

# HUNGRY HORSE, LLC

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3709 S. Eunice HWY  
P.O. Box 1058  
Hobbs, NM 88241  
Office: 575-393-3386  
Fax: 575-391-4585  
[info@hungry-horse.com](mailto:info@hungry-horse.com)

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

7Mar16

To: Mike Bratcher, New Mexico Oil Conservation Division, District II  
Reference: Remediation Work Plan  
Operator: Devon Energy Production Company  
Location: Onyx PWU 29 #3H  
API: 30-015-39373  
Legasl: Ul. L, Sec 29, T19S, R29E  
GPS: 32.63042 -104.10451  
2RP-3481

## Site Information

This site is located in rural Eddy County, New Mexico 1.3 miles west of the intersection of CR 235 (Curry Comb Road) and CR 210 (S. Old Loco Road) and 1.9 miles south of CR 235. The surrounding area is relatively flat with sparse vegetation. Based upon the Eddy County Depth to Groundwater Map, ground water appears to be between 50'-100'. The New Mexico Office of the State Engineer's website list no groundwater data for this section.

This release was due to a leak on the LACT unit. All fluids released remained on the caliche pad, nothing off the pad was impacted. The impacted area is approximately 25' x 35'.

## Work Conducted to Date

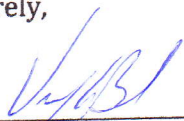
Delineation was conducted using a hand auger. Soil samples were collected from two sample points and laboratory analysis conducted for Chlorides, TPH, and BTEX. No Chlorides were detected, so they are not a contaminant of concern for this release. TPH level were elevated between the surface and 2' BGS.

## Remediation Proposal

I propose to conduct the remediation by using the in-situ method. Hand tools will be used to prepare the impacted soil. Once the soil has been prepared, a solution of a 10% mixture of MicroBlaze will be liberally applied to the impacted area. Loosening of the soil will allow a complete penetration of the MicroBlaze thereby speeding the process of the hydrocarbon remediation.

The impacted area will be re-sampled 60-90 days after the MicroBlaze application to determine the effectiveness of the treatment. If lab results indicate TPH levels at or below closure limits, closure documents will be submitted. If TPH levels remain elevated, another MicoBlaze treatment will be applied and the area re-sampled.

Sincerely,



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Vernon K. Black, Hungry Horse, LLC

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

# NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

JAN 05 2016

Revised August 8, 2011

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

RECEIVED

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <u>Devon Energy Production Company</u> <u>4137</u>		Contact <u>Rudy Zuniga Production Foreman</u>
Address <u>6488 Seven Rivers Hwy Artesia, NM 88210</u>		Telephone No. <u>575-390-5435</u>
Facility Name <u>Onyx PWU 29 #3</u>		Facility Type <u>Oil</u>
Surface Owner <u>State</u>	Mineral Owner <u>State</u>	API No <u>30-015-39373</u>

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	29	19S	29E	2145	South	330	West	Eddy

Latitude: N 32° 63' 04.88"

Longitude: W 104° 10' 45.09"

32.63042

-104.10451

### NATURE OF RELEASE

Type of Release Spill <u>Oil</u>	Volume of Release <u>5 bbls</u>	Volume Recovered <u>0 bbls</u>
Source of Release <u>Lact Unit</u>	Date and Hour of Occurrence <u>1.4.16 @ 8:40 am</u>	Date and Hour of Discovery <u>1.4.16 @ 8:40 am</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>OCD @ Heather Patterson</u>	
By Whom? <u>Jesse Armendariz Assistant Production Foreman</u>	Date and Hour <u>1.5.2016 @ 1:55 pm</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse <u>N/A</u>	
If a Watercourse was Impacted, Describe Fully.* <u>N/A</u>		
Describe Cause of Problem and Remedial Action Taken.* <u>Leak on the Lact Unit caused a 5 bbl oil spill. Well was shut in to prevent further release. Still investigating where the leak started due to the snow.</u>		
Describe Area Affected and Cleanup Action Taken.* <u>5 bbls oil was released on the South, South West side of the facility. None of the spill was recovered due to weather. Size of affected area is 20' x 30'. All fluids remained on the location. Environmental agency will be contacted for remediation.</u>		
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: <u>Corina Moya</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>Corina Moya</u>	Signed By <u>[Signature]</u>	
Title: <u>Field Admin Support</u>	Approved by Environmental Specialist:	
E-mail Address: <u>corina.moya@dvn.com</u>	Approval Date: <u>1/11/16</u>	Expiration Date: <u>N/A</u>
Date: <u>1.5.16</u> Phone: <u>575.746.5559</u>	Conditions of Approval: <u>Remediation per O.C.D. Rules &amp; Guidelines</u> Attached <input type="checkbox"/>	
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>2/12/16</u>		

