

HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES

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

19May14

To: Mike Bratcher, New Mexico Oil Conservation Division, District 2

Reference: Remediation Work Plan

Location: Delhi B State #003

Operator: Alamo Permian Resources

API: 30-025-39590

Legals: UL. M, Sec. 28, T17S, R28E (Eddy County)

GPS: N32.80044, W-104.18832

2RP-2263

Dear Mr. Bratcher,

Hungry Hose, LLC has been contracted Alamo Permian Resources to conduct the soil remediation at the above referenced location for the release that occurred 26Mar14. This remediation work plan is being submitted for your review and feedback.

Location

This location is in rural Eddy County, New Mexico and is located west of Loco Hills, New Mexico on the north side of Highway 82 at mile marker #120, approximately 400 yards off the highway. The vegetation in this area is primarily creosote bushes, mesquite, yucca cactus, and various range grasses. The area is relatively flat with a few rolling sand dunes. Based upon the Eddy County Depth to Groundwater Map, the depth to groundwater is greater than 100'. There are no known water wells or surface bodies of water within 1000' of this location.

Work Conducted to Date

Upon detection of the release, a back-hoe was used to help contain the release and to remove the saturated layer of soil. A thin layer of caliche was then spread over the hydrocarbon stained area to assist in the drying of the remaining areas that were damp.

Proposed Remediation Plan

The impacted area is approximately a 50' x 50' area in the immediate vicinity of the well head and to the east of the wellhead. The release was contained to the existing well pad and no area off the caliche pad was impacted.

I propose to hand excavate the impacted soil around the well head until a safe work zone is created for a back-hoe to begin excavating the pad. The back-hoe will be used to excavate the impacted soil from the pad. All impacted soil will be placed in a truck for transportation or on a plastic liner if awaiting transportation. Upon reaching the depth at which the caliche pad stops, field tests for chlorides will be conducted. If field test results indicate chloride levels at 1000ppm or less, confirmation samples will be obtained for laboratory analysis.

HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES

Laboratory results will be presented to you for closure approval. When such approval is granted, fresh caliche will be used for backfilling the excavation and the pad brought back to grade. A Final C-141 along with closure documentation will be submitted.

Sincerely,

Vernon K. Black, Hungry Horse, LLC

c.c. Carey Stoker



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

May 30, 2014

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: DELHI B STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 05/23/14 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/23/2014
 Reported: 05/30/2014
 Project Name: DELHI B STATE #3
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/23/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #1-25' E OF WELLHEAD 1.5' BGS (H401595-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2014	ND	2.30	115	2.00	1.75	
Toluene*	<0.050	0.050	05/29/2014	ND	2.33	116	2.00	2.64	
Ethylbenzene*	<0.050	0.050	05/29/2014	ND	2.23	111	2.00	2.07	
Total Xylenes*	<0.150	0.150	05/29/2014	ND	6.96	116	6.00	2.23	
Total BTEX	<0.300	0.300	05/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	05/29/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2014	ND	192	96.2	200	1.06	
DRO >C10-C28	<10.0	10.0	05/28/2014	ND	206	103	200	4.66	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/23/2014
 Reported: 05/30/2014
 Project Name: DELHI B STATE #3
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/23/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #2-10' NE OF WELLHEAD 1.5' (H401595-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/29/2014	ND	2.30	115	2.00	1.75		
Toluene*	<0.050	0.050	05/29/2014	ND	2.33	116	2.00	2.64		
Ethylbenzene*	<0.050	0.050	05/29/2014	ND	2.23	111	2.00	2.07		
Total Xylenes*	<0.150	0.150	05/29/2014	ND	6.96	116	6.00	2.23		
Total BTEX	<0.300	0.300	05/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	05/29/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/28/2014	ND	192	96.2	200	1.06		
DRO >C10-C28	53.6	10.0	05/28/2014	ND	206	103	200	4.66		

