was present during the sampling event. Because there was no groundwater data for this site the closure standards from the BGT permit was utilized. For any future reporting and/or closures this will be revisited as necessary.

Clara Cardoza

From:	Christine Brock
Sent:	Tuesday, May 28, 2019 2:19 PM
To:	'Smith, Cory, EMNRD'
Cc:	Whitney Thomas - BLM (I1thomas@blm.gov); 'Adeloye, Abiodun'; Cheryl Weston;
	Kandis Roland; Clara Cardoza; Eufracio Trujillo
Subject:	72 Hour notification - Schwerdtfeger A 3M / API 30-045-11605

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Friday, May 31, 2019 at approximately 10:00 a.m.

The subject well has <u>two</u> below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name:	Schwerdtfeger A 3M							
API#:	30-045-11605	30-045-11605						
Location:	Unit D (NWNW), Section	06, T27N, R08W						
Footages:	885' FNL & 815' FWL							
Operator:	Hilcorp	Surface Owner: Federal (Lease #SF-079319)						
Reason:	Tanks are out of service	so they are being removed from location.						

Thank you,

Christine Brock

Hilcorp Energy Company San Juan South Regulatory Office: 505-324-5155 cbrock@hilcorp.com

Clara Cardoza

From:	Clara Cardoza
Sent:	Thursday, July 11, 2019 9:10 AM
То:	'Powell, Brandon, EMNRD'; 'cory.smith@state.nm.us'
Cc:	'Abiodun Adeloye'; 'whitney thomas (I1thomas@blm.gov)'; Kurt Hoekstra
Subject:	RE: Schwerdtfeger A 3M - API 30-045-11605 NCS1915527449

Please let this serve as notice for confirmation samples at the Schwerdtfeger A 3M for 9 a.m. on Monday July 15th. Please let me know if you have any questions.

Thank you, Clara

From: Clara Cardoza Sent: Monday, June 17, 2019 9:46 AM To: 'Powell, Brandon, EMNRD' <Brandon.Powell@state.nm.us>; 'cory.smith@state.nm.us' <cory.smith@state.nm.us> Cc: 'Abiodun Adeloye' <aadeloye@blm.gov>; Christine Brock <cbrock@hilcorp.com>; whitney thomas (I1thomas@blm.gov) <I1thomas@blm.gov> Subject: RE: Schwerdtferger A 3M - API 30-045-11605 NCS1915527449

Brandon/Cory, I just wanted to give you an update on this work. The rig had some delays and we were unable to get to this work as we had hoped last week. Our plan is to begin work on Thursday June 20th. Please let me know if you have any questions.

Thank you, Clara

From: Clara Cardoza Sent: Monday, June 3, 2019 3:52 PM To: Powell, Brandon, EMNRD <<u>Brandon.Powell@state.nm.us</u>> Cc: <u>cory.smith@state.nm.us</u>; Abiodun Adeloye <<u>aadeloye@blm.gov</u>>; Christine Brock <<u>cbrock@hilcorp.com</u>> Subject: Schwerdtferger A 3M - API 30-045-11605

Brandon, here is a recap of our conversation this afternoon with additional information. Hilcorp's closure samples for the 95 bbl BGT at the Schwerdtferger A 3M came back above standards (the 21bbl BGT came back ND). We are in the process of re-fracing this location which is scheduled to occur on Wednesday June 5th. With the NMOCDs approval we will backfill both pits for the short term until the re-fracing is done and should be re-excavating the 95 bbl BGT by the middle of next week. If there are any delays to this schedule we will keep you apprised.

Please let me know if you have any further questions.

Thank you,

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

Please consider the environment before printing this e-mail

Clara Cardoza

From:	Smith, Cory, EMNRD <cory.smith@state.nm.us></cory.smith@state.nm.us>
Sent:	Monday, July 15, 2019 11:35 AM
To:	Kurt Hoekstra
Cc:	Clara Cardoza
Subject:	[EXTERNAL] RE: [EXT] Schwerdtfeger A # 3M

Kurt,

As discussed onsite OCD approves the alternative sampling for today's event.

Please include this approval in HEC Closure report.

