

Remediation Report and Closure Request

December 13, 2022

East Hobbs San Andres Unit (EHSAU) #207 Crude Oil and Produced Water Release API # 30-025-37814 Incident # nOY1706627456 (1RP-4631)

Prepared For:

Penroc Oil Corporation 1515 Calle Sur, Suite 174 Hobbs, New Mexico 88240

Prepared By:

Crain Environmental 2925 East 17th Street Odessa, Texas 79761

thia K. Crain

Cynthia K. Crain, P.G.

EHSAU #207 Crude Oil and Produced Water Release Remediation Report and Closure Request



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1.0 Introduction

Crain Environmental (CE), on behalf of Penroc Oil Corporation (Penroc), has prepared this *Remediation Report and Closure Request* for the crude oil and produced water release at the East Hobbs San Andres Unit #207 (Site), located in Unit Letter H, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico. The global positioning system (GPS) coordinates for the Site are 32.7193222°, -103.0799332°. The property surface rights are privately owned. The location of the Site is depicted on Figure 1. The Site was operated by LINN Operating (LINN) at the time of the release.

2.0 Background

On February 23, 2017, LINN observed a grass fire at the Site that resulted in a release of approximately 0.5 barrels (bbls) of oil and 9 bbls of produced water from a melted flowline. The New Mexico Oil Conservation Division (OCD) was immediately notified, and an Initial C-141 was submitted on February 28, 2017. The C-141 states that the fire consumed the fluids that were released from the flowline.

A soil investigation was conducted by Diversified Field Service, Inc. (DFSI), and a *Closure Report* was submitted to the OCD by LINN on March 23, 2017. On June 1, 2017, the OCD denied the *Closure Report*, and requested additional vertical delineation to a minimum depth of 5 feet below ground surface (bgs). Appendix A provides a copy of the *Closure Report* and the OCD response.

On May 3, 2018, the Site was acquired by POGO Oil and Gas Operating, Inc., and on December 17, 2019, the Site was acquired by Penroc. As Incident # nOY1706627456 remains open, Penroc conducted additional delineation to fullfill the OCD request. This *Remediation Report and Closure Request* provides results of the delineation activities.

3.0 Additional Delineation Activities

On September 21, 2022, CE conducted an inspection to determine current Site conditions. No indication of the release was observed, and CE collected two surface samples (S-1 and S-2) from areas to the northwest (S-1) and southeast (S-2) of the well.

The samples were placed in clean glass sample jars, properly labeled, immediate placed on ice, and hand delivered to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons by EPA Method 8015M, and chlorides by EPA Method SM 4500. Table 1 provides a summary of the laboratory results. Figure 2 (in original Closure Report by DFSI) shows the location of sample point S-2. Appendix B provides a copy of the laboratory report and chain of custody documentation.

On November 8, 2022, test holes were dug at the original DFSI sample points S-1, S-2, and S-3 using a backhoe, and soil samples were collected from each test hole at depths of 2, 3, 4, and 5 feet bgs. All samples were delivered to Cardinal for analysis of chlorides. Table 1 provides a summary of the laboratory results. Figure 2 (in original Closure Report by DFSI) shows the sample locations. Appendix B provides a copy of the laboratory report and chain of custody documentation. Appendix C provides photographic documentation.

Referring to Table 1, concentrations of BTEX, TPH were reported below the test method detection limit in samples collected on September 21, 2022. Chloride concentrations were reported below the OCD Closure Criteria of 600 milligrams per kilogram (mg/kg) in each sample.

EHSAU #207 Crude Oil and Produced Water Release Remediation Report and Closure Request



4.0 Request for Closure

As soil samples collected during additional delineation activities reported chloride concentrations below the OCD Closure Criteria of 600 mg/kg, Penroc respectfully requests that the East Hobbs San Andres Unit #207 (Incident # nOY1706627456 [1RP-4631]) be closed. A Final C-141 is included in Appendix D.

5.0 Distribution

Copy 1: M. Y. Merchant Penroc Oil Corporation 1515 Calle Sur, Suite 174 Hobbs, New Mexico 88240

EHSAU #207 Crude Oil and Produced Water Release Remediation Report and Closure Request



TABLE

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS PENROC OIL CORPORATION EAST HOBBS SAN ANDRES UNIT #207 Incident # nOY1706627456 (1RP-4631)

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
		(feet bgs)						milligra	ams per kilogra	m (mg/kg)			
N	MOCD Clos	sure Criteri	a	-	-	-	100	10	-	-	-	50	600
S-1	09/21/22	0-1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
S-2	09/21/22	0-1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	< 0.050	<0.150	< 0.300	16.0
	11/08/22	2	In Situ		-								32.0
	11/08/22	3	In Situ										32.0
	11/08/22	4	In Situ										16.0
	11/08/22	5	In Situ		-								64.0
S-3	11/08/22	2	In Situ										16.0
	11/08/22	3	In Situ										48.0
	11/08/22	4	In Situ										32.0
	11/08/22	5	In Situ										48.0
S-1	11/08/11	2	In Situ										16.0
	11/08/11	3	In Situ										16.0
	11/08/11	4	In Situ										16.0
	11/08/11	5	In Situ										32.0

Notes:

1. GRO: Gasoline Range Organics

2. DRO: Diesel Range Organics

3. MRO: Motor Oil Range Organics

4. bgs: below ground surface

Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.

6. < indicates the COC was below the appropriate laboratory method/sample detection limit



FIGURES



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Site Diagram

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Appendix A: Previous Closure Report and OCD Response



East Hobbs San Andres #207

CLOSURE REPORT

API No. 30-025-37814

Release Date: February 23, 2017

Unit Letter H, Section 30, Township 18 South, Range 39 East

NMOCD Case #: 1R-4631

March 23, 2017

Prepared by:

Laura Flores Environmental Department Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 Phone: (575)964-8394 Fax: (575)393-8396

Released to Imaging: 2/13/2023 10:17:34 AM

LINN ENERGY

Olivia Yu Environmental Specialist NM Oil Conservation District – Division 1 1625 N French Drive Hobbs, NM 88240

RE: Linn Energy East Hobbs San Andres Unit #207 UL/H, Section 30, T18S, R39E API No. 30-015-26612 NMOCD Case #: 2R-3058 NMOCD Score: 10

Ms. Yu,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located east of Hobbs, NM, in Eddy County. The release resulted from a grass fire, caused by a power line spark. As the fire traveled, it burned the poly flow line, resulting approximately 0.5 barrels of oil and 9 barrels of produced water being released, with none recovered. An initial C-141 was submitted to the NMOCD on February 28, 2017 and approved on March 7, 2017 (Appendix I).

Site Assessment and Delineation

DFSI personnel responded to the release site and scraped the affected area to minimize the environmental impact. On February 28, 2017, DFSI personnel were on site to obtain soil samples (Appendix II). Three sample points and one background sample were collected to 2 ft below ground surface (bgs) and field tested for chlorides. Collection of samples halted at 2 ft bgs due to auger refusal and encountering hard rock. The field samples were submitted to Hall Laboratory of Albuquerque, NM to obtain confirmation, yielding concentrations below detectable limits throughout (Appendix III).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, the average depth to groundwater is 76 ft bgs. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix IV).

