Great Western Drilling Company Site Remediation Summary

Coats Comm. #1 API 30-015-33409 Eddy County, New Mexico UL. A, Sec. 19, T18S, R26E GPS N32.73801 W-104.41576 Start date: 17Dec2012 Finish date: 24Aug13

Prepared By: Vernon K. Black

Environmental Technician Hungry Horse, LLC PO Box 1058 Hobbs, NM 88241 (575)-393-3386



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1. Introduction

This report address's the remediation of a condensate release at Great Western Drilling Company's Coats Comm. #1. The remediation is the result of a frozen and busted valve on a storage tank. All regulatory documents and lab analysis are included with this report. Hungry Horse, LLC was the remediation contractor for the project and the Project Manager was Vernon K. Black.

2. Background Information

The location is approximately seven miles south of Artesia, NM off Hwy 385 just south of the Rio Penasco River in rural Eddy County. The geographical area consists of a very thin layer of topsoil on top of caliche. The main vegetation in the immediate area is small "grease wood" plants with scattered native grasses. The impacted area was behind the two storage tanks in the edge of the pasture off the location.

3. Site Remediation Process

As referenced in the work plan (see attached), delineation results indicated an impacted area approximately 25' x 25' x 13'. Lab analysis indicated the prime contaminant being light end hydrocarbons, GRO (Gasoline Range Organics). The proposal was made to and approved by NM OCD's Mike Bratcher to conduct land farm or in-situ remediation on the existing well pad.

The impacted area was mechanically excavated with the excavated material being stockpiled on the pad. Upon completion of the excavating, the material was spread to a depth of approximately 18' deep and clean soil was used to construct a berm around the material. The impacted soil was disked and tilled at various times from ______to _____. Hot weather and mild winds aided in the biodegradation of the hydrocarbons.

On 26July13, soil samples were obtained and carried to Cardinal Lab in Hobbs for TPH, BTEX, and Chloride analysis. Lab results indicated contaminant levels at or below closure limits with the exception of the north wall of the excavation which had slightly elevated levels of chlorides. The north wall of the excavation is the one closest to the tanks. Further excavation in the direction of the tanks would have proven to be an unsafe excavation. Closure approval was granted with the stipulation the Chlorides be remediated at the time the tanks are taken out of service and moved.

The impacted area was backfilled with the clean spoil and contoured to match the surrounding terrain and the pad was back dragged.

Attachment 1

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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.

	Release Notification and Corrective Action									
n MLB/20+	640896			9338	}	OPERAT	OR	X Init	ial Report	Final Report
Name of C	ompany GF	REAT WES	TERN DE	ULLING COM	PANY	Contact SAI	AROBERTS			
Address P.	O. BOX 10	559 MIDLA	<u>ND, , TX</u>	79702	-	Telephone N	lo. (432)682-52	241		
Facility Na	me COATS	5 COM #1			1	Facility Typ	COIL TANK			
Surface Ow	mer WAY	NE NEATH	ERLIN	Mineral (Owner V	ARIOUS		API No	0.30-015-32	3409
				LOCA	ATION	N OF REI	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County	
A	19	18-S	26-E	990	NORT	гн	990	EAST	EDDY	
(Latitude 32 44' 16.14" Longitude 104 24' 55.18"									
						-				
NATURE OF RELEASE Type of Release OIL (CONDENSATE) Volume of Release 180 Volume Recovered 0										
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Was a Water		ched?		_	•			the Watercourse.	·····	
\square Yes \square No N/A										
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E-mail Addr	ess:					Conditions of	Approval:		A	
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Facility Nar	ne Coats	Comm #1				Facility Typ	e Oil Tank					
Surface Owner Wayne Neatherlin Mineral Owner						Various	·····		API No	. 30-015-33	3409	
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Unit Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from the	East/	West Line	County		
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By Whom? S	am Rober				· · · · · · · · · · · · · · · · · · ·		lour 3Jan12 @1	230 hrs				
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				and lab analysi ation was backfil				to NM	OCD's Mil	ke Bratcher	for closu	re
Thereby certi	fy that the	information o	iven abov	e is true and comp	nete to	the best of my	knowledge and	underst:	and that ours	suant to NM(CD rule	s and
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Printed Name		·····									<u></u>	
Title: Pure	chasing	Manage	<u> </u>	·····		Approval Da	te:		Expiration	Date:		
E-mail Addre	ess: dpende	r@gwdc.com				Conditions of	Conditions of Approval:			Attached		
Date: 27Aug				2-682-5241								
Attach Addi	tional She	ets If Neces				2RP-102	3					

Attachment 2

HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

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

25Jan13

To: Mike Bratcher, NM OCD District 2 Reference: Remediation Work Plan Operator: Great Western Drilling Company Location: Coats Comm #1 API # 30-015-33409 Legals: UL. A, Sec 19, T18S, R26E, Eddy County, NM 2RP-1023

Background Information

This proposed work plan addresses the remediation at the above referenced location. The remediation is due to a condensate release that resulted from a frozen and busted valve/tee. All released liquids either evaporated or soak into the ground behind the two storage tanks. This location is seven miles south of Artesia, NM across the Rio Penasco River behind the roadside park. Based upon the Eddy County Depth to Groundwater Map, the depth to groundwater is 125'. There are no known water wells or surface bodies of water within 1,000 feet of this location.

Work Conducted to Date

A site assessment was conducted on 7Sept12, and it was noted that there was no visual evidence of a release. A second trip was made to the location to obtain soil samples. Two sample points directly behind the tanks were selected with samples being obtained at the surface and at 5' Below Ground Surface (BGS). Lab analysis indicated an elevated level of light end hydrocarbons (GRO). This discovery prompted a delineation of the area in order to determine the extent of the contamination.

A delineation of the impacted area was conducted on 300ct12, using a backhoe with soil samples being field tested and select samples being analyzed at Cardinal Lab for Chlorides, TPH, and BTEX. The analytical results are included with this work plan.

Remediation Proposal

Based upon lab analysis and depth to groundwater, I propose to conduct a Land farm/In-situ remediation by mechanically excavating the impacted area and using the well pad for the land farm location. The well pad is isolated and not on a heavily traveled road and not subject to truck/vehicle traffic. The pad has an existing earthen berm on the west/northwest side that will aid in preventing run-off in the event of rain.

Page | 1

HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

The impacted area is approximately 25' x 25' x 13', which will yield approximately 300-345 cubic yards of soil which I propose to spread on the pad to a depth of approximately 18". This material will be treated with Micro-Blaze and then turned and or disked regularly to enhance biodegradation of the contaminants. Should dry conditions prevail, fresh water may be applied to assist in the biodegradation efforts prior to disking and turning. The excavated area will be fenced to protect wild life and domestic animals until such time to backfill.

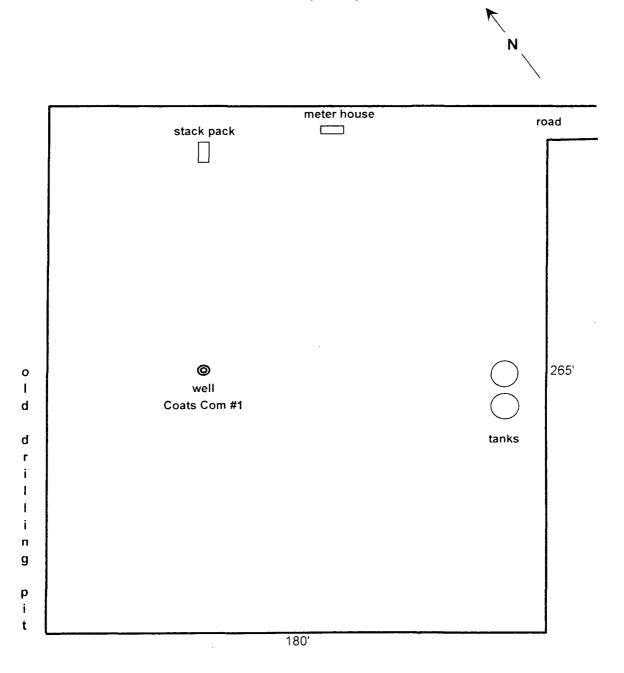
Soil samples from the land farm area will be periodically collected and field tested for TPH. Upon obtaining field test that indicate contaminant levels at or below division closure levels, a composite soil sample from the land farm area will be collected and laboratory analysis conducted for TPH, BTEX, and Chlorides. Additionally, soil samples will be obtained from the excavation and analyzed for the same contaminants. Lab analysis will be presented to Mike Bratcher, NM OCD, for his closure approval. Upon receipt of closure approval, the soil from the land farm area will be recovered and placed back in the excavated area, leveled and seeded.

