

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

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

7MLB/20K640896	9338	OPERATOR	<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
Name of Company GREAT WESTERN DRILLING COMPANY		Contact SAM ROBERTS	
Address P.O. BOX 1659 MIDLAND, TX 79702		Telephone No. (432)682-5241	
Facility Name COATS COM #1		Facility Type OIL TANK	
Surface Owner WAYNE NEATHERLIN		Mineral Owner VARIOUS	API No. 30-015-33409

LOCATION OF RELEASE

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	NORTH	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
Source of Release OIL TANK	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? SHERRY BONHAM 12/30/2011 @ 1:00 pm & 1/2/2012 @ 1:00 PM	
By Whom? SAM ROBERTS	Date and Hour 1/3/2012 @ 12:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N / A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

VALVE & TEE FROZE & BURST, ALLOWING OIL TO DRAIN FROM TANK.

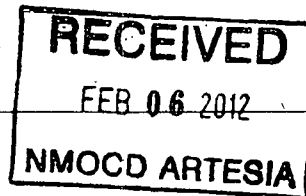
Describe Area Affected and Cleanup Action Taken.*

SMALL AREA AROUND TANK ON WELL PAD. FW WELL .35 MILE TO NORTH WITH POND. ALL CONDENSATE EVAPORATED OR SOAKED IN WHEN DISCOVERED. OBSERVED IMPACT LESS THAN EXPECTED FOR 180 BBLS - STOLEN OIL A POSSIBILITY.

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: <i>Sam Roberts</i>		OIL CONSERVATION DIVISION	
Printed Name: SAM ROBERTS		Signed By <i>Mike Brannan</i> Approved by Environmental Specialist	
Title: AREA ENGINEER		Approval Date: FEB 15 2012	Expiration Date:
E-mail Address:		Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: <u>3/15/2012</u>	Attached <input type="checkbox"/>
Date: 01/24/2012 Phone: (432)682-5241			

* Attach Additional Sheets If Necessary



2RP-1023

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
4220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
SEP 06 2013
NMOCD ARTESIA

RECEIVED
SEP 06 2013
NMOCD ARTESIA

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

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Great Western Drilling Co	Contact Dennis Pender	
Address PO Box 1659 Midland, TX 79702	Telephone No. 432-682-5241	
Facility Name Coats Comm #1	Facility Type Oil Tank	
Surface Owner Wayne Neatherlin	Mineral Owner Various	API No. 30-015-33409

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	19	18S	26 E	990'	North	990'	East	Eddy

Latitude N 32.73901 Longitude W-104.41576

NATURE OF RELEASE

Type of Release Condensate	Volume of Release 180 bbls	Volume Recovered 0
Source of Release Oil Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 30Dec12
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Sherry Bonham	
By Whom? Sam Roberts	Date and Hour 3Jan12 @1230 hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.*
Valve and Tee froze and burst, allowing condensate to drain from tank.

Describe Area Affected and Cleanup Action Taken.*
The impacted area (25' x 25' x 12') behind the tanks was excavated with the impacted soil being land farmed on site. The land farmed soil was periodically tilled and turned to allow the light hydrocarbons to "flash off". After a period of approximately 6 months, soil samples of the land farmed soil and the excavation were obtained and lab analysis conducted. Results were presented to NM OCD's Mike Bratcher for closure approval. Approval was given and the excavation was backfilled with the land farmed material.

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: <i>Dennis Pender</i>		OIL CONSERVATION DIVISION	
Printed Name: Dennis Pender		Approved by Environmental Specialist:	
Title: <i>Purchasing Manager</i>	Approval Date:	Expiration Date:	
E-mail Address: dpender@gwdc.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 27Aug13	Phone: 432-682-5241		

* Attach Additional Sheets If Necessary

2RP-1023

Attachment 2

HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES

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

25Jan13

Page | 1

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 30Oct12, 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.

HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES

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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.