1

03/23/2017

LINN ENERGY

03/23/2017

Conclusion

Due to the completion of removal of impacted soil and laboratory confirmation of soil samples collected yielding low concentrations of all constituents, DFSI, on behalf of Linn Energy, submits the final C-141 (Appendix V) and respectfully requests the closure of the regulatory file for this site.

Please feel free to contact me with any questions concerning this closure request.

Sincerely,

Laura Hores

Laura Flores Diversified Field Services, Inc. 206 West Snyder | Hobbs, NM 88240 Office: (575)964-8394 | Fax: (575)964-8396 | Email: Iflores@diversifiedfsi.com

Appendix I – Initial C-141 Appendix II – Site Photos Appendix III – Laboratory Analysis Appendix IV – Groundwater Study Appendix V – Final C-141

DIVERSIFIED ENVIRONMENTAL SERVICES

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Site Diagram

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Appendix I

INITIAL C-141

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394

District II Energy Minera					of New Mexico Is and Natural Resources ervation Division 1th St. Francis Dr. Fe, NM 87505			Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.				
B11 S. First St., Artesia, NM 88210 District III 000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 So) South									
			Rel	ease Notifi				Action	1			
						OPERA				al Report	🗌 Fina	l Repo
Address H	obbs, N.M	INN Operati		it #207			vk Rickman- No. 575-513-			96		
			iures on			racinty Typ						
Surface Ow	vner Privat	te/State		Mineral					API NO	0.30-025-37	/814	
			1.5	-		OF REI						
Unit Letter H	Section 30	Township 18S	Range 39E	Feet from the 2330	FNL	South Line	Feet from th 1197	East/	West Line	County LEA		
			I	Latitude 32.71	9437	Longit	ude -103.08	80925				
				NAT	FURE	OF REL			1			
		produced wa	ter				Release 9 bb			Recovered	0	
Source of Re	elease poly	flow line				Date and H 2-23-17 3:	lour of Occurr	ence	Date and 2-23-17	Hour of Dis 4:30.pm	scovery	
Was Immedi	iate Notice (Yes 🗌	No 🗌 Not Re	equired	If YES, To						
By Whom? Rick Rickman							lour 4:30 pm					
Was a Water] Yes X					-	ercourse.			
If a Waterco Describe Ca High winds LINN EHS/	urse was Im use of Probl resulted in AU 207 resu	pacted, Descr em and Reme power line cu liting in a los	ibe Fully. dial Actio ontacting s of appro	* on Taken.* each other creat ox ½ bbl. oil an	d 9 bbl.	ks. Creating water. The v	ECEIVI y Olivia a grass fire, well was shut	D Yu at As the fir	7:22 al	it burned th	e poly flow l	
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Appendix II

SITE PHOTOS

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394

East Hobbs San Andres #207

Photo Page



Site prior



Collecting background sample



Collecting SP1

Appendix III

LABORATORY ANALYSIS

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394



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

March 15, 2017

Rick Rickman Diversified Field Services, Inc 315 S. Leech St Hobbs, NM 88240 TEL: (575) 964-8394 FAX

RE: East Hobbs San Andres Unit 207

OrderNo.: 1703486

Dear Rick Rickman:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/9/2017 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 <u>www.hallenvironmental.com</u> 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

CLIENT: Diversified Field Services, Inc

East Hobbs San Andres Unit 207

Analytical Report Lab Order 1703486

Date Reported: 3/15/2017

Client Sample ID: SP1@2' Collection Date: 2/28/2017 7:55:00 AM Possived Date: 3/0/2017 0.50.00 AM

Lab ID: 1703486-001	Matrix:	SOIL	Received	Date: 3/9	/2017 9:50:00 AM	
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	3/14/2017 1:28:21 PM	30685
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S			Analyst	: том
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/13/2017 1:13:23 PM	30627
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/13/2017 1:13:23 PM	30627
Surr: DNOP	91.7	70-130	%Rec	1	3/13/2017 1:13:23 PM	30627
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/10/2017 8:31:08 PM	30613
Surr: BFB	83.2	54-150	%Rec	1	3/10/2017 8:31:08 PM	30613
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	3/10/2017 8:31:08 PM	30613
Benzene	ND	0.023	mg/Kg	1	3/10/2017 8:31:08 PM	30613
Toluene	ND	0.046	mg/Kg	1	3/10/2017 8:31:08 PM	30613
Ethylbenzene	ND	0.046	mg/Kg	1	3/10/2017 8:31:08 PM	30613
Xylenes, Total	ND	0.093	mg/Kg	1	3/10/2017 8:31:08 PM	30613
Surr: 4-Bromofluorobenzene	88.5	66.6-132	%Rec	1	3/10/2017 8:31:08 PM	30613

n.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation inform	mation
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	A
	D	Sample Diluted Due to Matrix	Е	٧
	Н	Holding times for preparation or analysis exceeded	J	A
	ND	Not Detected at the Reporting Limit	Р	S

- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 8
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1703486

Date Reported: 3/15/2017

CLIENT: Diversified Field Services, In: Project: East Hobbs San Andres Unit			Client Sampl Collection		2@2' 8/2017 8:07:00 AM	
Lab ID: 1703486-002	Matrix:	SOIL	Received	Date: 3/9	0/2017 9:50:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	3/14/2017 2:05:35 PM	30685
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	6			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/13/2017 2:27:32 PM	30627
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/13/2017 2:27:32 PM	30627
Surr: DNOP	92.6	70-130	%Rec	1	3/13/2017 2:27:32 PM	30627
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/10/2017 8:57:18 PM	30613
Surr: BFB	83.9	54-150	%Rec	1	3/10/2017 8:57:18 PM	30613
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	3/10/2017 8:57:18 PM	30613
Benzene	ND	0.023	mg/Kg	1	3/10/2017 8:57:18 PM	30613
Toluene	ND	0.046	mg/Kg	1	3/10/2017 8:57:18 PM	30613

0.046

0.092

66.6-132

mg/Kg

mg/Kg

%Rec

1

1

1

3/10/2017 8:57:18 PM

3/10/2017 8:57:18 PM

3/10/2017 8:57:18 PM

30613

30613

30613

ND

ND

91.4

n.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В
	D	Sample Diluted Due to Matrix	E
	Н	Holding times for preparation or analysis exceeded	J
	ND	Not Detected at the Reporting Limit	Р

- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 8
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1703486

Date Reported: 3/15/2017

3/10/2017 9:23:25 PM

3/10/2017 9:23:25 PM

3/10/2017 9:23:25 PM

3/10/2017 9:23:25 PM

30613

30613

30613

30613

1

1

1

1

CLIENT: Diversified Field Services, In	c		Client Sampl	e ID: SP	3@2'	
Project: East Hobbs San Andres Unit	207		Collection]	Date: 2/2	8/2017 8:17:00 AM	
Lab ID: 1703486-003	Matrix:	SOIL	Received	Date: 3/9	/2017 9:50:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	3/14/2017 2:18:00 PM	30685
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analyst	: том
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/13/2017 2:52:11 PM	30627
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/13/2017 2:52:11 PM	30627
Surr: DNOP	92.1	70-130	%Rec	1	3/13/2017 2:52:11 PM	30627
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/10/2017 9:23:25 PM	30613
Surr: BFB	86.3	54-150	%Rec	1	3/10/2017 9:23:25 PM	30613
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	3/10/2017 9:23:25 PM	30613
Benzene	ND	0.025	mg/Kg	1	3/10/2017 9:23:25 PM	30613

0.050

0.050

0.099

66.6-132

mg/Kg

mg/Kg

mg/Kg

%Rec

ND

ND

ND

94.9

Refer to the QC Summary re	port and sample lo	ogin checklist for t	flagged OC data an	d 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 8 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Hall Environmental Analysis Laboratory, Inc.

