

April 22, 2024

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

Re: Remediation Report and Closure Request Hamner 7 San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: NAPP2402418125

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Report and Closure Request* associated with a historical release discovered at the former Hamner 7 natural gas production well site (Site). The Site is located on private land in Unit D, Section 29, Township 29 North, Range 9 West in San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

While conducting activities to plug and abandon the Hamner 7 natural gas production well, remove associated equipment, and reclaim the well pad, Hilcorp personnel discovered visibly impacted soil around the former drip line, most likely resulting from corrosion of the pipe. Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) and submitted an initial Form C-141 Notification of Release on January 24, 2024. NMOCD assigned the release incident number NAPP2402418125.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC).

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

The closest significant watercourse is an unnamed dry wash located approximately 442 feet south of the Site. There are no known springs or fresh-water wells located within 500 feet of the Site. The nearest groundwater well (SJ-03864-POD3) is located approximately 5,500 feet north of the Site. Depth to water information from this well indicates groundwater is approximately 7 feet below ground surface (bgs) at

Hilcorp Energy Company Remediation Report and Closure Request Hamner 7

the location of the water well. Well SJ-03864-POD3 (well log attached as Appendix A) is located directly adjacent to Largo Canyon at an elevation of approximately 5,559 feet above mean sea level (AMSL), which is approximately 148 feet lower in elevation than the Site (Site elevation 5,707 AMSL). Based on the elevation difference between the Site and depth to water in well SJ-03864-POD3, depth to water at the Site is assumed to be greater than 100 feet bgs. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland. Surface land use surrounding the Site consists primarily of oil and gas development and livestock grazing. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. Sensitive receptors near the Site are depicted on Figure 1.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- GRO+DRO: 1,000 mg/kg
- Chloride: 20,000 mg/kg

Additionally, because the Site is being reclaimed, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of soil that was impacted by the release per 19.15.29.13.D (1) NMAC.

EXCAVATION SOIL SAMPLING ACTIVITIES

Based on the presence of potentially impacted soil and the unknown origin of the release, Hilcorp conducted pothole and field screening delineation activities at the Site in December 2023 to assess the lateral and vertical extents of impacts. A total of 14 potholes (PH01 through PH14) were advanced via backhoe in and around the stained soil. Soil samples from potholes PH01, PH02, PH03, PH07, PH09, PH10, PH11, PH13, and PH14 were collected and submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for laboratory analysis of TPH following Environmental Protection Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0. Pothole sample locations are presented on Figure 2, with laboratory analytical data summarized in Table 1. Complete laboratory analytical reports are attached as Appendix B.

On March 25 and 26, 2024, Ensolum personnel conducted excavation oversight and sampling activities at the Site. Notification to NMOCD was provided at least two business days prior to conducting remediation and sampling work, with correspondence attached in Appendix C. To direct activities during excavation, Ensolum personnel field screened soil for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). Once field screening indicated impacted soil had been removed, five-point composite soil samples were collected from the floor (FS01 through FS08) and sidewalls (WS01 through WS07 and WS05A/WS06A) of the excavation at a frequency of one sample per 200 square feet. Sidewall samples WS01 through WS07 were collected in areas of the excavation that extended to depths up to 7 feet bgs and were collected between 4 feet and 7 feet bgs. Confirmation sample locations are presented on Figure 3. The five-point composite samples were collected by placing



Hilcorp Energy Company Remediation Report and Closure Request Hamner 7

five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were collected into laboratory provided jars and transported under proper chain of custody procedures to Eurofins and analyzed for TPH, BTEX, and chloride following the methods described above.

SOIL SAMPLE RESULTS

Analytical results from the excavation indicated concentrations of all COCs were compliant with NMOCD Table I Closure Criteria and the reclamation requirement (where applicable) in all confirmation samples. In total, 858 cubic yards of impacted soil was removed and transported to the Envirotech, Inc. landfarm located in San Juan County, New Mexico. Soil sample results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix B. Photographs taken by Ensolum during the delineation and excavation work are included in Appendix D.

CLOSURE REQUEST

Site excavation and sampling activities were conducted at the Site to address the historical release discovered during well pad reclamation activities. Laboratory analytical results for the excavation confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and no further remediation is required. Excavation of impacted soil has mitigated impacts at this Site and these remedial actions have been protective of human health, the environment, and groundwater. As such, Hilcorp respectfully requests closure for Incident Number NAPP2402418125.

REFERENCES

Stone, W.; Lyford, F.; Frenzel, P.; Mizell, N.; and Padgett, E. (1983). *Hydrogeology and Water Resources of San Juan Basin, New Mexico.* Socorro: New Mexico Bureau of Mines and Mineral Resources.

We appreciate the opportunity to provide this document to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely, Ensolum, LLC

Stuart Hyde, PG (licensed in WA & TX) Senior Managing Geologist (970) 903-1607 shyde@ensolum.com

Attachments:

Figure 1: Figure 2: Figure 3:	Site Receptor Map Delineation Soil Sample Locations Excavation Soil Sample Locations
Table 1:	Soil Sample Analytical Results NMOSE Well Logs
Appendix A: Appendix B: Appendix C:	Laboratory Analytical Reports Agency Correspondence
Appendix D:	Project Photographs

Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com





FIGURES

Released to Imaging: 5/15/2024 2:21:06 PM

Received by OCD: 4/23/2024 12:00:16 AM









TABLES

Released to Imaging: 5/15/2024 2:21:06 PM

🖻 ENSOLUM

						TABLE	1						
					SOIL SAM	PLE ANALY	FICAL RESULT	s					
						Hamner							
					Hil	corp Energy (
						Juan County, I							
			_										
Sample ID	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria	for Soils Impacte	ed by a Release	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
					DEL	INEATION SOIL	SAMPLES	-	-				
PH01@9	12/13/2023	9	<0.024	< 0.048	0.050	< 0.096	0.050	17	19	<48	36	36	66
PH02@5	12/13/2023	5	<0.024	< 0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<9.6	<48	83
PH03@5	12/13/2023	5	<0.023	< 0.047	< 0.047	< 0.094	<0.094	<4.7	<9.6	<48	<9.6	<48	<60
PH07@4	12/13/2023	4	<0.024	<0.048	<0.048	< 0.097	<0.097	<4.8	<9.5	<47	<9.5	<47	<60
PH09@5	12/28/2023	5	< 0.024	< 0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<9.5	<48	<61
PH10@5	12/28/2023	5	0.22	0.56	2.8	7.7	11	1,400	560	<48	1,960	1,960	<60
PH10@7	12/28/2023	7	< 0.024	<0.048	<0.048	< 0.096	< 0.096	<4.8	9.8	<49	9.8	9.8	<60
PH11@5.5	12/28/2023	5.5	< 0.024	< 0.047	<0.047	< 0.095	<0.095	<4.7	11	<46	11	11	<60
PH13@4	12/28/2023	4	< 0.024	< 0.048	<0.048	< 0.095	< 0.095	<4.8	<10	<50	<10	<50	<60
PH14@5	12/28/2023	5	< 0.023	< 0.046	< 0.046	< 0.092	<0.092	<4.6	<8.8	<44	<8.8	<44	<60
					EXCA	VATION FLOO	R SAMPLES						
FS01	3/26/2024	7	< 0.024	<0.048	0.36	0.44	0.80	110	34	<45	144	144	66
FS02	3/26/2024	5-7	< 0.025	<0.49	0.19	0.18	0.37	56	28	<44	84	84	56
FS03	3/26/2024	5-7	< 0.024	< 0.047	<0.047	< 0.095	<0.095	<4.7	<9.0	<45	<9.0	<45	<60
FS04	3/26/2024	5	< 0.025	< 0.049	<0.049	<0.098	<0.098	<4.9	11	<44	11	11	<60
FS05	3/26/2024	5	< 0.024	<0.048	<0.048	< 0.097	< 0.097	<4.8	<9.4	<47	<9.4	<47	<60
FS06	3/26/2024	4	< 0.025	< 0.049	< 0.049	< 0.098	<0.098	11	<9.9	<49	11	11	<60
FS07	3/26/2024	5	<0.023	< 0.046	<0.046	< 0.093	<0.093	5.3	<9.0	<45	5.3	5.3	<60
FS08	3/26/2024	4	<0.024	< 0.048	<0.048	< 0.096	<0.096	<4.8	<9.6	<48	<9.6	<48	<60
					EXCAV	ATION SIDEWA	LL SAMPLES						
WS01	3/26/2024	0-4	< 0.024	< 0.049	<0.049	< 0.097	<0.097	<4.9	<9.1	<45	<9.1	<45	<60
WS02	3/26/2024	0-5	<0.025	<0.050	<0.050	< 0.099	<0.099	<5.0	<9.8	<49	<9.8	<49	<60
WS03	3/26/2024	0-5	<0.025	< 0.049	<0.049	< 0.099	<0.099	<4.9	<9.2	<46	<9.2	<46	<60
WS04	3/26/2024	0-5	< 0.024	< 0.047	<0.047	< 0.095	<0.095	<4.7	<9.3	<47	<9.3	<47	<60
WS05	3/26/2024	0-4	< 0.025	< 0.050	< 0.050	< 0.099	<0.099	<5.0	<9.6	<48	<9.6	<48	<60
WS05A	3/26/2024	4-7	<0.024	< 0.049	<0.049	<0.098	<0.098	18	38	<49	56	56	72
WS06	3/26/2024	0-4	< 0.023	< 0.047	<0.047	< 0.094	<0.094	<4.7	<9.5	<48	<9.5	<48	<60
WS06A	3/26/2024	4-7	< 0.024	< 0.048	<0.048	< 0.097	<0.097	17	27	<46	44	44	82
WS07	3/26/2024	0-4	< 0.024	< 0.049	< 0.049	< 0.098	<0.098	<4.9	<9.3	<46	<9.3	<46	<60

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

': feet

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in bold and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release

Released to Imaging: 5/15/2024 2:21:06 PM



APPENDIX A

NMOSE Well Logs



WELL RECORD & LOG

STATE ENGINEER OFFICE AZTEC, NEW MEXICO

OFFICE OF THE STATE ENGINEER

2009 MAR 25 PM 4: 16

..

www.ose.state.nm.us

	POD NUM			-					OSE FILE NU	MBER(S) Explor Pod 3			
GENERAL AND WELL LOCATION				paso 1-A si					PHONE (OPTI	<u> </u>			
- V	WELL OWN								505-326-9	-			
, ĽO	WELL OW		-	ADDRESS					CITY		STATE		ZIP
ЕЦ	3401 E			ADDRESS					Farmingto	n	NM	8	7401
M					····								
INV	WELI	1			DEGREES	MINUTES	SECOND			REQUIRED: ONE TEN	TU OF 4 66		
AL	LOCATI		LAT	TTUDE	36	42		32 N	, I	QUIRED: WGS 84	OF A SEA	LOND	
NEH	(FROM C		_	IGITUDE	107	48		94 W					
GE					ON TO STREET ADDRE	S\$ AND COMMON L	LANDMAF	LKS .					
-	SW con	ner of	Lar	go canyon	rd and hwy 64								
	(2.5 ACI	RE)		(10 ACRE)	(40 ACRE)	(160 ACRE)		ECTION		TOWNSHIP	_	RANGE	·
د	NW :	,	N	. ,	NW 1/4	1/4			20	29		09	BAST
N.	SUBDIVISI			- /4		/4		OT NUM		BLOCK NUMBER	от во стан	UNIT/TRA	
OPTIONAL							· ·						
. OI	HYDROGR	APHIC S	URVE	EY			I.			MAP NUMBER		TRACT NU	IMBER
												[
	LICENSE N	UMBER	·	NAME OF LICI	ENSED DRILLER	······································				NAME OF WELL DE	ULLING COM	APANY	
	WD	1210		Matthew C	ain					WDC Explora	tion & W	ells	
	WD1210 Matthew Cain WDC Exploration & Wells DRILLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT)												
Z	03/03	3/2009	9	03/03/20	09	18.0			18.5	Water n	ot show	n in sam	ples
TIO				·	······					STATIC WATER LE	VEL IN COM	PLETED WEI	.L (FT)
DRILLING INFORMATION	COMPLET	ED WELI	L I\$:	ARTESIAN	DRY HOLE	SHALLOW	(UNCONF	INED)			7.0		
VFO	DRILLING	FLUID:		AIR		ADDITIVES	S – SPECIF	'Y ;					
IC B	DRILLING	метно	D:			CABLE TO	OL [🗸 отне	R - SPECIFY:	HSA			
TIN	DEPT	H (FT)		BORE HOL	E (CASING		CONI	NECTION	INSIDE DIA.	CASING	G WALL	SLOT
DRII	FROM	то	,	DIA. (IN)	M	ATERIAL		TYPE	(CASING)	CASING (IN)	THICKN	IESS (IN)	SIZE (IN)
З. Г	3.0	18.	0	8"		PVC		Thi	readed	2"	sc	h40	0.010
	0	3.0)		P	VC Riser		•	•	#	<u> </u>	•	
											ļ		
											<u> </u>		
	DEPT	H (FT)		THICKNES	S F					ATER-BEARING S			YIELD
VTA	FROM	то)	(FT)						R FRACTURE ZON	ES)		(GPM)
TR	7.0	9.0)	2.0			Silty zo	ne ato	p of the shal	e layer			
ś C S				•									
RIN													
BEA										·			
ER													
WATER BEARING STRATA	METHOD L	JSED TO	ESTI	MATE YIELD OF	WATER-BEARING STR/	ата ———————————————————————————————————				TOTAL ESTIMATED	WELL YIEL	.D (GPM)	
4													
						·						·····	
	FOR OSE	E INTER	RNAI	L USE					-	WELL RECO	RD & LOG	(Version 6	9/08)

FOR OSE INTERNAL USE		WELL RECORD & L	OG (Version 6/9/08)
FILE NUMBER SJ-3804	POD NUMBER 3	TRN NUMBER 4/	27832
LOCATION 29N.09W.20.1	21	1729999	PAGE 1 OF 2

	TYPE O	F PUMP:			JET CYLINDER	NO PUMP - WELL NOT EQUIPPED	·· ·			
SEAL AND PUMP			DEPTH		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH		
T		ULAR , AND	3.0	18.0	8"	10/20 sand		Tremie		
S. SE	GRAVE	L PACK	0	3.0		3/8 benntonite chips		Tre	mie	
	DEPTH (FT) THICKNESS COLOR AND TYPE OF MATERIAL ENCOUNTERED								 Fer	
	FROM	то	(F1	Г)	(INCL)	JDE WATER-BEARING CAVITIES OR FRACTU	JRE ZONES)	BEAR	ING?	
	0	5	5			Silty sands		☐ YES	🛛 NO	
	5	10	5			Sandy		☐ YES	NO 🖸	
	10	15	5			Dark blusish shale sandy hard		🖉 YES		
	15 18.5 3.5 Hard Shale								ОИ 🖸	
			🗖 YES	ОИ 🔲						
WEI	_		YES	0 א						
OF	_							TYES	0א 🗖	
00							, <u></u>	VES		
				:				VES	0א 🗆	
ГОС								VES	0 סא	
GEOLOGIC LOG OF WELL		-						T YES	0א 🛛	
6	····	· · ·		· · · · · · · · · · · · · · · · · · ·				T YES		
								☐ YES		
								VES		
								YES		
		:				· · · · · · · · · · · · · · · · · · ·		U YES		
								YES		
_			ATTACH	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL			
_			METHOD:	BAILE	R D PUMP	AIR LIFT OTHER – SPECIFY:				
INFO	WELL	TEST	TEST RESUL	LTS - ATTA	CH A COPY OF D	ATA COLLECTED DURING WELL TESTING, II AND DRAWDOWN OVER THE TESTING PERIO	NCLUDING START TI D	ME, END TI	ME,	
ONA	ADDITION	AL STATEM	ENTS OR EXPL	ANATIONS:						
& ADDITIONA	All wells	s set with	n 3x3' pad a	and 4" ab	ove ground loo	cking well monument				
ADI										
T &								2		
7. TEST								600	- SI	
7.								2009 MA		
	THE UN	DERSIGN	ED HEREBY C	ERTIFIES T	HAT, TO THE BE	ST OF HIS OR HER KNOWLEDGE AND BELIEI	, THE FOREGOING I	SATENDEAD	NDZ	
URE	CORREC	T RECOR	D OF THE AB	OVE DESCR	LIBED HOLE AND) THAT HE OR SHE WILL FILE THIS WELL RE ON OF WELL DRILLING:	CORD WITH THE STA	TE ENGINE	ERAND	
VAT							۰.	hd	ER N	
SIGNATURE	Ċ	1 7	1 pl			3/23/09			<u> 성</u> 유	
80		- //	SIGNATUR	E OF DRILL	.ER	DATE			오팔	

FOR OSE INTERNAL USE		WELL RECORD & LOC	(Version 6/9/08)
FILE NUMBER SJ- 3864	POD NUMBER 3	TRN NUMBER	
LOCATION 29N.09W.20.121		·	PAGE 2 OF 2

Page 13 of	Lithology Record	B Paso 1-	- <u>A, (oP</u>					·	STATE ENGINEER OFF AZTEC, NEW MEXICO	ICE D
	Borehole:	MW-4		Method	<u>usa</u>				2009 MAR 25 PM 4:	
тан Р. 006	Geologist:		A Mareno						ου τη	16
۲ <u>۲</u>	Date:	3/3/09				• • • •				
ORA	Driller:	Malt Car	<u>y. WOC</u>				<u> </u>		Page	
WDC EXPLORATION	Interval (ft.)	Uscs Class Color	Moisture Content Consist.	Cohesive Soils (Clay) Density of Non- (Sann)	Angularity/Shape of Particles Cementaric	Structure	Dry Strength	Plasticity Associate	Additional Information	% Rec. (ft/ft)
	1 0-5251		dry v. sof	IL { Y, 10050	angular none	stratified	none /r	orplastic	No odor	
5058655151 FAX No.	Semple: Y (N) Analytes: 312 Time: (210 PED: MA	S Br	June employed (matching) motsi firm (wet hard sat. v. har	stille ni. Gense dense	subangular week subnounded model rounded strong flat CHOC alongeted Calca OR Silicio	ate fissured slickensided DSE: blocky reous lensed	high v. high	ow nedium Ngh		nla
03/13/2009 13:58	$\begin{array}{c} 9.33 - 710^{3} \\ \text{Blow Cl. 7.17 Sulfr} \\ \text{Semple: Y' (N)} \\ \text{Analytoo: } \\ \text{Analytoo: } \\ 9141^{11} \text{ fo gift} \\ 11 \text{ mec} \left(SO7 + 910^{2} \right) \\ 100^{2} \text{ (9.33)} \\ 100^{2} \text{ (9.53)} \end{array}$		wet hard sat. v. ha	stuf) m. dense dense d v. dense	angutar none subangular week subrounded moder founded strong flat CHOC elongeted Celce OR Stituce	stickensided DEE: blocky recus lensed homogenous us Interbedded	kow mognum high J. high	ooplastic ow nedtum Ygh	Blackant in each Fle" inless noted alw. NO CIDER	335%
2:00: HE CENT 03 : 29 PM	134"-14" Blow CL 50 Sempto: Y N Analytos: Tome: 0534 PID: Nut fakin	s Gro	damp v. sol damp soft moist fam wet han set. v. pa	loose m. dense danse	angular none subangpliar weak subrounded mode nounced strong flat CHOC elongated Calca OR SBitdo	stickensided <u>SE:</u> blocky iensed homogenous	law medium	önplasuc aw nedium ligh	Veryhard shele lens, NO odor	33%
Received by OCD: 4/23/2024 12. MAR/13/2009/FR1_02:2	How CL 56 Blow CL 56 Sample: Y A A's chor Analytes: Time: 0845 PID: 6.0 PP		dry v. so damp soft moist firm (wel hard sal. v. ha	ist#/) Icose (st#/) m. dense dense	engular none subangular weak subrounded mode rounded strong flat CHOX elongsted Calca OR Silicio	stickensided DSE: blocky reaus lensed homogenous	low 1 medtum 1	างางว่าสรชัด งาม ทอดไมเกา หมัฐโร	No odor. M do 18, sample driven to 19 m hammer.	33%
<i>Received by O</i> MAR/1	k.Vormel/laks?ifictsgy.xis -					, 2			<u></u>	

٩.,

Released to Imaging: 5/15/2024 2:21:06 PM

. –

Page 13 of 116

•



APPENDIX B

Laboratory Analytical Reports



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 03, 2024

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

RE: Hamner 7

OrderNo.: 2312910

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 12/15/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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

Hamner 7

2312910-001

Project:

Lab ID:

Analytical Report Lab Order 2312910

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/3/2024 Client Sample ID: PH01@9 Collection Date: 12/13/2023 3:35:00 PM Received Date: 12/15/2023 6:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	19	9.6	mg/Kg	1	12/28/2023 12:19:01 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2023 12:19:01 PM
Surr: DNOP	99.3	69-147	%Rec	1	12/28/2023 12:19:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	17	4.8	mg/Kg	1	12/27/2023 11:19:04 AM
Surr: BFB	232	15-244	%Rec	1	12/27/2023 11:19:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/27/2023 11:19:04 AM
Toluene	ND	0.048	mg/Kg	1	12/27/2023 11:19:04 AM
Ethylbenzene	0.050	0.048	mg/Kg	1	12/27/2023 11:19:04 AM
Xylenes, Total	ND	0.096	mg/Kg	1	12/27/2023 11:19:04 AM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	12/27/2023 11:19:04 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	66	60	mg/Kg	20	12/28/2023 6:45:46 PM

Matrix: SOIL

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

*

Hamner 7

2312910-002

Project:

Lab ID:

Analytical Report Lab Order 2312910

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/3/2024 Client Sample ID: PH02@5 Collection Date: 12/13/2023 3:40:00 PM Matrix: SOIL Received Date: 12/15/2023 6:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/28/2023 12:43:24 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2023 12:43:24 PM
Surr: DNOP	99.6	69-147	%Rec	1	12/28/2023 12:43:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/22/2023 3:52:30 PM
Surr: BFB	98.5	15-244	%Rec	1	12/22/2023 3:52:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/22/2023 3:52:30 PM
Toluene	ND	0.049	mg/Kg	1	12/22/2023 3:52:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/22/2023 3:52:30 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/22/2023 3:52:30 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146	%Rec	1	12/22/2023 3:52:30 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	83	60	mg/Kg	20	12/28/2023 7:00:56 PM

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

Qualifiers:

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

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Hamner 7

2312910-003

Project:

Lab ID:

Analytical Report Lab Order 2312910

Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH03@5 Collection Date: 12/13/2023 3:43:00 PM

Received Date: 12/15/2023 6:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/28/2023 12:24:08 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2023 12:24:08 PM
Surr: DNOP	113	69-147	%Rec	1	12/28/2023 12:24:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/22/2023 4:16:21 PM
Surr: BFB	97.7	15-244	%Rec	1	12/22/2023 4:16:21 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	12/22/2023 4:16:21 PM
Toluene	ND	0.047	mg/Kg	1	12/22/2023 4:16:21 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/22/2023 4:16:21 PM
Xylenes, Total	ND	0.094	mg/Kg	1	12/22/2023 4:16:21 PM
Surr: 4-Bromofluorobenzene	96.1	39.1-146	%Rec	1	12/22/2023 4:16:21 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	12/28/2023 7:16:05 PM

Matrix: SOIL

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

Qualifiers:

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

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

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

*

Analytical Report Lab Order 2312910

Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: PH07@4 **Project:** Hamner 7 Collection Date: 12/13/2023 4:06:00 PM Lab ID: 2312910-004 Matrix: SOIL Received Date: 12/15/2023 6:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: DGH Diesel Range Organics (DRO) ND 9.5 12/28/2023 12:47:56 PM mg/Kg 1 Motor Oil Range Organics (MRO) 1 12/28/2023 12:47:56 PM ND 47 mg/Kg Surr: DNOP %Rec 1 12/28/2023 12:47:56 PM 118 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 12/22/2023 4:40:09 PM Surr: BFB 105 12/22/2023 4:40:09 PM 15-244 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 12/22/2023 4:40:09 PM Toluene ND 0.048 mg/Kg 1 12/22/2023 4:40:09 PM Ethylbenzene 12/22/2023 4:40:09 PM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.097 mg/Kg 1 12/22/2023 4:40:09 PM Surr: 4-Bromofluorobenzene 98.4 39.1-146 %Rec 1 12/22/2023 4:40:09 PM **EPA METHOD 300.0: ANIONS** Analyst: RBC Chloride ND 12/28/2023 7:31:15 PM 60 mg/Kg 20

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

Client: Project:	HILCOR Hamner 7		Ϋ́								
Sample ID:	MB-79657	Samp	Type: ME	BLK	Tes	stCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batc	h ID: 79	657	F	RunNo: 1(02121				
Prep Date:	12/28/2023	Analysis [Date: 12	2/28/2023	S	SeqNo: 37	771779	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-79657	Samp	Type: LC	S	Tes	stCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batc	h ID: 79	657	F	RunNo: 1(02121				
Prep Date:	12/28/2023	Analysis I	Date: 12	2/28/2023	S	SeqNo: 37	771780	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	94.8	90	110			

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

WO#: 2312910 03-Jan-24

Client: HILCOF Project: Hamner	RP ENERG 7	Y								
Sample ID: MB-79621	SampT	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batcl	h ID: 796	621	F	RunNo: 1(02130				
Prep Date: 12/27/2023	Analysis E	Date: 12	/28/2023	5	SeqNo: 37	769479	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	10		10.00		100	69	147			
Sample ID: LCS-79621	SampT	Type: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batc	h ID: 796	521	F	RunNo: 10)2130				
Prep Date: 12/27/2023	Analysis [Date: 12	/28/2023	S	SeqNo: 37	769480	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	93.4	61.9	130			
Surr: DNOP	4.3		5.000		86.9	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В

- Released to Imaging: 5/15/2024 2:21:06 PM

2312910

03-Jan-24

WO#:

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

Client: HILCO Project: Hamne	ORP ENERG` er 7	Y								
Sample ID: Ics-79535	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch	n ID: 795	535	F	RunNo: 1()2078				
Prep Date: 12/20/2023	Analysis D	ate: 12	/22/2023	S	SeqNo: 37	767109	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	104	70	130			
Surr: BFB	2100		1000		210	15	244			
Sample ID: mb-79535	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range		
Client ID: PBS	Batch	n ID: 795	535	F	RunNo: 1(02078				
Prep Date: 12/20/2023	Analysis D	ate: 12	/22/2023	S	SeqNo: 37	767112	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	980		1000		97.7	15	244			

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

WO#: 2312910 03-Jan-24

Client: Project:	HILCORP Hamner 7	ENERGY	ľ								
Sample ID: LCS-7	9535	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS		Batch	ID: 79	535	F	RunNo: 1(02078				
Prep Date: 12/20	/2023	Analysis D	ate: 12	2/22/2023	5	SeqNo: 37	767216	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.84	0.025	1.000	0	84.0	70	130			
Toluene		0.86	0.050	1.000	0	85.7	70	130			
Ethylbenzene		0.87	0.050	1.000	0	87.0	70	130			
Xylenes, Total		2.6	0.10	3.000	0	87.5	70	130			
Surr: 4-Bromofluorob	enzene	1.0		1.000		99.6	39.1	146			
Sample ID: mb-79	535	SampT	ype: MI	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS		Batch	ID: 79	535	F	RunNo: 1(02078				
Prep Date: 12/20	/2023	Analysis D	ate: 12	2/22/2023	Ş	SeqNo: 37	767219	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-Bromofluorob	enzene	0.97		1.000		97.5	39.1	146			

Qualifiers:

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

.

WO#: 2312910

03-Jan-24

Seurofins Environme	ent Testin Al TEL: 505-345-39	ronment Testing So Central, I 4901 Hawkins Ibuquerque, NM 87 75 FAX: 505-345-4 hallenvironmental.	LLC NE Sarr 109 1107	nple Log-In Cł	neck List
Client Name: HILCORP ENERGY	Work Order Number	er: 2312910		RcptNo:	1
Received By: Tracy Casarrubias	12/15/2023 6:50:00 /	AM			
Completed By: Tracy Casarrubias	12/15/2023 9:12:58	AM			
Reviewed By:	12/15/23				
Chain of Custody			_		
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the s	amples?	Yes 🗹	No 🗌		
4. Were all samples received at a terr	perature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indica	ted test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ON	G) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?	,	Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with heads	pace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers recei	ved broken?	Yes	No 🗹	# of preserved	
11.Does paperwork match bottle label (Note discrepancies on chain of cu		Yes 🗹	No 🗌	bottles checked for pH:	>12 unless noted)
12. Are matrices correctly identified on		Yes 🖌	No 🗌	Adjusted?	
13. Is it clear what analyses were requ		Yes 🗹	No 🗌		1 1-10-0
14. Were all holding times able to be n (If no, notify customer for authoriza		Yes 🗹	No 🗌	Checked by:	1112/15/23
Special Handling (if applicabl	<u>e)</u>				
15. Was client notified of all discrepan	cies with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail 🗌 P	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions: Mailing	address and phone number are	missing on COC-	TMC 12/15/23	3	
16. Additional remarks:					
17. Cooler Information				1	
Cooler No Temp °C Cond 1 3.3 Good	lition Seal Intact Seal No Yes Morty	Seal Date	Signed By	-	

•

Received by OCD: 4/23/2024 12:00:16 AM

С	hain	of-Cu	istody Record	Turn-A							E.			E	NN	ТЕ	20		1E	NT		
Client:	14:10	r(A		X Sta	5-Ju Indard	ך ⊓ Rush					-									ТС		
14	M	Leh k	fllough	-													al.co					-
	Address		<u>, , , , , , , , , , , , , , , , , , , </u>	-	Ha	mar 7	Constant of the second second		10	าาษ									109			
				Project				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107														
Phone #	4.							Analysis Request														
email or	<u>.</u> Fax#:∧	n kilo	ghehilcop.com	Proiect	Mana	iger: Stum	+ He de		6					07			f)					
	Package:		1	1,		Stra	1 117	3021	MK	PCB's		AS N		St			bsei					
□ Stan	-		□ Level 4 (Full Validation)					3) S ⁴	lõ	PC		IISO		4			ntA					
Accredi	tation:	🗆 Az Co	mpliance	Sample	er: 72	lecce Hin	15~]₩	١ <u>ڦ</u>	082	Ē	827		¢ ₹0	-		ese					
		Other		On Ice		Yes	No morty	BTEXY MHBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals RCRA 8 Metals CI F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ S260 (VOA) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)														
	(Type)	T		# of Co			3 t Ø = 3.3 (°C)	E	00	ticid	thod	831	RCRA 8 Metals	¥	(¥	mi-	forn					
				COOler	Temp			a	3015	Pes	Mei	Ъ Р	A 8	à	S	(Se	S S			-		
				Contai		Preservative		(Ê)	H	81	DB	AHS	CR	E E	8260 (VOA)	270	otal					
	Time	Matrix	Sample Name	Type a		Туре	2312910		Y	õ	ш	₽	<u></u>	-0-1	00	00		-	-	+	-	_
12/13/22		50:1	PItol e 9	1,4	οZ	Coul	001	\times	X					×						+		
	1540		P1+02 0 5				002	X	\prec				_	×							_	
	1543		PH02 05 PH03 05				003	×	X					X				-12 (s				
X	1606		PITOTEY	7		4	004	X	א			58		X					-			
												8 H B	he t				12.00					
			SPACE IN THE REAL PROPERTY OF										11			- 11						
							ana a shere															
		1			-																	
		1		-					\square				line of				1.11					
						11100 - 11																
				1					-								1.1					
			12					1	1					÷ -			1.1					\neg
Date:	Time:	Relinquist	ned by:	Receive	d by:	Via:	Date Time	Rei	nark	s:		10-	<u> </u>				· · · ·		_		l.	
12/4/22	1012	Y.	1/21_	1	m	War	12/14/23 1012			/	, \	1	ha	150	<u>م</u>	Q	acolom in					
Date:	Time:	Relinquist	ned by:	Receive	ed by:	Via: court	Date Time			.010	1											
12/14/2	כוץ ן	De	and house				12/15/23 6:50															



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 15, 2024 Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: Hamner 7

OrderNo.: 2312F11

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 12/29/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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

Hamner 7

2312F11-001

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH09@5 Collection Date: 12/28/2023 11:30:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/3/2024 8:26:02 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/3/2024 8:26:02 PM
Surr: DNOP	121	69-147	%Rec	1	1/3/2024 8:26:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2024 5:50:39 PM
Surr: BFB	111	15-244	%Rec	1	1/2/2024 5:50:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 5:50:39 PM
Toluene	ND	0.049	mg/Kg	1	1/2/2024 5:50:39 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2024 5:50:39 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/2/2024 5:50:39 PM
Surr: 4-Bromofluorobenzene	93.9	39.1-146	%Rec	1	1/2/2024 5:50:39 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	61	mg/Kg	20	1/8/2024 4:58:32 PM

Matrix: SOIL

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

*

Hamner 7

2312F11-002

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH10@5 Collection Date: 12/28/2023 11:50:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	560	9.7		mg/Kg	1	1/3/2024 8:36:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/3/2024 8:36:30 PM
Surr: DNOP	99.2	69-147		%Rec	1	1/3/2024 8:36:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	1400	24		mg/Kg	5	1/2/2024 6:14:43 PM
Surr: BFB	2380	15-244	S	%Rec	5	1/2/2024 6:14:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	0.22	0.12		mg/Kg	5	1/2/2024 6:14:43 PM
Toluene	0.56	0.24		mg/Kg	5	1/2/2024 6:14:43 PM
Ethylbenzene	2.8	0.24		mg/Kg	5	1/2/2024 6:14:43 PM
Xylenes, Total	7.7	0.47		mg/Kg	5	1/2/2024 6:14:43 PM
Surr: 4-Bromofluorobenzene	357	39.1-146	S	%Rec	5	1/2/2024 6:14:43 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	1/8/2024 5:10:57 PM

Matrix: SOIL

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

*

Hamner 7

2312F11-003

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH11@5.5 Collection Date: 12/28/2023 11:34:00 AM Received Date: 12/29/2023 7:00:00 AM

	Soll	100								
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH					
Diesel Range Organics (DRO)	11	9.2	mg/Kg	1	1/3/2024 8:46:58 PM					
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/3/2024 8:46:58 PM					
Surr: DNOP	130	69-147	%Rec	1	1/3/2024 8:46:58 PM					
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP					
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/3/2024 11:51:16 AM					
Surr: BFB	101	15-244	%Rec	1	1/3/2024 11:51:16 AM					
EPA METHOD 8021B: VOLATILES					Analyst: JJP					
Benzene	ND	0.024	mg/Kg	1	1/2/2024 6:38:21 PM					
Toluene	ND	0.047	mg/Kg	1	1/2/2024 6:38:21 PM					
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2024 6:38:21 PM					
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2024 6:38:21 PM					
Surr: 4-Bromofluorobenzene	92.8	39.1-146	%Rec	1	1/2/2024 6:38:21 PM					
EPA METHOD 300.0: ANIONS					Analyst: KCB					
Chloride	ND	60	mg/Kg	20	1/8/2024 5:23:22 PM					