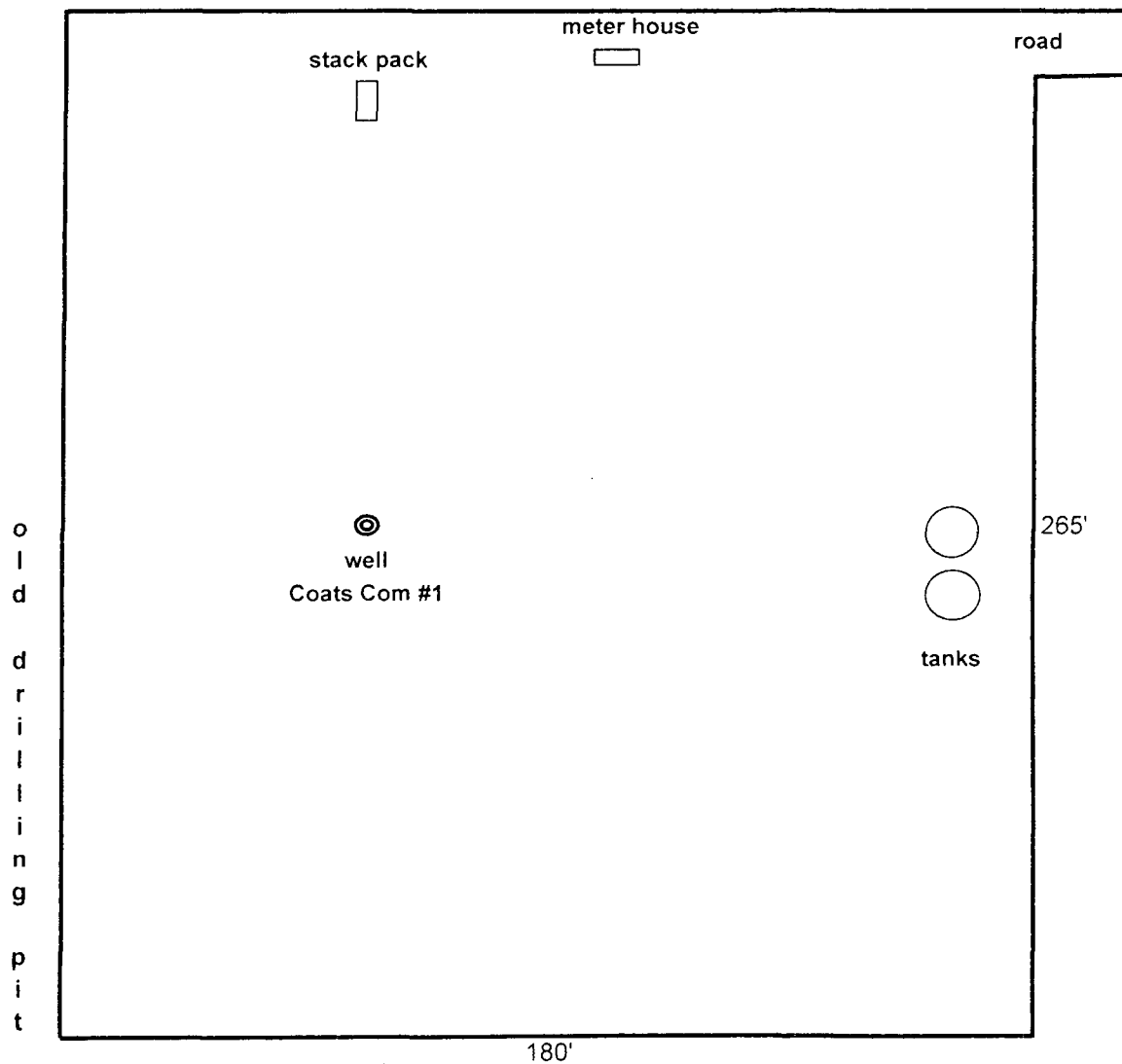


Vernon K. Black, Hungry Horse, LLC

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
To: Vernon Black; dpender@gwdc.com
Subject: RE: Great Western Drilling Co.-Coats 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



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:	10/30/2012	Sampling Date:	10/30/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	GREAT WESTERN DRILLING	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)