Vernon K. Black, Hungry Horse, LLC

cc Dennis Pender

COATS COM #1 LOCATION AND TANK BATTERY PLAT

NE NE Sec 19 T18S R26E Eddy County, New Mexico



Good Morning Mike,

Thanks for taking the time to meet with me yesterday to discuss the above referenced work plan. As you advised, we will make contact with the landowner to discuss the work plan. I'll let you know when the excavation is complete and the material is land farmed on the location. I'll stay in contact with you on the progress we make. Upon your approval, I'll make the One Call and we'll get the work scheduled. I appreciate your help on this project.

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

From:	Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]
Sent:	Thursday, January 31, 2013 2:15 PM
То:	Vernon Black; dpender@gwdc.com
Subject:	RE: Great Western Drilling CoCoats Comm #1

Reference: Great Western Drilling * Coats Com 1 * 30-015-33409 * A-19-18s-26e * Eddy County, New Mexico NMOCD Tracking Number: 2RP-1032 * Date of release: Not listed – per C-141 notification provided to NMOCD 12/30/11

Greetings,

The New Mexico Oil Conservation Division District 2 office (OCD) is in receipt of a proposal for remediation of the above referenced release. The proposal was presented to OCD by Hungry Horse, LLC on behalf of Great Western Drilling. The remedial action proposed is to bio-remediate condensate impacted soils, located on the south side of the storage vessels, on the well pad. The proposal is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial activities.
- Notify OCD 48 hours prior to obtaining samples where the analyses are to be presented to OCD.
- The bio-remediation cell is to be completely bermed at all times during the remedial process. Be aware that the location is situated in close proximity and up gradient to an arroyo on the west and north side.
- The bio-remediation cell shall be constructed in a manner that will prevent runoff from the cell in the event of rain, or during watering operations.
- If after 60 days from the date of the commencement of remedial actions, the target recommended remedial action levels have not been met, an alternative method of remediation may be required.
- Obtain OCD approval prior to removal of any material from the bio-remediation cell.
- Submit a closure report and Form C-141 Final Report to OCD upon satisfactory completion of project.

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.

If you have any questions or concerns, and for notifications, please contact me.

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, January 29, 2013 6:25 AM To: Bratcher, Mike, EMNRD Subject: Great Western Drilling Co.-Coats Comm #1 Attachment 3



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

Received:	10/30/2012	Sampling Date:	10/30/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	GREAT WESTERN DRILLLING	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COMM NO. #1		

Sample ID: SP 1 @ SURFACE (H202640-01)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					. <u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/02/2012	ND	1.86	93.2	2.00	4.88	
Toluene*	0.339	0.200	11/02/2012	ND	2.05	102	2.00	5.31	
Ethylbenzene*	<0.200	0.200	11/02/2012	ND	2.06	103	2.00	6.00	
Total Xylenes*	1,17	0.600	11/02/2012	ND	5.95	99.1	6.00	5.97	
Total BTEX	1.66	1.20	11/02/2012	ND					
							-		