Thank you.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Kurt Hoekstra <khoekstra@hilcorp.com> Sent: Monday, July 15, 2019 11:33 AM To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us> Cc: Clara Cardoza <ccardoza@hilcorp.com> Subject: [EXT] Schwerdtfeger A # 3M

Hello Cory, per our conversation on location today I took three confirmation samples; one composite of the base, one composite of the north and west walls, and one composite of the south and east walls.

Thank you

Kurt Hoekstra Field Environmental Specialist 505-486-9543 <u>khoekstra@hilcorp.com</u>

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June 05, 2019

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

RE: Schwerdtferger A 3M

OrderNo.: 1906006

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Clara Cardoza:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/1/2019 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1906006

Date Reported: 6/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY		Client S	Sample ID:	95 bbl	pit					
Project: Schwerdtferger A 3M	Collection Date: 5/31/2019 10:35:00 AM									
Lab ID: 1906006-001	Matrix: SOIL	Rece	6/1/20	19 8:30:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: TOM					
Diesel Range Organics (DRO)	210	9.7	mg/Kg	1	6/3/2019 10:55:37 AM					
Motor Oil Range Organics (MRO)	240	48	mg/Kg	1	6/3/2019 10:55:37 AM					
Surr: DNOP	111	70-130	%Rec	1	6/3/2019 10:55:37 AM					
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB					
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	6/3/2019 12:51:01 PM					
Surr: BFB	88.3	73.8-119	%Rec	1	6/3/2019 12:51:01 PM					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.020	mg/Kg	1	6/3/2019 12:51:01 PM					
Toluene	ND	0.039	mg/Kg	1	6/3/2019 12:51:01 PM					
Ethylbenzene	ND	0.039	mg/Kg	1	6/3/2019 12:51:01 PM					
Xylenes, Total	ND	0.078	mg/Kg	1	6/3/2019 12:51:01 PM					
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	6/3/2019 12:51:01 PM					
EPA METHOD 300.0: ANIONS					Analyst: MRA					
Chloride	ND	60	mg/Kg	20	6/3/2019 1:49:14 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 Н 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

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

Page 1 of 8

Analytical Report Lab Order 1906006

Date Reported: 6/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY		Client S	Sample ID:	21 bbl	pit					
Project: Schwerdtferger A 3M	Collection Date: 5/31/2019 10:50:00 AM									
Lab ID: 1906006-002	Matrix: SOIL	Rece	Received Date: 6/1/2019 8:30:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: TOM					
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	6/3/2019 11:39:37 AM					
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/3/2019 11:39:37 AM					
Surr: DNOP	106	70-130	%Rec	1	6/3/2019 11:39:37 AM					
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: NSB					
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	6/3/2019 1:14:41 PM					
Surr: BFB	91.8	73.8-119	%Rec	1	6/3/2019 1:14:41 PM					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.017	mg/Kg	1	6/3/2019 1:14:41 PM					
Toluene	ND	0.033	mg/Kg	1	6/3/2019 1:14:41 PM					
Ethylbenzene	ND	0.033	mg/Kg	1	6/3/2019 1:14:41 PM					
Xylenes, Total	ND	0.067	mg/Kg	1	6/3/2019 1:14:41 PM					
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/3/2019 1:14:41 PM					
EPA METHOD 300.0: ANIONS					Analyst: MRA					
Chloride	ND	60	mg/Kg	20	6/3/2019 2:26:42 PM					

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

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 2 of 8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1906006 05-Jun-19

Client:	HIL	CORP ENERGY	ſ								
Project:	Sch	werdtierger A 31	VI								
Sample ID:	MB-45328	SampT	/pe: m k	olk	Tes	tCode: El	s				
Client ID:	PBS	Batch	ID: 45	328	F	RunNo: 6	0349				
Prep Date:	6/3/2019	Analysis Da	ate: 6/	3/2019	S	SeqNo: 20	041072	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-45328	SampT	/pe: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 45	328	F	0349					
Prep Date:	6/3/2019	Analysis Da	ate: 6/	3/2019	S	SeqNo: 20	041073	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	90.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