30613

30613

30613

30613

Analytical Report Lab Order 1703486

Date Reported: 3/15/2017

3/10/2017 9:49:33 PM

3/10/2017 9:49:33 PM

3/10/2017 9:49:33 PM

3/10/2017 9:49:33 PM

1

1

1

1

CLIENT: Diversified Field Services, Project: East Hobbs San Andres Ur			Client Sampl Collection 1		KGD@2' 28/2017 11:47:00 AM	
Lab ID: 1703486-004	Matrix: S	SOIL	Received 1	Date: 3/9	0/2017 9:50:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	30	mg/Kg	20	3/14/2017 2:30:25 PM	30685
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	;			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/13/2017 3:16:45 PM	30627
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/13/2017 3:16:45 PM	30627
Surr: DNOP	93.3	70-130	%Rec	1	3/13/2017 3:16:45 PM	30627
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/10/2017 9:49:33 PM	30613
Surr: BFB	82.4	54-150	%Rec	1	3/10/2017 9:49:33 PM	30613

EPA METHOD 8015D: GASOLINE RANG	JE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/10/2017 9:49:33 PM	30613
Surr: BFB	82.4	54-150	%Rec	1	3/10/2017 9:49:33 PM	30613
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
EPA METHOD 8021B: VOLATILES Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	Analyst: 3/10/2017 9:49:33 PM	NSB 30613

0.047

0.047

0.095

66.6-132

mg/Kg

mg/Kg

mg/Kg

%Rec

ND

ND

ND

91.1

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 8 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client: Project:		rsified Field Ser Hobbs San And									
Sample ID	MB-30685	SampTy	/pe: ME	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 30	685	F	RunNo: 4	1363				
Prep Date:	3/14/2017	Analysis Da	ate: 3/	14/2017	S	SeqNo: 1	297164	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-30685	SampTy	/pe: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 30	685	F	RunNo: 4	1363				
Prep Date:	3/14/2017	Analysis Da	ate: 3/	14/2017	5	SeqNo: 1	297165	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	96.7	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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1703486

15-Mar-17

WO#:

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	fied Field Ser obbs San And	,								
Sample ID MB-30627	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 30	627	F	RunNo: 4	1321				
Prep Date: 3/10/2017	Analysis Da	ate: 3/	13/2017	S	SeqNo: 12	294825	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.5	70	130			
Sample ID LCS-30627	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 30	627	F	RunNo: 4	1321				
Prep Date: 3/10/2017	Analysis Da	ate: 3/	13/2017	5	eqNo: 1	294826	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	63.8	116			
Surr: DNOP	4.5		5.000		89.2	70	130			
Sample ID 1703486-001AM	SampTy	pe: MS	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SP1@2'	Batch	ID: 30	627	F	RunNo: 4	1324				
Prep Date: 3/10/2017	Analysis Da	ate: 3/	13/2017	5	SeqNo: 12	295014	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.4	46.99	4.028	88.7	51.6	130			
Surr: DNOP	4.4		4.699		92.8	70	130			
Sample ID 1703486-001AM	SD SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SP1@2'	Batch	ID: 30	627	F	RunNo: 4 '	1324				
Prep Date: 3/10/2017	Analysis Da	ate: 3/	13/2017	5	SeqNo: 12	295047	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.50	4.028	84.1	51.6	130	0.160	20	
Surr: DNOP	4.5		4.950		91.6	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

15-Mar-17

1703486

WO#:

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	fied Field Services bbs San Andres U								
Sample ID MB-30613	SampType: N	IBLK	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 3	0613	F	RunNo: 41	306				
Prep Date: 3/9/2017	Analysis Date:	3/10/2017	S	SeqNo: 12	94532	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	C							
Surr: BFB	820	1000		81.9	54	150			
Sample ID LCS-30613	SampType: L	.CS	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 3	0613	F	RunNo: 41	306				
Prep Date: 3/9/2017	Analysis Date:	3/10/2017	S	SeqNo: 12	94534	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	0 25.00	0	96.2	76.4	125			
Surr: BFB	990	1000		99.4	54	150			

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1703486

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Client: Dive	rsified Field So	ervices,	Inc							
Project: East	Hobbs San An	dres Un	it 207							
Sample ID MB-30613	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: 30	613	F	RunNo: 4	1306				
Prep Date: 3/9/2017	Analysis E	Date: 3/	10/2017	S	SeqNo: 1	294570	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	66.6	132			
Sample ID LCS-30613	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 30	613	F	RunNo: 4	1306				
Prep Date: 3/9/2017	Analysis D	Date: 3/	10/2017	S	SeqNo: 1	294577	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.82	0.10	1.000	0	82.2	66.5	120			
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	66.6	132			

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1703486

15-Mar-17

WO#:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY		01 Hawkins N que, NM 8716 505-345-410	Sam	ple Log-In Chec	k List
Client Name: DIVERSIFIED FIELD SE	Work Order Number: 170	3486		RcptNo: 1	
Received by/date: A3	03/09/17				
.ogged By: Lindsay Mangin	3/9/2017 9:50:00 AM	l	Allo		
Completed By Lindsay Mangin :	3/9/2017 12:30:35 PM	1	Julipo		
Reviewed By: A al. c	ENDIT P.	1460			
hain of Custody	China Co				
1. Custody seals intact on sample bottles?	Ye	s 🗆	No 🗔	Not Present	
2. Is Chain of Custody complete?	Ye	s 🗹	No 🗌	Not Present	
3. How was the sample delivered?	Co	urier			
og In					
4. Was an attempt made to cool the samples?	Y	s 🗹	No 🗆	NA \Box	
5. Were all samples received at a temperature of	of >0°C to 6.0°C Ye		No 🗌		
6. Sample(s) in proper container(s)?	Y	s 🗸	No 🗌		
7. Sufficient sample volume for indicated test(s)	? Ye	s 🗸	No 🗆		
8. Are samples (except VOA and ONG) properly	preserved? Ye	s 🔽	No 🗌		
9. Was preservative added to bottles?	Ye	s 🗆	No 🗹	NA 🗆	
0.VOA vials have zero headspace?	Ye	s 🗆	No 🗌	No VOA Vials	
1. Were any sample containers received broker		s	No 🖌		
				# of preserved bottles checked	
2. Does paperwork match bottle labels?	Ye	s 🗸	No 🗌	for pH:	
(Note discrepancies on chain of custody)				(<2 or >12 u Adjusted?	nless noted
3, Are matrices correctly identified on Chain of C 4, Is it clear what analyses were requested?	- 1		No 🗌	(solution (
5. Were all holding times able to be met?		s 🗹		Checked by:	
(If no, notify customer for authorization.)					
oecial Handling (if applicable)					
6. Was client notified of all discrepancies with th	is order? Ye	s 🗆	No 🗌	NA 🔽	
Person Notified:	Date				
By Whom:	······	Aail 🗌 Pho	one 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
7. Additional remarks:					
8. Cooler Information		4			
	Intact Seal No Seal	Date S	igned By		
1 1.6 Good Yes	Searno Searno	Jale 5	igned by		

