

HUNGRY HORSE, LLC

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DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

APPROVED

By Olivia Yu at 2:18 pm, May 15, 2017

4May17

To: Olivia Yu, New Mexico Oil Conservation Division, District 1
Reference: Remediation Closure Plan
Operator: Wishbone Texas Operating, LLC
Location: H. H. Harris #2
API: 30-025-20931
Legals: Ul. O. Sec. 35, T12S, R38E
GPS: 33.2297, -103.0658
1RP-4543

NMOCD approves the
delineation workplan for
1RP-4543.

This Remediation Closure Plan is in response to the unplanned release, recovery, and remediation activities that have occurred at the site from the date of release, 19Dec16, until the present date.

Site Information

This site is located in rural Lea County, New Mexico approximately 15 miles east of Tatum, New Mexico and is approximately 600 yards west of the New Mexico/Texas state line. The area where this site is located is predominantly used for cattle grazing and the vegetation consists mainly of native grasses and mesquite bushes. The New Mexico Office of the State Engineer's web site indicates the average depth to ground water to be 68' (see attached document). This is consistent with the depth to groundwater data on the Lea County Water Trend Map. There are no known water wells or surface bodies of water within 1000' of this site. Thus, this site is given a Site Ranking Score of "10"

Work Conducted to Date

Wishbone Texas Operating experienced an unplanned release of crude oil/produced water on or about 19Dec16, due to equipment failure. Immediate action was taken to shut in the well and repair the broken line. An estimated 40 bbls of fluid were released with the recovery of 20 bbls of fluid by vacuum truck. A third party contractor was immediately summoned to begin the remedial activities of recovering and stockpiling the impacted soil in preparation for disposal. Due to the rapid response of the contractor, downward migration of the released fluid was limited to the first 24" of soil. Upon reaching the referenced depth and witnessing no visual evidence of contaminants and experiencing no odors of hydrocarbons, further excavation was halted until soil samples of the excavated area could be obtained and laboratory analysis conducted. At this point, Hungry Horse, LLC was contracted to collect "bottom hole" soil samples from three sample points within the excavation. The three samples were transported under chain of custody to the lab. Lab analysis was conducted for Chlorides, TPH, and BTEX.

HUNGRY HORSE, LLC

Sample results were presented to Ms. Yu at NM OCD who requested additional sampling of sample points 1-3 at 12' BGS and of the side wall before closure would be granted. The additional sampling was conducted with the results being presented in an analytical summary.

Proposed Remediation Plan

The services of Hungry Horse, LLC have been solicited by Wishbone Texas Operating, LLC to assist with the closure of this project. Based upon work conducted to date and laboratory analysis I propose the following Remediation Closure Plan:

- 1) Continue excavation of the east and west side walls until soil sample analysis indicates a chloride level of 250 ppm or less. Due to TPH and BTEX not being contaminants of concern, only chloride analysis will be conducted.
- 2) Upon reaching the closure level, results will be presented to Ms. Yu for closure approval.
- 3) Obtain fresh soil from a local source and backfill, compact, and level the impacted area.
- 4) Submit a closure report with a final C-141 to New Mexico Oil Conservation Division.

Venon K. Black, Hungry Horse, LLC

Analytical Summary

Operator: Wishbone Texas Operating, LLC

Location: H H Harris #2 Confirmation Sampling 24-Apr-17

Summary of Remediation Sampling Analytical Results as Parts Per Million (PPM)

BTEX

Sample Point	Depth	LAB
SP #1	12'	ND
SP #2	12'	ND
SP #3	12'	ND
North Wall	2'	ND
South Wall	2'	ND
East Wall	2'	ND
West Wall	2'	ND
BackGround	6"	ND

Chlorides

Sample Point	Depth	LAB
SP #1	12'	208 ppm
SP #2	12'	240 ppm
SP #3	12'	160ppm
North Wall	2'	144 ppm
South Wall	2'	240 ppm
East Wall	2'	2440 ppm
West Wall	2'	29600 ppm
BackGround	6"	32 ppm

