District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

E-mail Address: djones@cambrianmgmt.com

Attach Additional Sheets If Necessary

Phone: 432-620-9181

Date: 250ct13

# State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

IRP-9-13-2963

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action **OPERATOR** Initial Report X Final Report Name of Company VPR Operating, LLC **Contact Denise Jones** Address 1406 Camp Craft Road, Suite 106, Austin, TX Telephone No. 432-620-9181 Facility Name Stephanie Federal #1 Facility Type Tank Battery Surface Owner Private Mineral Owner BLM API No. 30-025-24646 LOCATION OF RELEASE Unit Letter Range North/South Line | Feet from the Section Township Feet from the East/West Line County T10S 4 37E D Lea Latitude 33.48158 Longitude -103.16429 NATURE OF RELEASE Type of Release Crude Oil Volume of Release 184 bbls Volume Recovered 12 bbls Source of Release Holding Tank Date and Hour of Occurrence Date and Hour of Discovery 7Sept13 1300hrs 8Sept13 1000hrs Was Immediate Notice Given? If YES, To Whom? ☐ Yes X No ☐ Not Required By Whom? N/A Date and Hour N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No If a Watercourse was Impacted, Describe Fully.\* N/A Describe Cause of Problem and Remedial Action Taken.\* A hole developed near the bottom of one of the tanks releasing crude oil into the battery overflowing into the pasture. A vacuum truck was utilized in the recovery of free standing liquid. Describe Area Affected and Cleanup Action Taken.\* The impacted area was the tank battery and adjacent pasture. The approved work plan was followed with approximately 2' of impacted material being excavated and stockpiled. Four soil samples from the pasture and two from the battery were obtained and analyzed for TPH, Chlorides, and BTEX. Only two sample points (SP1 & SP2) exceeded closure limits for TPH. Further excavation was conducted and the two areas resampled. Lab results indicated both sample points were below closure limits. Lab results were presented to NM OCD's Geoffrey Leking seeking closure approval. Closure approval was granted and the excavated areas were backfilled with fresh material from a nearby source. The pasture was re-seeded and the fence around the battery was put back. All impacted soil was transported to a division approved disposal facility for disposal. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. Signature: Approved by Environmental Specialist Printed Name: Denise Jones Approval Date: 10 29 13 Title: Regulatory Analyst Expiration Date:

Conditions of Approval:

PSAD1327651105

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 8, 2011

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

			Rele	ease Notific	ation	and Co	rrective A	ction					
						OPERA'	ror	ĭ Initi	al Report	Final Rep			
Name of Co	ompany V	PR Open	ating,	LLC		Contact	Denise Jo	nes					
Address /2	106 Can	np Croft Ro	ad, She	160 Austra, TX		Facility Type Tank Rottery							
Facility Na	me Ste	phanic F	ederal	787	46 11	acility Typ	e Tank b	atkry					
Surface Ow	ner			Mineral C	wner '	BLM		API No	. 30-005	-24646			
				LOCA	TION	OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County				
D	4	T-10-S	R-37-E	660	No	rth	660	west	Lea				
			Lat	titude		Longitud	e						
				NAT	URE	OF RELI	EASE						
Type of Rele	ase Oil				UIG			bbls   Volume	Recovered	Add GI			
Source of Re						Date and H	our of Occurrence	Date and	Hour of Disco	overy			
Was Immedia	ate Notice (		Yes 🛚	No Not Re	equired	If YES, To Whom? 9-7-13 1:00 PM 9-8-13 10100 AM							
By Whom?						Date and Hour							
Was a Water	course Read		Yes 🔀	No		If YES, Volume Impacting the Watercourse.							
If a Watercou	man sunn Im	mandad Dagar	he Fully *										
Describe Cau	se of Probletank.	em and Reme Tank wi	dial Action	Taken.* epaired/rep	laced	as req	wi red			1.76			
Describe Are	Affected:	and Cleanup	ction Tak	en *									
Please			www.										
regulations all public health should their o	or the environment. In a	are required to ronment. The ave failed to a ddition, NMC	acceptance acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no rt by the emediate	tifications ar NMOCD ma contamination	d perform correct arked as "Final Roon that pose a three the operator of a	nderstand that pur- tive actions for rel eport" does not rel eat to ground wate responsibility for c	eases which m ieve the operat r, surface wate ompliance wit	nay endanger tor of liability or, human health th any other			
C		0					OIL CON	SERVATION	DIVISION	1			
Signature: 1	2000	Vinna											
Printed Name	Denie	se Jones	5		A	approved by	Environmental Sp	pecialist:					
Title: Rea		Analys	,		A	approval Dat	c:	Expiration	Date:				
0	1	-		mant cor		Conditions of		1					
^	4-13			432-620-918	-	Thursday L							
Attach Addit		ts If Necess	2 220110.	100 000 110									

#### 1.0 Introduction

This report addresses the site remediation of the Stephanie Fed#1 tank battery belonging to VPR Operating LLC. Analytical results, C 141's, an overhead map, and a general scope of work performed are included in this document. The project manager for Hungry Horse, LLC was Oscar Frayre.