BTX 8021B		mg/kg		Analyzed By: AP					
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 (PIE) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 75.0 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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: 10/30/2012
Reported: 11/02/2012
Project Name: GREAT WESTERN DRILLING
Project Number: NONE GIVEN
Project Location: COMM NO. #1

Sampling Date: 10/30/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
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		Analyzed 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-Chlorooctane 223 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	10/30/2012	Sampling Date:	10/30/2012
Reported:	11/02/2012	Sampling Type:	Soil
Project Name:	GREAT WESTERN DRILLING	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		Analyzed By: AP					
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*	0.349	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 (PHE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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					
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 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.8 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

BTX 8021B		mg/kg		Analyzed 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 BTX	8.32	0.300	11/01/2012	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 133 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS				S-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 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 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,



Mike Snyder

Organic Supervisor

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)

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 100 % 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	<16.0	16.0	07/30/2013	ND	400	100	400	7.69	

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	07/29/2013	ND	177	88.5	200	2.97	
DRO >C10-C28	<10.0	10.0	07/29/2013	ND	180	90.0	200	3.74	

Surrogate: 1-Chlorooctane 80.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received: 07/26/2013
Reported: 07/31/2013
Project Name: COATS COM #1
Project Number: GREAT WESTERN DRILLING
Project Location: NONE GIVEN

Sampling Date: 07/26/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 107 % 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	1170	16.0	07/30/2013	ND	400	100	400	7.69	

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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.6 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

 Received: 07/26/2013
 Reported: 07/31/2013
 Project Name: COATS COM #1
 Project Number: GREAT WESTERN DRILLING
 Project Location: NONE GIVEN

 Sampling Date: 07/26/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 105 % 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	160	16.0	07/30/2013	ND	400	100	400	7.69	

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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Mike Snyder, Organic Supervisor

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: EAST WALL 12' BGS (H301770-04)

BTEx 80218		mg/kg		Analyzed 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*	0.074	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	39.1	10.0	07/30/2013	ND	180	90.0	200	3.74	

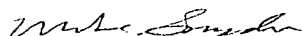
Surrogate: 1-Chlorooctane 87.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Mike Snyder, Organic Supervisor

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: WEST WALL 12' BGS (H301770-05)

BTEX 8021B		mg/kg		Analyzed 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 (PIC) 105 % 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	224	16.0	07/30/2013	ND	400	100	400	7.69		

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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received: 07/26/2013
Reported: 07/31/2013
Project Name: COATS COM #1
Project Number: GREAT WESTERN DRILLING
Project Location: NONE GIVEN

Sampling Date: 07/26/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

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

BTEx 80218		mg/kg		Analyzed 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 (PIC) 104 % 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	<16.0	16.0	07/30/2013	ND	400	100	400	7.69	

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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

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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 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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Mike Snyder, Organic Supervisor



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>Great Western Drilling</u>		City:																									
Project Name: <u>Coats Comm #1</u>		State: Zip:																									
Project Location: <u>Eddy County NM</u>		Phone #:																									
Sampler Name: <u>Vernon K. Black</u>		Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<u>H301770</u>																											
1	<u>Landfilled Material</u>	<u>C</u>				<u>X</u>							<u>26 July</u>	<u>1400</u>	<u>X</u>	<u>X</u>	<u>X</u>										
2	<u>North Wall 12' Bas</u>	<u>G</u>																									
3	<u>South Wall</u>																										
4	<u>East Wall</u>																										
5	<u>West Wall</u>																										
6	<u>Floor of Excav</u>																										

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Relinquished By: <u>[Signature]</u>	Date: <u>26 July</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1545</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>sample just taken & brought directly to lab.</u>	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <u>[Signature]</u>		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]
Sent: Wednesday, August 07, 2013 8:19 AM
To: 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

