



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

---

March 20, 2012

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: FED F BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/19/12 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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: 03/19/2012  
 Reported: 03/20/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/19/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 SURFACE (H200675-01)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2012	ND	2.00	99.8	2.00	2.45	
Toluene*	<0.050	0.050	03/20/2012	ND	2.12	106	2.00	2.52	
Ethylbenzene*	<0.050	0.050	03/20/2012	ND	2.16	108	2.00	2.77	
Total Xylenes*	<0.150	0.150	03/20/2012	ND	6.77	113	6.00	2.69	

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	03/20/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/19/2012	ND	203	102	200	2.30	
DRO >C10-C28	159	10.0	03/19/2012	ND	212	106	200	30.5	

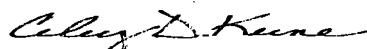
Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 103 % 57.6-158

Cardinal Laboratories

\*=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: 03/19/2012  
 Reported: 03/20/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/19/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 SURFACE (H200675-02)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2012	ND	2.00	99.8	2.00	2.45	
Toluene*	<0.050	0.050	03/20/2012	ND	2.12	106	2.00	2.52	
Ethylbenzene*	<0.050	0.050	03/20/2012	ND	2.16	108	2.00	2.77	
Total Xylenes*	<0.150	0.150	03/20/2012	ND	6.77	113	6.00	2.69	

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 64.4-134

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	03/20/2012	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	03/19/2012	ND	203	102	200	2.30	
DRO >C10-C28	14.2	10.0	03/19/2012	ND	212	106	200	30.5	


Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 113 % 57.6-158

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 Fax To: (505) 391-4585

 Received: 03/19/2012  
 Reported: 03/20/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/19/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 SURFACE (H200675-03)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2012	ND	2.00	99.8	2.00	2.45	
Toluene*	<0.050	0.050	03/20/2012	ND	2.12	106	2.00	2.52	
Ethylbenzene*	<0.050	0.050	03/20/2012	ND	2.16	108	2.00	2.77	
Total Xylenes*	<0.150	0.150	03/20/2012	ND	6.77	113	6.00	2.69	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/20/2012	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	03/19/2012	ND	203	102	200	2.30	
DRO >C10-C28	<10.0	10.0	03/19/2012	ND	212	106	200	30.5	

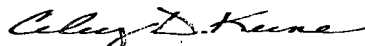
Surrogate: 1-Chlorooctane 86.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 95.2 % 57.6-158

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 Received: 03/19/2012  
 Reported: 03/20/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/19/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 SURFACE (H200675-04)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2012	ND	2.00	99.8	2.00	2.45	
Toluene*	<0.050	0.050	03/20/2012	ND	2.12	106	2.00	2.52	
Ethylbenzene*	<0.050	0.050	03/20/2012	ND	2.16	108	2.00	2.77	
Total Xylenes*	<0.150	0.150	03/20/2012	ND	6.77	113	6.00	2.69	

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/20/2012	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	03/19/2012	ND	203	102	200	2.30	
DRO >C10-C28	<10.0	10.0	03/19/2012	ND	212	106	200	30.5	

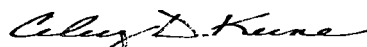
Surrogate: 1-Chlorooctane 104 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 57.6-158

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 Received: 03/19/2012  
 Reported: 03/20/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/19/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 SURFACE (H200675-05)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2012	ND	2.00	99.8	2.00	2.45	
Toluene*	<0.050	0.050	03/20/2012	ND	2.12	106	2.00	2.52	
Ethylbenzene*	<0.050	0.050	03/20/2012	ND	2.16	108	2.00	2.77	
Total Xylenes*	<0.150	0.150	03/20/2012	ND	6.77	113	6.00	2.69	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/20/2012	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	03/19/2012	ND	203	102	200	2.30	
DRO >C10-C28	986	10.0	03/19/2012	ND	212	106	200	30.5	

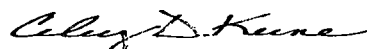
Surrogate: 1-Chlorooctane 97.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 91.7 % 57.6-158

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 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

 Received: 03/19/2012  
 Reported: 03/20/2012  
 Project Name: FED F BATTERY  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/19/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 SURFACE (H200675-06)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2012	ND	2.00	99.8	2.00	2.45	
Toluene*	<0.050	0.050	03/20/2012	ND	2.12	106	2.00	2.52	
Ethylbenzene*	<0.050	0.050	03/20/2012	ND	2.16	108	2.00	2.77	
Total Xylenes*	<0.150	0.150	03/20/2012	ND	6.77	113	6.00	2.69	

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/20/2012	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	03/19/2012	ND	203	102	200	2.30	
DRO >C10-C28	13.1	10.0	03/19/2012	ND	212	106	200	30.5	

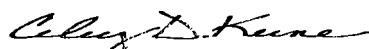
Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 114 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

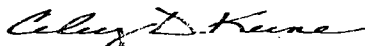
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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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\*=Accredited Analyte

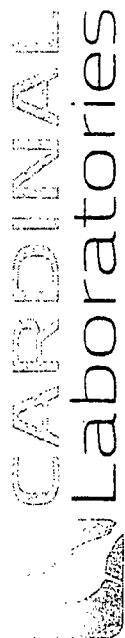
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---

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:	Project Manager:		P.O. #:												
Address:	City:		State:	Zip:	Company:										
Phone #:	Fax #:		Attn:												
Project #:	Project Owner:		Address:												
Project Name:	City:		State:	Zip:											
Project Location:	Phone #:														
Sampler Name:	Fax #:														
FOR LAB USE ONLY			MATRIX			PRESERV			SAMPLING						
			GROUNDWATER			ACID/BASE			DATE						
			WASTEWATER			ICE / COOL			TIME						
			SLUDGE			OTHER:									
			OIL												
			SOIL												
			# CONTAINERS												
			(G)RAB OR (C)OMP												
Lab I.D.			Sample I.D.												
H2000675			SP1												
203			SP2												
436			SP3												
436			SP4												
436			SP5												
436			SP6												
436			SP7												
			Surface												

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Relinquished By:	Date:	Received By:	Date:	Phone Result:	Yes	No	Add'l Phone #:
<i>[Signature]</i>	3/19/12	<i>[Signature]</i>	3/19/12		<input type="checkbox"/>	<input type="checkbox"/>	
Relinquished By:	Date:	Received By:	Date:	Fax Result:	Yes	No	Add'l Fax #:
					<input type="checkbox"/>	<input type="checkbox"/>	
REMARKS:							
Rush Please							
Delivered By: (Circle One)				CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool, Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
50				Initials: <i>[Signature]</i>			

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

#26