#### 2.0 Area Description

The geographical area consists mainly of caliche rock with the top two feet of soil being fine sand. The primary vegetation is an assortment of range grasses, mesquite bushes, and small yucca plants. Based upon the Lea County Depth to Groundwater Map, the depth to the ground water is presumed to be 130'- 150'. Within a half a mile of this location there is one known water well (141') and two surface bodies of water used for watering livestock. This tank battery is in Lea County, NM approximately 3 miles west of the intersection of HWY 125 and White Ranch Road off White Ranch Road NE of Tatum NM.

#### 3.0 Site Remediation Process

The remediation of this active tank battery site was the results of a crude oil release due to a storage tank developing a hole near the bottom of the tank. All unrecovered fluids were absorbed into the soil.

A remediation work plan was submitted to Geoff Leking, NMOCD and the work plan was approved as written.

The work plan was executed as approved with the excavated area being 70'W x 97'L x 2'D. The remediation consisted of obtaining soil samples from inside the battery (2 points) as well as samples from the pasture (4 points). All initial samples were obtained at 2'below ground surface (BGS). All samples were transported under chain of custody to Cardinal Lab in Hobbs, NM for analysis. All samples were analyzed for TPH, BTEX, and Chlorides. Lab results indicated that <u>none</u> of the six samples contained CL or BTEX greater than the closure levels. Only <u>two</u> of the six samples, SP#1 and SP#2, had an elevated level of TPH.

Further excavation at SP#1 and SP#2 was conducted in order to determine the downward penetration of the contaminants. Proceeding with further excavation in both sample points down to 2'.5" BGS allowed us to resample both sample points and re-test for any further contamination. All samples were handled in the same manner as the initial samples. Lab results indicated TPH is lower than closure levels. Lab results were presented to NM OCD Geoffrey Leking seeking closure approval. Closure approval was granted.

The excavated area was backfilled using caliche topping it off with a 1'.5" of top soil and the well pad was back bladed upon completion of the backfilling. All impacted soil was transported to a division permitted facility for disposal.

# HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

11Sept13

To: Geoffrey Leking, NM OCD Jim Amos, BLM Reference: Remediation Work Plan Location: Stephanie Federal #1

API: 30-025-24646

Operator: Cambrian Management Legals: Ul. D, Sec 4, T10S, R37E GPS: N 33.48158, W-103.16429

#### Background

This proposed remediation work plan is in response to an accidental crude oil release that happened on or about 7Sept13. The release was due to a hole near the bottom of a storage tank. The impacted area is the south part of the fenced battery  $(60' \times 35')$  and an area in the pasture to the south of the battery  $(20' \times 55')$  and east of the battery  $(100' \times 100')$ .

The impacted area is located in rural northern Lea County, NM. It is approximately 3 miles west of the intersection of Hwy 125 and White Ranch Road off White Ranch Road. The impacted area is ranch land with the vegetation consisting of native grasses, yucca plants, and scattered mesquite bushes. There is one water well and a surface body of water .41 miles to the northeast of the location which is used for watering livestock. The rancher, Mr. Michael Harton, advised the depth to ground water is 144'. The Lea County Depth to Groundwater Map shows the depth to groundwater to be between 130'-150'. There is no ground water data listed on the NM Office of State Engineer's website for the section, township, and range. The impacted area is on deeded land with federal mineral rights.

#### Remediation Proposal

After a site assessment and phone conversations with the land owner, I propose to remediate the impacted area by breaking it into two separate work areas, the pasture and inside the fenced battery. I propose to excavate the impacted area of the pasture to a depth of 2' below ground surface (BGS) in order to remove the saturated soil. All impacted soil will be stock piled on the location for transportation to a division approved disposal facility. Soil samples will be obtained and delivered to Cardinal Lab in Hobbs, NM for TPH, BTEX, and Chloride analysis. Lab results will be presented to NM OCD's Geoffrey Leking seeking closure approval or an alternative plan for further remediation.