Schwerdtferger A 3M

Sample ID: LCS-45319	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	Batch ID: 45319			RunNo: 60335					
Prep Date: 6/3/2019	Analysis D	Date: 6/	3/2019	S	SeqNo: 20	039825	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	63.9	124			
Surr: DNOP	4.4		5.000		87.0	70	130			
Sample ID: MB-45319	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	h ID: 45	319	F	RunNo: 6	0335				
Prep Date: 6/3/2019	Analysis Date: 6/3/2019			S	SeqNo: 20	039826	Units: mg/h	٢g		
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	9.4		10.00		93.5	70	130			
Sample ID: 1906001-001AMS	SampT	Гуре: М S	5	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BatchQC	Batch	h ID: 45	319	R	RunNo: 6	0335				
Prep Date: 6/3/2019	Analysis D	Date: 6/	3/2019	S	SeqNo: 20	040444	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.7	48.45	0	87.8	57	142			
Surr: DNOP	5.0		4.845		104	70	130			
Sample ID: 1906001-001AMS	D SampT	Гуре: М	D	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BatchQC	Batch	h ID: 45	319	R	RunNo: 6	0335				
Prep Date: 6/3/2019	Analysis D	Date: 6/	3/2019	S	SeqNo: 20	040605	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.10	0	99.7	57	142	16.0	20	

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

05-Jun-19

1906006

05-Jun-19

WO#:

Client: Project:	HILCORE	PENERGY Terger A 3M									
Sample ID:	1905E76-001AMS	SampTy)e: M\$	3	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID:	BatchQC	Batch I	D: 45	310	F	≀unNo: 6	0347				
Prep Date:	5/31/2019	Analysis Dat	.e: 6/	3/2019	ę	3eqNo: 2 /	041211	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		958.8		109	73.8	119			
Sample ID:	1905E76-001AMSE) SampTyr)e: M{	<u></u>	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	BatchQC	Batch I	D: 45	310	F	≀unNo: 6 ⁄	0347				
Prep Date:	5/31/2019	Analysis Dat	.e: 6/	3/2019	٤	3eqNo: 2 /	041212	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		973.7		105	73.8	119	0	0	
Sample ID:	1906003-007AMS	SampTyr)e: M{	<u></u>	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	BatchQC	Batch I	D: R6	0347	F	≀unNo: 6	0347				
Prep Date:		Analysis Dat	.e: 6/	/3/2019	٤	SeqNo: 2 [,]	041222	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	30	5.0	25.00	3.317	105	69.1	142			
Surr: BFB		1500		1000		145	73.8	119			S
Sample ID:	1906003-007AMSD	SampTyp	e: MS	SD	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID:	BatchQC	Batch I	D: R6	0347	F	≀unNo: 6 ⊄	0347				
Prep Date:		Analysis Dat	.e: 6/	3/2019	S	3eqNo: 2 (041223	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	29	5.0	25.00	3.317	101	69.1	142	3.72	20	
Surr: BFB		1400		1000		145	73.8	119	0	0	S
Sample ID:	2.5UG GRO LCS	SampTyp	e: LC	;s	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID:	LCSS	Batch I	D: R6	0347	귀	≀unNo: 6	0347				
Prep Date:		Analysis Dat	e: 6/	3/2019	S	3eqNo: 20	041224	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	24 1100	5.0	25.00 1000	0	96.2 106	80.1 73.8	123 119			
							10.0				
Sample ID:	LCS-45303	SampTyp	e: LC	;S	Test	tCode: EF	PA Method	8015D: Gasol	line Range	e	
Client ID:	LCSS	Batch I	D: 45'	303	F	(unNo: 6/	0347				

Analyte	
Surr: BFB	

Prep Date: 5/31/2019

Qualifiers:

Н

ND

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

Not Detected at the Reporting Limit

В Analyte detected in the associated Method Blank Е

SPK value SPK Ref Val

1000

Value above quantitation range

Analyte detected below quantitation limits J

SeqNo: 2041225

LowLimit

73.8

%REC

109

Units: %Rec

HighLimit

119

%RPD

Р Sample pH Not In Range

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Holding times for preparation or analysis exceeded