TPH

Sample Point	Depth	LAB
SP #1	12'	ND
SP #2	12'	ND
SP #3	12'	154 ppm
North Wall	2'	412 ppm
South Wall	2'	755 ppm
East Wall	2'	422ppm
West wall	2'	230 ppm
BackGround	6"	ND



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

May 01, 2017

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: H-H HARRIS #2

Enclosed are the results of analyses for samples received by the laboratory on 04/24/17 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP1 (H701083-01)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEX	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/27/2017	ND	416	104	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	04/25/2017	ND	201	101	200	6.71	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	210	105	200	4.91	

Surrogate: 1-Chlorooctane 96.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.4 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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Received: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP2 (H701083-02)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEx	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/27/2017	ND	416	104	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	04/25/2017	ND	211	105	200	3.68	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	215	107	200	6.38	

Surrogate: 1-Chlorooctane 90.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.9 % 34.7-157

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Received: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP3 (H701083-03)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEX	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/27/2017	ND	416	104	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	<50.0	50.0	04/25/2017	ND	211	105	200	3.68	
DRO >C10-C28	154	50.0	04/25/2017	ND	215	107	200	6.38	

Surrogate: 1-Chlorooctane 89.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.6 % 34.7-157

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Received: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NORTH (H701083-04)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEx	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/27/2017	ND	416	104	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	<50.0	50.0	04/25/2017	ND	211	105	200	3.68	
DRO >C10-C28	412	50.0	04/25/2017	ND	215	107	200	6.38	

Surrogate: 1-Chlorooctane 81.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Received: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SOUTH (H701083-05)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEx	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/27/2017	ND	416	104	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	<50.0	50.0	04/25/2017	ND	211	105	200	3.68	
DRO >C10-C28	755	50.0	04/25/2017	ND	215	107	200	6.38	

Surrogate: 1-Chlorooctane 85.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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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: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: EAST (H701083-06)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEx	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	04/27/2017	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/25/2017	ND	211	105	200	3.68	
DRO >C10-C28	422	50.0	04/25/2017	ND	215	107	200	6.38	

Surrogate: 1-Chlorooctane 75.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.9 % 34.7-157

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Fax To: (505) 391-4585

Received: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: WEST (H701083-07)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEx	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	29600	16.0	04/27/2017	ND	432	108	400	0.00		

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	04/25/2017	ND	211	105	200	3.68	
DRO >C10-C28	230	10.0	04/25/2017	ND	215	107	200	6.38	

Surrogate: 1-Chlorooctane 89.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.0 % 34.7-157

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Received: 04/24/2017
Reported: 05/01/2017
Project Name: H-H HARRIS #2
Project Number: NONE GIVEN
Project Location: WISHBONE OPER.

Sampling Date: 04/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: PASTURE (H701083-08)

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	04/27/2017	ND	2.08	104	2.00	0.841	
Toluene*	<0.050	0.050	04/27/2017	ND	1.95	97.6	2.00	0.586	
Ethylbenzene*	<0.050	0.050	04/27/2017	ND	1.96	98.2	2.00	1.15	
Total Xylenes*	<0.150	0.150	04/27/2017	ND	5.57	92.9	6.00	1.03	
Total BTEx	<0.300	0.300	04/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2017	ND	432	108	400	0.00	

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	04/25/2017	ND	211	105	200	3.68	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	215	107	200	6.38	

Surrogate: 1-Chlorooctane 84.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.6 % 34.7-157

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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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

Page 11 of 11



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

January 23, 2017

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: WISHBONE HARRIS LEASE WELL #2

Enclosed are the results of analyses for samples received by the laboratory on 01/18/17 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

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:	01/18/2017	Sampling Date:	01/16/2017
Reported:	01/23/2017	Sampling Type:	Soil
Project Name:	WISHBONE HARRIS LEASE WELL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	YOAKUM CO, TX		

Sample ID: SP 1 2" BGS (H700114-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/19/2017	ND	1.90	95.0	2.00	0.304	
Toluene*	<0.050	0.050	01/19/2017	ND	1.88	93.8	2.00	0.0865	
Ethylbenzene*	<0.050	0.050	01/19/2017	ND	1.90	95.0	2.00	0.169	
Total Xylenes*	<0.150	0.150	01/19/2017	ND	5.38	89.7	6.00	0.0756	
Total BTEX	<0.275	0.275	01/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/18/2017	ND	432	108	400	0.00	

TPH TX1005		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	01/19/2017	ND	198	98.8	200	1.24	
DRO >C12-C28	<25.0	25.0	01/19/2017	ND	199	99.6	200	0.233	
DRO >C28-C35	<25.0	25.0	01/19/2017	ND					
Total TPH C6-C35*	<25.0	25.0	01/19/2017	ND	399	99.7	400	0.457	

Surrogate: 1-Chlorooctane 93.0 % 70-130

Surrogate: 1-Chlorooctadecane 90.3 % 70-130

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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:	01/18/2017	Sampling Date:	01/16/2017
Reported:	01/23/2017	Sampling Type:	Soil
Project Name:	WISHBONE HARRIS LEASE WELL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	YOAKUM CO, TX		

Sample ID: SP 2 2" BGS (H700114-02)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	01/19/2017	ND	1.90	95.0	2.00	0.304		
Toluene*	<0.050	0.050	01/19/2017	ND	1.88	93.8	2.00	0.0865		
Ethylbenzene*	<0.050	0.050	01/19/2017	ND	1.90	95.0	2.00	0.169		
Total Xylenes*	<0.150	0.150	01/19/2017	ND	5.38	89.7	6.00	0.0756		
Total BTEx	<0.275	0.275	01/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/18/2017	ND	416	104	400	3.77		

TPH TX1005		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	01/19/2017	ND	198	98.8	200	1.24	
DRO >C12-C28	<25.0	25.0	01/19/2017	ND	199	99.6	200	0.233	
DRO >C28-C35	<25.0	25.0	01/19/2017	ND					
Total TPH C6-C35*	<25.0	25.0	01/19/2017	ND	399	99.7	400	0.457	

Surrogate: 1-Chlorooctane 76.9 % 70-130

Surrogate: 1-Chlorooctadecane 84.6 % 70-130

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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:	01/18/2017	Sampling Date:	01/16/2017
Reported:	01/23/2017	Sampling Type:	Soil
Project Name:	WISHBONE HARRIS LEASE WELL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	YOAKUM CO, TX		

Sample ID: SP 3 2"BGS (H700114-03)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/19/2017	ND	1.90	95.0	2.00	0.304	
Toluene*	<0.050	0.050	01/19/2017	ND	1.88	93.8	2.00	0.0865	
Ethylbenzene*	<0.050	0.050	01/19/2017	ND	1.90	95.0	2.00	0.169	
Total Xylenes*	<0.150	0.150	01/19/2017	ND	5.38	89.7	6.00	0.0756	
Total BTX	<0.275	0.275	01/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/18/2017	ND	416	104	400	3.77	

TPH TX1005		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	01/19/2017	ND	198	98.8	200	1.24	
DRO >C12-C28	<25.0	25.0	01/19/2017	ND	199	99.6	200	0.233	
DRO >C28-C35	<25.0	25.0	01/19/2017	ND					
Total TPH C6-C35*	<25.0	25.0	01/19/2017	ND	399	99.7	400	0.457	

Surrogate: 1-Chlorooctane 91.5 % 70-130

Surrogate: 1-Chlorooctadecane 96.0 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



Page 6 of 6

ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column	
POD Number	Code														
L 02461		L	LE	1	1	35	12S	38E		679446	3679617*	<input type="text"/>	125	27	98
L 03355		L	LE	1	4	35	12S	38E		680265	3678828*	<input type="text"/>	110	110	0

Average Depth to Water: **68 feet**

Minimum Depth: **27 feet**

Maximum Depth: **110 feet**

Record Count: 2

PLSS Search:

Section(s): 35

Township: 12S

Range: 38E

*UTM location was derived from PLSS - see Help

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

4/19/17 6:39 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Wishbone Texas Operating, LLC – HH Harris #2



Sample Points # 1-3 - Soil samples were obtained at 2' BGS (Bottom Hole) and confirmation samples at 12' BGS

Side wall samples were obtained at 2' BGS from each wall.