\* Attach Additional Sheets If Necessary

2RP-3481





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

No records found.

**PLSS Search:**

Section(s): 29

Township: 19S

Range: 29E

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.

3/8/16 2:52 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER


Devon Energy Production Company-Onyx PWU 29 #3H





Devon Energy Production Company-Onyx PWU 29 Fed #3H



Impacted area is 25' x 35' around LACT Unit-noted by red  .



February 29, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ONYX PWU 29 #3

Enclosed are the results of analyses for samples received by the laboratory on 02/22/16 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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](http://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: 02/22/2016  
 Reported: 02/29/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 SURFACE (H600396-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>30.3</b>	2.00	02/24/2016	ND	1.97	98.4	2.00	5.85	
<b>Toluene*</b>	<b>178</b>	2.00	02/24/2016	ND	1.93	96.5	2.00	6.07	
<b>Ethylbenzene*</b>	<b>69.5</b>	2.00	02/24/2016	ND	1.76	88.1	2.00	5.87	
<b>Total Xylenes*</b>	<b>201</b>	6.00	02/24/2016	ND	5.37	89.5	6.00	5.48	
<b>Total BTX</b>	<b>479</b>	12.0	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>272</b>	16.0	02/23/2016	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
<b>GRO C6-C10</b>	<b>4230</b>	100	02/23/2016	ND	193	96.4	200	1.46	
<b>DRO &gt;C10-C28</b>	<b>34200</b>	100	02/23/2016	ND	214	107	200	13.1	

Surrogate: 1-Chlorooctane 202 % 35-147

Surrogate: 1-Chlorooctadecane 916 % 28-171

\*=Accredited Analyte

**Cardinal Laboratories**

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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: 02/22/2016  
 Reported: 02/29/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 6" (H600396-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.2	2.00	02/24/2016	ND	1.97	98.4	2.00	5.85	
Toluene*	249	2.00	02/24/2016	ND	1.93	96.5	2.00	6.07	
Ethylbenzene*	87.2	2.00	02/24/2016	ND	1.76	88.1	2.00	5.87	
Total Xylenes*	234	6.00	02/24/2016	ND	5.37	89.5	6.00	5.48	
Total BTEx	605	12.0	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/23/2016	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	5180	50.0	02/23/2016	ND	193	96.4	200	1.46	
DRO >C10-C28	8770	50.0	02/23/2016	ND	214	107	200	13.1	


Surrogate: 1-Chlorooctane 156 % 35-147

Surrogate: 1-Chlorooctadecane 189 % 28-171

\* = Accredited Analyte

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 Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

 Received: 02/22/2016  
 Reported: 02/29/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 1' (H600396-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.1	2.00	02/24/2016	ND	1.97	98.4	2.00	5.85	
Toluene*	135	2.00	02/24/2016	ND	1.93	96.5	2.00	6.07	
Ethylbenzene*	47.9	2.00	02/24/2016	ND	1.76	88.1	2.00	5.87	
Total Xylenes*	135	6.00	02/24/2016	ND	5.37	89.5	6.00	5.48	
Total BTX	336	12.0	02/24/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/23/2016	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	2620	100	02/23/2016	ND	193	96.4	200	1.46	
DRO >C10-C28	5700	100	02/23/2016	ND	214	107	200	13.1	

Surrogate: 1-Chlorooctane 128 % 35-147

Surrogate: 1-Chlorooctadecane 139 % 28-171

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 02/22/2016  
 Reported: 02/29/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 SURFACE (H600396-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.11	1.00	02/24/2016	ND	1.97	98.4	2.00	5.85	
Toluene*	59.3	1.00	02/24/2016	ND	1.93	96.5	2.00	6.07	
Ethylbenzene*	35.6	1.00	02/24/2016	ND	1.76	88.1	2.00	5.87	
Total Xylenes*	117	3.00	02/24/2016	ND	5.37	89.5	6.00	5.48	
Total BTX	217	6.00	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 73.6-140

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	02/23/2016	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	2080	100	02/23/2016	ND	193	96.4	200	1.46	
DRO >C10-C28	18800	100	02/23/2016	ND	214	107	200	13.1	

Surrogate: 1-Chlorooctane 158 % 35-147

Surrogate: 1-Chlorooctadecane 470 % 28-171

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 02/22/2016  
Reported: 02/29/2016  
Project Name: ONYX PWU 29 #3  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 02/16/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 6" (H600396-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	47.5	2.00	02/24/2016	ND	1.97	98.4	2.00	5.85	
Toluene*	314	2.00	02/24/2016	ND	1.93	96.5	2.00	6.07	
Ethylbenzene*	98.3	2.00	02/24/2016	ND	1.76	88.1	2.00	5.87	
Total Xylenes*	258	6.00	02/24/2016	ND	5.37	89.5	6.00	5.48	
Total BTEx	717	12.0	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.6-140

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	02/23/2016	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	5240	100	02/23/2016	ND	193	96.4	200	1.46	
DRO >C10-C28	8780	100	02/23/2016	ND	214	107	200	13.1	

Surrogate: 1-Chlorooctane 153 % 35-147

Surrogate: 1-Chlorooctadecane 201 % 28-171

\*=Accredited Analyte

Cardinal Laboratories

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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: 02/22/2016  
 Reported: 02/29/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/16/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 1' (H600396-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>86.7</b>	5.00	02/24/2016	ND	1.97	98.4	2.00	5.85	
<b>Toluene*</b>	<b>436</b>	5.00	02/24/2016	ND	1.93	96.5	2.00	6.07	
<b>Ethylbenzene*</b>	<b>126</b>	5.00	02/24/2016	ND	1.76	88.1	2.00	5.87	
<b>Total Xylenes*</b>	<b>339</b>	15.0	02/24/2016	ND	5.37	89.5	6.00	5.48	
<b>Total BTX</b>	<b>988</b>	30.0	02/24/2016	ND					

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

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	02/23/2016	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
<b>GRO C6-C10</b>	<b>7030</b>	100	02/23/2016	ND	193	96.4	200	1.46	
<b>DRO &gt;C10-C28</b>	<b>12100</b>	100	02/23/2016	ND	214	107	200	13.1	

Surrogate: 1-Chlorooctane 176 % 35-147

Surrogate: 1-Chlorooctadecane 281 % 28-171

\*=Accredited Analyte

**Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

**Cardinal Laboratories**

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO				ANALYSIS REQUEST											
Company Name: Hungry Horse, LLC				P.O. #:											
Project Manager: Vernon K. Black				Company:											
Address: PO Box 1058				Attn:											
City: Hobbs				Address:											
Phone #: 575-393-2326				City:											
State: NM Zip: 88241				State:											
Fax #: 575-393-4585				Phone #:											
Project #: 01X PLOW 29#3				Fax #:											
Project Name: Edgemoor				PRESERV											
Project Location: Edgemoor				MATRIX											
Sampler Name: Vernon K. Black				SAMPLING											
Lab I.D.				DATE TIME											
H000396				2-16-16 1:00											
1 SP1 surface				2-16-16 1:10											
2 SP1 6 inches				2-16-16 1:15											
3 SP1 1 inch				2-16-16 1:30											
4 SP2 surface				2-16-16 2:00											
5 SP2 6 in				2-16-16 2:10											
6 SP2 1'				2-16-16 2:10											
				OTHER											
				ACID/BASE											
				ICE/COOL											
				OTHER											
				SLUDGE											
				OIL											
				SOIL											
				WASTEWATER											
				GROUNDWATER											
				# CONTAINERS											
				(G)RAB OR (C)OMP											
				CHLORIDES											
				TRH											
				UTEX											

PLEASE NOTE: Samples must be kept at ambient temperature for 24 hours prior to analysis. Samples must be kept at ambient temperature for 24 hours prior to analysis. Samples must be kept at ambient temperature for 24 hours prior to analysis.

Relinquished By: Allen B Date: 2-22-16 Time: 8:35

Relinquished By: Spdi Henson Date: 2-22-16 Time: 8:35

Delivered By: (Circle One) 5.00

Sampler - UPS - Bus - Other: 5.00

Phone Result: ☒ Yes ☐ No Add'l Phone #: 575-393-2476

Fax Result: ☒ Yes ☐ No Add'l Fax #: 575-393-2476

REMARKS:



March 03, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: ONYX PWU 29 #3

Enclosed are the results of analyses for samples received by the laboratory on 02/25/16 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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](http://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: 02/25/2016  
 Reported: 03/03/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/24/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 2' (H600421-01)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.15</b>	0.500	02/27/2016	ND	2.06	103	2.00	0.0598	
<b>Toluene*</b>	<b>17.3</b>	0.500	02/27/2016	ND	2.03	101	2.00	0.159	
<b>Ethylbenzene*</b>	<b>6.47</b>	0.500	02/27/2016	ND	1.82	90.8	2.00	0.254	
<b>Total Xylenes*</b>	<b>19.5</b>	1.50	02/27/2016	ND	5.58	92.9	6.00	0.718	
<b>Total BTEx</b>	<b>45.4</b>	3.00	02/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	02/26/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>574</b>	10.0	02/26/2016	ND	198	98.8	200	7.73	
<b>DRO &gt;C10-C28</b>	<b>1170</b>	10.0	02/26/2016	ND	208	104	200	14.9	

Surrogate: 1-Chlorooctane 115 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

\*=Accredited Analyte

**Cardinal Laboratories**

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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: 02/25/2016  
 Reported: 03/03/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/24/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 3' (H600421-02)**

BTX 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	02/26/2016	ND	2.06	103	2.00	0.0598	
Toluene*	0.289	0.050	02/26/2016	ND	2.03	101	2.00	0.159	
Ethylbenzene*	0.242	0.050	02/26/2016	ND	1.82	90.8	2.00	0.254	
Total Xylenes*	0.990	0.150	02/26/2016	ND	5.58	92.9	6.00	0.718	
Total BTX	1.52	0.300	02/26/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/26/2016	ND	416	104	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	02/26/2016	ND	198	98.8	200	7.73	
DRO >C10-C28	86.5	10.0	02/26/2016	ND	208	104	200	14.9	

Surrogate: 1-Chlorooctane 98.8 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 02/25/2016  
Reported: 03/03/2016  
Project Name: ONYX PWU 29 #3  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 02/24/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 4' (H600421-03)**

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	02/26/2016	ND	2.06	103	2.00	0.0598	
Toluene*	0.100	0.050	02/26/2016	ND	2.03	101	2.00	0.159	
Ethylbenzene*	0.276	0.050	02/26/2016	ND	1.82	90.8	2.00	0.254	
Total Xylenes*	1.18	0.150	02/26/2016	ND	5.58	92.9	6.00	0.718	
Total BTEx	1.56	0.300	02/26/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/26/2016	ND	416	104	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	02/26/2016	ND	198	98.8	200	7.73	
DRO >C10-C28	74.9	10.0	02/26/2016	ND	208	104	200	14.9	

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 88.8 % 28-171

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

 Received: 02/25/2016  
 Reported: 03/03/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/24/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 2' (H600421-04)**

BTX 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	02/26/2016	ND	2.06	103	2.00	0.0598	
Toluene*	0.258	0.050	02/26/2016	ND	2.03	101	2.00	0.159	
Ethylbenzene*	0.442	0.050	02/26/2016	ND	1.82	90.8	2.00	0.254	
Total Xylenes*	1.78	0.150	02/26/2016	ND	5.58	92.9	6.00	0.718	
Total BTX	2.48	0.300	02/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 73.6-140