Analysis Date: 6/3/2019

PQL

Result

1100

Page 5 of 8

RPDLimit

Qual

RL Reporting Limit

Page 24 of 38

Client:HILCOProject:Schweit	ORP ENERG rdtferger A 31	Y M								
Sample ID: MB-45303 Client ID: PBS	SampT Batch	ype: ME ID: 45	3LK 303	Tes	tCode: E RunNo: 6	PA Method 0347	8015D: Gasc	oline Rang	le	
Prep Date: 5/31/2019	Analysis D	ate: 6/	3/2019	S	SeqNo: 2	041226	Units: %Re	с		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		98.8	73.8	119			
Sample ID: RB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	le	
Client ID: PBS	Batch	ID: R6	0347	F	RunNo: 6	0347				
Prep Date:	Analysis D	ate: 6/	3/2019	5	SeqNo: 2	041227	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.7	73.8	119			

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: **1906006**

05-Jun-19

Client:	HILCOR	P ENERG	Y								
Project:	Schwerdt	terger A 3	M								
Sample ID:	100NG BTEX LCS	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: B6	0347	F	RunNo: 6	0347				
Prep Date:		Analysis [Date: 6/	3/2019	S	SeqNo: 20	041231	Units: mg/#	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	91.6	80	120			
Toluene		0.94	0.050	1.000	0	94.1	80	120			
Ethylbenzene		0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total		2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bron	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID:	1905E76-003AMS	Samp	Гуре: М	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	BatchQC	Batc	h ID: 45	310	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis I	Date: 6/	3/2019	S	SeqNo: 20	041235	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.0		0.9852		106	80	120			
Sample ID:	1905E76-003AMSI	D Samp	Гуре: М\$	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	BatchQC	Batc	h ID: 45	310	F	RunNo: 6	0347				
Prep Date:	5/31/2019	Analysis [Date: 6/	3/2019	S	SeqNo: 2	041236	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.0		0.9434		110	80	120	0	0	
Sample ID:	1906003-008AMS	Samp	Гуре: М\$	6	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	BatchQC	Batc	h ID: B6	0347	F	RunNo: 6	0347				
Prep Date:		Analysis [Date: 6/	3/2019	S	SeqNo: 20	041244	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	1.000	0	93.0	63.9	127			
Toluene		0.96	0.050	1.000	0	96.2	69.9	131			
Ethylbenzene		0.98	0.050	1.000	0	98.2	71	132			
Xylenes, Total		3.0	0.10	3.000	0	100	71.8	131			
Surr: 4-Bron	nofluorobenzene	1.1		1.000		108	80	120			
Sample ID:	1906003-008AMSE	Samp	Гуре: М\$	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	BatchQC	Batc	h ID: B6	0347	F	RunNo: 6	0347				
Prep Date:		Analysis [Date: 6/	3/2019	S	SeqNo: 2	041245	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	1.000	0	92.7	63.9	127	0.269	20	
Toluene		0.96	0.050	1.000	0	96.4	69.9	131	0.291	20	
Ethylbenzene		0.98	0.050	1.000	0	97.6	71	132	0.664	20	
Xylenes, Total		3.0	0.10	3.000	0	98.7	71.8	131	1.57	20	

Qualifiers:

ND

S

* Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

E Value above quantitation range

J Analyte detected below quantitation limits

Analyte detected in the associated Method Blank

- P Sample pH Not In Range
- RL Reporting Limit

В

Page 7 of 8

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

1.0

1.000

HILCORP ENERGY

Project:	Schwerdtf	erger A 31	М								
Sample ID:	1906003-008AMSD	SampT	ype: M	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	BatchQC	Batch	ID: B	60347	F	unNo: 6	0347				
Prep Date:		Analysis D	ate: 6/	/3/2019	S	eqNo: 2	041245	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		106	80	120	0	0	
Sample ID:	LCS-45303	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batch	ID: 45	303	R	unNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	ate: 6/	/3/2019	S	eqNo: 2	041246	Units: %Re	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		108	80	120			
Sample ID:	MB-45303	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batch	ID: 45	303	F	unNo: 6	0347				
Prep Date:	5/31/2019	Analysis D	ate: 6/	/3/2019	S	eqNo: 2	041247	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		110	80	120			
Sample ID:	RB	SampT	ype: M I	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batch	ID: BE	60347	F	unNo: 6	0347				
Prep Date:		Analysis D	ate: 6	/3/2019	S	eqNo: 2	041248	Units: mg/k	۲g		
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								