Surrogate: 4-Bromofluorobenzene (PIL 112 % 89.4-126

Chloride, SM4500Cl-8	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/31/2012	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS					<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/31/2012	ND	194	97.1	200	5.08	
DRO >C10-C28	<10.0	10.0	10/31/2012	ND	215	107	200	7.72	
Surrogate: 1-Chlorooctane	- 71.2	% 65.2-14	0	<u> </u>					
Surrogate: 1-Chlorooctadecane	75.0	% 63.6-15	4						

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*=Accredited Analyte

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Celiz Kere

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/30/2012	Sampling Date:	10/30/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	GREAT WESTERN DRILLLING	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COMM NO. #1		

Sample ID: SP 1 @ 5' (H202640-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.133	0.050	11/01/2012	ND	1.86	93.2	2.00	4.88	
Toluene*	3.38	0.050	11/01/2012	ND	2.05	102	2.00	5.31	
Ethylbenzene*	0.950	0.050	11/01/2012	ND	2.06	103	2.00	6.00	
Total Xylenes*	6.93	0.150	11/01/2012	ND	5.95	99.1	6.00	5.97	
Total BTEX	11.4	0.300	11/01/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	152 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/31/2012	ND	432	108	400	3.77	
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	22100	50.0	11/01/2012	ND	194	97.1	200	5.08	
DRO >C10-C28	1680	50.0	11/01/2012	ND	215	107	200	7.72	
Surrogate: 1-Chloroociane	223 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 9	63.6-15	4						

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*=Accredited Analyte

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/30/2012	Sampling Date:	10/30/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	GREAT WESTERN DRILLLING	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COMM NO. #1		

Sample ID: SP 2 @ SURFACE (H202640-03)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
8enzene*	<0.200	0.200	11/02/2012	ND	1.86	93.2	2.00	4.88	
Toluene*	0.349	0.200	11/02/2012	ND	2.05	102	2.00	5.31	
Ethylbenzene*	<0.200	0.200	11/02/2012	ND	2.06	103	2.00	6.00	
Total Xylenes*	1.14	0.600	11/02/2012	ND	5.95	99.1	6.00	5.97	
Total BTEX	1.65	1.20	11/02/2012	ND					
· · · · · · · · · · · · · · · · · · ·									

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Anałyze	d By: HM			···		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/31/2012	ND	432	108	400	3.77	
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	10/31/2012	ND	194	97.1	200	5.08	
DRO >C10-C28	<10.0	10.0	10/31/2012	ND	215	107	200	7.72	
Surrogate: 1-Chlorooctane	78.4	% 65.2-14	0	··· ·	-				
Surrogate: 1-Chlorooctadecane	85.8	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Received:	10/30/2012	Sampling Date:	10/30/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	GREAT WESTERN DRILLLING	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COMM NO. #1		

89.4-126

Sample ID: SP 2 @ 5' (H202640-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.113	0.050	11/01/2012	ND	1.86	93.2	2.00	4.88	
Toluene*	2.40	0.050	11/01/2012	ND	2.05	102	2.00	5.31	
Ethylbenzene*	0.666	0.050	11/01/2012	ND	2.06	103	2.00	6.00	
Total Xylenes*	5.14	0.150	11/01/2012	ND	5.95	99.1	6.00	5.97	
Total BTEX	8.32	0.300	11/01/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL 133 %

Chloride, SM4500Cl-B	mg/	kg	Anatyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/31/2012	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	24400	50.0	11/01/2012	ND	194	97.1	200	5.08	
DRO >C10-C28	1800	50.0	11/01/2012	ND	215	107	200	7.72	
Surrogate: 1-Chlorooctane	235 2	65.2-14	0	·····		· -			·····
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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PLEASE NOTE: Liabship and Damages. Cardinal's liabship 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 scale whitspence whether a based under a strange of a contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other scale whitspence whether a strange of an analyses, including those in writing and received by Candhai water torty (30) days after completion of the applicable service. In no event shall Cardinal be labele for incidential damoges, including, which is to be preformance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results related to town to the amoles demotified above. This report shall not received and above stated reasons and all classifications.