•

Client: Mailing	DFS	I	Istody Record	Turn-Around V Standard Project Name EAST HB Project #:	□ Rush	YES UNIT #207			01 H	Aawki	WWV ins N	AL w.hal NE - 975	Ilenv Alb	iron uqu ax	SL men erqu 505-	All tal.co ie, N -345	BO om M 87 -4107	RA	TO	
Phone # email or QA/QC F	Fax#: Package dard		Level 4 (Full Validation)	Project Mana Riciz Rici	LMANY		3's (8021)	(Gas only)	/ DRO / MRO)		1	SIMS)	naly			ues	t			
Accredit INEL/	٩P	□ Othe	r	Sampler: EL On Ice: Sample Tem	Ves perature:	No 1.60C	BE + TMB's	BE + TPH		d 418.1)	d 504.1)) or 8270	tals	NO3.NO	des / 808	0	(AOV)			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1703486	BITEX + MTBE	BTEX + MTBE	IPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F.ONO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			
-28-17	755	SOIL	SPIC2'	402 JAR	Carl	-001	X	-	X		1	-	-	X	~	~			1	1
T	807	1	SPZ@Z'	I	1 l	-00Z	17		Ť				1	1					1	
	817	171.71	513@ 2'			-003	11	111			111								1	1
-	1147	1	FKGDE Z'	1	1	-004	1		1					1						
																			-	
																			-	
Date: 3-2-17	Time: 700	Rel nguish	ed by MRR	Received by		Date Time	EA		- H	u										
pate 8/17	Time: (980	Reinquish	ed by	Received by	In	N 3/9/17 0060	NLE	BU R ALVE FLOR CHSCO	ES /	-		esifle	_		_	4				

of 64



GROUNDWATER STUDY

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the file	ned,	(qı						E 3=SW	· · · · ·		``````````````````````````````````````		
water right file.)	closed)	POD	(գւ	larte	ers a	tre s	smalle	est to la	rgest)	(NAD8	3 UTM in meters	5) (1	In feet)	
		Sub-			Q									ater
POD Number <u>L 01449</u>	Code	basin L	County LE				Sec 19	Tws 18S	Rng 39E	X 679769	Y 3623199* 🥌	DepthWellDept	hWater Co 45	olumn 65
L 01748		L	LE		3	1		185	39E	680505	3626840*	125	48	77
<u>L 01925</u>		L	LE	2	5	3		185	39E	680683	3622913*	100	51	49
L 02206		L	LE		4	3	19	185	39E	679275	3622690*	110	60	50
<u>L 02225</u>		L	LE				07	185	39E	680020	3625928*	130	62	68
L 02319		L	LE	4		3	19	18S	39E	679374	3622589*	90	60	30
<u>L 02354</u>		L	LE				19	18S	39E	679374	3622589*	100	43	57
L 02899		L	LE			1	20	18S	39E	680668	3623718* 🥌	121	66	55
L 03386		L	LE				19	18S	39E	679476	3623286* 🦲	100	40	60
<u>L 03407</u>		L	LE		4	4	07	18S	39E	680020	3625928* 🦲	120	55	65
<u>L 03445</u>		L	LE	4	2	1	20	18S	39E	680961	3623826* 🦲	100	51	49
<u>L 03537</u>		L	LE	2	4	3	20	18S	39E	680984	3622818* 🥌	102	40	62
<u>L 03537</u>	R	L	LE	2	4	3	20	18S	39E	680984	3622818* 🧉	102	40	62
<u>L 03785</u>		L	LE	1	1	1	20	18S	39E	680359	3624019* 🧉	100	65	35
<u>L 03823</u>		L	LE	1	2	1	08	18S	39E	680700	3627250* 🧉	135	70	65
<u>L 03867</u>		L	LE				20	18S	39E	681085	3623315* 🌍	85	12	73
<u>L 04044</u>	R	L	LE	1	1	3	20	18S	39E	680374	3623214* 🌍	100	58	42
L 04044 POD2		L	LE	1	1	3	20	18S	39E	680386	3623222 🥌	232		
<u>L 04102</u>		L	LE	2	1	3	20	18S	39E	680574	3623214* 🧉	105	65	40
<u>L 04401</u>		L	LE		4	3	08	18S	39E	680824	3625943* 🧉	100	70	30
<u>L 04526</u>	R	L	LE	1	1	3	20	18S	39E	680280	3626939 🌍	100	60	40
L 04526 POD2		L	LE	1	1	3	20	18S	39E	680347	3623243 🌍	229		
<u>L 04529</u>		L	LE	2	4	3	20	18S	39E	680984	3622818* 🥌	70	51	19
<u>L 04571</u>		L	LE	2	1	3	07	18S	39E	678906	3626408* 🥌	209	80	129
<u>L 04571 POD4</u>		L	LE		1	4	07	18S	39E	679610	3626323* 🧉	248	107	141
<u>L 04571 S</u>		L	LE	1	1	4	07	18S	39E	679509	3626422* 🥑	220	80	140
<u>L 04571 S2</u>		L	LE		1	4	07	18S	39E	679610	3626323* 🥌	176	70	106
<u>L 04571 S2</u>	R	L	LE		1	4	07	18S	39E	679610	3626323* 🥌	176	70	106
<u>L 04571 S3</u>		L	LE	4	2	2	07	18S	39E	680096	3627035* 🌍	223	120	103
<u>L 04571 S4</u>		L	LE	2	1	2	18	18S	39E	679724	3625617* 🥌	216	70	146
<u>L 04780</u>		L	LE	1	3	1	07	18S	39E	678623	3626844 🥌	266	120	146
<u>L 04780</u>	R	L	LE	1	3	1	07	18S	39E	678623	3626844 🥌	266	120	146
L 04780 POD2		L	LE	2	1	2	07	18S	39E	679694	3627228* 🌍	202	91	111

Retension of the state of the s

L 04814 POD3		L	LE	2	4	3	20	18S	39E	680984	3622818* 🧉	150	65	85
<u>L 04856</u>		L	LE		1	3	07	18S	39E	678807	3626309* 🧉	210		
<u>L 04982</u>		L	LE		2	3	19	18S	39E	679268	3623093* 🥘	100	65	35
<u>L 05268</u>		L	LE	1	1	1	17	18S	39E	680328	3625631* 🧉	100	48	52
<u>L 05578</u>		L	LE		3	3	20	18S	39E	680482	3622712* 🧉	100	50	50
<u>L 06274</u>		L	LE			3	20	18S	39E	680683	3622913* 🌍	75	50	25
<u>L 06314</u>		L	LE	3	1	3	20	18S	39E	680374	3623014* 🧉	188	65	123
<u>L 06732</u>		L	LE	4	1	3	20	18S	39E	680574	3623014* 🌍	125	60	65
<u>L 06793</u>	R	L	LE			3	20	18S	39E	680683	3622913* 🧉	110	94	16
L 06793 POD2		L	LE			3	20	18S	39E	680683	3622913* 🧉	150	85	65
<u>L 06833</u>	R	L	LE		1	3	20	18S	39E	680475	3623115* 🌍	172	65	107
L 06833 POD2		L	LE	2	1	3	20	18S	39E	680584	3623248 🌍	238	140	98
<u>L 07233</u>		L	LE	4	4	3	20	18S	39E	680984	3622618* 🥌	123	62	61
<u>L 07501</u>		L	LE	3	3	3	20	18S	39E	680381	3622611* 🌍	120	62	58
<u>L 07571</u>		L	LE	3	2	3	20	18S	39E	680776	3623021* 🥌	110	70	40
<u>L 07674</u>		L	LE	3	2	3	20	18S	39E	680776	3623021* 🧉	150	80	70
<u>L 07755</u>		L	LE	3	1	3	20	18S	39E	680374	3623014* 🥌	108	54	54
<u>L 07763</u>	R	L	LE		4	3	20	18S	39E	680745	3622510 🥌	128	53	75
L 07763 POD2		L	LE		4	3	20	18S	39E	680745	3622510 🥌	227	140	87
<u>L 07767</u>		L	LE	3	2	3	20	18S	39E	680776	3623021* 🧉	130	70	60
<u>L 08022</u>		L	LE			4	20	18S	39E	681488	3622927* 🧉	150	70	80
L 08196 POD2		L	LE	4	3	3	20	18S	39E	680581	3622611 🧉	272		
<u>L 08305</u>		L	LE				20	18S	39E	681085	3623315* 🧉	150	85	65
<u>L 08326</u>	R	L	LE	2	4	3	20	18S	39E	680948	3622871 🌍	150	60	90
L 08326 POD2		L	LE	4	2	4	20	18S	39E	680948	3622871 🌍	250	80	170
<u>L 08515</u>		L	LE		3	4	20	18S	39E	681287	3622726* 🌍	120	63	57
<u>L 08850</u>		L	LE	1	1	2	07	18S	39E	679494	3627228* 🌍	150	65	85
<u>L 09860</u>		L	LE	1	1	3	20	18S	39E	680374	3623214* 🌍	150	68	82
<u>L 10005</u>		L	LE			3	20	18S	39E	680683	3622913* 🌍	150		
<u>L 10012</u>		L	LE		3	3	19	18S	39E	678873	3622683* 🧉	140	87	53
<u>L 10104</u>		L	LE	2	4	3	20	18S	39E	680984	3622818* 🌍	133	67	66
<u>L 10104</u>	R	L	LE	2	4	3	20	18S	39E	680984	3622818* 🌍	133	67	66
<u>L 10195</u>		L	LE			3	20	18S	39E	680683	3622913* 🧉	150	20	130
<u>L 10428</u>		L	LE	1	2	3	20	18S	39E	680776	3623221* 🧉	160	60	100
<u>L 10528</u>		L	LE	2	1	2	07	18S	39E	679694	3627228* 🌍	170	78	92
<u>L 10547</u>		L	LE		3	3	20	18S	39E	680482	3622712* 🌍	158	80	78
<u>L 10779</u>		L	LE		3	4	19	18S	39E	679678	3622697* 🌍	198	90	108
<u>L 10831</u>		L	LE			3	20	18S	39E	680683	3622913* 🌍	150	78	72
<u>L 10904</u>		L	LE		4	3	19	18S	39E	679275	3622690* 🥘	198	90	108
<u>L 11068</u>		L	LE			3	20	18S	39E	680683	3622913* 🌍	190		
L 11158 POD1		L	LE	4	1	3	08	18S	39E	680513	3626237* 🦲	223	100	123

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Reggined by north is set state in the shift of the state of 64 water Column %2C%0A"Basin Div %3A"true %2C%0A"Basin 838 32 of 64

									Minimum Depth: Maximum Depth:		12 feet 156 feet	
								1	Average Depth to Wa		75 fee	
<u>. 14122 POD1</u>		LE	2 1	3	20	18S	39E	680670	3623211 🧉	250	90	16
<u>. 14108 POD1</u>		LE	2 3	2	18	18S	39E	679776	3625136 🌍	165	83	8
<u>. 13560 POD1</u>	L	LE	3 2	3	20	18S	39E	680881	3623101 🌍	255	155	10
. <u>13558 POD1</u>	L	LE	3 2	3	20	18S	39E	680881	3623101 🌍	188		
<u>. 13505 POD1</u>	L	LE	1 4	3	20	18S	39E	680896	3622855 🌍	254	156	ç
<u>. 13390 POD1</u>	L	LE	3 4	3	20	18S	39E	680842	3622678 🌍	275	142	13
<u>. 12854 POD1</u>	L	LE	1 1	1	19	18S	39E	678675	3623980	215		
<u>, 12810 POD1</u>	L	LE	4 4	3	20	18S	39E	680976	3622715 🌍	242		
. 12733 POD1	L	LE	1 4	3	20	18S	39E	680882	3622916 🧉	195		
<u>. 12529 POD1</u>	L	LE	4 4	3	20	18S	39E	681099	3622554 🧉	225		
<u>. 12500 POD1</u>	L	LE	4 1	3	20	18S	39E	680496	3623067 🧉	232		
<u>12469 POD1</u>	L	LE	3 3	3	20	18S	39E	680479	3622703 🦲	200		
. 12370 POD1	L	LE			18	18S	39E	680253	3624384 🥌	243		
. 12339 POD1	L	LE	3 2			18S	39E	680872	3623027	251		
. 12183 POD1	L	LE			20	18S	39E	681310	3623146	205	90	1
. 12061 POD1	L	LE	3 3			185 185	39E	680349	3622580	218		
. 11965 POD1	L	LE			20 07	185	39E 39E	680525	3627337	201		
<u>, 11933 POD1</u> , 11956 POD1	L L	LE LE			20 20	18S 18S	39E 39E	680374 681194	3623014* 🥌 3623234 🥌	220 235		
<u>. 11882 POD1</u>	L	LE			19	18S	39E	678972	3622582*	202	112	Ģ
. 11815	L	LE	4 4		20	18S	39E	680984	3622618*	187	105	8
<u>. 11801</u>	L	LE	4 4		19	18S	39E	680179	3622604* 🧉	230		
<u>. 11497</u>	L	LE	4 4			18S	39E	679345	3624201* 🧉	236		
<u>. 11464</u>	L	LE	4 4			18S	39E	680179	3622604* 🧉	228		
<u>. 11167</u>	L	LE	2 2	4		18S	39E		_	200		
<u>. 11158 POD4</u>	L	LE	4 4			18S	39E	680119	3625827* 🧉	230	100	1.