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

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

105

80

120

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

1906006

05-Jun-19

WO#:

Received by OCD: 12/4/2019 3:49:10 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397 Website: www.ha	l Analysis La 4901 Hav uquerque, N 5 FAX: 505-3 allenvironme	boratory vkins NE M 87109 Sar M45-4107 ntal.com	Sample Log-In Check List				
Client Name: HILCORP ENERGY FAR	Work Order Number	1906006	2	RcptNo:	1			
Received By: Desiree Dominguez	6/1/2019 8:30:00 AM		TAS					
Completed By: Desiree Dominguez	6/1/2019 10:08:46 AM	r.	TA					
Reviewed By: YC 41114			11-3					
Chain of Custody								
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present				
2. How was the sample delivered?		<u>Courier</u>						
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗌				
4. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes 🗸	No 🗌					
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌					
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌					
7_{\cdot} Are samples (except VOA and ONG) properly	preserved?	Yes 🖌	No 🗌					
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌				
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹				
10. Were any sample containers received broken	?	Yes	No 🗹	# of preserved	/			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or	>12 unless noted)			
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🗸	No 🗌	Adjusted?				
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌					
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: D	AD \$/1/19			
Special Handling (if applicable)								
15. Was client notified of all discrepancies with the	is order?	Yes	No 🗌	NA 🗹				
Person Notified:	Date:							
By Whom:	Via:	eMail	Phone E Fax	In Person				
Regarding:								
16. Additional remarks:								
17. Cooler Information								
Cooler No Temp °C Condition Sea	al Intact Seal No S	eal Date	Signed By					
1 2.3 Good Not I	Present							

Page 1 of 1

	HALL ENVIRONMENTAL	www.hallenvironmental.com	ins NE - Albuquerque, NM 87109	45-3975 Fax 505-345-4107	Analysis Request															ATTN: Clara Cardoza intracted data will be clearly notated on the analytical report.	
			901 Haw	-el. 505-3						2	XƏT	82608 8	×	×						<pre>cs: Billing</pre>	
			4					C	рям	/0Y	ອ/O ຮອpi	300 Chlor 8015 DR	××	××		 				Remark s possibility	
	Same dav									No	2-0 2:23	HEAL No.	- 001	- 002						$\left(\begin{array}{c} Date Time \\ 3\left(1/3\right) \\ Date Time \\ Date Time \\ \mu/1/19 \\ S^2_{30} \end{array}\right)$	
d Time:	rd X Rush	ne:	rger A 3M			lager:	ç Dza		B Salazar	X Yes	D(including CF): 2	Preservativ e Type	None	None	 1					Nia: Via: Courier accredited laboratories	
Turn-Aroun	□ Standar	Project Nan	Schwerdtfe	Project #:		Project Mar	Clara Cardo		Sampler:	On Ice:	# of Cooler Tem	Container Type and #	4oz - 1	4 oz - 1						Received by: Received by:	
tody Record			382 CR 3100	Aztec NM 87410	0733	a@hilcorp.com		Level 4 (Full Validation)	mpliance			Sample Name	95 bbl pit	21 bbl pit						d by: d by:	
-Cusi	srgy				505.564.	ccardoza			□ Az Co			Matrix	soil	soil						Relinquishe	>
hain-of	Hilcorp Ene		dress:			×#:	kage:	9	inc :nc	100		Time	10:35 a.m.	10:50 a.m.						Time: F 304,PM ITime: F IS20	
U	Client:		Mailing Add		Phone #:	email or Fa	QA/QC Pack	□ Standar	Accreditatic			Date	5/31/2019	5/31/2019						SI31/19 Date: 5/31/19	

July 16, 2019

Clara Cardoza Hilcorp Energy PO Box PO Box 4700 Farmington, NM 84701 TEL: FAX

RE: SCHWERDTFEGER A 3M

OrderNo.: 1907593

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Clara Cardoza:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/12/2019 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Hilcorp Energy

Project:

Analytical Report Lab Order 1907593 Date Reported: 7/16/2019

Hall Environmental Analysis Laboratory, Inc.