Celey Di Kiene -

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7



July 31, 2013

VERNON BLACK Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: COATS COM #1

Enclosed are the results of analyses for samples received by the laboratory on 07/26/13 15:45.

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 www.tceq.texas.gov/field/qa/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,

whe Sigh

Mike Snyder Organic Supervisor



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Analytical Results For:

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

Received:	07/26/2013	Sampling Date:	07/26/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	COATS COM #1	Sampling Condition:	** (See Notes)
Project Number:	GREAT WESTERN DRILLING	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: LANDFARMED MATERIAL (H301770-01)

mg/	кg	Anaiyze	d By: DW					
								·
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03	
<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40	
<0.050	0.050	07/30/2013	ND	2.19	110	2.00	6.36	
<0.150	0.150	07/30/2013	ND	6.65	111	6.00	6.03	
<0.300	0.300	07/30/2013	ND					
100 %	6 89.4-12	6				-		
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	07/30/2013	ND	400	100	400	7.69	
mg/	kg	Analyze	d By: MS	_				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/29/2013	ND	177	88.5	200	2.97	
<10.0	10.0	07/29/2013	ND	180	90.0	200	3.74	
80.1	65.2-14	0				•		
	<0.050 <0.050 <0.150 <0.300 <i>100 %</i> mg/ Result <16.0 mg/ Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 <i>100 % 89.4-12</i> mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Mike Snyder, Organic Supervisor



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

Analytical Results For:

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

Received:	07/26/2013	Sampling Date:	07/26/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	COATS COM #1	Sampling Condition:	** (See Notes)
Project Number:	GREAT WESTERN DRILLING	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: NORTH WALL 12' BGS (H301770-02)

BTEX 8021B	mg/	'kg	Analyze	d By: DW	<u> </u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03	
Toluene*	<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/30/2013	ND	2.19	110	2.00	6.36	
Total Xylenes*	<0.150	0.150	07/30/2013	ND	6.65	111	6.00	6.03	
Total BTEX	<0.300	0.300	07/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/30/2013	ND	400	100	400	7.69	
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	07/30/2013	ND	177	88.5	200	2.97	
DRO >C10-C28	<10.0	10.0	07/30/2013	ND	180	90.0	200	3.74	
Surrogate: 1-Chlorooctane	71.8	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane									

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Mike Snyder, Organic Supervisor



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

Received:	07/26/2013	Sampling Date:	07/26/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	COATS COM #1	Sampling Condition:	** (See Notes)
Project Number:	GREAT WESTERN DRILLING	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SOUTH WALL 12' BGS (H301770-03)

BTEX 8021B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03	
Toluene*	<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/30/2013	ND	2.19	110	2.00	6.36	
Total Xylenes*	<0.150	0.150	07/30/2013	ND	6.65	111	6.00	6.03	
Total BTEX	<0.300	0.300	07/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	89.4-12	6						
Chloride, SM4500Cl-8	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/30/2013	ND	400	100	400	7.69	
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	07/30/2013	ND	177	88.5	200	2.97	
DRO >C10-C28	<10.0	10.0	07/30/2013	ND	180	90.0	200	3.74	
Surrogate: 1-Chlorooctane	91.2	% 65.2-14	10				• .		
Surrogate: 1-Chlorooctadecane	112	% 63.6-15							

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Mike Snyder, Organic Supervisor

Page 4 of 9



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

Received:	07/26/2013	Sampling Date:	07/26/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	COATS COM #1	Sampling Condition:	** (See Notes)
Project Number:	GREAT WESTERN DRILLING	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EAST WALL 12' BGS (H301770-04)

