By Kellie Jones at 8:44 am, Feb 08, 2016

APPROVED

By Kellie Jones at 8:44 am, Feb 08, 2016

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

REVIEWED

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

 OCD gives the option to remove an additional 2' at SP1 and not install a liner.
A confirmation sample will need to be pulled prior to backfill.

25Jan16

To: Kellie Jones, New Mexico Oil Conservation Division, District 1 Jim Amos, Bureau of Land Management

Reference: Remediation Work Plan Operator: Devon Energy Production Company Location: Rio Blanco 4 Fed Com #3 API: 30-025-36425 Legals: UL. J, Sec.4, T23S, R34E, Lea County GPS: 32.3309, -103.4718

Site Information

This well site is off Delaware Basin Road (CR 21) approximately 10 miles from the intersection of Delaware Basin Road and Highway 128. This is an active well site with an active battery. The area surrounding the site is relatively flat with gentle rolling sand dunes. There is no know water well or surface body of water within 1000' of this location. The Lea County Depth to Groundwater Map indicates the depth to groundwater to be 275'. The New Mexico Office of the State Engineer's website has no ground water data listed for this area.

This remediation work plan is in response to a release of produced water from a failed fitting on a water pump. The water pump was located behind the battery (north side) on the edge of the caliche pad.

Work Conducted to Date

A delineation of four sample points was conducted using a hand auger (See attached map). The only sample point indicating a presence of chlorides was SP #1, the place where the water transfer pump was sitting behind the battery and on the caliche pad. Field test indicated a continual decline in chlorides form the surface down to 9' BGS. At this point, hard soil was encountered resulting in auger refusal. The impacted area is 21' x 13'.

SP's 2-3 were selected just off the edge of the caliche pad to check for run off, lab analysis supported the field test results of chlorides being non-detectable. SP #4 was selected in the pasture in the area of a slight overspray. As before, lab analysis supported the field test results of chlorides being non-detectable.

Proposal

Based upon soil analysis, the small size of the impacted area, and the fact that the impacted area is on the caliche pad, I propose to excavate the impacted area at SP #1 to 3' BGS and line with a synthetic liner. Due to no presence of contaminants, I propose to leave SP's 2-4 as is with no further work being performed.

Vernon K. Black, Hungry Horse, LLC

State of New Mexico Energy Minerals and Natural Resources

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.

<u>istrict IV</u> 220 S. St. Franc	is Dr., Santa F	e, NM 87505		Sa	nta Fe	, NM 875)5	4		
			Rele	ase Notific	ation	and Co	rrective A	ction		
			11010			ODEDVI	OR	🛛 In	itial R	eport Final Report
	Day	ion Energy	Producti	on		Contact Sa	intiago Huerta	Production A	Assista	int Foreman
Name of Co Address 64	mpany Dev	von Ellergy	Artesia N	M 88220	,	Telephone l	No. 575.513.052	29		
Address 64 Facility Na	88 Seven Ki	vers nwy 1	om 3			Facility Ty	e SWD			
Facility Na	me RIO Diai	10041000	0111 5			R 11		API	No. 3	0-025-36425
Surface Ow	ner Privat	e		Mineral				111 1		
				LOCA	ATIO	N OF RE	LEASE	East/West Li	C	ounty
Unit Letter J	Section 4	Township 23S	Range 34E	Feet from the 1650	North	/South Line FSL	Feet from the 1650	FEL		EA
			L	atitude: <u>32.33(</u>)944	Longit	ude:103.471	861		
				NAT	ΓURE	OF REL	EASE		P	
Trung of Dal	ease Spill H	Produced wa	ter			Volume o	f Release	Volu 8 BE		covered
Type of Ker	ease spin 1	roddeed				10 BBL	Hour of Occurre			our of Discovery
Source of R	elease Corros	sion on a fitt	ing			9/30/15 at	9:05 am		15 at 9:	
NI Loomor	liate Notice	Given?					o Whom?			
was immed	mate Notice v]Yes	No 🗌 Not R	Required					
By Whom?		12				Date and	Hour 10:00 am		ж.	4
Santiago H	uerta		24 m.			If YES. V	olume Impactin	g the Waterco	urse	
Was a Wat	ercourse Rea	iched?] Yes 🛛	No		N/A				
YC Wistowa	course was In	nnacted. De	scribe Fu	lly.* N/ A						
Corrosion	ause of Prob on a fitting f r pump was	or the suction	medial Ac	ction Taken.* a water transfer	pump o	caused the fit	ting to break off	, resulting in a	spill. I	nlet valves were closed and
8 BBL pro remediatio	n.	released an		ecovered with a				understand the	t nursu	ant to NMOCD rules and uses which may endanger
regulations public heal should thei	all operators th or the envi r operations l	are required ronment. The nave failed to addition, NM	ne accepta o adequate	nce of a C-141 re ly investigate and eptance of a C-14	port by	the NMOCD	marked as "Final ation that pose a t eve the operator o	Report" does n hreat to ground of responsibility	ot relie water, for co	surface water, human health mpliance with any other
federal, sta	te, or local la	ws and/or re	Suldions.				OIL CO	NSERVAT	ION]	DIVISION
Signature:	Jeanette	Barron	/			_				
						Approved	oy Environmental	Specialist:		
	me: Jeanette					Approval I	Date:	Expir	ation I	Date:
	d Admin Sup									
E-mail Ad	dress: Jeanet	te.barron@				Conditions	of Approval:			Attached
Date:	11/06/15	pate If Nece		: 575.748.1813						

