

September 15, 2015

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CROW FED #35

Enclosed are the results of analyses for samples received by the laboratory on 09/10/15 8:05.

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/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.

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. Keine

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:	09/10/2015	Sampling Date:	09/09/2015
Reported:	09/15/2015	Sampling Type:	Soil
Project Name:	CROW FED #35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 8 PT. COMP #1 (H502386-01)

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	09/14/2015	ND	2.03	101	2.00	2.76	
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882	
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897	
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713	
Total BTEX	<0.300	0.300	09/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	85.6-13	7						
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	09/11/2015	ND	185	92.4	200	1.46	
DRO >C10-C28	183	10.0	09/11/2015	ND	191	95.3	200	4.09	
Surrogate: 1-Chlorooctane	85.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.5	% 52.1-17	6						

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*=Accredited Analyte

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Celez D. Keine

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:	09/10/2015	Sampling Date:	09/09/2015
Reported:	09/15/2015	Sampling Type:	Soil
Project Name:	CROW FED #35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 8 PT. COMP #2 (H502386-02)

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	09/14/2015	ND	2.03	101	2.00	2.76	
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882	
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897	
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713	
Total BTEX	<0.300	0.300	09/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	85.6-13	7						
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	09/11/2015	ND	185	92.4	200	1.46	
DRO >C10-C28	196	10.0	09/11/2015	ND	191	95.3	200	4.09	
Surrogate: 1-Chlorooctane	81.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.4	% 52.1-17	6						

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Celez D. Keine

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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2416	: (Circle One)	Time: 30	Relinquished By: Date: Date: Pactor P	PLEASE NOTE: Liability and Damages. Cardinal's fability and client's exclusive remedy for any daim arising whether based in contract or hot shall be finited to the		- 8pt, comp # 2 C/	comp -	(G)RAB # CONT GROUN	Lab I.D. Son (C)O TAINERS IDWATER WATER		FOR LAR INFO KULT HUMP WY	Project Location: CDW Frd #35		Project #: Project Owner:	575-393-2967 Fax #: 575-39:	City: Hobbs State: NM Zip: 88240	Address: 419 W Cain	01	Apache	DINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
	ION CHECKED BY:		and received by Cardinal within 30 days after completion of the net received by Cardinal within 30 days after completion of the ns, loss of use, or loss of profits incurred by client, its subsidiarie impebased upon any of the above stated reasons or otherwise.	Tacl of fort shall be limited to the encoded of the		1 9.9-15	1, 9-4-15	SLUDGI OTHER ACID/BA ICE / CC OTHER DATE	: ASE: DOL	X PRESERV. SAMPLING	Fax #:	#	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO	2111 Beechwood, Abilene, TX 79603 (325) 673-7001 FAX (325)673-7020
erivironmental tech: company: larry.baker@apachecorp.com	email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com; sedwards@rice-ecs.com	Phone Result: Ves No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS:	If only the clerk for the applicable of the applicable of the applicable of the applicable of the unbaffarine assons or otherwise.				10:00	TIME		Ch TPH E Tex	8 BTE	01 EX TI	5 M	1	nic	ons		ANALYSIS REQUEST	ANALYOD	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST