

APACHE CORPORATION

P.O.Box 1849 Eunice, NM 88231 Phone 575.394.3159

Empire Abo C-49 SWD (2RP-2638)

Termination Request

API No. 30-015-03180

Release Date: November 17th, 2014

Unit Letter L, Section 29, Township 17S, Range 29E



CONSULTING & SAFETY PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

March 9th, 2015

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: Termination Request Apache Empire Abo C-49 SWD (2RP-2638) UL/L sec. 29 T17S R29E API No. 30-015-03180

Mr. Bratcher:

Apache Corporation (Apache) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 7.2 miles west of Loco Hills, New Mexico at UL/L sec. 29 T17S R29E. Previous soil bores conducted at this site show that there is no groundwater in this area.

On November 17th, 2014, Apache discovered that a ceramic plunger on the east triplex pump failed at the SWD, releasing 750 barrels of produced water over 28,604 square feet of lease pad, lease road and pasture land. All pumps were shut down and vacuum trucks were dispatched to the site. The vacuum trucks recovered a total of 650 barrels of produced water. NMOCD and BLM were notified of the release on November 17th, 2014, and an initial C-141 was sent to both agencies for approval. NMOCD approved the initial C-141 on December 2nd, 2014 (Appendix A).

RECS personnel were on site beginning on November 17th, 2014, to conduct remediation efforts (Figure). Based on an initial assessment of the release, the release area on the pad was scraped down 6 inches. Once the scrape was completed, 5 points were taken from the bottom of the scrape and field tested for chlorides and organic vapors. The samples were then sent to a commercial laboratory for analysis. The laboratory returned chloride readings that ranged from 752 mg/kg to non-detect. GRO, DRO and BTEX readings for the bottom samples returned values of non-detect.

In the pasture to the west of the pad, the release was scraped in two parts: a 1.5 ft excavation and a 6 inch scrape. At the base of the 1.5 ft excavation, two bottom samples and four wall samples were taken and field tested for chlorides and organic vapors. The samples were then sent to a commercial laboratory for analysis. The laboratory returned chloride readings that ranged from

912 mg/kg to non-detect. GRO, DRO and BTEX readings for the bottom and wall samples returned values of non-detect. A bottom sample from the 6 inch scrape was taken and field tested for chlorides and organic vapors. The sample was then sent to a commercial laboratory for analysis. The 6 inch scrape bottom sample returned a chloride value of 240 mg/kg with GRO, DRO and BTEX readings of non-detect.

On December 9th, 2014, three auger points were installed in the release area to the east of the lease pad. The auger points were installed to a depth of 1 ft bgs, and the 1 ft bgs samples from each auger point were taken and field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analysis. Hand Auger Point 1 returned a laboratory chloride value of 768 mg/kg, Hand Auger Point 2 returned a laboratory chloride value of 720 mg/kg, and Hand Auger Point 3 returned a laboratory chloride value of 144 mg/kg. The GRO, DRO and BTEX results for all samples returned values of non-detect (Appendix B).

Based on the laboratory sampling data, a Path Forward was submitted to NMOCD and BLM on January 6th, 2015. The Path Forward requested permission to backfill the lease pad, the scrape and excavation to the west of the lease pad. In addition, Apache requested permission to scrape the release area on the east side of the pad to 1 ft bgs and then backfill that scrape. NMOCD and BLM approved the Path Forward on January 7th, 2015.

The east side of the pad was scraped down by hand shovel to 1 ft bgs. All contaminated soils were taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to backfill the lease pad and lease road. Clean top soil was imported to site to backfill the pasture. The scrapes were contoured to the surrounding location.

Photo documentation of field activities can be found in Appendix C.

Given that Apache received permission to backfill the site from NMOCD and BLM, and the scrapes were backfilled with clean soil, Apache respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix D.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

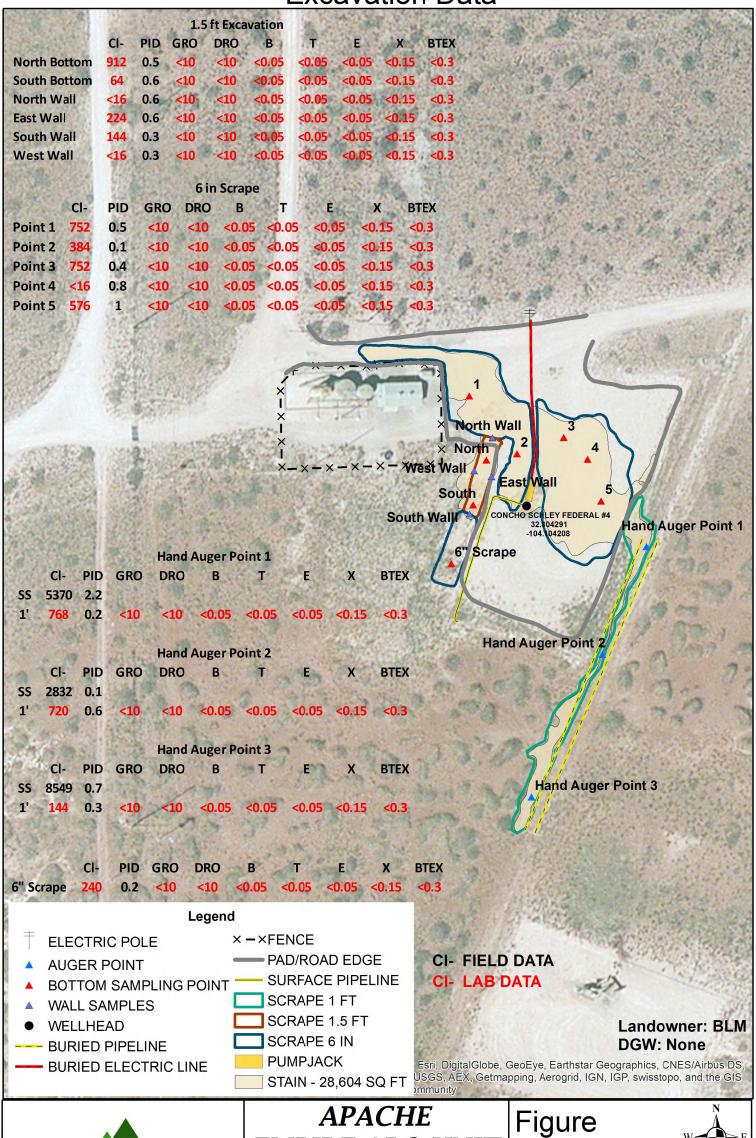
Figure – Excavation Data

Appendix A – Initial C-141 Appendix B – Laboratory Analyses Appendix C – Photo Documentation

Appendix D – Final C-141

Figures

Excavation Data

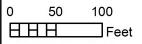




EMPIRE ABO UNIT C-49 SWD

ULL SECTION 29 T-17-S R-29-E **EDDY COUNTY, NM**





GPS date: 12/03/14 CF, 12/10/14 AR Drawing date: 1/27/15 Drafted by: L. Weinheimer

Appendix A Initial C-141

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources NOV 2 6 2014

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Economic Propriete District Office in accordance with 19.15.29 NMAC.

		4072		Competition		OPERA	TOR		M Initi	al Report	Final Re
Name of C	ompany: A	Apache Corp		873		Contact Br					
		irland Blvd I		M 88240			No. (432) 631-6	5982			
Facility Na	me Empir	e Abo C-49	SWD			Facility Typ	e: Facility	-			
Surface Ov	vner BLM			Mineral	Owner				API No	. Facility	- Deline
						LOPPE	r magn			5-031	80
Unit Letter	Section	Taxmabla	10		_	OF RE			2020 400 300		3,00
L.	29	Township 17S	Range 29E	Feet from the	North/	South Line	Feet from the	East	West Line	County Eddy	
			La	titude		Longitud	le	-			
				NA'	TURE	OF REL	EASE				
Type of Rele						produced v			produced	water	50 barrels of
Source of Re	elease: Trip	lex pump				The factor of th	lour of Occurrence	e		Hour of Dis	
Was Immedi	iate Notice (Yes [No □ Not R	equired	If YES, To	4 at 1:00 a.m. Whom? cher (NMOCD) a	nd Jeffe		14 at 6:00 a.) on (BLM)	III.
By Whom?							lour 11/17/2014				
Was a Water	course Read		Yes 🗵	No No		If YES, Vo	olume Impacting	the Wat	ercourse.		
Ceramic plui	nger on east	em and Reme triplex pump			of fluid.	All pumps w	ere shut down and	d vacuu	m trucks w	ere dispatche	ed to pick up
Ceramic plui standing flui Describe Are The majority	nger on east d. a Affected a of the relea	triplex pump and Cleanup / ise was contai	failed resu Action Tak ned inside	en.*	nent wall	but fluid did	breach the contai	nment o	on the north	west comer	and ran down lea
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Appendix B Laboratory Analyses



December 10, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMPIRE ABO C-49 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/04/14 16:56.