BTEX 8021B	mg/	kg	Analyze	d By: DW	<u>.</u> .				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03	
Toluene*	<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40	
Ethylbenzene*	0.074	0.050	07/30/2013	ND	2.19	110	2.00	6.36	
Total Xylenes*	0.759 0.150		07/30/2013	ND	6.65	111	6.00	6.03	
Total BTEX	0.878	0.300	07/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 \$	% 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	192	16.0	07/30/2013	ND	400	100	400	7.69	
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	07/30/2013	ND	177	88.5	200	2.97	
DRO > <u>C10-C28</u>	39.1	10.0	07/30/2013	ND	180	90.0	200	3.74	
Surrogate: 1-Chlorooctane	87.9	% 65.2-1-	10						

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Mike Snyder, Organic Supervisor



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

Received:	07/26/2013	Sampling Date:	07/26/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	COATS COM #1	Sampling Condition:	** (See Notes)
Project Number:	GREAT WESTERN DRILLING	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: WEST WALL 12' BGS (H301770-05)

BTEX 8021B	mg,	/kg	Analyze	d By: DW			· <u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03	
Toluene*	<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/30/2013	ND	2.19	110	2.00	6.36	
Total Xylenes*	<0.150	0.150	07/30/2013	ND	6.65	111	6.00	6.03	
Total BTEX	<0.300	0.300	07/30/2013	ND					

89.4-126

Surrogate: 4-Bromofluorobenzene (PIL 105 %

hloride, SM4500Cl-B mg/kg			Analyze	d By: AP		······································	•		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/30/2013	ND	400	100	400	7.69	
трн 8015м	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ßS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/30/2013	ND	177	88.5	200	2.97	
DRO >C10-C28	<10.0	10.0	07/30/2013	ND	180	90.0	200	3.74	
Surrogate: 1-Chlorooctane	87.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Mike Snyder, Organic Supervisor



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

Analytical Results For:

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

Received:	07/26/2013	Sampling Date:	07/26/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	COATS COM #1	Sampling Condition:	** (See Notes)
Project Number:	GREAT WESTERN DRILLING	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: FLOOR OF EXC 12' BGS (H301770-06)

BTEX 80218	mg.	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03	
Toluene*	<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40	
Ethylbenzene*	<0.050	0.050	07/30/2013	ND	2.19	110	2.00	6.36	
Totai Xylenes*	<0.150	0.150	07/30/2013	ND	6.65	111	6.00	6.03	
Total BTEX	<0.300	0.300	07/30/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 89.4-126

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	07/30/2013	ND	400	100	400	7.69	
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	07/30/2013	ND	177	88.5	200	2.97	
DRO >C10-C28	<10.0	10.0	07/30/2013	ND	180	90.0	200	3.74	
Surrogate: 1-Chlorooctane	81.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.4	% 63.6-15	4	,					

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*=Accredited Analyte

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Mike Snyder, Organic Supervisor



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 SM4500CI-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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Mike Snyder, Organic Supervisor

Page 8 of 9



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hol																								
Company Name	(575) 393-2326 FAX (crie	ara(a	R	18A					<u> </u>				Vel		QUE	eT.			
Project Manager	41	Rlack			··		Р.(). #:							<u> </u>	T			131			51			
Address:	PO Box 105	58					Company:																		
City:					Att					<u> </u>												1			
	- 393-3386	Fax #: 575-3	91-	. ų	5.85	•		dres	s:						ł										
Project #:	-393-3386	Project Owner:	5 61	+h	lesteri	Julta	Cit								1							ł			
	Couts Lonn						Sta	ate:		Zig	p:											l			
Project Location	: Eddy Carnt	Y NM					Ph	one	#:																
Sampler Name:	"Eddy Carnt Vernon K.	Black					Fa	x #:					l n						ļ		ļ				
FOR LAB USE ONLY					MA	TRIX		PRE	SERV	4	SAMPL	ING	0												
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	Gample I.L	· (NTAI	UND.	T E V	OIL SLUDGE	ER :	ACID/BASE	ICE / COOL OTHER :				-<		11										
H301770				GRO	WAS ⁷ SOIL	SLUE	OTHER	ACID	OTHER		DATE	TIME	$ $ \bigcirc		16	Ω									
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analyses. All claims including	d Damages, Cardinal's liability and client g those for negligence and any other cau	ise whatspever shall be deer	ned waiv	red uni	ess made i	in writing ar	nd sece	ived by	Cardinal	l within	n 30 days afb	er completion of I	he applica	ble											
affiliates or successors arisin	ardinal be liable for incidental or conseque in out of ormelated in the performance of	services hereunder by Cardi	nal, rega	rdless	of whether	such claim	is bas	ed upor	r loss of any of t	profits the abo	incurred by ove stated re	asons or otherwi	sç.											_	
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Relinquished By: Date: Received By: Time:						MON REMARKS Just taken 4 br directly to lab.						-													
Delivered By:	(Circle One)			Γ	Sample	Condi	ion	0	CHEC	KED	BY:			ΥV	•		·								
Sampler - UPS	- Bus - Other:	30		.	Vei Yei	Intact s Ye	s o		9	閉	<u>.</u>				_										