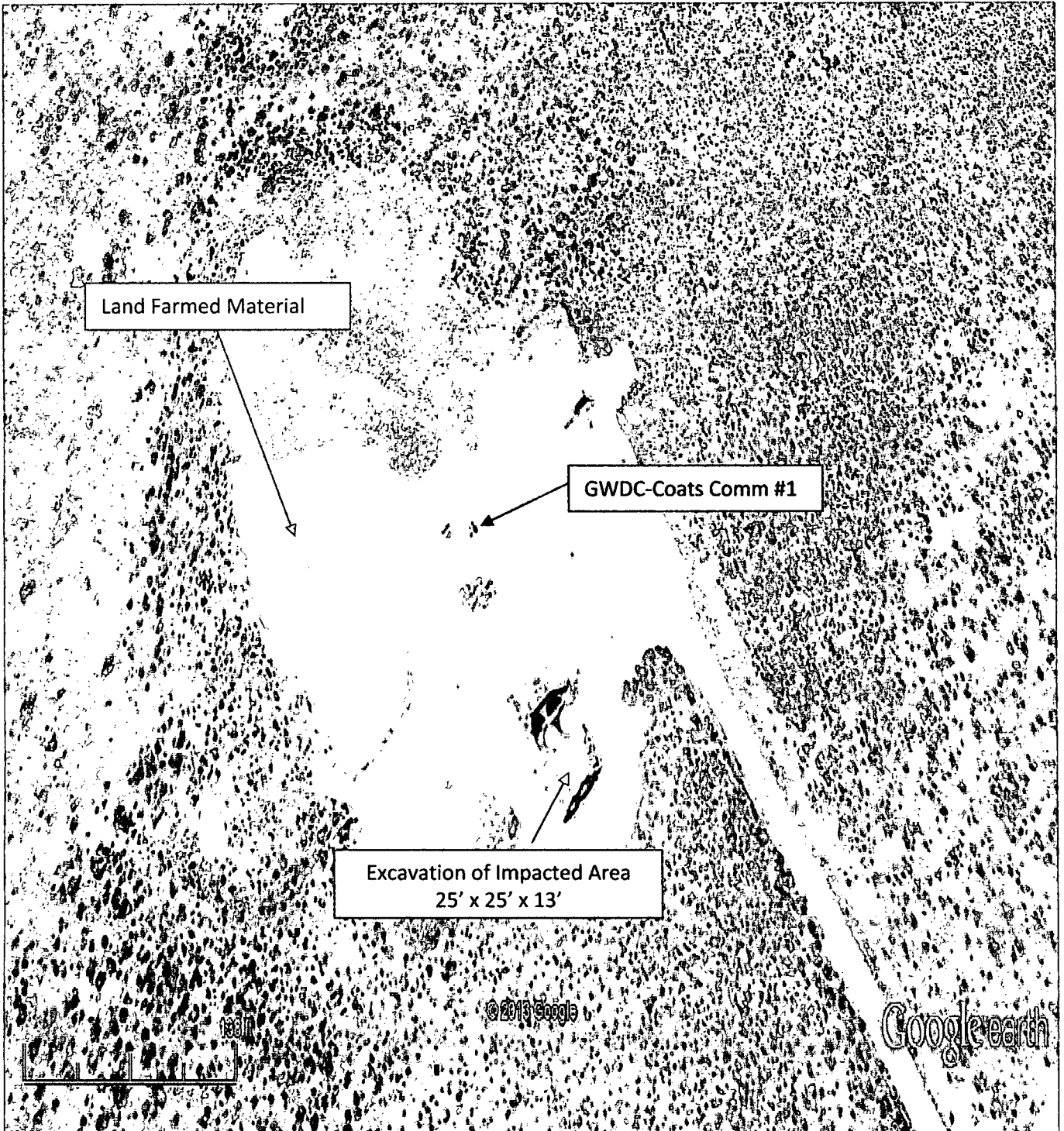
From: Vernon Black [mailto:VBlack@Hungry-Horse.com]
Sent: Tuesday, August 06, 2013 5:19 PM
To: Bratcher, Mike, EMNRD
Cc: Dennis Pender
Subject: Great Western Drilling-Coats Comm #1

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



Land Farmed Material

GWDC-Coats Comm #1

Excavation of Impacted Area
25' x 25' x 13'



© 2013 Google

Google Earth

Attachment 5