I propose to excavate the impacted area inside the fence to a depth of 3' below the grade of the existing battery and obtain soil samples. These samples will handled and analyzed in the same manner as the ones from the pasture. Upon receipt of the lab results, they will be presented to Geoffrey Leking seeking closure approval or an alternative method of closure.

Upon receipt of closure approval, both work areas will be backfilled with clean soil from a local source. The firewalls on the battery will be reconstructed and the fence put back. The area in the pasture will be seeded using an approved seed mixture. A closure report detailing remediation activities will be submitted.

Vernon K. Black, Hungry Horse, LLC

# Vernon Black

From:

Leking, Geoffrey R, EMNRD [Geoffrey R. Leking@state.nm.us]

Sent:

Friday, September 27, 2013 1:23 PM

To:

djones@cambrianmgmt.com

Cc: Subject:

Vernon Black VPR Stephanie Federal 001

#### Denise and Vernon

The plan dated September 11, 2013 pertaining to the above referenced site is approved. Please put any stockpiled soils on plastic. Thank you.

**Geoffrey Leking Environmental Specialist NMOCD-Hobbs** 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us



October 14, 2013

OSCAR FRAYRE

**Hungry Horse Environmental** 

P.O. Box 1058

Hobbs, NM 88240

RE: STEPHANIE FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/10/13 16:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2 Ha

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.

Celey D. Keene

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. Keene

Lab Director/Quality Manager



Hungry Horse Environmental OSCAR FRAYRE P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

10/10/2013

Reported:

10/14/2013

Project Name:

STEPHANIE FED #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 1 BOTTOM @ 2' (H302464-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/11/2013	ND	2.04	102	2.00	0.908	
Toluene*	<0.050	0.050	10/11/2013	ND	2.06	103	2.00	0.355	
Ethylbenzene*	0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252	
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172	
Total BTEX	<0.300	0.300	10/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3 5	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2013	ND	205	102	200	4.66	
DRO >C10-C28	529	10.0	10/11/2013	ND	198	98.9	200	11.7	
Surrogate: 1-Chlorooctane	89.69	65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 %	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg E Keena



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

Hungry Horse Environmental OSCAR FRAYRE P.O. Box 1058 Hobbs NM, 88240 (505) 391-4585 Fax To:

186 %

63.6-154

Received: 10/10/2013 Reported: 10/14/2013 Project Name: STEPHANIE FED #1

Project Number: NONE GIVEN

**NOT GIVEN** Project Location:

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: PT. 2 BOTTOM @ 2' (H302464-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2013	ND	2.04	102	2.00	0.908	
Toluene*	0.428	0.050	10/11/2013	ND	2.06	103	2.00	0.355	
Ethylbenzene*	1.54	0.050	10/11/2013	ND	2.08	104	2.00	0.252	
Total Xylenes*	1.50	0.150	10/11/2013	ND	6.17	103	6.00	0.172	
Total BTEX	3.46	0.300	10/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2013	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/11/2013	ND	205	102	200	4.66	
DRO >C10-C28	4420	50.0	10/11/2013	ND	198	98.9	200	11.7	
Surrogate: 1-Chlorooctane	94.0	% 65.2-14	0						

# Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keena



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

Hungry Horse Environmental OSCAR FRAYRE P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

10/10/2013

Reported:

10/14/2013

Project Name:

STEPHANIE FED #1

Project Number:

NONE GIVEN

104%

63.6-154

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

#### Sample ID: PT. 3 BOTTOM @ 2' (H302464-03)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2013	ND	2.04	102	2.00	0.908	
Toluene*	0.063	0.050	10/11/2013	ND	2.06	103	2.00	0.355	
Ethylbenzene*	0.177	0.050	10/11/2013	ND	2.08	104	2.00	0.252	
Total Xylenes*	0.154	0.150	10/11/2013	ND	6.17	103	6.00	0.172	
Total BTEX	0.394	0.300	10/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2013	ND	205	102	200	4.66	
DRO >C10-C28	34.6	10.0	10/11/2013	ND	198	98.9	200	11.7	
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	0						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg D. Keine

Hungry Horse Environmental OSCAR FRAYRE P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

10/10/2013

Reported: Project Name: 10/14/2013 STEPHANIE FED #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 4 BOTTOM @ 2' (H302464-04)

B1EX 8021B	mg/	кд	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2013	ND	2.04	102	2.00	0.908	
Toluene*	0.085	0.050	10/11/2013	ND	2.06	103	2.00	0.355	
Ethylbenzene*	0.271	0.050	10/11/2013	ND	2.08	104	2.00	0.252	
Total Xylenes*	0.196	0.150	10/11/2013	ND	6.17	103	6.00	0.172	
Total BTEX	0.553	0.300	10/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2013	ND	205	102	200	4.66	
DRO >C10-C28	80.3	10.0	10/11/2013	ND	198	98.9	200	11.7	
Surrogate: 1-Chlorooctane	88.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keina

Hungry Horse Environmental OSCAR FRAYRE P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

10/10/2013

Reported:

10/14/2013

Project Name:

STEPHANIE FED #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 5 @ 2' (H302464-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS		www.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2013	ND	2.04	102	2.00	0.908	
Toluene*	<0.050	0.050	10/11/2013	ND	2.06	103	2.00	0.355	
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252	
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172	
Total BTEX	<0.300	0.300	10/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2013	ND	205	102	200	4.66	
DRO >C10-C28	12.2	10.0	10/11/2013	ND	198	98.9	200	11.7	
Surrogate: 1-Chlorooctane	89.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.5	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client'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, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors 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.

Celey D. Keine

Hungry Horse Environmental OSCAR FRAYRE P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

10/10/2013

Reported:

10/14/2013

Project Name:

STEPHANIE FED #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

2011

Sample Received By:

Cool & Intact Jodi Henson

#### Sample ID: PT. 6 @ 2' (H302464-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2013	ND	2.04	102	2.00	0.908	
Toluene*	<0.050	0.050	10/11/2013	ND	2.06	103	2.00	0.355	
Ethylbenzene*	<0.050	0.050	10/11/2013	ND	2.08	104	2.00	0.252	
Total Xylenes*	<0.150	0.150	10/11/2013	ND	6.17	103	6.00	0.172	
Total BTEX	<0.300	0.300	10/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/11/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2013	ND	205	102	200	4.66	
DRO >C10-C28	<10.0	10.0	10/11/2013	ND	198	98.9	200	11.7	
Surrogate: 1-Chlorooctane	87.2 9	% 65.2-14	0					-/	
Surrogate: 1-Chlorooctadecane	96.29	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Qbhf !8!pg:



# **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

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Celey D. Keena

Celey D. Keene, Lab Director/Quality Manager

Qbhf !9!pg:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

Company Name	Company Name: Conner of Conner			7/8 = 1/3 == 14			ANA	I Veie	ANAI VSIS DECLIEST	TO		
Project Manager:	Dr. O com Com me		P.O. #:			F	-		-		L	I
Address: 105-8	3		Company:							-		
City: (40/01)5		State: N. A. Zip: 99246	Attn:		:							
Phone #:			Address:				-					
Project #:	Project Owner:	Camberian Manue ant	Clty:		-							
Project Name:	True Butter of Permisher	restan	State:	Zip:			·				-	
Project Location:	Stephony Fe		Phone #:					_			periodore	
Sampler Name:	Y		Fax #:						-			
FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING							-	
		RS									-	
Lab I.D.	Sample I.D.	AMGI TAW	38V		1	111						
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				5		-		-				

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 39(4328

Delivered By: (Circle One) Sampler - UPS - Bus - Other:



October 16, 2013

OSCAR FRAYRE

**Hungry Horse Environmental** 

P.O. Box 1058

Hobbs, NM 88240

RE: STEPHANIE FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



**Hungry Horse Environmental** OSCAR FRAYRE P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

10/15/2013

Reported:

10/16/2013

Project Name:

STEPHANIE FED #1

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

10/15/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT #1 @ 2.5' (H302500-01)

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	<10.0	10.0	10/15/2013	ND	200	100	200	2.31	
Surrogate: 1-Chlorooctane	98.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

#### Sample ID: PT #2 @ 2.5' (H302500-02)

TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	<10.0	10.0	10/15/2013	ND	200	100	200	2.31	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.2	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



#### **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.
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Cardinal Laboratories

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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:			A	ANALYSIS REQUEST	
Project Manager:		P.O. #:			
Address: 1058 Expice the		Company:			
,	State: 11 Zip: 882 40	Attn:			_
-		Address:			
Project #: Project Owner(	Consider Morroment City:	City:			
Project Name:	,	State: Zip:			
Project Location Se donnie Ce of #1		Phone #:	-		
SCAR C		Fax#:	M		
	MATRIX	PRESERV. SAMPLING	5/		
Lab I.D. Sample I.D.	B OR (C)OMP. TAINERS NDWATER EWATER BE	BASE:	eft 801.		
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7 D+#2 CD:5"	€ ×	X 101543 2:50	X		
PLEASE NOTE: Libelly and Cardinal's labelly and clerk's exculsive remedy for any clerk greener based in contract or for, shall be immed to the smouth paid by the clerk for the	by claim arising whether based in contract	t or tort, shall be limited to the amount paid by the client	or the		

Sampler - UPS - Bus - Other: Delivered By: (Circle One) † Cardinal cannot accept verbal changes. Please fax written changes to (575) 313. Time: 1-Splines Elpiny - hour on trayer to hungry lorse came



October 16, 2013

OSCAR FRAYRE

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: STEPHANIE FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager

approved for backfill

Environmental Specialist

10/16/13

Page: 001

New Mexico One Call
Locate Request Confirmation Header Code: STANDARD LCCATE

Ticket No: 2013400306 Seg. No: 0

Update of:

Original Call Date: 09/30/2013 Time: 09:11:24 AM OP: 306 Transmit Date: 09/30/2013 Time: 09:21:57 AM Work to Begin Date: 10/02/2013 Time: 09:11:00 AM

Company: HUNGRY HORSE LLC

Contact Name: VERNON BLACK Contact Phone: (575) 631-1217

Request Type:

Alternate Contact: Alternate Phone:

Best Time to Call: Fax No: (575)391-4585

Cell Phone: (575)631-2253 Pager No:

Email:

State: NM County: LEA City: RURAL LEA

Address: , STEPHANIE FEDERAL #1

To Address:

Nearest Intersecting Street: 33.48158/-103.16429

2nd Intersecting Street:

Subdivision:

Latitude: 33.48155650 Longitude: -103.16426150

Zip Code: Gaid:

Location of Work: FRM:INTERSECTION OF NM-125 & WHITE RANCH RD,GO NW ON WHITE RANCH RD FOR 2.5MI,TRN L(S) FOR 0.3MI, TRN L(E) FOR AFFX. 200 YDS TO LOCATION & BATTERY SPOT:ENTIRE BATTERY FAD & S&E SIDE OUTSIDE OF PAD. AREAS MARKED WITH WHITE RIBBON.

Remarks: POSS, H2S GAS/ OPEN ACCESS

Type of Work: SOIL REMEDIATION

Private Property: Street: Overhead Lines: Blasting:

Easement: Mechanical Boring: Premarked:

Work Being Done For: CAMBRIAN MANAGEMENT

The following utility owners have been notified:

SAUN

#### IMPORTANT CONFIRMATION NOTICE

Your fax request has been received and processed. It is your responsibility to review the information provided on this faxback confirmation ticket and ensure it has been correctly interpreted from your request. Notify us immediately of any corrections or errors. Acceptance of this faxback confirmation ticket means you accept responsibility for the accuracy of the information contained in the ticket and you agree to indemnify New Mexico One Call Systems, Inc. of all liability, claims, fees, or damages, including reasonable attorney fees arising from or resulting from the use of the information provided on this confirmation ticket.

New Mexico Law requires you to wait two working days from the date and time of this confirmation notice before you begin excavation. This request is valid for ter working days. Only the facility owners listed on this ticket will be notified.

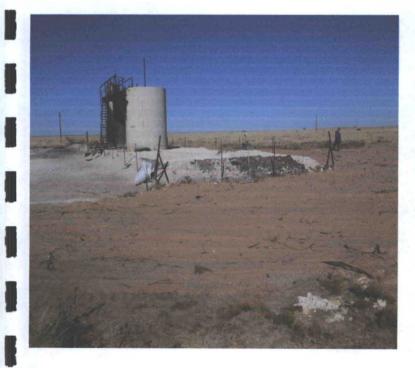
You can check the Locate Status of this ticket and request other tickets by visiting the our website at www.nmcnecall.org.













KEY Cambrian Management Stephanie Fed#1 w 50 Location Pad and Pump jack Tank Battery z  $\rightarrow$ 

Sample Points @2'





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

No records found.

PLSS Search:

Section(s): 4

Township: 10S

Range: 37E

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.

9/11/13 10:40 AM

Page 1 of 1

WATER COLUMN/ AVERAGE DEPTH TO WATER