

July 09, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: E. L. FEDERAL #8

Enclosed are the results of analyses for samples received by the laboratory on 07/02/14 8:20.

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 - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:	07/02/2014	Sampling Date:	06/27/2014
Reported:	07/09/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 1 @ 11' (H402011-01)

BTEX 8260B	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	07/07/2014	ND	2.16	108	2.00	1.57	
Toluene*	<0.050	0.050	07/07/2014	ND	1.78	89.0	2.00	2.82	
Ethylbenzene*	<0.050	0.050	07/07/2014	ND	1.69	84.3	2.00	3.97	
Total Xylenes*	<0.150	0.150	07/07/2014	ND	5.25	87.5	6.00	2.78	
Total BTEX	<0.300	0.300	07/07/2014	ND					
Surrogate: Dibromofluoromethane	93.4	% 61.3-14	2						
Surrogate: Toluene-d8	99.7	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	96.8	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	07/09/2014	ND	416	104	400	3.92	
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	07/04/2014	ND	180	90.2	200	1.72	
DRO >C10-C28	<10.0	10.0	07/04/2014	ND	193	96.4	200	0.0794	
Surrogate: 1-Chlorooctane	114 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	122	63.6-15	4						

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:	07/02/2014	Sampling Date:	06/27/2014
Reported:	07/09/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 1 @ 14' (H402011-02)

BTEX 8260B	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	07/07/2014	ND	2.16	108	2.00	1.57	
Toluene*	<0.050	0.050	07/07/2014	ND	1.78	89.0	2.00	2.82	
Ethylbenzene*	<0.050	0.050	07/07/2014	ND	1.69	84.3	2.00	3.97	
Total Xylenes*	<0.150	0.150	07/07/2014	ND	5.25	87.5	6.00	2.78	
Total BTEX	<0.300	0.300	07/07/2014	ND					
Surrogate: Dibromofluoromethane	99.2	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	96.0	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/09/2014	ND	416	104	400	3.92	
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	07/04/2014	ND	180	90.2	200	1.72	
DRO >C10-C28	<10.0	10.0	07/04/2014	ND	193	96.4	200	0.0794	
Surrogate: 1-Chlorooctane	117 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	128	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:	07/02/2014	Sampling Date:	06/27/2014
Reported:	07/09/2014	Sampling Type:	Soil
Project Name:	E. L. FEDERAL #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL 1 @ 15' (H402011-03)

BTEX 8260B	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	07/07/2014	ND	2.16	108	2.00	1.57	
Toluene*	<0.050	0.050	07/07/2014	ND	1.78	89.0	2.00	2.82	
Ethylbenzene*	<0.050	0.050	07/07/2014	ND	1.69	84.3	2.00	3.97	
Total Xylenes*	<0.150	0.150	07/07/2014	ND	5.25	87.5	6.00	2.78	
Total BTEX	<0.300	0.300	07/07/2014	ND					
Surrogate: Dibromofluoromethane	93.5	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.4	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/09/2014	ND	416	104	400	3.92	
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	07/04/2014	ND	180	90.2	200	1.72	
DRO >C10-C28	<10.0	10.0	07/04/2014	ND	193	96.4	200	0.0794	
Surrogate: 1-Chlorooctane	117 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	127 9	63.6-15	4						

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Celey 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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Project Manager: Company Name: Project Name: Project Location: Project #: Phone #: city: Hobbs H40201 Sampler Name: Kyle Humphrey Address: analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or cors attitiates or successors arising out of or related to the performance attitiates or successors arising out of or related to the performance attitiates or successors arising out of or related to the performance attitiates or successors arising out of or related to the performance attitiates or successors arising out of or related to the performance attitiates or successors arising out of or related to the performance attitiates or successors arising out of or related to the performance attitiates or successors arising out of or related to the performance attitiates or successors arising out of our related to the performance attitude to the perfor Relinquished By: Relinquished By: FOR LAB USE ONLY Sampler - UPS - Bus - Other LEASE NOTE: Liability Lab I.D. Delivered By: (Circle One) Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2474 KALE KIMPAN S VNT VPr+ (505) 393-2326 FAX (505) 393-2476 A JAN T M pecho LUCP Sample I.D. 5 1 Francol 10 5 Beker 3 5 Cause Fax #: Project Owner: State: NM Date: Time: E T De 20 Zip: 88240 A A (G)RAB OR (C)OMP Rece without Im Received By: (325) 673-7001 FAX (325)673-7020 # CONTAINERS ived B GROUNDWATER Cool Intact Yes Yes No No WASTEWATER Sample Condition MATRIX SOIL ٩, OIL SLUDGE State: City: Attn: P.O. #: Fax #: Address: Company: OTHER Phone #: oss of use ACID/BASE PRESERV. by SICE / COOL or loss of profits incurred by client, its subsidiaries, CHECK 5 BILL NO OTHER of the above 6-27-W 10:05 Zip: 6-27-N DATE SAMPLING Phone Result: Fax Result: REMARKS: 0,00 by the client for the Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; email results TIME sedwards@rice-ecs.com,lflores@rice-ecs.com Khumphrey@rice-ecs.com Lweinheimer@rice-ecs.com Chlorides TPH 8015 M ١ Yes BTEX 1 No No Texas TPH ANALYSIS Complete Cations/Anions Add'I Fax #: Add'l Phone #: TDS REQUEST