* Attach Additional Sheets If Necessary



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

No records found.

PLSS Search:

Section(s): 4

Township: 23S

Range: 34E

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.

















SP #1-Impacted area on pad, 21' x 13' SP #2-4 – light over spray



January 21, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: RIO BLANCO 4 FED COM #3

Enclosed are the results of analyses for samples received by the laboratory on 01/18/16 15:45.

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.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keene

Celey D. Keene Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location:	01/18/2016 01/21/2016 RIO BLANCO 4 FED COM #3 NONE GIVEN LEA COUNTY, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/18/2016 Soil ** (See Notes) Jodi Henson
---	---	--	---

Sample ID: SP #1 9' BGS (H600098-01)

BTEX 8021B	mg/		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	< 0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Benzene*			01/20/2016	ND	1.75	87.7	2.00	0.520	
Toluene*	< 0.050	0.050	01/20/2010			00.4	2.00	1.16	
Ethylbenzene*	< 0.050	0.050	01/20/2016	ND	1.61	80.4	2.00		
Total Xylenes*	< 0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/20/2016	ND	432	108	400	0.00	
трн 8015М	mg	/kg	Analyze	d By: MS					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	<10.0	10.0	01/19/2016	ND	194	96.9	200	3.69	
SRO C6-C10	<10.0	10.0	01/19/2016	ND	179	89.5	200	4.37	
DRO >C10-C28	10.0								
Surrogate: 1-Chlorooctane	94.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	104	% 28-171							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 6



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Received: Reported: Project Name: Project Number: Project Location:	01/18/2016 01/21/2016 RIO BLANCO 4 FED COM #3 NONE GIVEN LEA COUNTY, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/18/2016 Soil ** (See Notes) Jodi Henson
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Sample ID: SP #2 1' BGS (H600098-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
,	< 0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Benzene*	< 0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Toluene*	< 0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Ethylbenzene*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total Xylenes*	< 0.300	0.300	01/20/2016	ND					
Total BTEX	<0.500	0.000							

101 % 73.6-140 Surrogate: 4-Bromofluorobenzene (PIE

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2016	ND	432	108	400	0.00	
трн 8015М	mg	/kg	Analyze	d By: MS					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	<10.0	10.0	01/19/2016	ND	194	96.9	200	3.69	
GRO C6-C10 DRO >C10-C28	<10.0	10.0	01/19/2016	ND	179	89.5	200	4.37	
Surrogate: 1-Chlorooctane	89.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	91.9	% 28-17	1						

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*=Accredited Analyte

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Celegit theme-

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location:	01/18/2016 01/21/2016 RIO BLANCO 4 FED COM #3 NONE GIVEN LEA COUNTY, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/18/2016 Soil ** (See Notes) Jodi Henson
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Sample ID: SP #3 1' BGS (H600098-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS		and the second se			
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	< 0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Benzene*	< 0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Toluene*	< 0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Ethylbenzene*	< 0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total Xylenes*	< 0.300	0.300	01/20/2016	ND					
Total BTEX									
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-140							
Chloride, SM4500Cl-B	mg.	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	32.0	16.0	01/20/2016	ND	432	108	400	0.00	
Chloride	0210								

Chloride	5210	-							
трн 8015М	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Productive Bandon	<10.0	10.0	01/19/2016	ND	194	96.9	200	3.69	
GRO C6-C10	27.2	10.0	01/19/2016	ND	179	89.5	200	4.37	
DRO >C10-C28	21.2	10.0	01/10/2020						
Surrogate: 1-Chlorooctane	97.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	94.2	% 28-17.	l						

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*=Accredited Analyte

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Celleg B. Freme

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD 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 5 of 6



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476	T BULLTO ANALYSIS REQUEST
Company Name: Hungry Horse, LLC	DIFFIC
	P.O.#:
22	Company:
Abbe a	Attn:
#: 515-631-2263 F	Address
	City.
me: Rid Blanco	State: Zip:
- Court	Phone #:
Sampler Name: UECNEN K. Bleck	Fax #: PRESERV SAMPLING
Portance Containers So the LD. So the CG (G)RAB OR (C)OMP (G)RAB OR (C)OMP	SLUDGE 1879 1879 1879 1879 1879 1879 1879 1879 1875
ss, Cardenal's hishely and clearfs exclusive termedy for any claim ansis Anglegence and any other cause whateoever shall be deemed ware and any other cause whateoever shall be deemed ware	or toot, should be finnished for the amount paint by the client for the the increaved by Cardinal within 30 days after completion of the applicable base at use or huns of profile incurrent by client, its subsidianties.
Time: A Contract of Contract Leaves	Mender and the appreciation of the appreciatio
29.6	Sample Condition CHECKEPBY: Cool Intact Ves Ves

+ Cardinal cannot accent verbal changes. Please fax written changes to 505-395-2476

Page 6 of 6



January 27, 2016

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

RE: RIO BLANCO 4 FED COM #3

Enclosed are the results of analyses for samples received by the laboratory on 01/22/16 16:00.

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.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location:	01/22/2016 01/27/2016 RIO BLANCO 4 FED COM #3 NONE GIVEN LEA COUNTY, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2016 Soil ** (See Notes) Jodi Henson
---	---	--	---

Sample ID: SP 4 SURFACE (H600159-01)

Sample ID: SP 4 SURFACE BTEX 8021B	(11000133 01 mg/		Analyze	d By: MS					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	<0.050	0.050	01/27/2016	ND	1.99	99.7	2.00	0.268	
Benzene*			01/27/2016	ND	1.93	96.7	2.00	1.66	
Toluene*	<0.050	0.050		ND	1.77	88.5	2.00	2.28	
Ethylbenzene*	<0.050	0.050	01/27/2016			90.5	6.00	2.12	
Total Xylenes*	<0.150	0.150	01/27/2016	ND	5,43	90.5	0100		
Total BTEX	<0.300	0.300	01/27/2016	ND					

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

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	<16.0	16.0	01/25/2016	ND	400	100	400	3.92	
Chloride TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<10.0	10.0	01/26/2016	ND	201	101	200	0.838	
GRO C6-C10 DRO >C10-C28	<10.0	10.0	01/26/2016	ND	187	93.6	200	1.58	
	0.6.1	% 35-147	7						
Surrogate: 1-Chlorooctane	86.1								
Surrogate: 1-Chlorooctadecane	88.9	% 28-17	1						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location:	01/22/2016 01/27/2016 RIO BLANCO 4 FED COM #3 NONE GIVEN LEA COUNTY, NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	01/21/2016 Soil ** (See Notes) Jodi Henson
---	---	--	---

Sample ID: SP 4 1' (H600159-02)

Sample ID: SP 4 1 (10 BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	< 0.050	0.050	01/27/2016	ND	1.99	99.7	2.00	0.268	
Benzene*	< 0.050	0.050	01/27/2016	ND	1.93	96.7	2.00	1.66	
Toluene*	< 0.050	0.050	01/27/2016	ND	1.77	88.5	2.00	2.28	
Ethylbenzene*	< 0.050	0.150	01/27/2016	ND	5.43	90.5	6.00	2.12	
Total Xylenes*			01/27/2016	ND					
Total BTEX	<0.300	0.300	01/2//2010						

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

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte		16.0	01/25/2016	ND	400	100	400	3.92	
Chloride	<16.0	10.0							
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
(a) Any Print Print (a)	<10.0	10.0	01/26/2016	ND	201	101	200	0.838	
GRO C6-C10	<10.0	2010			107	93.6	200	1.58	
DRO >C10-C28	<10.0	10.0	01/26/2016	ND	187	93.0	200	1.00	
	80.8	% 35-147							
Surrogate: 1-Chlorooctane	00.0	70 55 111							
Surrogate: 1-Chlorooctadecane	84.6	% 28-171							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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verbal changes. Please fax written changes to 505-393	Circle One)	e retredy for any claim printing whether based or contract or that shall be tended to the amount paid by the client to the rever solution demonstrations make in writing and received by Caritral writin 30 days after completion of the applicible apps, including writing fraudies, interruption, loss of use, or loss of profits incurred by client, its subsidiemes, executer by Caritral fraudies, of whites, interruption, loss of use, or loss of profits incurred by client, its subsidiemes, executer by Caritral fraudies, of white subch claim is pased upon any of the above stated readows or otherwise.	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	Address: City: State: Zi Phone #: Fax #:	K. Black 58 State: MM Zip: 88241 Company: Attn:	bs, NM 88240 75) 393-2476	CHAIN-OF-CUSTODY AND ANALYSIS REDUIEST