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	02/26/2016	ND	416	104	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	82.2	10.0	02/26/2016	ND	198	98.8	200	7.73	
DRO >C10-C28	751	10.0	02/26/2016	ND	208	104	200	14.9	

Surrogate: 1-Chlorooctane 116 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 02/25/2016  
Reported: 03/03/2016  
Project Name: ONYX PWU 29 #3  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 02/24/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 3' (H600421-05)**

Sample 10

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

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	02/26/2016	ND	416	104	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	02/26/2016	ND	198	98.8	200	7.73					
DRO >C10-C28	26.0	10.0	02/26/2016	ND	208	104	200	14.9					

Surrogate: 1-Chlorooctane 90.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.7 % 28-171

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

 Received: 02/25/2016  
 Reported: 03/03/2016  
 Project Name: ONYX PWU 29 #3  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/24/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 4' (H600421-06)**

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	02/26/2016	ND	2.06	103	2.00	0.0598	
Toluene*	<0.050	0.050	02/26/2016	ND	2.03	101	2.00	0.159	
Ethylbenzene*	<0.050	0.050	02/26/2016	ND	1.82	90.8	2.00	0.254	
Total Xylenes*	<0.150	0.150	02/26/2016	ND	5.58	92.9	6.00	0.718	
Total BTEX	<0.300	0.300	02/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.6 % 73.6-140

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	02/26/2016	ND	416	104	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	02/26/2016	ND	198	98.8	200	7.73			
DRO >C10-C28	112	10.0	02/26/2016	ND	208	104	200	14.9			

Surrogate: 1-Chlorooctane 94.0 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

\*=Accredited Analyte

**Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

---

\*=Accredited Analyte**Cardinal Laboratories**

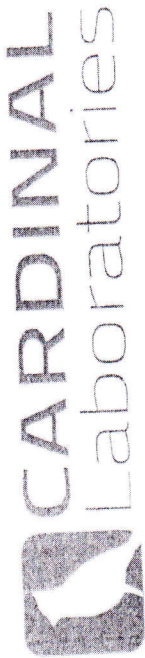
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---

Celey D. Keene, Lab Director/Quality Manager





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hungry Horse, LLC  
Project Manager: Vernon K. Black  
Address: PO Box 1058 State: NM Zip: 88241  
City: Hobbs Phone #: 575-826-2253 Fax #: 575-391-4585  
Project #: \_\_\_\_\_ Project Owner: Devon  
Project Name: Onyx  
Project Location: Eddie County N.M  
Sampler Name: Vernon K. Black

BILL TO		ANALYSIS REQUEST												
P.O. #:	Company:													
Attn:	Address:													
City:	State:													
Phone #:	Fax #:													
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME								
H600421	SP1 2'	GROUNDWATER	ACID/BASE		2-24-16	10:00								
1	SP7 3'	WASTEWATER	ICE / COOL			10:10								
2	SP1 4'	SOIL	OTHER			10:20								
3	SP2 2'	X	SLUDGE			10:30								
5	SP2 3'		OTHER			10:40								
6	SP2 4'					10:50								

Handwritten notes in the analysis request table:  
C1  
TPH  
BTEX

PLEASE NOTE: Samples must be submitted to the laboratory within 24 hours of collection. Samples must be stored at 4°C or below until analysis. Samples must be analyzed within 30 days of collection. Samples must be analyzed within 30 days of collection. Samples must be analyzed within 30 days of collection.

Relinquished By: [Signature] Date: 2-25-16 Time: 10:15  
Received By: [Signature] Date: 2-25-16 Time: 10:15  
Checked By: [Signature] Date: 2-25-16 Time: 10:15  
Delivered By: (Circle One) UPS  
Sampler - UPS - Bus - Other: \_\_\_\_\_  
Phone Result: ☒ Yes ☐ No Add'l Phone #: \_\_\_\_\_  
Fax Result: ☒ Yes ☐ No Add'l Fax #: \_\_\_\_\_  
REMARKS: \_\_\_\_\_