

January 29, 2013

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

RE: CMU #266

Enclosed are the results of analyses for samples received by the laboratory on 01/25/13 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 accredited 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.

Celey D. Keine

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



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

Fax To:

(505) 391-4585

Received:

01/25/2013 01/29/2013 Sampling Date:

01/25/2013

Reported:

CMU #266

Sampling Type:

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

Sample ID: N EXC @ 15' (H300227-01)

BTEX 8021B			

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2013	ND	1.76	88.2	2.00	25.1	
Toluene*	< 0.050	0.050	01/28/2013	ND	1.89	94.6	2.00	24.5	
Ethylbenzene*	<0.050	0.050	01/28/2013	ND	1.95	97.6	2.00	24.5	
Total Xylenes*	< 0.150	0.150	01/28/2013	ND	5.97	99.6	6.00	24.0	
Total BTEX	<0.300	0.300	01/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 89.4-12	6					100	

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	01/29/2013	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS				1	19 c S -
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2013	ND	198	98.9	200	1.48	
DRO >C10-C28	<10.0	10.0	01/27/2013	ND	177	88.7	200	0.110	

Surrogate: 1-Chlorooctane 65.3 % 65.2-140 Surrogate: 1-Chlorooctadecane 73.6% 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Fax To:

(505) 391-4585

Received:

01/25/2013 01/29/2013

Sampling Date:

01/25/2013

Reported:

CMU #266

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S EXC PT 1 @ 2' (H300227-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2013	ND	1.76	88.2	2.00	25.1	
Toluene*	< 0.050	0.050	01/28/2013	ND	1.89	94.6	2.00	24.5	
Ethylbenzene*	< 0.050	0.050	01/28/2013	ND	1.95	97.6	2.00	24.5	
Total Xylenes*	< 0.150	0.150	01/28/2013	ND	5.97	99.6	6.00	24.0	
Total BTEX	<0.300	0.300	01/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					100
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/29/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2013	ND	198	98.9	200	1.48	
DRO >C10-C28	<10.0	10.0	01/28/2013	ND	177	88.7	200	0.110	
Surrogate: 1-Chlorooctane	95.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	63.6-15	4						

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Celey D. Keine



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

Fax To:

(505) 391-4585

Received:

01/25/2013 01/29/2013 Sampling Date:

01/25/2013

Reported:

CMU #266

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: PT. 2 @ 2' (H300227-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2013	ND	1.76	88.2	2.00	25.1	
Toluene*	< 0.050	0.050	01/28/2013	ND	1.89	94.6	2.00	24.5	
Ethylbenzene*	<0.050	0.050	01/28/2013	ND	1.95	97.6	2.00	24.5	
Total Xylenes*	<0.150	0.150	01/28/2013	ND	5.97	99.6	6.00	24.0	
Total BTEX	<0.300	0.300	01/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/29/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2013	ND	198	98.9	200	1.48	
DRO >C10-C28	<10.0	10.0	01/27/2013	ND	177	88.7	200	0.110	
Surrogate: 1-Chlorooctane	88.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.3	% 63.6-15	4						

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Celey D. Keine



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

Fax To:

(505) 391-4585

Received:

01/25/2013

01/29/2013

Reported: Project Name:

BTEX 8021B

CMU #266 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

mg/kg

94.2%

107%

65.2-140

63.6-154

Sampling Date:

01/25/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 3 @ 2' (H300227-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2013	ND	1.76	88.2	2.00	25.1	
Toluene*	<0.050	0.050	01/28/2013	ND	1.89	94.6	2.00	24.5	
Ethylbenzene*	<0.050	0.050	01/28/2013	ND	1.95	97.6	2.00	24.5	
Total Xylenes*	<0.150	0.150	01/28/2013	ND	5.97	99.6	6.00	24.0	
Total BTEX	<0.300	0.300	01/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/29/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2013	ND	198	98.9	200	1.48	
DRO >C10-C28	<10.0	10.0	01/28/2013	ND	177	88.7	200	0.110	

Analyzed By: AP

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celey D. Keene



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

Received: Reported: 01/25/2013

Project Name: Project Number: Project Location: 01/29/2013 CMU #266 NONE GIVEN

NOT GIVEN

Sampling Date:

01/25/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: PT. 4 @ 2' (H300227-05)