† Cardinal cannot accept verbal changes. Please fax written changes to 505 593-2476

From:	Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]
Sent:	Wednesday, August 07, 2013 8:19 AM
То:	Vernon Black
Cc:	Dennis Pender
Subject:	RE: Great Western Drilling-Coats Comm #1

Thanks Vernon. Please proceed on your schedule.

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

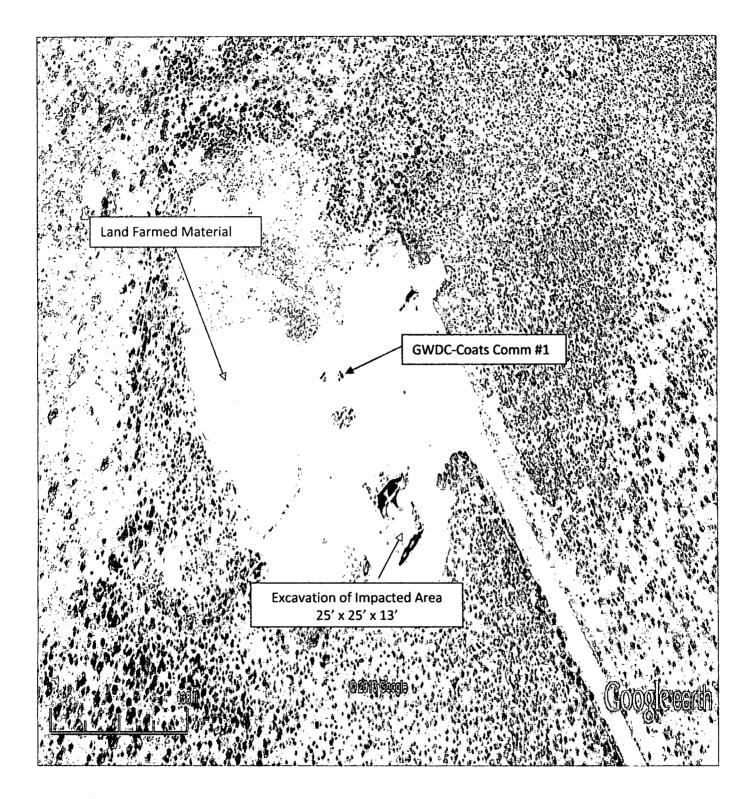
From: Vernon Black [mailto:VBlack@Hungry-Horse.com] Sent: Tuesday, August 06, 2013 5:19 PM To: Bratcher, Mike, EMNRD Cc: Dennis Pender Subject: Great Western Drilling-Coats Comm #1

Mike,

I appreciate you taking the time to meet with me today concerning the closure approval of the above referenced remediation. As per our conversation, we will proceed with the backfill using the remediated soil. The issue of the elevated chlorides on the north wall near the tanks will be addressed when the tanks are removed from service. I'll cover this in the closing report as well.

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

Attachment 4



Attachment 5