SCHWERDTFEGER A 3M

Client Sample ID: N 1/3 BASE Collection Date: 7/11/2019 10:12:00 AM Received Date: 7/12/2019 8:05:00 AM

Lab ID: 1907593-001	Matrix: SOIL	R	eceived Date:	7/12/2	2019 8:05:00 AM
Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	21	9.8	mg/Kg	1	7/12/2019 9:57:01 AM
Motor Oil Range Organics (MRO)	50	49	mg/Kg	1	7/12/2019 9:57:01 AM
Surr: DNOP	99.2	70-130	%Rec	1	7/12/2019 9:57:01 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	7/12/2019 10:46:37 AM
Surr: BFB	89.5	73.8-119	%Rec	5	7/12/2019 10:46:37 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.36	mg/Kg	5	7/12/2019 10:46:37 AM
Benzene	ND	0.089	mg/Kg	5	7/12/2019 10:46:37 AM
Toluene	ND	0.18	mg/Kg	5	7/12/2019 10:46:37 AM
Ethylbenzene	ND	0.18	mg/Kg	5	7/12/2019 10:46:37 AM
Xylenes, Total	ND	0.36	mg/Kg	5	7/12/2019 10:46:37 AM
Surr: 4-Bromofluorobenzene	91.5	80-120	%Rec	5	7/12/2019 10:46:37 AM
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	ND	60	mg/Kg	20	7/12/2019 11:46:39 AM

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

Oualifiers:

*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D Holding times for preparation or analysis exceeded
- Н ND
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 7

CLIENT: Hilcorp Energy

1907593-002

Project:

Lab ID:

Analytical Report Lab Order 1907593 Date Reported: 7/16/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: M 1/3 BASE SCHWERDTFEGER A 3M Collection Date: 7/11/2019 10:15:00 AM Matrix: SOIL Received Date: 7/12/2019 8:05:00 AM р -14 рт Onel Unit DE Data Analy . . .

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/12/2019 10:19:05 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/12/2019 10:19:05 AM
Surr: DNOP	105	70-130	%Rec	1	7/12/2019 10:19:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	19	mg/Kg	5	7/12/2019 11:10:02 AM
Surr: BFB	94.5	73.8-119	%Rec	5	7/12/2019 11:10:02 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.38	mg/Kg	5	7/12/2019 11:10:02 AM
Benzene	ND	0.094	mg/Kg	5	7/12/2019 11:10:02 AM
Toluene	ND	0.19	mg/Kg	5	7/12/2019 11:10:02 AM
Ethylbenzene	ND	0.19	mg/Kg	5	7/12/2019 11:10:02 AM
Xylenes, Total	ND	0.38	mg/Kg	5	7/12/2019 11:10:02 AM
Surr: 4-Bromofluorobenzene	96.7	80-120	%Rec	5	7/12/2019 11:10:02 AM
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	ND	60	mg/Kg	20	7/12/2019 11:59:03 AM

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

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D Н Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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- J Analyte detected below quantitation limits
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Page 2 of 7

Toluene

Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 1907593

Date Reported: 7/16/2019

7/12/2019 11:33:28 AM

7/12/2019 11:33:28 AM

7/12/2019 11:33:28 AM

7/12/2019 11:33:28 AM

7/12/2019 12:11:28 PM

Analyst: smb

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Hilcorp EnergyProject:SCHWERDTFEGER A 3MLab ID:1907593-003	Matrix: SOIL	Client S Colleo Rece	Sample ID: ction Date: ived Date:	S 1/3 1 7/11/2 7/12/2	BASE 019 10:20:00 AM 019 8:05:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/12/2019 10:41:10 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/12/2019 10:41:10 AM
Surr: DNOP	102	70-130	%Rec	1	7/12/2019 10:41:10 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	20	mg/Kg	5	7/12/2019 11:33:28 AM
Surr: BFB	94.7	73.8-119	%Rec	5	7/12/2019 11:33:28 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.40	mg/Kg	5	7/12/2019 11:33:28 AM
Benzene	ND	0.10	mg/Kg	5	7/12/2019 11:33:28 AM

ND

ND

ND

97.0

ND

0.20

0.20

0.40

60

80-120

5

5

5

5

20

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

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

Qualifiers:

*

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- PQL Practical Quanitative Limit
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- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: **1907593** *16-Jul-19*

Client:Hilcorp EnergyProject:SCHWERDTFEGER A 3M

Sample ID: MB-46150	SampType: mblk	TestCode: EPA Metho	d 300.0: Anions	
Client ID: PBS	Batch ID: 46150	RunNo: 61355		
Prep Date: 7/12/2019	Analysis Date: 7/12/2019	SeqNo: 2080349	Units: mg/Kg	
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-46150	SampType: Ics	TestCode: EPA Metho	d 300.0: Anions	
Client ID: LCSS	Batch ID: 46150	RunNo: 61355		
Prep Date: 7/12/2019	Analysis Date: 7/12/2019	SeqNo: 2080350	Units: mg/Kg	
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD	RPDLimit Qual
, maryte			-	

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

Client:

Hilcorp Energy **Project:** SCHWERDTFEGER A 3M

Sample ID: LCS-46149	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 46 ′	149	F	RunNo: 6	1332				
Prep Date: 7/12/2019	Analysis D	ate: 7/	12/2019	S	SeqNo: 2	079460	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	63.9	124			
Surr: DNOP	4.4		5.000		87.7	70	130			
Sample ID: MB-46149	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Sample ID: MB-46149 Client ID: PBS	SampT Batch	ype: ME n ID: 46	3LK 149	Tes F	tCode: El RunNo: 6	PA Method 1332	8015M/D: Di	esel Rango	e Organics	
Sample ID: MB-46149 Client ID: PBS Prep Date: 7/12/2019	SampT Batch Analysis D	ype: ME n ID: 46 Date: 7/	BLK 149 12/2019	Tes F S	tCode: El RunNo: 6 SeqNo: 2	PA Method 1332 079461	8015M/D: Di Units: mg/F	esel Rango (g	e Organics	
Sample ID: MB-46149 Client ID: PBS Prep Date: 7/12/2019 Analyte	SampT Batch Analysis D Result	ype: ME n ID: 46 Date: 7/ PQL	BLK 149 12/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 6 SeqNo: 2 %REC	PA Method 1332 079461 LowLimit	8015M/D: Di Units: mg/K HighLimit	esel Rango (g %RPD	e Organics RPDLimit	Qual
Sample ID: MB-46149 Client ID: PBS Prep Date: 7/12/2019 Analyte Diesel Range Organics (DRO)	SampT Batch Analysis D Result ND	ype: ME n ID: 46 Date: 7/ PQL 10	BLK 149 12/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 6 SeqNo: 2 %REC	PA Method 1332 079461 LowLimit	8015M/D: Di Units: mg/F HighLimit	esel Rango (g %RPD	e Organics RPDLimit	Qual
Sample ID: MB-46149 Client ID: PBS Prep Date: 7/12/2019 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	SampT Batch Analysis D Result ND ND	ype: ME n ID: 46 Date: 7/ PQL 10 50	BLK 149 12/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 6 SeqNo: 2 %REC	PA Method 1332 079461 LowLimit	8015M/D: Di Units: mg/F HighLimit	esel Rango (g %RPD	e Organics	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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1100

WO#:	1907593
	16-Jul-19

Client:Hilcorp IProject:SCHWE	Energy RDTFEGE	ER A 3N	И							
Sample ID: RB	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gasc	oline Rang	e	
Client ID: PBS	Batch	n ID: Ge	61346	F	tunNo: 6	1346				
Prep Date:	Analysis D	ate: 7/	12/2019	S	eqNo: 2	079994	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.9	73.8	119			
Sample ID: 2.5UG GRO LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	n ID: Ge	61346	F	unNo: 6	1346				
Prep Date:	Analysis D	ate: 7/	12/2019	S	eqNo: 2	079995	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.4	80.1	123			

105

73.8

119

1000

Qualifiers:

Surr: BFB

- * Value exceeds Maximum Contaminant Level.
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- PQL Practical Quanitative Limit
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- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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1	907593
16-	Jul-19

Client:Hilcorp EnergyProject:SCHWERDTFEGER A 3M

-														
Sample ID: RB	SampT	уре: МЕ	BLK	Tes	tCode: El									
Client ID: PBS	Batcl	h ID: B6	1346	F	RunNo: 6	1346								
Prep Date:	Analysis D	Date: 7/	12/2019	S	SeqNo: 2	080006	Units: mg/k	٢g						
Analyte	Result PQL		SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Methyl tert-butyl ether (MTBE)	ND	0.10												
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120							
Sample ID: 100NG BTEX LCS	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batcl	h ID: B6	1346	F	RunNo: 6	1346								
Prep Date:	Analysis D	Date: 7/	12/2019	S	SeqNo: 2	080007	Units: mg/k	٤g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Methyl tert-butyl ether (MTBE)	0.81	0.10	1.000	0	80.5	80	120							
Benzene	0.92	0.025	1.000	0	91.9	80	120							
Toluene	0.95	0.050	1.000	0	95.2	80	120							
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120							
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120							
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	80	120							

Qualifiers:

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- 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

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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Page 7 of 7

ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.halle	nalys 490 uerqi AX: envir	ris Laboratory 1 Hawkins NE 2005-345-4107 2005-345-4107 2007 2007 2007 2007 2007 2007 2007 20	Sample Log-In Check Lis						
Client Name: HILCORP ENERGY	Work Order Number:	1907	593		RcptNo: 1					
Received By: Desiree Dominguez 7	/12/2019 8:05:00 AM		T	P2						
Completed By: Anne Thorne 7/	/12/2019 8:36:18 AM			In A.						
Reviewed By: DAD 7/12/14				,, u _y, u	-					
Chain of Custody										
1. Is Chain of Custody complete?	Y	res		No 🗌	Not Present					
2. How was the sample delivered?	<u>(</u>	Couri	er							
Log In 3. Was an attempt made to cool the samples?	Y	'es	1 💟	io 🗌	NA 🗔					
4. Were all samples received at a temperature of	>0° C to 6.0°C Y	'es		10 🗌	NA 🗔					
5. Sample(s) in proper container(s)?	Ŷ	'es		10 🗆						
6. Sufficient sample volume for indicated test(s)?	Y	es (✓ N	o 🗌						
7. Are samples (except VOA and ONG) properly pro	eserved? Ye	es	V N	o 🗌						
8. Was preservative added to bottles?	Y	es [N	o 🖌	NA 🗌					
9. VOA vials have zero headspace?	Ye	es [o 🗌	No VOA Vials 🗹					
10. Were any sample containers received broken?	Y	es [- N	lo 🗹 🛛						
11. Does paperwork match bottle labels?	Ye	es [v N	o 🗆	# of preserved bottles checked for pH:					
12. Are matrices correctly identified on Chain of Cust	tody? Ye	es 🛛	Z N	•	Adjusted?					
13. Is it clear what analyses were requested?	Ye	es I	Z N	• 🗆						
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Ye	es l	✓ N	•	Checked by:					
Special Handling (if applicable)										
15. Was client notified of all discrepancies with this of	order? Y	es		lo 🗌	NA 🔽					
Person Notified:	Date									
By Whom:	Via: 🗌 e	eMai	I 🗌 Phone [Fax	In Person					
Regarding:					· · · · · · · · · · · · · · · · · · ·					
Client Instructions:	······································			··········						
16. Additional remarks: 17. <u>Cooler Information</u> Cooler No. Temp C. Coodition - South	that Chainia com	- -								
1 15 Good Yes	naut ocal INU Seal	Dat	e Signei	а БУ						

Page 37 of 38

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