Matrix: SOIL

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

*

Hamner 7

2312F11-004

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH13@4 Collection Date: 12/28/2023 11:37:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/3/2024 8:57:25 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/3/2024 8:57:25 PM
Surr: DNOP	115	69-147	%Rec	1	1/3/2024 8:57:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 7:02:29 PM
Surr: BFB	110	15-244	%Rec	1	1/2/2024 7:02:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 7:02:29 PM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 7:02:29 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 7:02:29 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2024 7:02:29 PM
Surr: 4-Bromofluorobenzene	91.6	39.1-146	%Rec	1	1/2/2024 7:02:29 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/8/2024 5:35:47 PM

Matrix: SOIL

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

Qualifiers:

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

*

Hamner 7

2312F11-005

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH14@5 Collection Date: 12/28/2023 11:40:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	1/3/2024 9:07:51 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/3/2024 9:07:51 PM
Surr: DNOP	115	69-147	%Rec	1	1/3/2024 9:07:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/2/2024 7:26:03 PM
Surr: BFB	121	15-244	%Rec	1	1/2/2024 7:26:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/2/2024 7:26:03 PM
Toluene	ND	0.046	mg/Kg	1	1/2/2024 7:26:03 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/2/2024 7:26:03 PM
Xylenes, Total	ND	0.092	mg/Kg	1	1/2/2024 7:26:03 PM
Surr: 4-Bromofluorobenzene	90.6	39.1-146	%Rec	1	1/2/2024 7:26:03 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/8/2024 5:48:11 PM

Matrix: SOIL

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

*

Hamner 7

2312F11-006

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH10@7 Collection Date: 12/28/2023 11:45:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	9.8	9.8	mg/Kg	1	1/3/2024 9:18:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2024 9:18:16 PM
Surr: DNOP	106	69-147	%Rec	1	1/3/2024 9:18:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 7:50:09 PM
Surr: BFB	107	15-244	%Rec	1	1/2/2024 7:50:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 7:50:09 PM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 7:50:09 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 7:50:09 PM
Xylenes, Total	0.16	0.096	mg/Kg	1	1/2/2024 7:50:09 PM
Surr: 4-Bromofluorobenzene	93.6	39.1-146	%Rec	1	1/2/2024 7:50:09 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/10/2024 2:35:33 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL
- Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

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

*

Client: Project:	HILCORF Hamner 7	PENERGY								
Sample ID:	MB-79773	SampType	e: mblk	Tes	stCode: EF	A Method	300.0: Anions			
Client ID:	PBS	Batch ID): 79773	F	RunNo: 10)2317				
Prep Date:	1/8/2024	Analysis Date	e: 1/8/2024	:	SeqNo: 37	78296	Units: mg/K	g		
Analyte Chloride		Result F	PQL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-79773	SampType	e: Ics	Tes	stCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID): 79773	F	RunNo: 10	2317				
Prep Date:	1/8/2024	Analysis Date	e: 1/8/2024	:	SeqNo: 37	78297	Units: mg/K	g		
Analyte		Result F	PQL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00) 0	93.0	90	110			
Sample ID:	MB-79832	SampType	e: MBLK	Tes	stCode: EF	A Method	300.0: Anions			
Client ID:	PBS	Batch ID	2 79832	F	RunNo: 10	02351				
Prep Date:	1/10/2024	Analysis Date	e: 1/10/2024	:	SeqNo: 37	80548	Units: mg/K	g		
Analyte		Result F	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-79832	SampType	e: LCS	Tes	stCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID	2: 79832	F	RunNo: 10	2351				
Prep Date:	1/10/2024	Analysis Date	e: 1/10/2024	:	SeqNo: 37	80549	Units: mg/K	g		
Analyte		Result F	PQL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00) 0	93.8	90	110			

Qualifiers:

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

.

WO#: 2312F11 15-Jan-24

Client:	HILCORP ENERGY			
Project:	Hamner 7			
Sample ID: LCS-796	74 SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 79674	RunNo: 102212		
Prep Date: 1/2/202	4 Analysis Date: 1/3/2024	SeqNo: 3773288	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DI	RO) 58 10 50.00	0 117 61.9	130	
Surr: DNOP	6.5 5.000	130 69	147	
Sample ID: MB-7967	4 SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 79674	RunNo: 102212		
Prep Date: 1/2/202	4 Analysis Date: 1/3/2024	SeqNo: 3773291	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DI				
Motor Oil Range Organics				
Surr: DNOP	12 10.00	116 69	147	
Sample ID: LCS-797	46 SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: LCSS	Batch ID: 79746	RunNo: 102294		
Prep Date: 1/4/202	4 Analysis Date: 1/5/2024	SeqNo: 3777200	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	5.6 5.000	113 69	147	
Sample ID: MB-7974	6 SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics
Client ID: PBS	Batch ID: 79746	RunNo: 102294		
Prep Date: 1/4/202	4 Analysis Date: 1/5/2024	SeqNo: 3777201	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	15 10.00	153 69	147	S

Qualifiers:

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

Page 34 of 116

WO#: 2312F11 15-Jan-24

Client: HILCO Project: Hamne	RP ENERG r 7	Y										
Sample ID: Ics-79669	Ics-79669 SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	LCSS Batch ID: 79669			RunNo: 102187								
Prep Date: 12/29/2023	Analysis Date: 1/2/2024			SeqNo: 3772357			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	70	130					
Surr: BFB	2000		1000		202	15	244					
Sample ID: mb-79669	SampT	уре: МВ	LK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 79669			RunNo: 102187								
Prep Date: 12/29/2023	Analysis Date: 1/2/2024			SeqNo: 3772358			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	990		1000		99.2	15	244					

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

WO#:	2312F11					
	15-Jan-24					

	CORP ENERG	Υ									
Sample ID: LCS-79669	'9669 SampType: LCS				TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	Batch ID: 79669			RunNo: 102187						
Prep Date: 12/29/2023	Analysis [Analysis Date: 1/2/2024			SeqNo: 37	72369	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.025	1.000	0	90.8	70	130				
Toluene	0.92	0.050	1.000	0	92.2	70	130				
Ethylbenzene	0.93	0.050	1.000	0	92.6	70	130				
Xylenes, Total	2.8	0.10	3.000	0	93.2	70	130				
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146				
Sample ID: mb-79669	Samp	Туре: МВ	LK	Tes							
Client ID: PBS	Batc	Batch ID: 79669			RunNo: 102187						
Prep Date: 12/29/2023	Analysis [Analysis Date: 1/2/2024			SeqNo: 3772370 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	39.1	146				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL
- Released to Imaging: 5/15/2024 2:21:06 PM

WO#: 2312F11 15-Jan-24
💸 eurofins

Page 37 of 116

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 5/15/2024 2:21:06 PM

Work Order Number: 2312F11 RcptNo: 1 Client Name: Hilcorp Energy 12/29/2023 7:00:00 AM Received By: **Tracy Casarrubias** Completed By: 12/29/2023 9:36:37 AM Tracy Casarrubias 12-29-23 Reviewed By: Chain of Custody Not Present Yes 🗌 No 🗹 1. Is Chain of Custody complete? 2. How was the sample delivered? **Courier** Log In No 🗌 NA 🗌 3. Was an attempt made to cool the samples? Yes 🗹 No 🗌 NA 🗌 Yes 🔽 Were all samples received at a temperature of >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)? 7. Are samples (except VOA and ONG) properly preserved? Yes 🔽 No No 🔽 NA 🗌 8. Was preservative added to bottles? Yes NA 🗹 No Yes Received at least 1 vial with headspace <1/4" for AQ VOA? L No 🗸 Yes 10. Were any sample containers received broken? # of preserved bottles checked Yes 🔽 for pH: No 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 12. Are matrices correctly identified on Chain of Custody? Yes No 🗌 Yes 🔽 13. Is it clear what analyses were requested? Hecked by: No 🗌 V 14. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗹 No 🗌 15. Was client notified of all discrepancies with this order? Yes 🗌 Person Notified: Date: By Whom: eMail Phone Fax In Person Via: Regarding: Client Instructions: Mailing address and phone number are missing on COC - TMC 12/29/23 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 1.1 Good Yes Morty

Received by OCD: 4/23/2024 12:00:16 AM

С	hain-	of-Cu	stody Record	Turn-Around Time:							н	AL	L	Eľ	v	IR		NM	IEN	ITA	L	
Client:	Hile	SCP		V Sta	andard) 🗆 Rush														FO		
Alta	M	tch	Killungh		t Name						١	vww.	.hall	envi	ronn	nenta	al.co	m				
Mailing			10.1.1.007	4	Han	yne 7		4901 Hawkins NE - Albuquerque, NM 8					VI 871	09								
				Projec	ct #:			Tel. 505-345-3975 Fax 505-345-4107														
Phone #	<i></i>			4									-	naly	sis I	Requ	uest					
		m K:11	tehil corpicom	Projec	t Mana	ger:	1 11 1.		6					đ			lf)					
	Package:			1,		Stun	+ Ityde	802	MR	B's		MS	17	4,8	- 1		bse					
□ Stan	-		□ Level 4 (Full Validation)) <u></u>	lõ	PD		8270SIMS		4			nt/A					
Accredi		🗆 Az Co	mpliance	Samp	ler: 7	cece H	ensur	Į₽	TPH:8015D(GRO / DRO / MROD	8081 Pesticides/8082 PCB's	[]	827		F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄			Total Coliform (Present/Absent)		. +.			
	٩C	D Other	· · · · · · · · · · · · · · · · · · ·	On Ice		Y Yes	I No morty		SRO	es/8	EDB (Method 504.1)	PAHs by 8310 or	sle	3		8270 (Semi-VOA)	n (P	5.4				
	(Type)		,		oolers:	(including CF):	±0-11 (°C)	E	D)C	ticid	thod	831	RCRA 8 Metals	Ž	(A	mi-	iforn	0				
				COOIE	i temp	(Including CF).	-0-11 (-1	1 to	3015	Pes	We	s by	A 8	ā	8260 (VOA)	(Se	S	L	7 m (*)			
				Conta		Preservative		ľθ	H	081	DB	AHS	SCR.	(<u></u> <u></u> <u></u> <u></u> <u></u>	260	270	otal	Hol				
	Time	Matrix	Sample Name	Type	and # すって	Туре	2312 F 11	HQ	14	8	<u> </u>		<u>r</u>	볮		00	-					┢─
12/23/23	1130	5011	Pltoge5	1,9		Cuol	001	Ķ	X	1				X			_		+			┢
	11:50		PHUC 5				002					_	~								_	┝
	11:34		PHILES.5				003		1			_	400								4_	<u> </u>
	11:37		PH13e4				004					a - 16					1					_
	11240		PITICE				005					- 18 A	1.0				10.01			224		
V	11:45	V	* PHIVE 7			+	006	F	1		1	*****		V	141	1		X		2		
							na in 15 air															
				-								· · · · · ·										
				+				1	1	1				1.000								Γ
				_		Silver model and the			+	\square												
	1			+				+-	+	1	- Marina											Τ
							HORIZON NE PARAMAN	+	+	-		-	1.0			-	1.1					\uparrow
Date:	Time:	Relinquis	hed by:	Receiv	ved by:	Via:	Date Time		marl	(s:		10.00		\$	Ho	12	PH	100	T			_
eners?			man		In	- Waed	12/28/23 1040	>		ne	. 5	hyd	le	•	~		έ.	Jn	n.	(0.	\sim	
Date: Time: Relinquished by:			Receiv	ved by:	Via:Couner	Date nine	-		L	6	hun	51.		e	C	1 74			(0-			
12/1×/2	1744	N	hatware				12/29/23 7:00				7	an	Jul -	5-17		1	14		14			



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 03, 2024

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

RE: Hamner 7

OrderNo.: 2312910

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 12/15/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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

Hamner 7

2312910-001

Project:

Lab ID:

Analytical Report Lab Order 2312910

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/3/2024 Client Sample ID: PH01@9 Collection Date: 12/13/2023 3:35:00 PM

Received Date: 12/15/2023 6:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	19	9.6	mg/Kg	1	12/28/2023 12:19:01 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2023 12:19:01 PM
Surr: DNOP	99.3	69-147	%Rec	1	12/28/2023 12:19:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	17	4.8	mg/Kg	1	12/27/2023 11:19:04 AM
Surr: BFB	232	15-244	%Rec	1	12/27/2023 11:19:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/27/2023 11:19:04 AM
Toluene	ND	0.048	mg/Kg	1	12/27/2023 11:19:04 AM
Ethylbenzene	0.050	0.048	mg/Kg	1	12/27/2023 11:19:04 AM
Xylenes, Total	ND	0.096	mg/Kg	1	12/27/2023 11:19:04 AM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	12/27/2023 11:19:04 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	66	60	mg/Kg	20	12/28/2023 6:45:46 PM

Matrix: SOIL

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

*

Hamner 7

2312910-002

Project:

Lab ID:

Analytical Report Lab Order 2312910

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/3/2024 Client Sample ID: PH02@5 Collection Date: 12/13/2023 3:40:00 PM

Received Date: 12/15/2023 6:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/28/2023 12:43:24 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/28/2023 12:43:24 PM
Surr: DNOP	99.6	69-147	%Rec	1	12/28/2023 12:43:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/22/2023 3:52:30 PM
Surr: BFB	98.5	15-244	%Rec	1	12/22/2023 3:52:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/22/2023 3:52:30 PM
Toluene	ND	0.049	mg/Kg	1	12/22/2023 3:52:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/22/2023 3:52:30 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/22/2023 3:52:30 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146	%Rec	1	12/22/2023 3:52:30 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	83	60	mg/Kg	20	12/28/2023 7:00:56 PM

Matrix: SOIL

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

Qualifiers:

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

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2312910

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/3/2024 **CLIENT: HILCORP ENERGY** Client Sample ID: PH03@5 Hamner 7 Collection Date: 12/13/2023 3:43:00 PM 2312910-003 Matrix: SOIL Received Date: 12/15/2023 6:50:00 AM Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 12/28/2023 12:24:08 PM 9.6 mg/Kg 1 Motor Oil Range Organics (MRO) ND mg/Kg 1 12/28/2023 12:24:08 PM 48 Surr: DNOP %Rec 1 12/28/2023 12:24:08 PM 113 69-147 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 12/22/2023 4:16:21 PM Surr: BFB 97.7 %Rec 1 12/22/2023 4:16:21 PM 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: JJP

Benzene	ND	0.023	mg/Kg	1	12/22/2023 4:16:21 PM
Toluene	ND	0.047	mg/Kg	1	12/22/2023 4:16:21 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/22/2023 4:16:21 PM
Xylenes, Total	ND	0.094	mg/Kg	1	12/22/2023 4:16:21 PM
Surr: 4-Bromofluorobenzene	96.1	39.1-146	%Rec	1	12/22/2023 4:16:21 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	12/28/2023 7:16:05 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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

*

D

Analytical Report Lab Order 2312910

Date Reported: 1/3/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Project: Hamner 7		Client Sample ID: PH07@4 Collection Date: 12/13/2023 4:06:00 PM										
Project: Hamner 7 Lab ID: 2312910-004	Matrix: SOIL				2023 4:08:00 PM 2023 6:50:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed							
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH							
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/28/2023 12:47:56 PM							
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/28/2023 12:47:56 PM							
Surr: DNOP	118	69-147	%Rec	1	12/28/2023 12:47:56 PM							
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP							
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/22/2023 4:40:09 PM							
Surr: BFB	105	15-244	%Rec	1	12/22/2023 4:40:09 PM							
EPA METHOD 8021B: VOLATILES					Analyst: JJP							
Benzene	ND	0.024	mg/Kg	1	12/22/2023 4:40:09 PM							
Toluene	ND	0.048	mg/Kg	1	12/22/2023 4:40:09 PM							
Ethylbenzene	ND	0.048	mg/Kg	1	12/22/2023 4:40:09 PM							
Xylenes, Total	ND	0.097	mg/Kg	1	12/22/2023 4:40:09 PM							
Surr: 4-Bromofluorobenzene	98.4	39.1-146	%Rec	1	12/22/2023 4:40:09 PM							
EPA METHOD 300.0: ANIONS					Analyst: RBC							
Chloride	ND	60	mg/Kg	20	12/28/2023 7:31:15 PM							

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

Client: Project:	HILCOR Hamner 7	PENERGY							
Sample ID:	MB-79657	SampType	MBLK	Tes	tCode: EPA Method	d 300.0: Anions			
Client ID:	PBS	Batch ID:	79657	F	RunNo: 102121				
Prep Date:	12/28/2023	Analysis Date:	12/28/2023	S	SeqNo: 3771779	Units: mg/Kg			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID:	LCS-79657	SampType	LCS	Tes	tCode: EPA Method	d 300.0: Anions			
Client ID:	LCSS	Batch ID:	79657	F	RunNo: 102121				
Prep Date:	12/28/2023	Analysis Date:	12/28/2023	Ş	SeqNo: 3771780	Units: mg/Kg			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	94.8 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
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit
- - RL

.

WO#: 2312910 03-Jan-24

Client:HILCOFProject:Hamner	RP ENERG 7	Y								
Sample ID: MB-79621	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batc	h ID: 796	621	F	RunNo: 1(02130				
Prep Date: 12/27/2023	Analysis [Date: 12	/28/2023	S	SeqNo: 37	769479	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	10		10.00		100	69	147			
Sample ID: LCS-79621	Samp	Гуре: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batc	h ID: 796	521	F	RunNo: 1()2130				
Prep Date: 12/27/2023	Analysis [Date: 12	/28/2023	S	SeqNo: 37	769480	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	93.4	61.9	130			
Surr: DNOP	4.3		5.000		86.9	69	147			

Qualifiers:

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

.

