



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

July 07, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CROW FEDERAL MEGA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/01/15 16:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt. 1 (H501700-01)

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	07/02/2015	ND	2.27	114	2.00	2.86	
Toluene*	<0.050	0.050	07/02/2015	ND	2.03	101	2.00	3.09	
Ethylbenzene*	<0.050	0.050	07/02/2015	ND	1.92	96.0	2.00	5.36	
Total Xylenes*	<0.150	0.150	07/02/2015	ND	5.76	96.0	6.00	5.18	
Total BTX	<0.300	0.300	07/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

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	07/06/2015	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	<50.0	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	1870	50.0	07/06/2015	ND	221	110	200	6.77	

Surrogate: 1-Chlorooctane 84.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.8 % 52.1-176

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt. 2 (H501700-02)

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	07/02/2015	ND	2.27	114	2.00	2.86		
Toluene*	<0.050	0.050	07/02/2015	ND	2.03	101	2.00	3.09		
Ethylbenzene*	<0.050	0.050	07/02/2015	ND	1.92	96.0	2.00	5.36		
Total Xylenes*	<0.150	0.150	07/02/2015	ND	5.76	96.0	6.00	5.18		
Total BTEX	<0.300	0.300	07/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 61-154

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	07/06/2015	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	<50.0	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	2050	50.0	07/06/2015	ND	221	110	200	6.77	


Surrogate: 1-Chlorooctane 89.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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BRUCE BAKER
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HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt. 3 (H501700-03)

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	07/02/2015	ND	2.27	114	2.00	2.86	
Toluene*	<0.050	0.050	07/02/2015	ND	2.03	101	2.00	3.09	
Ethylbenzene*	<0.050	0.050	07/02/2015	ND	1.92	96.0	2.00	5.36	
Total Xylenes*	0.242	0.150	07/02/2015	ND	5.76	96.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/06/2015	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	<50.0	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	2040	50.0	07/06/2015	ND	221	110	200	6.77	

Surrogate: 1-Chlorooctane 90.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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 2350 W. MARLAND BLVD.
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 Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt. 4 (H501700-04)

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	07/02/2015	ND	2.27	114	2.00	2.86	
Toluene*	0.208	0.050	07/02/2015	ND	2.03	101	2.00	3.09	
Ethylbenzene*	1.08	0.050	07/02/2015	ND	1.92	96.0	2.00	5.36	
Total Xylenes*	1.18	0.150	07/02/2015	ND	5.76	96.0	6.00	5.18	
Total BTEX	2.47	0.300	07/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/06/2015	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	54.5	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	4000	50.0	07/06/2015	ND	221	110	200	6.77	

Surrogate: 1-Chlorooctane 93.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 128 % 52.1-176

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APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt. 5 (H501700-05)

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	07/06/2015	ND	2.16	108	2.00	0.912		
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964		
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401		
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760		
Total BTEX	<0.300	0.300	07/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/06/2015	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	<50.0	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	1650	50.0	07/06/2015	ND	221	110	200	6.77	


Surrogate: 1-Chlorooctane 87.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt. 6 (H501700-06)

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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/06/2015	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	<50.0	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	4390	50.0	07/06/2015	ND	221	110	200	6.77	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 140 % 52.1-176

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt. 7 (H501700-07)

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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEx	<0.300	0.300	07/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/06/2015	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	<50.0	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	1810	50.0	07/06/2015	ND	221	110	200	6.77	

Surrogate: 1-Chlorooctane 91.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	07/01/2015	Sampling Date:	07/01/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PILE Pt.8 (H501700-08)

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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/06/2015	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	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	234	10.0	07/06/2015	ND	221	110	200	6.77	


Surrogate: 1-Chlorooctane 91.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.0 % 52.1-176

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Hope S. Moreno For 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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* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326