*UTM location was derived from PLSS - see Help

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WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POE replaced, O=orpha C=the fil closed)	aned,	hed, is (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)												
		POD		0	0	0								T .	
POD Number	Code	Sub- basin	County		Q 16		Sec	Tws	Rng	Х	Y	DepthWellDep	Wate PepthWellDepthWater Colu		
<u>L 01341</u>		L	LE	1	1	1	12	18S	38E	677081	3627183* 🌍	78	56	22	
<u>L 01409</u>		L	LE		2	1	12	18S	38E	677585	3627091* 🌍	170	65	105	
<u>L 01409</u>	R	L	LE		2	1	12	18S	38E	677585	3627091* 🌍	170	65	105	
<u>L 01409 POD3</u>		L	LE	4	4	1	12	18S	38E	677691	3626588* 🌍	193	65	128	
<u>L 01409 S</u>		L	LE	3	4	1	12	18S	38E	677491	3626588* 🌍				
<u>L 02208</u>		L	LE		4	3	24	18S	38E	677666	3622660* 🌍	103	64	39	
<u>L 02214</u>		L	LE	4	1	2	12	18S	38E	678086	3626998* 🌍	94	70	24	
<u>L 02287</u>		L	LE	4	1	2	12	18S	38E	678086	3626998* 🌍	180	78	102	
<u>L 02287 S</u>		L	LE	1	2	2	12	18S	38E	678178	3626990 🌍	298	130	168	
<u>L 02287 S2</u>		L	LE	3	4	2	12	18S	38E	678286	3626514 🌍	258	137	121	
<u>L 02525</u>		L	LE		3	3	13	18S	38E	677234	3624264* 🌍	60	35	25	
<u>L 02906</u>		L	LE	2	2	4	12	18S	38E	678503	3626400* 🌍	180	63	117	
<u>L 02906 POD3</u>		L	LE	1	2	4	12	18S	38E	678215	3626487 🌍	195			
<u>L 02906 S</u>		L	LE	2	3	4	12	18S	38E	678108	3625990* 🌍	250	90	160	
<u>L 03812</u>		L	LE	3	1	2	12	18S	38E	677886	3626998* 🥌	100	55	45	
<u>L 03828</u>		L	LE	3	3	4	24	18S	38E	677967	3622567* 🧉	115	85	30	
<u>L 04889</u>		L	LE	3	3	4	12	18S	38E	677908	3625790* 🧉	125			
<u>L 06912</u>		L	LE	4	4	1	12	18S	38E	677691	3626588* 🥌	150			
<u>L 07420</u>		L	LE	1	1	1	12	18S	38E	677081	3627183* 🧉	150	80	70	
<u>L 08816</u>	R	L	LE	3	3	4	12	18S	38E	677908	3625790* 🧉	155	70	85	
<u>L 09155</u>	R	L	LE	3	3	4	12	18S	38E	677908	3625790* 🌍	155	80	75	
L 09155 POD2		L	LE	3	3	4	12	18S	38E	677968	3625788 🌍	253	113	140	
<u>L 10931</u>		L	LE			4	24	18S	38E	678269	3622869* 🌍	210			
L 12617 POD1		L	LE	2	2	1	12	18S	38E	677789	3627298 🌍	250	101	149	
<u>L 12834 POD1</u>		L	LE	1	1	3	13	18S	38E	677100	3624691 🌍	252			
											Average Depth to	Water:	79 fee	t	
											Minimu	m Depth:	35 fee	35 feet	
											Maximur	n Depth: 137		t	
Record Count: 25															
PLSS Search:															
Section(s): 12, 1	3, 24	Townsh	ip: 18S		Ra	nge	: 38I	T							
*UTM location was derived	from PLSS	- see Help)												

*UTM location was derived from PLSS - see Help

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

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3/21/17 2:39 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER
Appendix V

FINAL C-141

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Kel	ease Notific	catio	n and Co	prrective A	ACTION	1			
						OPERA	TOR		🔲 Initi	al Report	\bowtie	Final Rep
		Linn Energy				Contact: Aa	ron Hickert					
		der, Hobbs,					No. 432-363-94	496				
Facility Na	me: East F	lobbs San Ai	ndres Uni	it #207		Facility Typ	be: Oil					_
	ner: Priva	ate / State		Mineral)wner:				API No	. 30-025-3	7814	-
						NOEDE			,			
P. T. T. T	C					N OF RE		The set (Neres Filler	Country		
Unit Letter H	Section 30	Township 18S	Range 39E	Feet from the 2330		/South Line North	Feet from 1197		West Line ast	County Lea		
				Latitude: 32	71943	7 Longitude	e: -103.080925					
						-						
				NAT	URE	OF REL						
Type of Rele	ease: Oil and	d Produced W	ater			Volume of	Release: 0.5 bb 9 bbls		Volume F	Recovered:	0	
Source of Re	elease: Pol	v flowline				Date and F	Hour of Occurren		Date and	Hour of Dis	coverv	
		,				02/23/2011	7 3:30 PM			17 4:30 PM		
Was Immedi	ate Notice (If YES, To						
			Yes 🗌	No 🗌 Not R	equired		own – NMOCD					
By Whom?	Rick Rickm	ian					Iour: 4:30 PM	.1 117 .				
Was a Water	course Rea		Yes 🗵	1 NT-		IT YES, VO	olume Impacting	the Wat	ercourse.			
Describe Cau High winds r 207, resulting	use of Probl resulted in p g in a loss o	pacted, Descr em and Reme ower line con f approximate	ibe Fully. ⁴ dial Action tacting eace ly 0.5 bbls	k	of prod	luced water.	The well was shu	it down a	ind shut in i	until fire dep	bartmen	it
Describe Cau High winds r 207, resulting extinguished Describe Arc DFSI persons were on site chlorides. Co	use of Probl resulted in p g in a loss o the fire. A ca Affected nel respond to obtain so oblection of s	pacted, Descr em and Reme ower line con f approximate t that time, rep and Cleanup <i>A</i> ed to the relea il samples. Th samples halted	ibe Fully. ² dial Action tacting eac ly 0.5 bbl: bairs were Action Tak use site and hree samp d at 2 ft bg	* n Taken.* ch other, creating s of oil and 9 bbls made and the wel cen. I scraped the affect le points and one s due to auger ref	of prod I return cted are: backgro	luced water, ed to service, a to minimize bund sample w d encountering	The well was shu The fire consum the environmen cere collected to g hard rock. The	t down a ned the fi tal impace 2 ft belo	and shut in a luids that es t. On Febru w ground su	until fire dep scaped from uary 28, 201 urface (bgs)	7, DFS	it w line. I personnel ld tested fo
Describe Cat High winds r 207, resulting extinguished Describe Are DFSI persons were on site chlorides. Co Albuquerque I hereby certi regulations a public health should their of or the environ	use of Probl resulted in p g in a loss o the fire. A ea Affected nel respond to obtain so ollection of s c, NM to obt ify that the i ll operators or the enviro operations h nment. In a	pacted, Descr em and Reme ower line con f approximate t that time, rep and Cleanup A ed to the relea il samples. Th samples halted tain confirmat information gi are required to ronment. The bave failed to a	ibe Fully. ² dial Action tacting each ly 0.5 bble bairs were Action Tal- ise site and hree samp d at 2 ft bg ion, yieldi ven above o report ar acceptance idequately OCD accep	* n Taken.* ch other, creating s of oil and 9 bbls made and the wel cen. I scraped the affect le points and one s due to auger ref ng concentrations is true and comp id/or file certain re- ce of a C-141 repo- investigate and re- tance of a C-141	of prod il return eted are: backgro usal and below lete to t elease n ort by th	luced water, ed to service, a to minimize bund sample w d encountering detectable lim he best of my totifications an e NMOCD m e contaminati	The well was shu The fire consum the environmen vere collected to g hard rock. The its throughout. knowledge and hd perform corre arked as "Final 1 on that pose a th	at down a ned the fl tal impace 2 ft belo 2 ft	Ind shut in t luids that es at. On Febru w ground su mples were nd that purs ions for relo loes not reli round water	until fire dep scaped from ary 28, 201 arface (bgs) submitted to cuant to NM6 cases which eve the open surface wa	7, DFS and fic o Hall I OCD n may en rator of iter, hui	It willing.
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Describe Cat High winds r 207, resulting extinguished Describe Are DFSI persons were on site chlorides. Co Albuquerque I hereby certi regulations a public health should their of federal, state, Signature: Printed Name Title: Sr EH& E-mail Addre	use of Probl resulted in p g in a loss o the fire. A ea Affected nel respond to obtain so ollection of s e, NM to obt ify that the i il operators or the envi- operations h mment. In a , or local lan e: Aaron Hi &S Represen ess: ahicker 22/2017	pacted, Descr em and Reme ower line con f approximate t that time, rep and Cleanup / ed to the relea il samples. The samples halted tain confirmat information gi are required to ronment. The ave failed to a ddition, NMC ws and/or regu- ckert ntative	ibe Fully. ² dial Action tacting each last of the second hree sampled at 2 ft bg ion, yieldi ven above o report ar acceptance adequately OCD acceptions.	* n Taken.* ch other, creating s of oil and 9 bbls made and the wel cen. I scraped the affect le points and one s due to auger ref ng concentrations is true and comp id/or file certain re- ce of a C-141 repo- investigate and re- tance of a C-141	of prod I return teted are: backgro usal and below lete to t elease n ort by th emediat report d	luced water, ed to service, a to minimize bund sample w d encountering detectable lim he best of my lotifications at e NMOCD m e contaminati loes not reliev Approved by	The well was shi The fire consur- the environmen /ere collected to g hard rock. The its throughout. knowledge and hd perform corre- arked as "Final 1 on that pose a th e the operator of <u>OIL CON</u> Environmental 1 e:	at down a ned the fl tal impace 2 ft belo 2 ft	and shut in a luids that es at. On Febru w ground su mples were not that purs ions for rela loes not reli iound water ibility for ca <u>ATION</u>	until fire dep scaped from uary 28, 201 urface (bgs) submitted to cases which event to NMG cases which event to open , surface wa ompliance w DIVISIC	OCD n may en rator of tter, hur DN	It willing.

From:	Yu, Olivia, EMNRD
To:	"Laura Flores"; Oberding, Tomas, EMNRD
Cc:	<u>Michael Burton; Hickert, Aaron; TButters@linnenergy.com</u>
Subject:	RE: Linn - East Hobbs San Andres Unit #207 (1R-4631) Closure Report
Date:	Thursday, June 1, 2017 12:26:00 PM

Dear Ms. Flores:

Note: Incorrect information on pg. 1: the API well #, Case #, county.

Please address these concerns regarding the closure report for 1RP-4631.

- Due to the wide discrepancy between field and laboratory chloride values, proximity of numerous wells within 1000 ft. radius, and depth to groundwater, NMOCD requests additional vertical delineation. Vertically delineate to a minimum of 5 ft. bgs and maintain <= 250 mg/kg chloride levels in field and laboratory tests. At any depth the permissible chloride level is exceeded, vertical delineation extends a further 5 ft. in depth. Horizontally delineate edge of release until 600 mg/kg is obtained, which extend to include the background sample.
- 2. NMOCD RRALs are 10 mg/kg for Benzene, 50 mg/kg for BTEX, and 100 mg/kg for TPH.

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Laura Flores [mailto:lflores@diversifiedfsi.com]

Sent: Thursday, March 23, 2017 2:41 PM

To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>

Cc: Michael Burton <mburton@diversifiedfsi.com>; Hickert, Aaron <AHickert@linnenergy.com>; TButters@linnenergy.com

Subject: Linn - East Hobbs San Andres Unit #207 (1R-4631) Closure Report

Ms. Yu,

Attached is the Closure Report for the East Hobbs San Andres Unit #207 (1R-4631) site.

Please let us know if you have any questions.

Thank you,

Laura Flores Report Writer Environmental Department Diversified Field Service, Inc. 206 W Snyder | Hobbs, NM 88240 Phone: 575.964.8394 | Fax: 575.964.8396



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Appendix B: Laboratory Analytical Reports



September 26, 2022

CINDY CRAIN CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA, TX 79761

RE: EHSAU # 207

Enclosed are the results of analyses for samples received by the laboratory on 09/21/22 14:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		CRAIN ENVIROMENTAL CINDY CRAIN 2925 E. 17TH ST. ODESSA TX, 79761 Fax To:		
Received:	09/21/2022		Sampling Date:	09/21/2022
Reported:	09/26/2022		Sampling Type:	Soil
Project Name:	EHSAU # 207		Sampling Condition:	Cool & Intact
Project Number:	PENROC		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

Sample ID: S - 1 (H224391-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	83.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.3	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother bits ubsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CRAIN ENVIROMENTAL CINDY CRAIN 2925 E. 17TH ST. ODESSA TX, 79761 Fax To:		
Received:	09/21/2022		Sampling Date:	09/21/2022
Reported:	09/26/2022		Sampling Type:	Soil
Project Name:	EHSAU # 207		Sampling Condition:	Cool & Intact
Project Number:	PENROC		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

Sample ID: S - 2 (H224391-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEX	<0.300	0.300	09/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					
Surrogate: 1-Chlorooctane	83.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.1	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother bits ubsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/15/2022 8:51:25 AM

Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other: Cor	service. In no event shall Cardinal be liable for incidental or consequatifiaities or successors arising out of or related to the performance o Relinquished BV:	r e	Lab I.D. Sample I.D. HZ2 43 91 2 5-1 2 5-2	Project Location: Lea Co., NM Sampler Name: Circly Crain FOR LAB USE ONLY.	Cindy Caus 25 C. 174 St. 1550 1941-7244 EHSAU # 20	Laboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Crain Guirenmental Project Manager: A.
Date: Received By: Time: Observed Temp. °C <i>S</i> , <i>C</i> Sample Condition Corrected Temp. °C <i>S</i> , <i>C</i> OI Intact Pres Pres No No			GROUNDWATER WASTEWATER SOIL OIL	MATRIX	State: 72 Zip: 79761 Fax #: - Project Owner: Perroc) ratories arland, Hobbs, NM 88240 .2326 FAX (575) 393-2476 ain Guirenprented
CHECKED BY: (Initials)	ions, loss of use, or loss of profits incurred by cleant, it claim is based upon any of the above stated reasons Ver	a remedy for any claim arising whother based in contract or tort, shall be limited to the amount paid by the client for the policial or tort, shall be limited to the amount paid by the client for the applicable or tort, shall be limited to the amount paid by the client for the applicable or tort.	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : 9/21/22 E	Phone #: (575) 631-7450 Fax #: PRESERV SAMPLING	Company: Penel Attn: Merch Merchant Address: City: Hobbs State: NM Zip:	PO #
REMARKS: Turnaround Time: Standard P Bacteria (only) Sample Condition Thermometer ID #113 Correction Factor -0.5°C PYes Corrected Temp. °C	ent is subsidiaries. sons or offienvise. Verbal Result:	nar paid by the client for the applicable	ALCONTRACTOR			ANALYSIS REQUEST

Page 46 of 64



November 11, 2022

CINDY CRAIN CRAIN ENVIROMENTAL 2925 E. 17TH ST.