WO#: 2312910 03-Jan-24

Client: HILCO Project: Hamne	ORP ENERG` er 7	Y								
Sample ID: Ics-79535	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch	n ID: 795	535	F	RunNo: 1()2078				
Prep Date: 12/20/2023	Analysis D	ate: 12	/22/2023	S	SeqNo: 37	767109	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	104	70	130			
Surr: BFB	2100		1000		210	15	244			
Sample ID: mb-79535	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range		
Client ID: PBS	Batch	n ID: 795	535	F	RunNo: 1(02078				
Prep Date: 12/20/2023	Analysis D	ate: 12	/22/2023	S	SeqNo: 37	767112	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	980		1000		97.7	15	244			

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

Page 46 of 116

2312910

03-Jan-24

WO#:

Client: Project:	HILCORP Hamner 7	ENERGY									
Sample ID: LCS-7	9535	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS		Batch	ID: 79	535	F	RunNo: 1(02078				
Prep Date: 12/20	/2023	Analysis Da	ite: 12	2/22/2023	S	SeqNo: 37	67216	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.84	0.025	1.000	0	84.0	70	130			
Toluene		0.86	0.050	1.000	0	85.7	70	130			
Ethylbenzene		0.87	0.050	1.000	0	87.0	70	130			
Xylenes, Total		2.6	0.10	3.000	0	87.5	70	130			
Surr: 4-Bromofluorobe	enzene	1.0		1.000		99.6	39.1	146			
Sample ID: mb-79	535	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS		Batch	ID: 79	535	F	RunNo: 1(02078				
Prep Date: 12/20	/2023	Analysis Da	ite: 12	2/22/2023	S	SeqNo: 37	767219	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-Bromofluorobe	enzene	0.97		1.000		97.5	39.1	146			

Qualifiers:

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

.

WO#: 2312910

03-Jan-24

	eurofins E	invironment Te	estin- TEL: 505-345	wironment Testing Sou Central, I 4901 Hawkins Albuquerque, NM 87 3975 FAX: 505-345-4 w.hallenvironmental.o	NE Sarr 109 107	nple Log-In Ch	eck List
Clie	nt Name: HILCORF	PENERGY	Work Order Num	nber: 2312910		RcptNo: 1	
Rec	eived By: Tracy C	asarrubias	12/15/2023 6:50:0	0 AM			
		asarrubias	12/15/2023 9:12:5				
		ing 1	2/15/23				
Cha	in of Custody				_		
1. Is	Chain of Custody con	nplete?		Yes	No 🗹	Not Present	
2. H	low was the sample de	livered?		<u>Courier</u>			
	g In Vas an attempt made to	o cool the sample	s?	Yes 🗹	No 🗌	NA 🗌	
4. W	/ere all samples receiv	ed at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. s	ample(s) in proper con	tainer(s)?		Yes 🔽	No 🗌		
6. S	ufficient sample volum	e for indicated tes	t(s)?	Yes 🗸	No 🗌		
7. A	re samples (except VC	A and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. W	as preservative added	to bottles?		Yes	No 🗹	NA	
9. R	eceived at least 1 vial	with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
	Vere any sample conta			Yes	No 🗹	# of preserved	
	oes paperwork match			Yes 🗹	No 🗌	bottles checked for pH:	12 unless noted)
•	Note discrepancies on re matrices correctly id		of Custody?	Yes 🗹	No 🗌	Adjusted?	
	it clear what analyses			Yes 🗹	No 🗌		1 1
14.v	lere all holding times a f no, notify customer fo	ble to be met?		Yes 🗹	No 🗌	Checked by:	1112/15/23
Spec	cial Handling (if a	pplicable)					
15.\	Vas client notified of a	Il discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	
	Person Notified:	[Dat	e:			
	By Whom:	, 	Via	: 🗌 eMail 🔲 P	hone 🗌 Fax	In Person	
	Regarding:						
	Client Instruction	s: Mailing addres	ss and phone number a	re missing on COC-	TMC 12/15/23	3	
16.	Additional remarks:						
17.	Cooler Information					1	
	Cooler No Temp		Seal Intact Seal No Yes Morty	Seal Date	Signed By		
	1 3.3	Good	Yes Morty			1	

Page 48 of 116

Received by OCD: 4/23/2024 12:00:16 AM

С	Chain-of-Custody Record			Turn-Around Time: 							L.			E	w	тс				NT	-	
Client:	14:10	r(A		l ⊠ Sta	フール andard	ິ ⊓ Rush														ТС		
Alto	M	Ich H	fillough		(N.I																	-
Mailing	Address		<u>, , , , , , , , , , , , , , , , , , , </u>	-	Ha	mar 7		www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
			· · · · · · · · · · · · · · · · · · ·	Projec				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107														
Phone #	<i>t</i> •								16	1. 50	0-0-	10-0.					uest					
email or	r. Fax#:∧	n kilo	ghehilcop.com	Proiec	t Mana	iger: Stun	1 He de		6					07			f)					
	QA/QC Package:					5 Jun		3021	MR	PCB's		AS MS		St			bsei					
	□ Standard □ Level 4 (Full Validation							9 9 9	lõ	PC		OSIN		4			nt/A					
Accredi	Accreditation: Accreditation:			Samp	ler: JZ	lecce Hn	15~	BTEXY MFBE/ TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	[]	PAHs by 8310 or 8270SIMS	124	CIJF, Br, NO3, NO2, PO4, SO4	55		Total Coliform (Present/Absent)					
		Other		On Ice): 	Yes	No morty		ß	es/8	502	Ъ	sl	Ţ		OA)	اط ۲					
	EDD (Type)			# of Coolers: 1 Cooler Temp(including CF): 3.3 t Ø = 3.3 (°C)			目	00	ticid	EDB (Method 504.1)	831	RCRA 8 Metals	¥	(Y)	8270 (Semi-VOA)	forn						
				00010	remp			1a	3015	Pes	(Mei	by	A 8	南	8260 (VOA)	(Se	S S			-		
				Conta		Preservative		(['] Ê)	H	081	B	AHs	CR	E E	260	270	otal					
		Matrix	Sample Name	Type a		Туре	2312910	∇	V	õ	ш	₽	R	-01	80	00	H	-	-	\rightarrow	+	
12/13/22		50:1	PItoleg	1,9	σZ	Coul	001	\times	X					×						+	-	
	1540		PH02 05 PH03 05		<u> </u>		002	×	\prec					×						<u> </u>	\rightarrow	
	1543						003	$ \times$	X					X				1997 - 199			\square	
V	1606		PITOTEY		Y	1	004	$ \times$	<u>א</u>			ŝ.		Х						_		
												8 - A - B	hin t				1.000					
			200 (CH-1)										11									
			.																			
		-			-																	
		1											in a									
				-					1												1	
										-												
									┢──					÷								
Date:	Date: Time: Relinquished by:			Receiv	ed by:	Via:	Date Time	Remarks: - CC: Shyle ensolute com														
12/11/22	2/472/1012		War 12/14/23 1012				1	, .	1	hn	150,	<u>م</u>	0	0.	cal	مسرما	1 /					
Date: Time: Relinquished by:		Received by: Via: courser Date Time		1		C	4	5	hyu	M	(-	en en	70	.	-, (.0/0)				
12/14/21150 David Down						12/15/23 4:50																

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 5/15/2024 2:21:06 PM



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 15, 2024 Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: Hamner 7

OrderNo.: 2312F11

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 12/29/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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

Hamner 7

2312F11-001

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/15/2024 Client Sample ID: PH09@5 Collection Date: 12/28/2023 11:30:00 AM

Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/3/2024 8:26:02 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/3/2024 8:26:02 PM
Surr: DNOP	121	69-147	%Rec	1	1/3/2024 8:26:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2024 5:50:39 PM
Surr: BFB	111	15-244	%Rec	1	1/2/2024 5:50:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 5:50:39 PM
Toluene	ND	0.049	mg/Kg	1	1/2/2024 5:50:39 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2024 5:50:39 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/2/2024 5:50:39 PM
Surr: 4-Bromofluorobenzene	93.9	39.1-146	%Rec	1	1/2/2024 5:50:39 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	61	mg/Kg	20	1/8/2024 4:58:32 PM

Matrix: SOIL

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

Qualifiers:

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

*

Hamner 7

2312F11-002

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH10@5 Collection Date: 12/28/2023 11:50:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst: DGH				
Diesel Range Organics (DRO)	560	9.7		mg/Kg	1	1/3/2024 8:36:30 PM				
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/3/2024 8:36:30 PM				
Surr: DNOP	99.2	69-147		%Rec	1	1/3/2024 8:36:30 PM				
EPA METHOD 8015D: GASOLINE RANG	E					Analyst: JJP				
Gasoline Range Organics (GRO)	1400	24		mg/Kg	5	1/2/2024 6:14:43 PM				
Surr: BFB	2380	15-244	S	%Rec	5	1/2/2024 6:14:43 PM				
EPA METHOD 8021B: VOLATILES						Analyst: JJP				
Benzene	0.22	0.12		mg/Kg	5	1/2/2024 6:14:43 PM				
Toluene	0.56	0.24		mg/Kg	5	1/2/2024 6:14:43 PM				
Ethylbenzene	2.8	0.24		mg/Kg	5	1/2/2024 6:14:43 PM				
Xylenes, Total	7.7	0.47		mg/Kg	5	1/2/2024 6:14:43 PM				
Surr: 4-Bromofluorobenzene	357	39.1-146	S	%Rec	5	1/2/2024 6:14:43 PM				
EPA METHOD 300.0: ANIONS						Analyst: KCB				
Chloride	ND	60		mg/Kg	20	1/8/2024 5:10:57 PM				

Matrix: SOIL

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

Qualifiers:

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

*

Hamner 7

Project:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

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

Client Sample ID: PH11@5.5 Collection Date: 12/28/2023 11:34:00 AM Received Date: 12/29/2023 7:00:00 AM

Lab ID: 2312F11-003	Matrix: SOIL	Rece	Received Date: 12/29/2023 7:00:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH				
Diesel Range Organics (DRO)	11	9.2	mg/Kg	1	1/3/2024 8:46:58 PM				
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/3/2024 8:46:58 PM				
Surr: DNOP	130	69-147	%Rec	1	1/3/2024 8:46:58 PM				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/3/2024 11:51:16 AM				
Surr: BFB	101	15-244	%Rec	1	1/3/2024 11:51:16 AM				
EPA METHOD 8021B: VOLATILES					Analyst: JJP				
Benzene	ND	0.024	mg/Kg	1	1/2/2024 6:38:21 PM				
Toluene	ND	0.047	mg/Kg	1	1/2/2024 6:38:21 PM				
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2024 6:38:21 PM				
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2024 6:38:21 PM				
Surr: 4-Bromofluorobenzene	92.8	39.1-146	%Rec	1	1/2/2024 6:38:21 PM				
EPA METHOD 300.0: ANIONS					Analyst: KCB				
Chloride	ND	60	mg/Kg	20	1/8/2024 5:23:22 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
- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Hamner 7

2312F11-004

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH13@4 Collection Date: 12/28/2023 11:37:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/3/2024 8:57:25 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/3/2024 8:57:25 PM
Surr: DNOP	115	69-147	%Rec	1	1/3/2024 8:57:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 7:02:29 PM
Surr: BFB	110	15-244	%Rec	1	1/2/2024 7:02:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 7:02:29 PM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 7:02:29 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 7:02:29 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2024 7:02:29 PM
Surr: 4-Bromofluorobenzene	91.6	39.1-146	%Rec	1	1/2/2024 7:02:29 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/8/2024 5:35:47 PM

Matrix: SOIL

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

Qualifiers:

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

*

Hamner 7

2312F11-005

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH14@5 Collection Date: 12/28/2023 11:40:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	1/3/2024 9:07:51 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/3/2024 9:07:51 PM
Surr: DNOP	115	69-147	%Rec	1	1/3/2024 9:07:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/2/2024 7:26:03 PM
Surr: BFB	121	15-244	%Rec	1	1/2/2024 7:26:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/2/2024 7:26:03 PM
Toluene	ND	0.046	mg/Kg	1	1/2/2024 7:26:03 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/2/2024 7:26:03 PM
Xylenes, Total	ND	0.092	mg/Kg	1	1/2/2024 7:26:03 PM
Surr: 4-Bromofluorobenzene	90.6	39.1-146	%Rec	1	1/2/2024 7:26:03 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/8/2024 5:48:11 PM

Matrix: SOIL

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

Qualifiers:

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

*

Hamner 7

2312F11-006

Project:

Lab ID:

Analytical Report Lab Order 2312F11

Date Reported: 1/15/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH10@7 Collection Date: 12/28/2023 11:45:00 AM Received Date: 12/29/2023 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	9.8	9.8	mg/Kg	1	1/3/2024 9:18:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2024 9:18:16 PM
Surr: DNOP	106	69-147	%Rec	1	1/3/2024 9:18:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2024 7:50:09 PM
Surr: BFB	107	15-244	%Rec	1	1/2/2024 7:50:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/2/2024 7:50:09 PM
Toluene	ND	0.048	mg/Kg	1	1/2/2024 7:50:09 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2024 7:50:09 PM
Xylenes, Total	0.16	0.096	mg/Kg	1	1/2/2024 7:50:09 PM
Surr: 4-Bromofluorobenzene	93.6	39.1-146	%Rec	1	1/2/2024 7:50:09 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/10/2024 2:35:33 PM

Matrix: SOIL

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

Qualifiers:

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

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

*

Client: Project:	HILCORF Hamner 7	ENERGY								
Sample ID:	MB-79773	SampType	mblk	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 79773			RunNo: 102317					
Prep Date:	1/8/2024	Analysis Date:	S	SeqNo: 37	78296	Units: mg/Kg	9			
Analyte Chloride			QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-79773	SampType	: Ics	Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 79773			RunNo: 102317					
Prep Date:	1/8/2024	Analysis Date:	1/8/2024	S	SeqNo: 37	78297	Units: mg/Kg	9		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	93.0	90	110			
Sample ID:	MB-79832	SampType	BLK	Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	PBS	Batch ID:	79832	RunNo: 102351						
Prep Date:	1/10/2024	Analysis Date:	1/10/2024	S	SeqNo: 37	80548	Units: mg/Kg	9		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-79832	SampType	LCS	Tes	tCode: EP	A Method	300.0: Anions			
Client ID:	LCSS	Batch ID:	79832	F	RunNo: 10	2351				
Prep Date:	1/10/2024	Analysis Date:	1/10/2024	S	SeqNo: 37	80549	Units: mg/Kg	9		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	93.8	90	110			

Qualifiers:

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

.

WO#: 2312F11 15-Jan-24

Client:	HILCORF	ENERGY	ľ								
Project:	Hamner 7										
Sample ID:	LCS-79674	SampTy	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch	ID: 796	674	F	RunNo: 102212					
Prep Date:	1/2/2024	Analysis Da	ate: 1/	3/2024	S	SeqNo: 37	773288	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	58	10	50.00	0	117	61.9	130			
Surr: DNOP		6.5		5.000		130	69	147			
Sample ID:	MB-79674	SampTy	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	PBS	Batch	ID: 796	674	F	RunNo: 1(02212				
Prep Date:	1/2/2024	Analysis Da	ate: 1/	3/2024	S	SeqNo: 37	773291	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	• • •	ND	10								
-	e Organics (MRO)	ND	50								
Surr: DNOP		12		10.00		116	69	147			
Sample ID:	LCS-79746	SampTy	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 79 7	746	F	RunNo: 1(02294				
Prep Date:	1/4/2024	Analysis Da	ate: 1/	5/2024	S	SeqNo: 37	777200	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.6		5.000		113	69	147			
Sample ID:	MB-79746	SampTy	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	PBS	Batch	ID: 797	746	F	RunNo: 1()2294				
Prep Date:	1/4/2024	Analysis Da	ate: 1/	5/2024	S	SeqNo: 37	777201	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		15		10.00		153	69	147			S

Qualifiers:

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

.

WO#: 2312F11 15-Jan-24

Client:HILCOProject:Hamner	RP ENERGY	Y								
Sample ID: Ics-79669	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range		
Client ID: LCSS	Batch ID: 79669			RunNo: 102187						
Prep Date: 12/29/2023	Analysis D	ate: 1/2	2/2024	S	SeqNo: 37	72357	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	70	130			
Surr: BFB	2000		1000		202	15	244			
Sample ID: mb-79669	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range		
Client ID: PBS	Batch	ID: 796	69	F	RunNo: 1()2187				
Prep Date: 12/29/2023	Analysis D	ate: 1/2	2/2024	S	SeqNo: 37	72358	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	990		1000		99.2	15	244			

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

.

Page 59 of 116

WO#: 2312F11 15-Jan-24

Client: Project:	HILCORP Hamner 7	ENERGY	7								
Sample ID: LCS-7	9669	SampTy	pe: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS		Batch	ID: 79	669	F	RunNo: 102187					
Prep Date: 12/2	9/2023	Analysis Da	ate: 1/	2/2024	SeqNo: 3772369			Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.025	1.000	0	90.8	70	130			
Toluene		0.92	0.050	1.000	0	92.2	70	130			
Ethylbenzene		0.93	0.050	1.000	0	92.6	70	130			
Xylenes, Total		2.8	0.10	3.000	0	93.2	70	130			
Surr: 4-Bromofluorob	enzene	0.95		1.000		95.2	39.1	146			
Sample ID: mb-79	669	SampTy	pe: ME	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS		Batch	ID: 79	669	F	RunNo: 102187					
Prep Date: 12/29	9/2023	Analysis Da	ate: 1/	2/2024	Ş	SeqNo: 37	772370	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-Bromofluorob	enzene	0.95		1.000		94.8	39.1	146			

Qualifiers:

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

Page 60 of 116

WO#:	2312F11
	15-Jan-24

🔅 eurofins

Page 61 of 116

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Websi	te: www.hallenvironmen			
Client Name: Hilcorp Energy Work Orde	er Number: 2312F11		RcptNo: 1	
Received By: Tracy Casarrubias 12/29/2023	7:00:00 AM			
Completed By: Tracy Casarrubias 12/29/2023	9:36:37 AM			
Reviewed By: 12-29-23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?	Courier			
Log In				
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗌		
4. Were all samples received at a temperature of >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. Are samples (except VOA and ONG) properly 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 broken?	Yes	No 🗹	# of preserved	
11 Daga papaguark matak katila lakala?	Yes 🔽	No 🗌	bottles checked for pH:	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	res 💌		(<2 or >12 unit	ess notea)
12. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌	1.01	2/29/2
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	No 🗌	Checked by:	1-1-02
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗸	
Person Notified:	Date:			
By Whom:	Via: 🔲 eMail 🗌	Phone 🗌 Fax	In Person	
Regarding:				
Client Instructions: Mailing address and phone num	ber are missing on CO	C - TMC 12/29/2	3	
16. Additional remarks:				
17. Cooler Information				
	al No Seal Date	Signed By		
1 1.1 Good Yes Mor		5 -,		

Received by OCD: 4/23/2024 12:00:16 AM

С	hain-	of-Cu	stody Record	Turn-A	Around Sda	Time: J					н	AL	L	Eľ	v	IR		NM	EN	ITA	L	
Client:	Hile	SCP		V Sta	andard) 🗆 Rush														FO		
Alta	M	+ - 4	Killungh		t Name						١	vww.	.hall	envi	ronn	nenta	al.co	m				
	Address		10.1.1.007	4	Han	yne 7			490	01 H	awkii	ns NI	Ε-	Alb	uque	erque	e, NN	VI 871	09			
				Projec	ct #:			1			5-34							4107				
Phone #	ų.			4									-	naly	sis I	Requ	uest					
		m k:11.	tehil corpicom	Projec	t Mana	ger:	1 11 1.		6					đ			lf)					
	Package:			1,		Stun	+ Ityde	802	MR	B's		MS	17	4,8	- 1		bse					
□ Stan	-		□ Level 4 (Full Validation)) <u></u>	lõ	PD		8270SIMS		4			nt/A					
Accredi		🗆 Az Co	mpliance	Samp	ler: 7	cece H	ensur	Į₽	TPH:8015D(GRO / DRO / MROD	8081 Pesticides/8082 PCB's	[]	827		F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄			Total Coliform (Present/Absent)					
	AC	D Other	· · · · · · · · · · · · · · · · · · ·	On Ice		Y Yes	I No morty		SRO	es/8	EDB (Method 504.1)	PAHs by 8310 or	sle	3		8270 (Semi-VOA)	n (P	1.4				
	(Type)		,		oolers:	(including CF):	±0-11 (°C)	E	D)C	ticid	thod	831	RCRA 8 Metals	Ž	(A	mi-	iforn	0				
				COOIE	i temp	(Including CF). 1	-0-11 (-1	1 to	8015	Pes	(Me	s by	A 8	ē	8260 (VOA)	(Se	S	L	7 m (*)			
				Conta		Preservative		ľθ	H	081	DB	AHS	SCR.	(260	270	otal	Hol				
	Time	Matrix	Sample Name	Type	and # すって	Туре	2312 F 11	HQ	14	8	<u> </u>		<u>r</u>	볮		00	-				+	┢─
12/23/23	11:30	50:1	Pltoge5	1,9		Cuol	001	Ķ	X	1				X			_		+			┢
	11:50		PHUC 5				002		\square			_	~			1					4'	┝
	1:34		PHILES.5				003		1			_	400								4	<u> </u>
	11:37		PH13e4			111 B 163	004										1.1				_	
	11140		PITICE				005					- 18 A	1.0				10.01			224		
V	11:45	V	* PHIVE 7			+	006	F	1		1	*****		V	141	1		X		2		
	11 15						na in 11- air															
		-		-								· · · · · ·										
				+				1	1	1				1.000								Γ
				_		Silver model and the			+	\square												
				+				+-	+	1	- Marina										\top	Τ
		<u> </u>					HORE IN THE REPORT OF THE	+	-	-		-	1.1			-	1.1				1	\uparrow
Date:	Time:	Relinquis	hed by:	Receiv	ved by:	Via:	Date Time		marl	(s:		10.00		\$	Ho	12	PH	100	7			_
phane			man		In	- Waed	12/28/23 1040	>		ne	. 5	hyd	le	•	~		έ.	Jn	n.	(0.	\sim	
Date:	Time:	Relinquis	hed by:	Receiv	ved by:	Via:Couner	Date nine	-		L	6	hun	51.		E	C	1 74			(0-		
12/1×/2	1744	PR	hatware				12/29/23 7:00				7	an	Jul -	5-17		1	14		14			

Received by OCD: 4/23/2024 12:00:16 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499 Generated 4/4/2024 4:18:54 PM

JOB DESCRIPTION

Hamner 7

JOB NUMBER

885-2004-1

EOL

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 4/4/2024 4:18:54 PM

Laboratory Job ID: 885-2004-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	23
QC Association Summary	27
Lab Chronicle	31
Certification Summary	37
Chain of Custody	38
Receipt Checklists	40

Page 66 of 116

	Definitions/Glossary		
Client: Hilcorp Project/Site: H		b ID: 885-2004-1	2
Qualifiers			3
GC VOA			J
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
Glossary			5
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		0
CNF	Contains No Free Liquid		ð
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		9
DL	Detection Limit (DoD/DOE)		
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
DLC	Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		
LOD	Limit of Detection (DoD/DOE)		
LOQ	Limit of Quantitation (DoD/DOE)		
MCL	EPA recommended "Maximum Contaminant Level"		
MDA	Minimum Detectable Activity (Radiochemistry)		
MDC	Minimum Detectable Concentration (Radiochemistry)		
MDL	Method Detection Limit		
ML	Minimum Level (Dioxin)		
MPN	Most Probable Number		
MQL	Method Quantitation Limit		
NC	Not Calculated		
ND	Not Detected at the reporting limit (or MDL or EDL if shown)		
NEG	Negative / Absent		
POS	Positive / Present		
PQL	Practical Quantitation Limit		
PRES	Presumptive		
QC	Quality Control		
RER	Relative Error Ratio (Radiochemistry)		

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

RL

RPD

TEF

TEQ

TNTC

quality control (QC) is further explained in narrative comments.

unless attributed to a dilution or otherwise noted in the narrative.

Case Narrative

Client: Hilcorp Energy Project: Hamner 7

Job ID: 885-2004-1

method.

Eurofins Albuquerque

Job ID: 885-2004-1

Job Narrative 885-2004-1

4 5 6 7 8 9 10 Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/29/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and. where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 885-2004-1

Matrix: Solid

5

Lab Sample ID: 885-2004-1

Project/Site: Hamner 7

Client Sample ID: WS01 Date Collected: 03/26/24 15:00

Client: Hilcorp Energy

Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/29/24 15:54	04/03/24 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 244			03/29/24 15:54	04/03/24 00:13	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 00:13	1
Ethylbenzene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 00:13	1
Toluene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 00:13	1
Xylenes, Total	ND		0.097	mg/Kg		03/29/24 15:54	04/03/24 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			03/29/24 15:54	04/03/24 00:13	1
Method: SW846 8015D - Diesel R	Range Organics	s (DRO) (GC	;)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/02/24 11:44	04/03/24 05:04	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/02/24 11:44	04/03/24 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	103		62 - 134			04/02/24 11:44	04/03/24 05:04	1
Di-n-octyl phthalate (Surr)	105							
		ohy						
Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp	o <mark>hy</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Method: SW846 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Result Qualifier

Qualifier

ND

111

ND

ND

ND

%Recovery

Client: Hilcorp Energy

Project/Site: Hamner 7

Analyte

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

Client Sample ID: WS02

Date Collected: 03/26/24 15:03

Date Received: 03/29/24 07:55

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

RL

5.0

RL

0.025

0.050

0.050

Limits

15 - 244

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

03/29/24 15:54

Prepared

03/29/24 15:54

Prepared

03/29/24 15:54

03/29/24 15:54

03/29/24 15:54

Job ID: 885-2004-1

Lab Sample ID: 885-2004-2

Analyzed

04/03/24 01:18

Matrix: Solid

Dil Fac

Analyzed	Dil Fac	
04/03/24 01:18	1	
Analyzed	Dil Fac	8
04/03/24 01:18	1	
04/03/24 01:18	1	9
04/03/24 01:18	1	
04/03/24 01:18	1	
	-	

Xylenes, Total	ND	0.099	mg/Kg	03/29/24 15:54	04/03/24 01:18	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	39 - 146		03/29/24 15:5	4 04/03/24 01:18	1
Method: SW846 8015D - Diesel Ra	nge Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac

2				•	•	
Diesel Range Organics [C10-C28]	ND	9.8	mg/Kg	04/02/24 11:44	04/03/24 05:28	1
Motor Oil Range Organics [C28-C40]	ND	49	mg/Kg	04/02/24 11:44	04/03/24 05:28	1
Surrogate	%Recovery Qualifie	er Limits		Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104	62 - 134		04/02/24 11:44	04/03/24 05:28	1
Method: EPA 300.0 - Anions, Ion	Chromatography					
A	Desult Ovelifie		11	D. Deserved	A	D!!

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		04/02/24 15:46	04/02/24 17:41	20

Eurofins Albuquerque

Job ID: 885-2004-1

Lab Sample ID: 885-2004-3

Matrix: Solid

5

Client Sample ID: WS03 Date Collected: 03/26/24 15:06 Date Received: 03/29/24 07:55

Client: Hilcorp Energy

Project/Site: Hamner 7

_

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/29/24 15:54	04/03/24 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			03/29/24 15:54	04/03/24 02:24	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/29/24 15:54	04/03/24 02:24	1
Ethylbenzene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 02:24	1
Toluene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 02:24	1
Xylenes, Total	ND		0.099	mg/Kg		03/29/24 15:54	04/03/24 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			03/29/24 15:54	04/03/24 02:24	1
		; (DRO) (GC				03/29/24 15:54	04/03/24 02:24	1
Method: SW846 8015D - Diesel R	ange Organics	<mark>s (DRO) (GC</mark> Qualifier		Unit	D	03/29/24 15:54 Prepared	04/03/24 02:24 Analyzed	1 Dil Fac
Method: SW846 8015D - Diesel R Analyte	ange Organics)	<mark>Unit</mark> mg/Kg	<u>D</u>			
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28]	Range Organics Result) RL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Range Organics Result ND	Qualifier) 	mg/Kg	<u> </u>	Prepared 04/02/24 11:44	Analyzed 04/03/24 05:51	Dil Fac
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Range Organics Result ND ND	Qualifier) 	mg/Kg	<u> </u>	Prepared 04/02/24 11:44 04/02/24 11:44	Analyzed 04/03/24 05:51 04/03/24 05:51	Dil Fac
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Range Organics Result ND ND %Recovery 106	Qualifier) <u></u>	mg/Kg	<u>D</u>	Prepared 04/02/24 11:44 04/02/24 11:44 Prepared	Analyzed 04/03/24 05:51 04/03/24 05:51 Analyzed	Dil Fac 1 1 Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result Result ND ND <i>%Recovery</i> 106 Chromatograp	Qualifier) <u></u>	mg/Kg	D	Prepared 04/02/24 11:44 04/02/24 11:44 Prepared	Analyzed 04/03/24 05:51 04/03/24 05:51 Analyzed	Dil Fac 1 1 Dil Fac

Job ID: 885-2004-1

Lab Sample ID: 885-2004-4

Matrix: Solid

5

Client Sample ID: WS04 Date Collected: 03/26/24 15:12 Date Received: 03/29/24 07:55

Client: Hilcorp Energy

Project/Site: Hamner 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/29/24 15:54	04/03/24 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 244			03/29/24 15:54	04/03/24 02:45	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 02:45	1
Ethylbenzene	ND		0.047	mg/Kg		03/29/24 15:54	04/03/24 02:45	1
Toluene	ND		0.047	mg/Kg		03/29/24 15:54	04/03/24 02:45	1
Xylenes, Total	ND		0.095	mg/Kg		03/29/24 15:54	04/03/24 02:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			03/29/24 15:54	04/03/24 02:45	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/02/24 11:44	04/03/24 06:14	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/02/24 11:44	04/03/24 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			04/02/24 11:44	04/03/24 06:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/02/24 15:46	04/02/24 18:55	20

5

Job ID: 885-2004-1

Lab Sample ID: 885-2004-5 Matrix: Solid

Client Sample ID: WS05 Date Collected: 03/26/24 15:15 Date Received: 03/29/24 07:55

Client: Hilcorp Energy

Project/Site: Hamner 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/29/24 15:54	04/03/24 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 244			03/29/24 15:54	04/03/24 03:07	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/29/24 15:54	04/03/24 03:07	1
Ethylbenzene	ND		0.050	mg/Kg		03/29/24 15:54	04/03/24 03:07	1
Toluene	ND		0.050	mg/Kg		03/29/24 15:54	04/03/24 03:07	1
Xylenes, Total	ND		0.099	mg/Kg		03/29/24 15:54	04/03/24 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		39 - 146			03/29/24 15:54	04/03/24 03:07	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/02/24 11:44	04/03/24 06:38	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/02/24 11:44	04/03/24 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			04/02/24 11:44	04/03/24 06:38	
	Chromotograp	hv						
Method: EPA 300.0 - Anions, Ion	Chromatograp							
Method: EPA 300.0 - Anions, Ion Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lab Sample ID: 885-2004-6

Matrix: Solid

5

Client Sample ID: WS06 Date Collected: 03/26/24 15:18 Date Received: 03/29/24 07:55

Client: Hilcorp Energy

Project/Site: Hamner 7

_

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/29/24 15:54	04/03/24 03:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			03/29/24 15:54	04/03/24 03:29	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)	l.					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		03/29/24 15:54	04/03/24 03:29	1
Ethylbenzene	ND		0.047	mg/Kg		03/29/24 15:54	04/03/24 03:29	1
Toluene	ND		0.047	mg/Kg		03/29/24 15:54	04/03/24 03:29	1
Xylenes, Total	ND		0.094	mg/Kg		03/29/24 15:54	04/03/24 03:29	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		39 - 146			03/29/24 15:54	04/03/24 03:29	
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/02/24 11:44	04/03/24 07:01	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/02/24 11:44	04/03/24 07:01	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	95		62 - 134			04/02/24 11:44	04/03/24 07:01	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	ND		60	mg/Kg		04/02/24 15:46	04/02/24 19:44	20

Client Sample Results

Job ID: 885-2004-1

Matrix: Solid

5

Lab Sample ID: 885-2004-7

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: WS06A

Date Collected: 03/26/24 15:24 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	17		4.8	mg/Kg		03/29/24 15:54	04/03/24 03:51	1
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	343	S1+	15 - 244			03/29/24 15:54	04/03/24 03:51	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 03:51	1
Ethylbenzene	ND		0.048	mg/Kg		03/29/24 15:54	04/03/24 03:51	1
Toluene	ND		0.048	mg/Kg		03/29/24 15:54	04/03/24 03:51	1
Xylenes, Total	ND		0.097	mg/Kg		03/29/24 15:54	04/03/24 03:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134		39 - 146			03/29/24 15:54	04/03/24 03:51	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	27		9.2	mg/Kg		04/02/24 11:44	04/03/24 07:25	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/02/24 11:44	04/03/24 07:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			04/02/24 11:44	04/03/24 07:25	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 885-2004-8

Matrix: Solid

5

Date Collected: 03/26/24 15:09 Date Received: 03/29/24 07:55

Client Sample ID: WS07

Client: Hilcorp Energy

Project/Site: Hamner 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/29/24 15:54	04/03/24 04:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		15 - 244			03/29/24 15:54	04/03/24 04:12	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 04:12	
Ethylbenzene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 04:12	
Toluene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 04:12	
Xylenes, Total	ND		0.098	mg/Kg		03/29/24 15:54	04/03/24 04:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	97		39 - 146			03/29/24 15:54	04/03/24 04:12	
		; (DRO) (GC				03/29/24 15:54	04/03/24 04:12	
Method: SW846 8015D - Diesel R	Range Organics	<mark>; (DRO) (GC</mark> Qualifier		Unit	D	03/29/24 15:54 Prepared	04/03/24 04:12 Analyzed	Dil Fa
Method: SW846 8015D - Diesel R Analyte	Range Organics)	Unit mg/Kg	<u>D</u>			Dil Fa
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28]	Range Organics Result) RL		D	Prepared	Analyzed	Dil Fa
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Range Organics Result ND	Qualifier) 	mg/Kg	<u> </u>	Prepared 04/02/24 11:44	Analyzed	
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Range Organics Result ND ND	Qualifier) 	mg/Kg	D	Prepared 04/02/24 11:44 04/02/24 11:44	Analyzed 04/03/24 07:48 04/03/24 07:48	
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Range Organics Result ND ND %Recovery 95	Qualifier) 	mg/Kg	<u>D</u>	Prepared 04/02/24 11:44 04/02/24 11:44 Prepared	Analyzed 04/03/24 07:48 04/03/24 07:48 Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Range Organics Result ND ND %Recovery 95 Chromatograp	Qualifier) 	mg/Kg	D	Prepared 04/02/24 11:44 04/02/24 11:44 Prepared	Analyzed 04/03/24 07:48 04/03/24 07:48 Analyzed	· · ·

Client Sample Results

Job ID: 885-2004-1

Matrix: Solid

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: WS05A

Date Collected: 03/26/24 15:21 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	18		4.9	mg/Kg		03/29/24 15:54	04/03/24 04:34	1
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	369	S1+	15 - 244			03/29/24 15:54	04/03/24 04:34	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 04:34	1
Ethylbenzene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 04:34	1
Toluene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 04:34	1
Xylenes, Total	ND		0.098	mg/Kg		03/29/24 15:54	04/03/24 04:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140		39 - 146			03/29/24 15:54	04/03/24 04:34	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.7	mg/Kg		04/02/24 11:44	04/03/24 08:12	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/02/24 11:44	04/03/24 08:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			04/02/24 11:44	04/03/24 08:12	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 885-2004-9