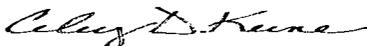
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Hungry Horse, LLC</u>				BILL TO				ANALYSIS REQUEST																				
Project Manager: <u>Vernon K. Black</u>				P.O. #:																								
Address: <u>PO Box 1058</u>				Company:																								
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88241</u>				Attn:																								
Phone #: <u>575-393-3386</u> Fax #: <u>575-391-4585</u>				Address:																								
Project #: _____ Project Owner: <u>Alamo Permethes</u>				City:																								
Project Name: <u>Delhi B State #3</u>				State: _____ Zip: _____																								
Project Location: <u>Eddy County NM</u>				Phone #:																								
Sampler Name: <u>Vernon K. Black</u>				Fax #:																								
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.		(GIRAB OR (C)OMP # CONTAINERS	MATRIX						PRESERV.		SAMPLING		Chlorides TPH BTEX													
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE													TIME	
H401595		1 SP#1-25' East of Wellhead 1.5' BGS		6									23/4/11		1300													
2		SP #2 - 10' NE of Wellhead 1.5'		6									23/4/11		1300													

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>		Date: <u>23/4/11</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Phone #: _____)	
Time: <u>1530</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Fax #: _____)	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other: <u>3.20</u>				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Initials: <u>[Signature]</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #411

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Wednesday, May 21, 2014 7:36 AM
To: 'Vernon Black'
Subject: RE: Remediation Work Plan

Vernon,

That will work, but we will need testing for hydrocarbons (TPH & BTEX) in addition to the chloride tests.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Vernon Black [<mailto:VBlack@Hungry-Horse.com>]
Sent: Tuesday, May 20, 2014 7:33 AM
To: Bratcher, Mike, EMNRD
Subject: Remediation Work Plan

Good Morning Mike,

Please take a look at the attached work plan and provide your guidance. It's not much to it....a stuffing box blew out and the release remained on the pad. We'll get it knocked out upon your approval.

Vernon K. Black
Hungry Horse, LLC
PO Box 1058
Hobbs, NM 88241
575 393 3386 office
575 631 2253 cell

2RP-2263

Bratcher, Mike, EMNRD

From: Vernon Black <VBlack@Hungry-Horse.com>
Sent: Tuesday, May 20, 2014 7:33 AM
To: Bratcher, Mike, EMNRD
Subject: Remediation Work Plan
Attachments: Alamo Permain Resoources Delhi B St 3 Wk Plan.docx

Good Morning Mike,

Please take a look at the attached work plan and provide your guidance. It's not much to it.....a stuffing box blew out and the release remained on the pad. We'll get it knocked out upon your approval.

Vernon K. Black
Hungry Horse, LLC
PO Box 1058
Hobbs, NM 88241
575 393 3386 office
575 631 2253 cell

Bratcher, Mike, EMNRD

From: Vernon Black <VBlack@Hungry-Horse.com>
Sent: Tuesday, June 10, 2014 7:37 AM
To: Bratcher, Mike, EMNRD
Subject: FW: DELHI B STATE #3
Attachments: H401595 HHE.pdf

Hey Mike, take a look at these and give me a call when you get a minute....This is 2RP-2263.

Thanks,
Vernon

From: Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]
Sent: Friday, May 30, 2014 12:04 PM
To: Vernon Black
Subject: DELHI B STATE #3

THANK YOU,

Celey Keene
Lab Director
Cardinal Laboratories
101 East Marland
Hobbs, NM 88240
T: (575) 393-2326
F: (575) 393-2476
e-mail: celey.keene@cardinallabsnm.com

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Bratcher, Mike, EMNRD

From: Vernon Black <VBlack@Hungry-Horse.com>
Sent: Tuesday, June 10, 2014 3:34 PM
To: CARIE STOKER
Cc: Bratcher, Mike, EMNRD
Subject: Delhi B State #3

Hey Carie,

I just talked with Mike Bratcher and he is in agreement that due to the close proximity of our work area to the well head, it is not feasible and/or safe to use a hammer hoe or drill to complete the removal of the remaining chlorides. Closure approval is given under the condition that a complete remediation will be conducted upon P&A of the well. This statement will be included in the closing report and Final C141.

Vernon K. Black
Hungry Horse, LLC
PO Box 1058
Hobbs, NM 88241
575 393 3386 office
575 631 2253 cell