ODESSA, TX 79761

RE: EHSAU # 207

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 9:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		CRAIN ENVIROMENTAL CINDY CRAIN 2925 E. 17TH ST. ODESSA TX, 79761 Fax To:		
Received:	11/10/2022		Sampling Date:	11/08/2022
Reported:	11/11/2022		Sampling Type:	Soil
Project Name:	EHSAU # 207		Sampling Condition:	Cool & Intact
Project Number:	PENROC		Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO., NM			

Sample ID: SP - 3 (2') (H225318-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 3 (3') (H225318-04)

Chloride, SM4500Cl-B	mg /	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 3 (4') (H225318-05)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 3 (5') (H225318-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/11/2022	ND	416	104	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CRAIN ENVIROMENTAL		
		CINDY CRAIN		
		2925 E. 17TH ST.		
		ODESSA TX, 79761		
		Fax To:		
Received:	11/10/2022		Sampling Date:	11/08/2022
Reported:	11/11/2022		Sampling Type:	Soil
Project Name:	EHSAU # 207		Sampling Condition:	Cool & Intact
Project Number:	PENROC		Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO., NM			

Sample ID: SP - 2 (2') (H225318-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 2 (3') (H225318-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 2 (4') (H225318-10)

Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77	

Sample ID: SP - 2 (5') (H225318-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/11/2022	ND	432	108	400	3.77	

Sample ID: SP - 1 (2') (H225318-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



		CRAIN ENVIROMENTAL CINDY CRAIN 2925 E. 17TH ST. ODESSA TX, 79761 Fax To:		
Received:	11/10/2022		Sampling Date:	11/08/2022
Reported:	11/11/2022		Sampling Type:	Soil
Project Name:	EHSAU # 207		Sampling Condition:	Cool & Intact
Project Number:	PENROC		Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO., NM			

Sample ID: SP - 1 (3') (H225318-15)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77	

Sample ID: SP - 1 (4') (H225318-16)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77	

Sample ID: SP - 1 (5') (H225318-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2022	ND	432	108	400	3.77	

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Received by OCD: 12/15/2022 8:51:25 AM

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City: Udessa Phone #: (575) 441 - 7244	Fax #: ~	es -	
Ξ,	Project Owner: Penroc	city: HobbS	
Project Name: EHSAU #	207	State: Zip:	
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C (0. (° Sample Co Corrected Temp. °C C Cool, Int	Andition CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Themometer ID #113

Page 52 of 64

Received by OCD: 12/15/2022 8:51:25 AM

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Page 53 of 64



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Appendix C: Photographic Documentation

Photographic Log Penroc Oil Corporation EHSAU #207 August 31, 2022





EHSAU #207 well sign

View to NW of possible staining to S of EHSAU #207 well



View to SE of barren area to N of EHSAU #207 well



View to SW of EHSAU #207 well pad



View to NW of barren area to S of EHSAU #207 well



View to NW of well EHSAU #207 well pad

Page 1

Photographic Log Penroc Oil Corporation EHSAU #207 November 8, 2022



View of test hole S-3



View of test hole S-2





View to SE of vegetation at former release area

View of test hole S-1

Page 2



Appendix D: Final C-141

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000 Rio Brazos R District IV	District II Energy Mine						of New Mexico Is and Natural Resources Revis			Form C-14 Revised August 8, 201	
District III Oil Con 1000 Rio Brazos Road, Aztec, NM 87410 1220 Sc District IV 1220 Sc				South	servation Division uth St. Francis Dr. Fe, NM 87505			Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.			
			Rel	ease Notific	-		a state	ction	1		
						OPERA	TOR		X Initi	al Report	Final Rep
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Type of Release			ter				Release 9 bbl.		1. 1. 1. 1. 1.	Recovered	0
Source of Relea	ase poly	flow line				Date and H 2-23-17 3:	Iour of Occurren	ce	Date and 2-23-17	Hour of Dis 4:30.pm	scovery
Was Immediate Notice Given? X Yes No Not Required					quired	If YES, To Whom? Maxi Brown NMOCD					
By Whom? Rick Rickman						Date and Hour 4:30 pm If YES, Volume Impacting the Watercourse.					
Was a Watercourse Reached?											
If a Watercours	se was Im	nacted Descr	ibe Fully	h							
Describe Cause High winds res	e of Proble sulted in	em and Reme power line co	dial Actio	n Taken.* each other creat		By ks. Creating		u at is the fire	e traveled i	it burned th	e poly flow line to
Describe Cause High winds res LINN EHSAU extinguished the Describe Area The fire consu The affected an Should unacce	e of Proble sulted in J 207 resu the fire, at Affected a umed the f area will b eptable le	em and Reme power line of lting in a los t that time re and Cleanup A fluids that es be cleaned of vels be disco	dial Actio ontacting s of appro- pairs wer Action Tal caped fro debris an vered a re	n Taken.* each other creat ox ½ bbl. oil and re made and the ken.* m the flow line. d sampled for co emediation plan	d 9 bbl. well retu ontamin: will be n	ks. Creating water. The v urned to serv ation by a th nade.	y Olivia Y a grass fire, A well was shut do ice ird party contra	s the fire own and	e traveled i shut in un	it burned th til fire depa	ne poly flow line to artment had
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate no No information available	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \square The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Cindy Crain	Title: Agent for Penroc Oil Corporation
Signature: rain	Date: <u>12/13/22</u>
email: <u>cindy.crain@gmail.com</u>	Telephone: <u>(575) 441-7244</u>
OCD Only	
Received by:	Date:

Received by OCD: 12/15/2022 8:51:25 AM Form C-141 State of New Mexico

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Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>75</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

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

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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				Incident ID	nOY1706627456
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				Facility ID	
				Application ID	
regulations all operators ar public health or the environ failed to adequately investi	Isain	ifications an OCD does no eat to ground responsibili Title: Date:	d perform co ot relieve the lwater, surfa ty for compl	prrective actions for rele e operator of liability sh ce water, human health liance with any other fe or Penroc Oil Corpor	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only					
Received by:Jocelyr	n Harimon	D	ate:12	2/15/2022	

Received by OCD: 12/15/2022 8:51:25 AM Form C-141 State of New Mexico

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 \boxtimes Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
OCD Only			
Received by:	Date:		
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved		
Signature:	Date:		

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Oil Conservation Division

Incident ID	nOY1706627456
District RP	1RP-4631
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.			
A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)			
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)			
Description of remediation activities			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: <u>Cindy Crain</u> Title: <u>Agent for Penroc Oil Corporation</u> Signature: <u>Ling Grain</u> Date: <u>12/13/22</u> email: <u>cindy.crain@gmail.com</u> Telephone: <u>(575) 441-7244</u>			
OCD Only Jocelyn Harimon 12/15/2022			
Jocelyn Harimon 12/15/2022 Received by:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.			
Closure Approved by: Ashley Maxwell Date:2/13/2023			
Printed Name: Ashley Maxwell Title: Environmental Specialist			

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

CONDITIONS

Operator:	OGRID:
PENROC OIL CORP	17213
P.O. Box 2769	Action Number:
Hobbs, NM 882412769	167285
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	2/13/2023

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Action 167285