BTEX 8021B

DILA BUZID	my	ng	Allolyac	u by. Ar				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2013	ND	1.76	88.2	2.00	25.1	
Toluene*	< 0.050	0.050	01/28/2013	ND	1.89	94.6	2.00	24.5	
Ethylbenzene*	< 0.050	0.050	01/28/2013	ND	1.95	97.6	2.00	24.5	
Total Xylenes*	< 0.150	0.150	01/28/2013	ND	5.97	99.6	6.00	24.0	
Total BTEX	< 0.300	0.300	01/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL Chloride, SM4500CI-B	102 mg	% 89.4-12 /kg		d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/29/2013	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2013	ND	198	98.9	200	1.48	
DRO >C10-C28	<10.0	10.0	01/28/2013	ND	177	88.7	200	0.110	
Surrogate: 1-Chlorooctane	93.7	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane

102 %

63.6-154

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Celey D. Keens



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

Fax To:

(505) 391-4585

Received:

01/25/2013 01/29/2013

Sampling Date:

01/25/2013

Reported:

Sampling Type:

Soil

Project Name: Project Number: CMU #266 NONE GIVEN Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: NORTH WALL (H300227-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP				11.	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/28/2013	ND	1.76	88.2	2.00	25.1	
Toluene*	< 0.050	0.050	01/28/2013	ND	1.89	94.6	2.00	24.5	
Ethylbenzene*	< 0.050	0.050	01/28/2013	ND	1.95	97.6	2.00	24.5	
Total Xylenes*	< 0.150	0.150	01/28/2013	ND	5.97	99.6	6.00	24.0	
Total BTEX	<0.300	0.300	01/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 89.4-12	6	7					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/29/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2013	ND	198	98.9	200	1.48	
DRO >C10-C28	<10.0	10.0	01/27/2013	ND	177	88.7	200	0.110	
Surrogate: 1-Chlorooctane	73.69	65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.79	63.6-15	4						

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Celey D. Keine



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

Fax To:

(505) 391-4585

Received:

01/25/2013 01/29/2013

Reported: Project Name:

Project Number:

Project Location:

CMU #266

NONE GIVEN NOT GIVEN

87.9%

63.6-154

Sampling Date:

01/25/2013 Soil

Sampling Type: Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

Sample ID: SOUTH WALL (H300227-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2013	ND	1.76	88.2	2.00	25.1	
Toluene*	< 0.050	0.050	01/28/2013	ND	1.89	94.6	2.00	24.5	
Ethylbenzene*	< 0.050	0.050	01/28/2013	ND	1.95	97.6	2.00	24.5	
Total Xylenes*	<0.150	0.150	01/28/2013	ND	5.97	99.6	6.00	24.0	
Total BTEX	<0.300	0.300	01/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 89.4-12	6						3
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/29/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2013	ND	198	98.9	200	1.48	
DRO >C10-C28	<10.0	10.0	01/27/2013	ND '	177	88.7	200	0.110	
Surrogate: 1-Chlorooctane	83.8	% 65.2-14	0						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keine



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Laboratories

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		19/18	BILL TO	ANALYSIS REQUEST
Project Manager: (School 4040)		P.O. #:		
Address: Contilled	17.	Company:	1) management (A)	
City: (6.1/6.5	1 Zip: 5.3.741	Attn:	And distribution of Control (1997) while parameters are not a final of	
Phone #: (4-35-1/31-05 & Fax#:		Address:	The state of the s	
Project #: Project Owner:	ner:	City:	The second secon	
Project Name: Lucencau		State: Zi	Zip:	
Project Location: CMUH366		Phone #:		
Sampler Name: (Sm. Or Grand		Fax#:		
FOR LAR USE ONLY	MATRIX	PRESERV.	SAMPLING	
Lab I.D. Sample I.D.		OF:		× 3 _
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3 222 621	10		137 100 X X	×
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	9		x x x st v1 xc.	2

analyses. All claims including those for in-gligorine and any other cause whatsoever that be deemed where unders made in writing and reserved by Cardinal writin 30 days after completion of the applicable acride. In no event hand Cardinal be liable for includinal or consequented thanges, including without the including without the including without a cardinal regardless of profits included the including without an experiment of the applicable.

The application of the above stated enems of alternative type control and application.

Relinquished By:

Recipied By: VLEASE NOTE: Liability and Dannagus. Cardinal's inhibility and client's exclanive remedy for any cleim nishig whe'ther based in contact or lost, shull be limited to the innount paid by the client for the

agre (c) hursy - how. Com ☐ Yes ☐ No Add'i Phone#:
☐ Yes ☐ No Add'i Fax#: Phone Result: Fax Result: REMARKS: CHECKED BY: Sample Condition Cool Intact 2 Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326