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: FS01

Date Collected: 03/26/24 15:27 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	110		4.8	mg/Kg		03/29/24 15:54	04/03/24 04:56	1
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	414	S1+	15 - 244			03/29/24 15:54	04/03/24 04:56	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 04:56	1
Ethylbenzene	0.36		0.048	mg/Kg		03/29/24 15:54	04/03/24 04:56	1
Toluene	ND		0.048	mg/Kg		03/29/24 15:54	04/03/24 04:56	1
Xylenes, Total	0.44		0.097	mg/Kg		03/29/24 15:54	04/03/24 04:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142		39 - 146			03/29/24 15:54	04/03/24 04:56	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34		9.0	mg/Kg		04/02/24 11:44	04/03/24 08:59	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/02/24 11:44	04/03/24 08:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			04/02/24 11:44	04/03/24 08:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 885-2004-10 Matrix: Solid 5

Client Sample Results

Job ID: 885-2004-1

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: FS02

Date Collected: 03/26/24 15:30 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	56		4.9	mg/Kg		03/29/24 15:54	04/03/24 05:39	1
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	372	S1+	15 - 244			03/29/24 15:54	04/03/24 05:39	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/29/24 15:54	04/03/24 05:39	1
Ethylbenzene	0.19		0.049	mg/Kg		03/29/24 15:54	04/03/24 05:39	1
Toluene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 05:39	1
Xylenes, Total	0.18		0.099	mg/Kg		03/29/24 15:54	04/03/24 05:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138		39 - 146			03/29/24 15:54	04/03/24 05:39	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28		8.8	mg/Kg		04/02/24 11:44	04/03/24 09:23	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/02/24 11:44	04/03/24 09:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			04/02/24 11:44	04/03/24 09:23	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 5/15/2024 2:21:06 PM

Lab Sample ID: 885-2004-11 Matrix: Solid

Matrix: Solid

Lab Sample ID: 885-2004-12

Project/Site: Hamner 7

Client: Hilcorp Energy

Client Sample ID: FS03

Date Collected: 03/26/24 15:33 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/29/24 15:54	04/03/24 06:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		15 - 244			03/29/24 15:54	04/03/24 06:01	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 06:01	1
Ethylbenzene	ND		0.047	mg/Kg		03/29/24 15:54	04/03/24 06:01	1
Toluene	ND		0.047	mg/Kg		03/29/24 15:54	04/03/24 06:01	1
Xylenes, Total	ND		0.095	mg/Kg		03/29/24 15:54	04/03/24 06:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	97		39 - 146			03/29/24 15:54	04/03/24 06:01	1
Method: SW846 8015D - Diesel R	Range Organics	(DRO) (GC)					
	• •	<mark>6 (DRO) (GC</mark> Qualifier) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •		•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result				<u>D</u>	· · · · · · · · · · · · · · · · · · ·		Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ResultND	Qualifier	RL 9.0	mg/Kg	<u>D</u>	04/02/24 11:44	04/03/24 09:46	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result ND ND	Qualifier	RL 9.0 45	mg/Kg	<u> </u>	04/02/24 11:44 04/02/24 11:44	04/03/24 09:46 04/03/24 09:46	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result ND ND %Recovery 96	Qualifier		mg/Kg	<u> </u>	04/02/24 11:44 04/02/24 11:44 Prepared	04/03/24 09:46 04/03/24 09:46 Analyzed	1
Method: SW846 8015D - Diesel R Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result ND ND KRecovery 96 Chromatograp	Qualifier		mg/Kg	<u>D</u>	04/02/24 11:44 04/02/24 11:44 Prepared	04/03/24 09:46 04/03/24 09:46 Analyzed	Dil Fac 1 1 1 Dil Fac Dil Fac

5

Job ID: 885-2004-1

Lab Sample ID: 885-2004-13

Matrix: Solid

Date Collected: 03/26/24 15:36 Date Received: 03/29/24 07:55

Client Sample ID: FS04

Client: Hilcorp Energy

Project/Site: Hamner 7

_

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/29/24 15:54	04/03/24 06:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		15 - 244			03/29/24 15:54	04/03/24 06:23	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/29/24 15:54	04/03/24 06:23	1
Ethylbenzene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 06:23	1
Toluene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 06:23	1
Xylenes, Total	ND		0.098	mg/Kg		03/29/24 15:54	04/03/24 06:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			03/29/24 15:54	04/03/24 06:23	1
Method: SW846 8015D - Diesel R	ange Organics	6 (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		8.7	mg/Kg		04/02/24 11:44	04/03/24 10:10	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/02/24 11:44	04/03/24 10:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			04/02/24 11:44	04/03/24 10:10	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/02/24 15:46	04/02/24 21:35	20

Lab Sample ID: 885-2004-14

Matrix: Solid

5

Date Collected: 03/26/24 15:39 Date Received: 03/29/24 07:55

Client Sample ID: FS05

Client: Hilcorp Energy

Project/Site: Hamner 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/29/24 15:54	04/03/24 06:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		15 - 244			03/29/24 15:54	04/03/24 06:45	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 06:45	1
Ethylbenzene	ND		0.048	mg/Kg		03/29/24 15:54	04/03/24 06:45	1
Toluene	ND		0.048	mg/Kg		03/29/24 15:54	04/03/24 06:45	1
Xylenes, Total	ND		0.097	mg/Kg		03/29/24 15:54	04/03/24 06:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			03/29/24 15:54	04/03/24 06:45	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/02/24 11:44	04/03/24 10:34	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/02/24 11:44	04/03/24 10:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			04/02/24 11:44	04/03/24 10:34	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
,								

Matrix: Solid

5

Lab Sample ID: 885-2004-15

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: FS06

Date Collected: 03/26/24 15:42 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	11		4.9	mg/Kg		03/29/24 15:54	04/03/24 07:06	1
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	190		15 - 244			03/29/24 15:54	04/03/24 07:06	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/29/24 15:54	04/03/24 07:06	1
Ethylbenzene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 07:06	1
Toluene	ND		0.049	mg/Kg		03/29/24 15:54	04/03/24 07:06	1
Xylenes, Total	ND		0.098	mg/Kg		03/29/24 15:54	04/03/24 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		39 - 146			03/29/24 15:54	04/03/24 07:06	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		04/02/24 11:44	04/03/24 10:57	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/02/24 11:44	04/03/24 10:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			04/02/24 11:44	04/03/24 10:57	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Rooun		••=				· ···· /	

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: FS07

Date Collected: 03/26/24 15:45 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 -	5.3		4.6	mg/Kg		03/29/24 15:54	04/03/24 07:28	1
C10]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140		15 - 244			03/29/24 15:54	04/03/24 07:28	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	l.					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		03/29/24 15:54	04/03/24 07:28	1
Ethylbenzene	ND		0.046	mg/Kg		03/29/24 15:54	04/03/24 07:28	1
Toluene	ND		0.046	mg/Kg		03/29/24 15:54	04/03/24 07:28	1
Xylenes, Total	ND		0.093	mg/Kg		03/29/24 15:54	04/03/24 07:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		39 - 146			03/29/24 15:54	04/03/24 07:28	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		04/02/24 11:44	04/03/24 11:21	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/02/24 11:44	04/03/24 11:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			04/02/24 11:44	04/03/24 11:21	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/02/24 15:46	04/02/24 22:12	20

Lab Sample ID: 885-2004-16 Matrix: Solid

Matrix: Solid

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: FS08

Date Collected: 03/26/24 15:48 Date Received: 03/29/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/29/24 15:54	04/03/24 07:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		15 - 244			03/29/24 15:54	04/03/24 07:50	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/29/24 15:54	04/03/24 07:50	1
Ethylbenzene	ND		0.048	mg/Kg		03/29/24 15:54	04/03/24 07:50	1
Toluene	ND		0.048	mg/Kg		03/29/24 15:54	04/03/24 07:50	1
Xylenes, Total	ND		0.096	mg/Kg		03/29/24 15:54	04/03/24 07:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		39 - 146			03/29/24 15:54	04/03/24 07:50	1
Method: SW846 8015D - Diesel R	Range Organics	s (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/02/24 11:44	04/03/24 11:45	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/02/24 11:44	04/03/24 11:45	1
		Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Quanner						
<u>,</u>	% Recovery	guanner	62 - 134			04/02/24 11:44	04/03/24 11:45	1
Di-n-octyl phthalate (Surr)	103		62 - 134			04/02/24 11:44	04/03/24 11:45	1
Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	103 Chromatograp		62 - 134 RL	Unit	D	04/02/24 11:44 Prepared	04/03/24 11:45 Analyzed	ז Dil Fac

4/4/2024

5 6 7

Job ID: 885-2004-1

Client: Hilcorp Energy Project/Site: Hamner 7

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-2523/1-	A								Client S	Sample ID:		
Matrix: Solid											Гуре: Т	
Analysis Batch: 2726										Pre	p Batc	h: 252
		MB MB										
Analyte	R	esult Qualifier		RL	Unit		<u>D</u>		repared	Analyz		Dil Fa
Gasoline Range Organics [C6 - C10]		ND	5	.0	mg/k	ζg		03/2	29/24 15:54	4 04/02/24	23:51	
		MB MB										
Surrogate	%Reco	overy Qualifier	Limits					P	Prepared	Analyz	zed	Dil Fa
4-Bromofluorobenzene (Surr)		110	15 - 244					03/2	29/24 15:5	4 04/02/24	23:51	
Lab Sample ID: LCS 885-2523/2	- A						c	lient	t Sample	e ID: Lab Co	ontrol	Sampl
Matrix: Solid									•		Гуре: Т	
Analysis Batch: 2726											p Batc	
-			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 - C10]			25.0	24.6		mg/Kg			99	70 - 130		
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	221		15 - 244									
Lab Sample ID: 885-2004-1 MS										Client San		
Matrix: Solid											Type: T	
Analysis Batch: 2726	0	0	0 11								p Batc	n: 252
Analysis		Sample	Spike	MS		11				%Rec		
Analyte	ND	Qualifier	Added	22.1	Qualifier	Unit		_ <u>D</u>	%Rec 90	Limits 70 - 130		
Gasoline Range Organics [C6 - C10]	ND		24.5	22.1		mg/Kg			90	70 - 130		
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	216		15 - 244									
Lab Sample ID: 885-2004-1 MSD)									Client San	nple ID	: WS0
Matrix: Solid										Prep 1	Гуре: Т	otal/N
Analysis Batch: 2726										Pre	p Batc	h: 252
	Sample	Sample	Spike	MSD	MSD					%Rec		RP
Analyte	Result	Qualifier	Added		Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics [C6 - C10]	ND		24.6	23.0		mg/Kg			93	70 - 130	4	2
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	223		15 - 244									
Nethod: 8021B - Volatile Or	ganic Co	mpounds	(GC)									
Lab Sample ID: MB 885-2518/1-/	Α								Client S	Sample ID:	Metho	d Blan
Matrix: Solid											Гуре: Т	
Analysis Batch: 2731											p Batc	
		MB MB									•	
Analyte	R	esult Qualifier	R	RL	Unit		D	Р	repared	Analyz	zed	Dil Fa
Benzene		ND	0.02	25	mg/k	ίg	_	03/2	29/24 14:08	8 04/02/24	12:57	

Eurofins Albuquerque

04/02/24 12:57

04/02/24 12:57

Ethylbenzene

Toluene

0.050

0.050

mg/Kg

mg/Kg

03/29/24 14:08

03/29/24 14:08

ND

ND

1

QC Sample Results

Client: Hilcorp Energy Project/Site: Hamner 7 Job ID: 885-2004-1

1 an Samnie III. MR 885-2518/1-	Δ									Client S	ample ID: Metho	d Blank
Lab Sample ID: MB 885-2518/1- Matrix: Solid	^									chefit 5	Prep Type:	
Analysis Batch: 2731											Prep Bate	
Analysis Datch. 2751		ИВ	мв								Fiep Date	
Analysis				Ы		11				u a u a u a d	A ma huma d	
Analyte			Qualifier			Unit		<u>D</u>		repared	Analyzed	Dil Fac
Xylenes, Total		١D		0.10		mg/K	g 		03/2	9/24 14:08	04/02/24 12:57	
	1	ИВ	МВ									
Surrogate	%Recov	erv	Qualifier	Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		93		39 - 146						9/24 14:08		1
Lab Sample ID: MB 885-2523/1-	Α									Client S	ample ID: Metho	d Blank
Matrix: Solid											Prep Type:	Fotal/NA
Analysis Batch: 2731											Prep Bate	ch: 2523
	I	ИB	MB									
Analyte	Res	ult	Qualifier	RL		Unit		D	Р	repared	Analyzed	Dil Fac
Benzene	I	١D		0.025		mg/K	g	_	03/2	9/24 15:54	04/02/24 23:51	1
Ethylbenzene	1	١D		0.050		mg/K	g		03/2	9/24 15:54	04/02/24 23:51	1
Toluene	1	١D		0.050		mg/K	-			9/24 15:54		1
Xylenes, Total		ND		0.10		mg/K			03/2	9/24 15:54	04/02/24 23:51	1
						0	0					
_			MB									
Surrogate	%Recov		Qualifier	Limits						repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		97		39 - 146					03/2	29/24 15:54	04/02/24 23:51	1
Lab Sample ID: LCS 885-2523/3 Matrix: Solid Analysis Batch: 2731										, i	ID: Lab Control Prep Type: Prep Bate	Total/NA
				Spike	LCS	LCS					%Rec	
Analyte				Added	Result	Qualifier	Unit		D	a/ B		
• *									U	%Rec	Limits	
				1.00	0.932		mg/Kg			93	Limits 70 _ 130	
Benzene Ethylbenzene				1.00 1.00			mg/Kg mg/Kg					
Benzene Ethylbenzene					0.932					93	70 - 130	
Benzene Ethylbenzene Toluene				1.00	0.932 0.935		mg/Kg			93 93	70 - 130 70 - 130	
Benzene	LCS I	.CS		1.00 1.00	0.932 0.935 0.968		mg/Kg mg/Kg			93 93 97	70 - 130 70 - 130 70 - 130	
Benzene Ethylbenzene Toluene Xylenes, Total	LCS L %Recovery (.CS Quali	fier	1.00 1.00	0.932 0.935 0.968		mg/Kg mg/Kg		_ <u>_</u>	93 93 97	70 - 130 70 - 130 70 - 130	
Benzene Ethylbenzene Toluene Xylenes, Total Surrogate			fier	1.00 1.00 3.00	0.932 0.935 0.968		mg/Kg mg/Kg			93 93 97	70 - 130 70 - 130 70 - 130	
Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	%Recovery		fier	1.00 1.00 3.00 <i>Limits</i>	0.932 0.935 0.968		mg/Kg mg/Kg		_ <u>_</u>	93 93 97	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	
Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2004-2 MS	%Recovery		fier	1.00 1.00 3.00 <i>Limits</i>	0.932 0.935 0.968		mg/Kg mg/Kg			93 93 97	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid	%Recovery		fier	1.00 1.00 3.00 <i>Limits</i>	0.932 0.935 0.968		mg/Kg mg/Kg		_ <u> </u>	93 93 97	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type:	Total/NA
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid	%Recovery		fier	1.00 1.00 3.00 <i>Limits</i>	0.932 0.935 0.968		mg/Kg mg/Kg			93 93 97	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Fotal/NA
Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2004-2 MS	%Recovery	Quali		1.00 1.00 3.00 <i>Limits</i>	0.932 0.935 0.968 2.83	MS	mg/Kg mg/Kg			93 93 97	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type:	Total/NA
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid Analysis Batch: 2731	%Recovery 0 99	Quali Samp	le	1.00 1.00 3.00 <i>Limits</i> 39 - 146	0.932 0.935 0.968 2.83	MS Qualifier	mg/Kg mg/Kg			93 93 97	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type: ⁻ Prep Bate	Fotal/NA
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid Analysis Batch: 2731 Analyte	%Recovery 99	Quali Samp	le	1.00 1.00 3.00 <i>Limits</i> 39 - 146 Spike	0.932 0.935 0.968 2.83		mg/Kg mg/Kg mg/Kg			93 93 97 94	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type: Prep Bate %Rec	Fotal/NA
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid Analysis Batch: 2731 Analyte Benzene	%Recovery 0 99 Sample 5 Result 0	Quali Samp	le	1.00 1.00 3.00 <i>Limits</i> 39 - 146 Spike Added	0.932 0.935 0.968 2.83 MS Result		mg/Kg mg/Kg mg/Kg Unit			93 93 97 94	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type: Prep Bate %Rec Limits	Fotal/NA
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid Analysis Batch: 2731 Analyte Benzene Ethylbenzene	%Recovery 0 99 99 Sample Sample Result 0 ND 100	Quali Samp	le	1.00 1.00 3.00 <i>Limits</i> 39 - 146 Spike Added 0.997	0.932 0.935 0.968 2.83 MS Result 0.902		mg/Kg mg/Kg mg/Kg			93 93 97 94 %Rec 90	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type: " Prep Bate %Rec Limits 70 - 130	Fotal/N
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid Analysis Batch: 2731 Analyte Benzene Ethylbenzene Toluene	%Recovery 0 99 99 Sample S Result 0 ND ND	Quali Samp	le	1.00 1.00 3.00 <i>Limits</i> 39 - 146 Spike Added 0.997 0.997	0.932 0.935 0.968 2.83 MS Result 0.902 0.919		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg			93 93 97 94 94 %Rec 90 92	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type: Prep Bate %Rec Limits 70 - 130 70 - 130	Fotal/N
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> Lab Sample ID: 885-2004-2 MS Matrix: Solid	%Recovery 0 99 99 Sample S Result 0 ND ND ND ND ND ND ND ND	Quali Samp	le	1.00 1.00 3.00 <i>Limits</i> 39 - 146 Spike Added 0.997 0.997 0.997	0.932 0.935 0.968 2.83 MS Result 0.902 0.919 0.907		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg			93 93 97 94 94 <u>%Rec</u> 90 92 91	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type: Prep Bate %Rec Limits 70 - 130 70 - 130 70 - 130	Total/NA
Benzene Ethylbenzene Toluene Xylenes, Total <i>Surrogate</i> 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2004-2 MS Matrix: Solid Analysis Batch: 2731 Analyte Benzene Ethylbenzene Toluene	%Recovery 0 99 99 Sample S Result 0 ND ND ND ND ND ND ND MS	Quali Gamp Quali	le fier	1.00 1.00 3.00 <i>Limits</i> 39 - 146 Spike Added 0.997 0.997 0.997	0.932 0.935 0.968 2.83 MS Result 0.902 0.919 0.907		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg			93 93 97 94 94 <u>%Rec</u> 90 92 91	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Client Sample II Prep Type: Prep Bate %Rec Limits 70 - 130 70 - 130 70 - 130	Fotal/NA

QC Sample Results

Page 87 of 116

Job ID: 885-2004-1

Client: Hilcorp Energy Project/Site: Hamner 7

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-2004-2	MSD								Client San	nple ID:	WS02
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 2731									Pre	p Batch	: 2523
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.987	0.887		mg/Kg		90	70 - 130	2	20
Ethylbenzene	ND		0.987	0.908		mg/Kg		92	70 - 130	1	20
Toluene	ND		0.987	0.892		mg/Kg		90	70 - 130	2	20
Xylenes, Total	ND		2.96	2.73		mg/Kg		92	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		39 - 146								

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-2643/1-4	A											Client Sa	ample ID: Metho	
Matrix: Solid													Prep Type:	
Analysis Batch: 2747													Prep Bate	ch: 2643
		MB	MB											
Analyte	R		Qualifier		RL			nit		D		repared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]		ND			10			g/Kg				2/24 11:44	04/03/24 04:17	1
Motor Oil Range Organics [C28-C40]		ND			50		mę	g/Kg			04/0	2/24 11:44	04/03/24 04:17	1
		ΜВ	МВ											
Surrogate	%Reco	overy	Qualifier	Limits							P	repared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)		101		62 - 13	4						04/0	02/24 11:44	04/03/24 04:17	1
- Lab Sample ID: LCS 885-2643/2-	A									С	lient	Sample	ID: Lab Control	Sample
Matrix: Solid													Prep Type: 1	
Analysis Batch: 2747													Prep Bate	
				Spike		LCS	LCS						%Rec	
Analyte				Added	R	esult	Qualifie	r	Unit		D	%Rec	Limits	
Diesel Range Organics				50.0		46.9			mg/Kg			94	60 - 135	
[C10-C28]														
	LCS	LCS												
Surrogate	%Recovery	Qua	lifier	Limits										
Di-n-octyl phthalate (Surr)	95			62 - 134										
Lab Sample ID: 885-2004-17 MS													Client Sample I	D: FS08
Matrix: Solid													Prep Type: 1	Total/NA
Analysis Batch: 2747													Prep Bate	ch: 2643
-	Sample	Sam	ple	Spike		MS	MS						%Rec	
Analyte	Result	Qua	lifier	Added	R	esult	Qualifie	r	Unit		D	%Rec	Limits	
Diesel Range Organics	ND			47.5		46.5			mg/Kg		_	98	44 - 136	
[C10-C28]														
	MS	мs												
Surrogate	%Recovery	Qua	lifier	Limits										
Di-n-octyl phthalate (Surr)	95			62 - 134										

Released to Imaging: 5/15/2024 2:21:06 PM

Client: Hilcorp Energy Project/Site: Hamner 7

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-2004-17 MS Matrix: Solid	SD.								Client Sa Prep 1	mple ID: Type: To	
Analysis Batch: 2747										p Batch	
Analysis Baten. 2141	Sample	Sample	Spike	MSD	MSD				%Rec	p Baton	RPI
Analyta		•	Added		Qualifier	Unit		% Baa	Limits	RPD	
Analyte		Qualifier					D				Limi
Diesel Range Organics [C10-C28]	ND		46.9	47.3		mg/Kg		101	44 - 136	2	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
Di-n-octyl phthalate (Surr)	98		62 - 134								
lethod: 300.0 - Anions, Ion	Chromat	ography									
Lab Sample ID: MB 885-2669/1-	Δ							Client S	Sample ID:	Method	Blan
Matrix: Solid										Гуре: То	
Analysis Batch: 2687										p Batch	
Analysis Batch. 2007		MB MB							FIG	p Datch	. 200
Analista	_				1114			Description	A		DH E-
Analyte	R	esult Qualifier		RL	Unit			Prepared	Analyz		Dil Fa
Chloride		ND		1.5	mg/k	'n	04	/02/24 15:46	6 04/02/24	17:04	
Lab Sample ID: LCS 885-2669/2	- A						Clie	nt Sample	ID: Lab C	ontrol S	ample
Matrix: Solid									Prep 1	Гуре: To	tal/N/
Analysis Batch: 2687									Pre	p Batch	: 266
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			15.0	13.8		mg/Kg		92	90 - 110		
Lab Sample ID: 885-2004-3 MS									Client Sar	nnio ID:	WS0.
Matrix: Solid											
										Type: To	
Analysis Batch: 2687	0	0	0							p Batch	200
	•	Sample	Spike		MS		_	~ ~	%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D		Limits		
Chloride	ND		30.1	73.7		mg/Kg		NC	50 - 150		
Lab Sample ID: 885-2004-3 MSE	0								Client Sar	nple ID:	WS0
Matrix: Solid									Prep 1	Гуре: То	tal/N/
Analysis Batch: 2687										p Batch	
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Chloride	ND	··	29.9	74.4		mg/Kg	=	NC	50 - 150	1	2
Lab Sample ID: 885-2004-4 MS									Client Sar		Wen
Matrix: Solid										Type: To	
Analysis Batch: 2687		•								p Batch	: 266
		Sample	Spike		MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D		Limits		
	ND		30.0	65.2		mg/Kg		NC	50 - 150		
	ND										
Chloride									Client Sar	nple ID:	WSO
Chloride Lab Sample ID: 885-2004-4 MSE										nple ID: Type: To	
Chloride Lab Sample ID: 885-2004-4 MSE Matrix: Solid									Prep 1	Гуре: То	tal/N/
Chloride Lab Sample ID: 885-2004-4 MSE Matrix: Solid Analysis Batch: 2687	0	Sample	Spike	MSD	MSD				Prep 1		tal/N/
Chloride Lab Sample ID: 885-2004-4 MSE Matrix: Solid) Sample	Sample Qualifier	Spike Added		MSD Qualifier	Unit	D	%Rec	Prep 1 Pre	Гуре: То	tal/N/

Client: Hilcorp Energy Project/Site: Hamner 7 Job ID: 885-2004-1

GC VOA

GC VOA					
Prep Batch: 2518					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-2518/1-A	Method Blank	Total/NA	Solid	5030C	
Prep Batch: 2523					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2004-1	WS01	Total/NA	Solid	5030C	
885-2004-2	WS02	Total/NA	Solid	5030C	
885-2004-3	WS03	Total/NA	Solid	5030C	
885-2004-4	WS04	Total/NA	Solid	5030C	
885-2004-5	WS05	Total/NA	Solid	5030C	
885-2004-6	WS06	Total/NA	Solid	5030C	
885-2004-7	WS06A	Total/NA	Solid	5030C	
885-2004-8	WS07	Total/NA	Solid	5030C	
885-2004-9	WS05A	Total/NA	Solid	5030C	
885-2004-10	FS01	Total/NA	Solid	5030C	
885-2004-11	FS02	Total/NA	Solid	5030C	
885-2004-12	FS03	Total/NA	Solid	5030C	
885-2004-13	FS04	Total/NA	Solid	5030C	
885-2004-14	FS05	Total/NA	Solid	5030C	

885-2004-12	FS03	Total/NA	Solid	5030C	
885-2004-13	FS04	Total/NA	Solid	5030C	
885-2004-14	FS05	Total/NA	Solid	5030C	
885-2004-15	FS06	Total/NA	Solid	5030C	
885-2004-16	FS07	Total/NA	Solid	5030C	
885-2004-17	FS08	Total/NA	Solid	5030C	
MB 885-2523/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-2523/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-2523/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-2004-1 MS	WS01	Total/NA	Solid	5030C	
885-2004-1 MSD	WS01	Total/NA	Solid	5030C	
885-2004-2 MS	WS02	Total/NA	Solid	5030C	
885-2004-2 MSD	WS02	Total/NA	Solid	5030C	

Analysis Batch: 2726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2004-1	WS01	Total/NA	Solid	8015D	2523
885-2004-2	WS02	Total/NA	Solid	8015D	2523
885-2004-3	WS03	Total/NA	Solid	8015D	2523
885-2004-4	WS04	Total/NA	Solid	8015D	2523
885-2004-5	WS05	Total/NA	Solid	8015D	2523
885-2004-6	WS06	Total/NA	Solid	8015D	2523
885-2004-7	WS06A	Total/NA	Solid	8015D	2523
885-2004-8	WS07	Total/NA	Solid	8015D	2523
885-2004-9	WS05A	Total/NA	Solid	8015D	2523
885-2004-10	FS01	Total/NA	Solid	8015D	2523
885-2004-11	FS02	Total/NA	Solid	8015D	2523
885-2004-12	FS03	Total/NA	Solid	8015D	2523
885-2004-13	FS04	Total/NA	Solid	8015D	2523
885-2004-14	FS05	Total/NA	Solid	8015D	2523
885-2004-15	FS06	Total/NA	Solid	8015D	2523
885-2004-16	FS07	Total/NA	Solid	8015D	2523
885-2004-17	FS08	Total/NA	Solid	8015D	2523
MB 885-2523/1-A	Method Blank	Total/NA	Solid	8015D	2523
LCS 885-2523/2-A	Lab Control Sample	Total/NA	Solid	8015D	2523
885-2004-1 MS	WS01	Total/NA	Solid	8015D	2523

Client: Hilcorp Energy Project/Site: Hamner 7 Job ID: 885-2004-1

Page 90 of 116

GC VOA (Continued)

Analysis Batch: 2726 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2004-1 MSD	WS01	Total/NA	Solid	8015D	2523
Analysis Batch: 2731					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2004-1	WS01	Total/NA	Solid	8021B	2523
885-2004-2	WS02	Total/NA	Solid	8021B	2523
885-2004-3	WS03	Total/NA	Solid	8021B	2523
885-2004-4	WS04	Total/NA	Solid	8021B	2523
885-2004-5	WS05	Total/NA	Solid	8021B	2523
885-2004-6	WS06	Total/NA	Solid	8021B	2523
885-2004-7	WS06A	Total/NA	Solid	8021B	2523
885-2004-8	WS07	Total/NA	Solid	8021B	2523
885-2004-9	WS05A	Total/NA	Solid	8021B	2523
885-2004-10	FS01	Total/NA	Solid	8021B	2523
885-2004-11	FS02	Total/NA	Solid	8021B	2523
885-2004-12	FS03	Total/NA	Solid	8021B	2523
885-2004-13	FS04	Total/NA	Solid	8021B	2523
885-2004-14	FS05	Total/NA	Solid	8021B	2523
885-2004-15	FS06	Total/NA	Solid	8021B	2523
885-2004-16	FS07	Total/NA	Solid	8021B	2523
885-2004-17	FS08	Total/NA	Solid	8021B	2523
MB 885-2518/1-A	Method Blank	Total/NA	Solid	8021B	2518
MB 885-2523/1-A	Method Blank	Total/NA	Solid	8021B	2523
LCS 885-2523/3-A	Lab Control Sample	Total/NA	Solid	8021B	2523
885-2004-2 MS	WS02	Total/NA	Solid	8021B	2523
885-2004-2 MSD	WS02	Total/NA	Solid	8021B	2523

GC Semi VOA

Prep Batch: 2643

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2004-1	WS01	Total/NA	Solid	SHAKE	
885-2004-2	WS02	Total/NA	Solid	SHAKE	
885-2004-3	WS03	Total/NA	Solid	SHAKE	
885-2004-4	WS04	Total/NA	Solid	SHAKE	
885-2004-5	WS05	Total/NA	Solid	SHAKE	
885-2004-6	WS06	Total/NA	Solid	SHAKE	
885-2004-7	WS06A	Total/NA	Solid	SHAKE	
885-2004-8	WS07	Total/NA	Solid	SHAKE	
885-2004-9	WS05A	Total/NA	Solid	SHAKE	
885-2004-10	FS01	Total/NA	Solid	SHAKE	
885-2004-11	FS02	Total/NA	Solid	SHAKE	
885-2004-12	FS03	Total/NA	Solid	SHAKE	
885-2004-13	FS04	Total/NA	Solid	SHAKE	
885-2004-14	FS05	Total/NA	Solid	SHAKE	
885-2004-15	FS06	Total/NA	Solid	SHAKE	
885-2004-16	FS07	Total/NA	Solid	SHAKE	
885-2004-17	FS08	Total/NA	Solid	SHAKE	
MB 885-2643/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-2643/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2004-17 MS	FS08	Total/NA	Solid	SHAKE	

Client: Hilcorp Energy Project/Site: Hamner 7

GC Semi VOA (Continued)

Prep Batch: 2643 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2004-17 MSD	FS08	Total/NA	Solid	SHAKE	

Analysis Batch: 2747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2004-1	WS01	Total/NA	Solid	8015D	2643
885-2004-2	WS02	Total/NA	Solid	8015D	2643
885-2004-3	WS03	Total/NA	Solid	8015D	2643
885-2004-4	WS04	Total/NA	Solid	8015D	2643
885-2004-5	WS05	Total/NA	Solid	8015D	2643
885-2004-6	WS06	Total/NA	Solid	8015D	2643
885-2004-7	WS06A	Total/NA	Solid	8015D	2643
885-2004-8	WS07	Total/NA	Solid	8015D	2643
885-2004-9	WS05A	Total/NA	Solid	8015D	2643
885-2004-10	FS01	Total/NA	Solid	8015D	2643
885-2004-11	FS02	Total/NA	Solid	8015D	2643
885-2004-12	FS03	Total/NA	Solid	8015D	2643
885-2004-13	FS04	Total/NA	Solid	8015D	2643
885-2004-14	FS05	Total/NA	Solid	8015D	2643
885-2004-15	FS06	Total/NA	Solid	8015D	2643
885-2004-16	FS07	Total/NA	Solid	8015D	2643
885-2004-17	FS08	Total/NA	Solid	8015D	2643
MB 885-2643/1-A	Method Blank	Total/NA	Solid	8015D	2643
LCS 885-2643/2-A	Lab Control Sample	Total/NA	Solid	8015D	2643
885-2004-17 MS	FS08	Total/NA	Solid	8015D	2643
885-2004-17 MSD	FS08	Total/NA	Solid	8015D	2643

HPLC/IC

Prep Batch: 2669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-2004-1	WS01	Total/NA	Solid	300_Prep	
885-2004-2	WS02	Total/NA	Solid	300_Prep	
885-2004-3	WS03	Total/NA	Solid	300_Prep	
885-2004-4	WS04	Total/NA	Solid	300_Prep	
885-2004-5	WS05	Total/NA	Solid	300_Prep	
885-2004-6	WS06	Total/NA	Solid	300_Prep	
885-2004-7	WS06A	Total/NA	Solid	300_Prep	
885-2004-8	WS07	Total/NA	Solid	300_Prep	
885-2004-9	WS05A	Total/NA	Solid	300_Prep	
885-2004-10	FS01	Total/NA	Solid	300_Prep	
885-2004-11	FS02	Total/NA	Solid	300_Prep	
885-2004-12	FS03	Total/NA	Solid	300_Prep	
885-2004-13	FS04	Total/NA	Solid	300_Prep	
885-2004-14	FS05	Total/NA	Solid	300_Prep	
885-2004-15	FS06	Total/NA	Solid	300_Prep	
885-2004-16	FS07	Total/NA	Solid	300_Prep	
885-2004-17	FS08	Total/NA	Solid	300_Prep	
MB 885-2669/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-2669/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-2004-3 MS	WS03	Total/NA	Solid	300_Prep	
885-2004-3 MSD	WS03	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

Page 91 of 116

Job ID: 885-2004-1

Client: Hilcorp Energy Project/Site: Hamner 7

HPLC/IC (Continued)

Prep Batch: 2669 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2004-4 MS	WS04	Total/NA	Solid	300_Prep	
885-2004-4 MSD	WS04	Total/NA	Solid	300_Prep	

Analysis Batch: 2687

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2004-1	WS01	Total/NA	Solid	300.0	2669
885-2004-2	WS02	Total/NA	Solid	300.0	2669
885-2004-3	WS03	Total/NA	Solid	300.0	2669
885-2004-4	WS04	Total/NA	Solid	300.0	2669
885-2004-5	WS05	Total/NA	Solid	300.0	2669
885-2004-6	WS06	Total/NA	Solid	300.0	2669
885-2004-7	WS06A	Total/NA	Solid	300.0	2669
885-2004-8	WS07	Total/NA	Solid	300.0	2669
885-2004-9	WS05A	Total/NA	Solid	300.0	2669
885-2004-10	FS01	Total/NA	Solid	300.0	2669
885-2004-11	FS02	Total/NA	Solid	300.0	2669
885-2004-12	FS03	Total/NA	Solid	300.0	2669
885-2004-13	FS04	Total/NA	Solid	300.0	2669
885-2004-14	FS05	Total/NA	Solid	300.0	2669
885-2004-15	FS06	Total/NA	Solid	300.0	2669
885-2004-16	FS07	Total/NA	Solid	300.0	2669
885-2004-17	FS08	Total/NA	Solid	300.0	2669
MB 885-2669/1-A	Method Blank	Total/NA	Solid	300.0	2669
LCS 885-2669/2-A	Lab Control Sample	Total/NA	Solid	300.0	2669
885-2004-3 MS	WS03	Total/NA	Solid	300.0	2669
885-2004-3 MSD	WS03	Total/NA	Solid	300.0	2669
885-2004-4 MS	WS04	Total/NA	Solid	300.0	2669
885-2004-4 MSD	WS04	Total/NA	Solid	300.0	2669

Job ID: 885-2004-1

Matrix: Solid

Lab Sample ID: 885-2004-1

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: WS01 Date Collected: 03/26/24 15:00

Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 00:13
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 00:13
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 05:04
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 17:28

Client Sample ID: WS02

Date Collected: 03/26/24 15:03 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 01:18
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 01:18
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 05:28
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 17:41

Client Sample ID: WS03

Date Collected: 03/26/24 15:06 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 02:24
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 02:24
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 05:51
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 18:18

Client Sample ID: WS04

Date Collected: 03/26/24 15:12 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 02:45

Lab Sample ID: 885-2004-2

Lab Sample ID: 885-2004-3

Lab Sample ID: 885-2004-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 885-2004-1

Lab Sample ID: 885-2004-4

Lab Sample ID: 885-2004-5

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: WS04 Date Collected: 03/26/24 15:12

Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 02:45
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 06:14
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 18:55

Client Sample ID: WS05 Date Collected: 03/26/24 15:15

Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 03:07
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 03:07
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 06:38
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 19:32

Client Sample ID: WS06 Date Collected: 03/26/24 15:18

Date Received: 03/29/24 07:55

Lab Sample	ID:	885-2004-6
------------	-----	------------

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 03:29
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 03:29
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 07:01
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 19:44

Client Sample ID: WS06A

Date Collected: 03/26/24 15:24 Date Received: 03/29/24 07:55

-	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 03:51
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 03:51

Eurofins Albuquerque

Matrix: Solid

Matrix: Solid

5

8

Lab Sample ID: 885-2004-7

Lab Chronicle

Job ID: 885-2004-1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 885-2004-7

Lab Sample ID: 885-2004-8

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: WS06A Date Collected: 03/26/24 15:24

Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 07:25
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 19:56

Client Sample ID: WS07 Date Collected: 03/26/24 15:09 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
lotal/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
lotal/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 04:12
īotal/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
īotal/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 04:12
īotal/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
otal/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 07:48
īotal/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
otal/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 20:09

Client Sample ID: WS05A

Date Collected: 03/26/24 15:21 Date Received: 03/29/24 07:55 Lab Sample ID: 885-2004-9 Matrix: Solid

Lab Sample ID: 885-2004-10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 04:34
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 04:34
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 08:12
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 20:46

Client Sample ID: FS01

Date Collected: 03/26/24 15:27 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 04:56
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 04:56
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 08:59

Eurofins Albuquerque

Lab Chronicle

Job ID: 885-2004-1

Lab Sample ID: 885-2004-11

Lab Sample ID: 885-2004-12

Lab Sample ID: 885-2004-13

	8		3
		9	

Lab Sample ID: 885-2004-10

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Project/Site: Hamner 7 **Client Sample ID: FS01**

Client: Hilcorp Energy

Date Collected: 03/26/24 15:27 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 20:58

Client Sample ID: FS02

Date Collected: 03/26/24 15:30 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 05:39
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 05:39
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 09:23
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 21:10

Client Sample ID: FS03 Date Collected: 03/26/24 15:33 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 06:01
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 06:01
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 09:46
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 21:23

Client Sample ID: FS04 Date Collected: 03/26/24 15:36 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 06:23
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 06:23
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 10:10
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 21:35

Lab Sample ID: 885-2004-14

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: FS05 Date Collected: 03/26/24 15:39

Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 06:45
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 06:45
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 10:34
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 21:47

Lab Sample ID: 885-2004-15

Lab Sample ID: 885-2004-16

Lab Sample ID: 885-2004-17

Matrix: Solid

Matrix: Solid

Client Sample ID: FS06

Date Collected: 03/26/24 15:42 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 07:06
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 07:06
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 10:57
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 22:00

Client Sample ID: FS07

Date Collected: 03/26/24 15:45 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 07:28
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 07:28
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 11:21
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 22:12

Client Sample ID: FS08

Date Collected: 03/26/24 15:48 Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8015D		1	2726	RA	EET ALB	04/03/24 07:50

Eurofins Albuquerque

Matrix: Solid

5

8

Matrix: Solid

Client: Hilcorp Energy Project/Site: Hamner 7

Client Sample ID: FS08 Date Collected: 03/26/24 15:48

Date Received: 03/29/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			2523	IMR	EET ALB	03/29/24 15:54
Total/NA	Analysis	8021B		1	2731	RA	EET ALB	04/03/24 07:50
Total/NA	Prep	SHAKE			2643	JU	EET ALB	04/02/24 11:44
Total/NA	Analysis	8015D		1	2747	JU	EET ALB	04/03/24 11:45
Total/NA	Prep	300_Prep			2669	KB	EET ALB	04/02/24 15:46
Total/NA	Analysis	300.0		20	2687	KB	EET ALB	04/02/24 22:25

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

Job ID: 885-2004-1

Lab Sample ID: 885-2004-17 Matrix: Solid

Released to Imaging: 5/15/2024 2:21:06 PM

Accreditation/Certification Summary

Client: Hilcorp Energy Project/Site: Hamner 7

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

rity		gram	Identification Number	Expiration Date
lexico	Sta	e	NM9425, NM0901	02-26-25
The following analytes	are included in this report,	but the laboratory is not certif	fied by the governing authority. This lis	t may include analyte
for which the agency do	pes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015D	5030C	Solid	Gasoline Range Organics	[C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
า	NEI	_AP	NM100001	02-26-25

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Job ID: 885-2004-1

Client:	hain	-of-C	ustody Record	Turr	n-Around]			-										•	f 2
Client:		Carp		- <i>5 day</i> ⊠ Standard □ Rush															ENT ATC			
		,	104-10	Proj	ect Nam	e:													12 No.47	- 11 A	~ 2 %	. 8
	Mitch Address	3:	lough		Ha	mner 7			49	901 H	ławk				vironr			om M 87	710	Ē	ιą.	è S
				Proj	ect #:						05-34							-410 ⁻				ž –
Phone email o QA/QC	#:			1									COMPLETE AND COMPLETE	THE REPORT OF THE	ysis	we be available for the second				885-20)04 CC	20
email o	r Fax#: <i>)</i>	MKillon	on@hilcorp.com	Proje	ect Mana	ager:			$\overline{\cap}$					SO4							T	T
QA/QC	Package:			1		-		12	/ MRO)	3's		ß					sen					
_⊈ Star Accred	ndard		□ Level 4 (Full Validation)								OSIN		PO4,			nt/Ab						
,			ompliance			- Carroll		Į₽	Ľ۵	082	(827		NO ₂ ,			ese					
		□ Othe	r	On l		vµ Yes	□ No Mog s	1	l Q	es/8	504) or	s			(YO	(Pr					
) (Type) _. I	<u></u>			Coolers:	<u>(</u>		E E	0	icide	por	310	leta	2	2	h-V	E L	5				
				000	er i emp	O(Including CF): O, [-0.(=0.0 (°C)		151	esti	/leth	у 8	8	<u></u> .	Į Š	Sen	olife	i'd				
ुDate	Time	Matrix	Sample Name		tainer e and #	Preservative Type	HEAL No.	BTEX	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride				
e 3/26	1500	Soil					1					<u> </u>	<u> </u>	0	8	8	-	ر بر		\rightarrow		
01 1	1503	5017	WS01 WS02		402	(00)	Z	$\frac{\lambda}{\lambda}$	<u>}</u>							_		~			-+	
4	1							\vdash										+		┢━━━━╋		
1	1506		w5p3	-		<u> </u>	3											\square		 -		
	1512		wS04				4			ļ												
	1515		w505				5											\setminus				
	1518		w506				6	$\left \right $														
	1524		HUSOI WSOGA				7															
	1509		WS07				06	\prod														
	1521		WSOSA				9	\square														\top
	1527		FS01				10															
	1530	,	FS02		/		11	Π.														
<u>¥</u>	1533	_⊻	FS0 3		-	$\underline{\vee}$	12	Ŷ	¥		1							\mathbf{V}				
Date.	Time:	Relinquish	ned by.	Recei	ved by:	Via:	Date Time	Ren	nark	s:		L			L		I	L	.			l
-	1250	2	val	/	in	War	3/28/24 1250			CC	: S	hyd	e @	<u>e</u> n	5010	1.	Col	n				
4 Date:	Time:	Relinquish	ied by	Received by: Via: Date Time						Cco	rrol	ı @	en	501	иm.	CO	m					
<u>gi una</u>	112.	1/-11	MERINI MUM	Om	n C	im 3	129/24 0755															

Page 100 of 116

ry, sampres iomitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Polone	Chain	-of-Cı	ustody Record	Turn-Around																of 2
Client				X Standard	- 5-∂aγ X Standard □ Rush													1EN RAT		
mo	Mitc	h Kil	104. i	Project Name:												tal.co				
Mailin	g Address	s:	10идь	Hamner 7				49	01 F									109		
5/1				Project #:				4901 Hawkins NE - Albuquerque, NM 871 Tel. 505-345-3975 Fax 505-345-4107												
Phone	e #:			-					511 00			a Maria and an an	-Summingan	fundamenta red re nov		uest				
email	or Fax#: ,	nkillouo	h@hikorp.com	Project Mana	ager:	· · · · · · · · · · · · · · · · · · ·	\square	ô					SO4			it)				
QA/QC	C Package:			Stuart	Hyde - Ens	olam	TMB's (8021)	/ MRO)	PCB's		IMS		PO4, S			Absei				
7	andard		Level 4 (Full Validation)	<u> </u>			E S	DRO,	2 P(70S		٦ ٣			ent/				
			ompliance		. Carroll			1	808	4.1)	82		NO ₂ ,		~	rese		ſ		
	D (Type)	□ Othe	ſ <u></u>	On Ice: # of Coolers:	🙀 Yes	I No Yog		BRO	les/	1 50	ō	als			/OA	<u>д</u>				
					<u> </u>	-0.(20,0 (°C)		20(0	sticic	tho	831	Met	ž	(A)	mi-/	iforn	de			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	EXH	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorid (
Page 39 of 40		Soil	FS04	1402	C091	13	X			<u> </u>		<u></u>		8	8		×			+-+-
390	1539	1	FSOS	1702			<u>x</u>	<u>^</u>												
f 40						19	\square										-++			
	1542		FSOG		<u> </u>	15														
- -	1545		FS07		<u> </u>	16	<u> </u>	_												<u> </u>
<u> </u>	1548	<u>¥</u>	FSO8	<u> </u>	<u>×</u>	17	Ľ	¥									YL.			
Date. 3-28	17 10	Relinquist	- U	Received by	Wast	3/28/24 1250	Rer				Shya	de©	アドル	150	ly n	1.00	m			
4/4/2024		Relinquist	pictue Walkers	Received by:		cy											im ion			· • • • • • • • • • • • • • • • • • • •
-	If necessary	, samples șu	bmitted to Hall Environmental may be sub	contracted to other a	accredited laboratori	es This serves as notice of this	s possi	bility	Any si	ub-coni	tracted	d data	will be	e clear	ly nota	ated on	the an	alytical r	eport	

Page 101 of 116

s gubmitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report

Login Sample Receipt Checklist

Client: Hilcorp Energy

Login Number: 2004

List Number: 1 Creator: Casarrubias, Tracy

Job Number: 885-2004-1

List Source: Eurofins Albuquerque



APPENDIX C

Agency Correspondence

From:	OCDOnline@state.nm.us
To:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 325351
Date:	Wednesday, March 20, 2024 5:33:40 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2402418125.

The sampling event is expected to take place:

When: 03/26/2024 @ 09:00 **Where:** D-29-29N-09W 940 FNL 890 FWL (36.701233,-107.807559)

Additional Information: Contact PM Stuart Hyde, 970-903-1607

Additional Instructions: Hamner 7 Well P&A site, coordinates 36.701233, -107.807599

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

From:	Velez, Nelson, EMNRD
То:	Stuart Hyde
Cc:	<u>Mitch Killough</u>
Subject:	Re: [EXTERNAL] NAPP2402418125 - Hilcorp Hamner 7 Reporting Deadline Extension Request
Date:	Thursday, April 11, 2024 10:08:53 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png
	Outlook-ehzletnz.png

[**EXTERNAL EMAIL**]

Good morning Stuart,

Your time extension request is approved. Remediation Due date has been updated to May 15, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

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



From: Stuart Hyde <shyde@ensolum.com>
Sent: Wednesday, April 10, 2024 3:48 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Mitch Killough <mkillough@hilcorp.com>
Subject: [EXTERNAL] NAPP2402418125 - Hilcorp Hamner 7 Reporting Deadline Extension Request

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

Nelson,

On behalf of Hilcorp Energy Company, we are submitting this request for a 15-day extension to the reporting deadline of April 14, 2024 to submit the final closure report for the Hamner 7 site. As of

today, the excavation has been completed and all confirmation floor and sidewall samples are compliant with the NMOCD Table I Closure Criteria. We are currently compiling information for the report, including disposal documentation, and are requesting an extension in order to finalize the document. If approved, the new reporting deadline would be April 29, 2024.

Please reach out with any questions or comments. Thanks and have a great afternoon.



Stuart Hyde, PG (Licensed in WA/TX) Senior Managing Geologist 970-903-1607 Ensolum, LLC in f

"If you want to go fast, go alone. If you want to go far, go together." - African Proverb



APPENDIX D

Project Photographs

Released to Imaging: 5/15/2024 2:21:06 PM

PROJECT PHOTOGRAPHS Hamner 7 San Juan County, New Mexico Hilcorp Energy Company



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

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

District III

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

District IV

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

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

QUESTIONS

Action 336262

QUESTIONS							
Operator:	OGRID:						
HILCORP ENERGY COMPANY	372171						
1111 Travis Street	Action Number:						
Houston, TX 77002	336262						
	Action Type:						
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)						

QUESTIONS

Prerequisites			
Incident ID (n#)	nAPP2402418125		
Incident Name	NAPP2402418125 HAMNER 7 @ 30-045-11719		
Incident Type	Oil Release		
Incident Status	Remediation Closure Report Received		
Incident Well	[30-045-11719] HAMNER #007		

Location of Release Source

Please answer all the questions in this group.		
Site Name	HAMNER 7	
Date Release Discovered	01/15/2024	
Surface Owner	Private	

Incident Details

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be	No

Nature and Volume of Release

detrimental to fresh water

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Cause: Corrosion Other (Specify) Condensate Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	During plugging and abandoning activities at the Hamner 7, visibly-impacted soils were discovered in the area of a former drip line, most likely due to corrosion.	

No

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

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

District III

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

District IV

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

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

QUESTIONS, Page 2

Action 336262

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	336262
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Initial Response

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

The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

local laws and/or regulations.	,	1	-	'	
I hereby agree and sign off to the above staten	nent				Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/22/2024

District I

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

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

District III

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

District IV

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

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

QUESTIONS, Page 3

Action 336262

QUESTIONS (continued)		
Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	336262	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)		
What method was used to determine the depth to ground water	NM OSE iWaters Database Search		
Did this release impact groundwater or surface water	No		
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:			
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)		
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)		
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)		
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)		
Any other fresh water well or spring	Between 1 and 5 (mi.)		
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)		
A wetland	Between 300 and 500 (ft.)		
A subsurface mine	Greater than 5 (mi.)		
An (non-karst) unstable area	Greater than 5 (mi.)		
Categorize the risk of this well / site being in a karst geology	None		
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)		
Did the release impact areas not on an exploration, development, production, or storage site	No		

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 83 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 1960 GRO+DRO (EPA SW-846 Method 8015M) 1960 BTEX (EPA SW-846 Method 8021B or 8260B) 11 (EPA SW-846 Method 8021B or 8260B) Benzene 0.2 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 03/25/2024 On what date will (or did) the final sampling or liner inspection occur 03/26/2024 On what date will (or was) the remediation complete(d) 03/26/2024 What is the estimated surface area (in square feet) that will be reclaimed 1600 What is the estimated volume (in cubic yards) that will be reclaimed 508 What is the estimated surface area (in square feet) that will be remediated 1600 What is the estimated volume (in cubic yards) that will be remediated 350 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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

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

District III

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

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

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

.

QUESTIONS, Page 4

Action 336262

QUESTI	ONS (continued)
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street Houston, TX 77002	Action Number: 336262
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ises which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/22/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accors significantly deviate from the remediation plan proposed, then it should consult with the division to d	ordance with the physical realities encountered during remediation. If the responsible party has any need to etermine if another remediation plan submission is required.

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

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

District III

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

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

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

Page 113 of 116

Action 336262

QUESTIONS (continued)		
Operator: HILCORP ENERGY COMPANY	OGRID: 372171	
1111 Travis Street Houston, TX 77002	Action Number: 336262	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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

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

District III

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

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

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

QUESTIONS, Page 6

Page 114 of 116

Action 336262

QUESTIONS (continued)		
Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	336262	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	325354
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2024
What was the (estimated) number of samples that were to be gathered	18
What was the sampling surface area in square feet	1000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	1600	
What was the total volume (cubic yards) remediated	350	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	1600	
What was the total volume (in cubic yards) reclaimed	508	
Summarize any additional remediation activities not included by answers (above)	not applicable	
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 (in .pdf format) 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.		
to report and/or file certain release notifications and perform corrective actions for releas the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed	

rior 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.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/22/2024

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

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

District III

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

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

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

QUESTIONS, Page 7

Action 336262

Page 115 of 116

QUESTIONS (continued)	
Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street Houston, TX 77002	Action Number: 336262
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Peolomation Report	

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

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

District III

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

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

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

Page 116 of 116

CONDITIONS

Action 336262

Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number: Houston, TX 77002 336262 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

CONDITIONS

Created By		Condition Date
nvelez	None	5/15/2024