

November 17, 2016

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

RE: COTTON DRAW #182

Enclosed are the results of analyses for samples received by the laboratory on 11/15/16 9:15.

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/ga/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.

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: 11/15/2016 Sampling Date: 11/14/2016

Reported: 11/17/2016 Sampling Type: Soil

Project Name: COTTON DRAW #182 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: EDDY COUNTY, NM

Sample ID: SP 1 2' (H602556-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2016	ND	1.82	90.8	2.00	0.868	
Toluene*	<0.050	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
Ethylbenzene*	<0.050	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
Total Xylenes*	<0.150	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
Total BTEX	<0.300	0.300	11/15/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2016	ND	416	104	400	0.00	
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	11/15/2016	ND	191	95.7	200	3.77	
DRO >C10-C28	<10.0	10.0	11/15/2016	ND	199	99.4	200	1.91	
Surrogate: 1-Chlorooctane	101 9	% 35-147							
Surrogate: 1-Chlorooctadecane	89.2	% 28-171							

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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Project Name: COTTON DRAW #182 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2016	ND	1.82	90.8	2.00	0.868	
Toluene*	<0.050	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
Ethylbenzene*	<0.050	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
Total Xylenes*	<0.150	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
Total BTEX	<0.300	0.300	11/15/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/15/2016	ND	416	104	400	0.00	
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	11/15/2016	ND	191	95.7	200	3.77	
DRO >C10-C28	<10.0	10.0	11/15/2016	ND	199	99.4	200	1.91	
Surrogate: 1-Chlorooctane	97.2	% 35-147	,						

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Received: 11/15/2016 Sampling Date: 11/14/2016

Reported: 11/17/2016 Sampling Type: Soil

Project Name: COTTON DRAW #182 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 3 2' (H602556-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2016	ND	1.82	90.8	2.00	0.868	
Toluene*	< 0.050	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
Ethylbenzene*	< 0.050	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
Total Xylenes*	<0.150	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
Total BTEX	<0.300	0.300	11/15/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/15/2016	ND	416	104	400	0.00	
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	11/15/2016	ND	191	95.7	200	3.77	
DRO >C10-C28	<10.0	10.0	11/15/2016	ND	199	99.4	200	1.91	
Surrogate: 1-Chlorooctane	96.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.8 9	% 28-171							

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Received: 11/15/2016 Sampling Date: 11/14/2016

Reported: 11/17/2016 Sampling Type: Soil

Project Name: COTTON DRAW #182 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 4 2' (H602556-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665	QM-07
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443	QM-07
Ethylbenzene*	< 0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430	QM-07
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339	QM-07
Total BTEX	<0.300	0.300	11/16/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	11/15/2016	ND	416	104	400	0.00	
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	11/15/2016	ND	191	95.7	200	3.77	
DRO >C10-C28	<10.0	10.0	11/15/2016	ND	199	99.4	200	1.91	
Surrogate: 1-Chlorooctane	90.8 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	93.6	% 28-171							

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO	ANALYSIS REQUEST
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P.O. #:	
Company:	
State: NM Zip: 8824 Attn:	
Fax #: 575-391-4585 Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	
MATRIX PRESERV SAMPLING	
R: BASE: COOL	
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1 11-14 2:00m x x x	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	
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affiliates or successors arising out of or related to the performance.

Relinquished By:

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ No

Add'l Phone #: Add'l Fax #: