



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

December 11, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL #94

Enclosed are the results of analyses for samples received by the laboratory on 12/04/15 15:10.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	12/04/2015	Sampling Date:	12/03/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	LEE FEDERAL #94	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 5 @ 2.5' (H503170-01)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTX	<0.300	0.300	12/07/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/08/2015	ND	400	100	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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*=Accredited Analyte

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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:	12/04/2015	Sampling Date:	12/03/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	LEE FEDERAL #94	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 5 @ 3' (H503170-02)

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	12/07/2015	ND	1.92	96.0	2.00	0.931		
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12		
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44		
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22		
Total BTEx	<0.300	0.300	12/07/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/08/2015	ND	400	100	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	

Surrogate: 1-Chlorooctane 93.7 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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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: 12/04/2015
Reported: 12/11/2015
Project Name: LEE FEDERAL #94
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/03/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 5 @ 3.5' (H503170-03)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEx	<0.300	0.300	12/07/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2015	ND	400	100	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	

Surrogate: 1-Chlorooctane 93.4 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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

Received:	12/04/2015	Sampling Date:	12/04/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	LEE FEDERAL #94	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 6 @ 1' (H503170-04)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTX	<0.300	0.300	12/07/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	12/08/2015	ND	400	100	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	

Surrogate: 1-Chlorooctane 94.0 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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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: 12/04/2015
Reported: 12/11/2015
Project Name: LEE FEDERAL #94
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/04/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 6 @ 2' (H503170-05)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTX	<0.300	0.300	12/07/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/08/2015	ND	400	100	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	

Surrogate: 1-Chlorooctane 93.8 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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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:	12/04/2015	Sampling Date:	12/04/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	LEE FEDERAL #94	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 6 @ 3' (H503170-06)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTX	<0.300	0.300	12/07/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/08/2015	ND	400	100	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	12/08/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/08/2015	ND	205	102	200	6.41	

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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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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Celey D. Keene, Lab Director/Quality Manager



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