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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



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

Received: 12/04/2014 Sampling Date: 12/03/2014

Reported: 12/10/2014 Sampling Type: Soil

Project Name: EMPIRE ABO C-49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: POINT 1 BOTTOM @ 6" (H403711-01)

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	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	< 0.050	0.050	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEX	<0.300	0.300	12/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/05/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/06/2014	ND	195	97.6	200	0.501	
DRO >C10-C28	<10.0	10.0	12/06/2014	ND	202	101	200	1.55	
Surrogate: 1-Chlorooctane	126 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	145 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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

Received: 12/04/2014 Sampling Date: 12/04/2014

Reported: 12/10/2014 Sampling Type: Soil

Project Name: EMPIRE ABO C-49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: POINT 2 BOTTOM @ 6" (H403711-02)

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	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	<0.050	0.050	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEX	<0.300	0.300	12/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9 9	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/05/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/06/2014	ND	195	97.6	200	0.501	
DRO >C10-C28	<10.0	10.0	12/06/2014	ND	202	101	200	1.55	
Surrogate: 1-Chlorooctane	126 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	141 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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

Received: 12/04/2014 Sampling Date: 12/04/2014

Reported: 12/10/2014 Sampling Type: Soil

Project Name: **EMPIRE ABO C-49 SWD** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: **NOT GIVEN**

Sample ID: POINT 3 BOTTOM @ 6" (H403711-03)

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	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	<0.050	0.050	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEX	<0.300	0.300	12/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/05/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/06/2014	ND	195	97.6	200	0.501	
DRO >C10-C28	<10.0	10.0	12/06/2014	ND	202	101	200	1.55	
Surrogate: 1-Chlorooctane	121 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	140 %	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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

Received: 12/04/2014 Sampling Date: 12/03/2014

Reported: 12/10/2014 Sampling Type: Soil

Project Name: EMPIRE ABO C-49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: POINT 4 BOTTOM @ 6" (H403711-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2014	ND	1.81	90.5	2.00	7.27	
Toluene*	<0.050	0.050	12/09/2014	ND	1.79	89.5	2.00	7.66	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.71	85.7	2.00	7.88	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	5.27	87.8	6.00	7.94	
Total BTEX	<0.300	0.300	12/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/05/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/06/2014	ND	195	97.6	200	0.501	
DRO >C10-C28	<10.0	10.0	12/06/2014	ND	202	101	200	1.55	
Surrogate: 1-Chlorooctane	122 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	140 9	% 52.1-17	6						

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.



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

Received: 12/04/2014 Sampling Date: 12/03/2014

Reported: 12/10/2014 Sampling Type: Soil

Project Name: EMPIRE ABO C-49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: POINT 5 BOTTOM @ 6" (H403711-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2014	ND	1.81	90.5	2.00	7.27	
Toluene*	<0.050	0.050	12/09/2014	ND	1.79	89.5	2.00	7.66	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.71	85.7	2.00	7.88	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	5.27	87.8	6.00	7.94	
Total BTEX	<0.300	0.300	12/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/05/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/06/2014	ND	195	97.6	200	0.501	
DRO >C10-C28	<10.0	10.0	12/06/2014	ND	202	101	200	1.55	
Surrogate: 1-Chlorooctane	121 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	138 9	6 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	(505) 393-2326 FAX (505) 393-24	, ,	102	0,0.0			1	BII	LL TO	MATT				A	NAL	YSIS	REQUES	T		
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FOR LAB USE ONLY		0.			MATRI	<u> </u>	PR	ESERV	JAMII LI	140	U	片		-	et				1 1	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL	DATE	TIME					Complete					
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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 analyses. All claims including those for negligence and any other cause whatsoever shall be desmed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

service. In no event strain Calumat De labor to the performal affiliates or successors arising out of or related to the performal Relinquished By:	Date: Receiv	red By:	aportary or the decree states	Phone Result: Fax Result:	☐ Yes	☑ No ☑ No	Add'l Phone #: Add'l Fax #:
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



December 15, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMPIRE ABO C-49 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/10/14 16:15.

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.

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



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

Received: 12/10/2014 Sampling Date: 12/10/2014

Reported: 12/15/2014 Sampling Type: Soil

Project Name: EMPIRE ABO C-49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: SPOIL PILE LOCATION (H403772-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/11/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/11/2014	ND	197	98.4	200	1.87	
DRO >C10-C28	<10.0	10.0	12/11/2014	ND	209	105	200	1.93	
Surrogate: 1-Chlorooctane	93.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.7	% 52.1-17	6						

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.



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

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.

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

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December 17, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C 49 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/12/14 8:00.

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.

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



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

Received: 12/12/2014
Reported: 12/17/2014

Project Name: EAU C 49 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/09/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH BOTTOM 1.5' (H403792-01)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	< 0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	12/12/2014	ND	400	100	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	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	91.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.8	% 52.1-17	6						

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

 Received:
 12/12/2014
 Sampling Date:
 12/09/2014

 Reported:
 12/17/2014
 Sampling Type:
 Soil

Project Name: EAU C 49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SOUTH BOTTOM 1.5' (H403792-02)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	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	64.0	16.0	12/12/2014	ND	400	100	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	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	89.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.7	% 52.1-17	6						

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.



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

Received: 12/12/2014 Sampling Date: 12/09/2014

Reported: 12/17/2014 Sampling Type: Soil

Project Name: EAU C 49 SWD Sampling Condition: Cool & Intact NONE GIVEN Sample Received By: Project Number: Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: NORTH WALL (H403792-03)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 61-154	1						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	89.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84 5	% 52 1-17	'6						

Surrogate: 1-Chlorooctadecane 84.5 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

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12/09/2014



Analytical Results For:

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

Received: 12/12/2014 Sampling Date:

Reported: 12/17/2014 Sampling Type: Soil

Project Name: EAU C 49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: EAST WALL (H403792-04)

NOT GIVEN

Project Location:

DRO >C10-C28

Surrogate: 1-Chlorooctadecane

BTEX 8021B mg/kg Analyzed By: MS Analyzed By: MS Analyzed By: MS Analyzed By: MS Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 104 % 61-154

Chloride, SM4500Cl-B mg		/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/12/2014	ND	400	100	400	3.92	
TPH 8015M	mg	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	12/15/2014	ND	185	92.6	200	2.97	

ND

197

98.4

200

1.88

12/15/2014

Surrogate: 1-Chlorooctane 84.4 % 47.2-157

<10.0

80.5 %

10.0

52.1-176

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Celeg D. Freene



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

Received: 12/12/2014 Sampling Date: 12/09/2014

Reported: 12/17/2014 Sampling Type: Soil

Project Name: EAU C 49 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SOUTH WALL (H403792-05)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/12/2014	ND	400	100	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	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	86.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.0	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 83.0 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

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

Received: 12/12/2014 Sampling Date: 12/09/2014

Reported: 12/17/2014 Sampling Type: Soil

Project Name:EAU C 49 SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: WEST WALL (H403792-06)

BTEX 8021B Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier < 0.050 0.050 12/15/2014 ND 1.90 95.1 2.00 3.04 Benzene*

Toluene* < 0.050 0.050 12/15/2014 ND 1.88 93.8 2.00 0.356 Ethylbenzene* < 0.050 0.050 12/15/2014 ND 1.79 89.5 2.00 0.736 Total Xylenes* < 0.150 0.150 12/15/2014 ND 5.39 89.9 6.00 0.413 Total BTEX < 0.300 0.300 12/15/2014 ND

Surrogate: 4-Bromofluorobenzene (PID 100 % 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	<16.0	16.0	12/12/2014	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/15/2014	ND	185	92.6	200	2.97	

ND

197

98.4

200

1.88

12/15/2014

Surrogate: 1-Chlorooctane 84.0 % 47.2-157

<10.0

81.7 %

10.0

52.1-176

DRO >C10-C28

Surrogate: 1-Chlorooctadecane

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

Received: 12/12/2014 Sampling Date: 12/09/2014

Reported: 12/17/2014 Sampling Type: Soil

Project Name: EAU C 49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: 6" SCRAPE (H403792-07)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	< 0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	< 0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	< 0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8 9	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	240	16.0	12/12/2014	ND	400	100	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	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	89.0 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.8 9	52.1-17	6						

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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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RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	505) 393-2326 FAX (505) 393-24	10 (020) 010 100 1	BILL TO	BILL TO ANALYSIS REQUEST							
roject Manager:	Apache Bruce Ballyr		P.O. #:	4							
	Bruce Baller		Company:					S			
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Lab I.D. 4403792 1 A 3 4 5 5 6 7	Sample I.D. North Bottom 1.5 North Bottom 1.5 North Wall Last Wall South Wall West Wall 6 Scraft	C C C C C C C C C C C C C C C C C C C	D-9-14 31 = 31	30 0		00000		Complete			
Onbelon amiels IIA seculors	Damages. Cardinal's liability and client's exclusive remedy for those for negligence and any other cause whatsoever shall be a second or consequental damages, including the control of th	The second second second second	inner lose of use or loss of profits incurred by client, it	its subsidiaries,	plicable			_			
ervice. In no event shall Care flikates or successors arising	those for negligence and any other cause whatsoever shall to rdinal be liable for incidental or consequental damages, includ gout of or related to the performance of services hereunder b	y Cardinal, regardless of whether such	claim is based upon any of the above stated reasons	or otherwise one Result	: 01		□ No		i Phone #:		
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Sampler - LIPS		PYes P	Yes Comment	nvironme	ental te	ch:			ared	ecop@rice-ed	cs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Bruce Baker



December 17, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C 49 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/12/14 8:00.

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.

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



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

Received: 12/12/2014

Reported: 12/17/2014

Project Name: FALL C 49 SWD

Project Name: EAU C 49 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/09/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: HAND AUGER PT 2 @ 1' (H403793-01)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	12/12/2014	ND	400	100	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	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	88.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.6	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

(505) 393-2326 FAX (505) 393-2476 (325) 673-7	JU1 FAX (325)673-7020	ANALYSIS REQUEST	\Box Pa
Company Name: Apach	P.O. #:		
Project Manager: Bruce Buker			
Address:	Company:	—	
City: State: Zip:	Attn:	<u> </u>	
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:	ides S Itions/ ITPH	- 1
Project Name: EAU C49 SWD	State: Zip:		
Project Location: Barnsacal Feberal Tank But	Phone #:	Chlorides TPH 8015 BTEX Texas TPP ete Cations TDS	
Sampler Name: ASU RILLYCOP	TRIX PRESERV SAMPLIN		- 1
FOR LAB USE ONLY	TRIX PRESERV. SAMPLIF		- 1
Hand yarder By Containers I formalize of the state of th	OTHER: ACID/BASE: ACID	Complete Cations/Anions TDS TDS	
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Cool Intact
Ves Ves
No No Sampler - UPS - Bus - Other: † Cardinal cannot accept verbal changes. Please fax written changes to 505-393-4476

Time:

Delivered By: (Circle One)

Sample Condition

CHECKED BY:

Bruce Baker

cursanic@rice-ecs.com

environmental tech:

lweinheimer@rice-ecs.com; kjones@riceswd.com;

jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com;

aredecop@rice-ecs.com



December 17, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C 49 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/12/14 8:00.

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)

Celey D. Keine

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. 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:
 12/12/2014

 Reported:
 12/17/2014

 Project Name:
 EAU C 49 SWD

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/09/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: HAND AUGER PT 3 @ 1' (H403794-01)

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	12/15/2014	ND	1.90	95.1	2.00	3.04	
Toluene*	<0.050	0.050	12/15/2014	ND	1.88	93.8	2.00	0.356	
Ethylbenzene*	<0.050	0.050	12/15/2014	ND	1.79	89.5	2.00	0.736	
Total Xylenes*	<0.150	0.150	12/15/2014	ND	5.39	89.9	6.00	0.413	
Total BTEX	<0.300	0.300	12/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/12/2014	ND	400	100	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	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	87.0 5	% 47.2-15	7						
Surrogata: 1 Chlorocetadacana	83 10	9/ 52 1 17	6						

Surrogate: 1-Chlorooctadecane 83.1 % 52.1-176

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.



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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ARDINAL LABORATORIES

Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Project Manager: Bruce Galler							1	P.O. #:											1 1		1 1				
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BILL TO



December 17, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C 49 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/12/14 8:00.

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)

Celey D. Keine

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. 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: 12/12/2014 Sampling Date: 12/09/2014
Reported: 12/17/2014 Sampling Type: Soil

Project Name: EAU C 49 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: HAND AUGER PT 1 @ 1' (H403795-01)

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	12/16/2014	ND	1.81	90.3	2.00	10.1	
Toluene*	<0.050	0.050	12/16/2014	ND	1.76	87.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	12/16/2014	ND	1.67	83.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	12/16/2014	ND	5.02	83.6	6.00	12.5	
Total BTEX	<0.300	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/12/2014	ND	400	100	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	12/15/2014	ND	185	92.6	200	2.97	
DRO >C10-C28	<10.0	10.0	12/15/2014	ND	197	98.4	200	1.88	
Surrogate: 1-Chlorooctane	89.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.2	% 52.1-17	6						

Surrogate: 1-Chlorooctadecane 87.2 % 52.1-176

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RPD Relative Percent Difference

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*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	1000 300-2020 17	(000)								B	IL	LTO	Problem				- 1	NAL	YSIS R	EQUEST		_	\dashv
	ompany Name: Apach Coroject Manager: Bruce Baker). #:														L
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Address:		State:	Zip:					Attn:										Ö					
City: Phone #:	Fax #:							Address:										A					- 1
		Project Owner						Cit	y:					0	TPH 8015 M		I	18/		1 1			- 1
Project #:	EM CU9	SWD A						State: Zip:							15	×	유	Cations/Anions	(0)		1 1		- 1
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Sampler Name:	ASY KIN	800/		П		MATR	IX .		PRE	SER	V.	SAMPLI	NG	O	ā		e	l å					- 1
Lab I.D. H403795	Sample	1.D. P+101	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	TIOS	SI LOGE	OTHER	ACID/BASE:	V ICE / COOL	OTHER	DATE	TIME 3142	L	V	V		Complete					
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analyses. All claims includi	and Damages. Cardinal's liability and ing those for negligence and any ob- cardinal be liable for incidental or co- sing out of ar related to the performal ty:	ne cause wilausever since of sequental damages, including noe of services hereunder by Date:	ng witho	sut limita al, regal	-	siness inte whether s	muntin	ne lines	of use	or loss	s of pr	rofits incurred by	client, its subsi	Result:	able O Y	es I	Z No	A 14.35	I Phone #:	nord a	esper	Jac	06.
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393 2476



Bruce Baker

Appendix C Photo Documentation

Apache Empire Abo C-49 SWD Unit Letter L, Section 29, T17S, R29E



Initial release area, facing east

11/17/14



Initial release area, facing south

11/17/14



Initial release area, facing southeast

11/17/14



Initial release area, facing southeast

11/17/14



Initial release area, facing south

11/17/14



Initial release area, facing north





Initial release area, facing north

11/17/14



Scraping 6 inches, facing north

12/3/14



Site backfill, facing south

1/26/15



Site backfilled, facing south

1/26/15



Site backfilled, facing north

1/26/15



Site backfilled, facing north

1/26/15

Appendix D Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Palessa Notification and Corrective Action

Release Notification and Corrective Action															
						OPERA:	ГOR		Initia	al Report	\boxtimes	Final Report			
Name of Co	mpany A	pache Corpo	oration			Contact Bruce Baker									
		arland Blvd.,		VM 88240		Telephone No. (432) 631-6982									
Facility Nar	ne Empir	re Abo C-49	SWD		I	Facility Type Facility									
Surface Ow	ner BLM	į		Mineral O	wner				API No	. 30-015-	03180				
· · · · · · · · · · · · · · · · · · ·			•	LOCA	TION	I OF DEI	TRACTE								
Unit Letter	Section	Township	Range	Feet from the		OF RE	Feet from the	Fact/Wes	at Line	County					
Onn Exter	Section	Township	Kuige	1 cct from the	INOILIB	South Line	1 cet nom the	om the East/West Line County							
L	L 29 17S 29E Eddy														
			La	titude		_ Longitud	le								
				NAT	TIRE	OF REL	FASE								
Type of Rele	ase Produ	iced Water		NAI	CICE		Release 750 bar	rels V	olume F	Recovered	650 bar	rels of			
						of produce	d water	pı	roduced	water					
Source of Re						11/17/2014	lour of Occurrence at 1:00 a.m.		ate and t 6:00 a.1		covery	11/17/2014			
Was Immedia	ate Notice (Yes [No □ Not Re	quired	If YES, To Mike Brate	Whom? cher (NMOCD) ar	nd Jeffery I	Robertso	n (BLM)					
By Whom?	Bruce Bake	er				Date and H	Iour 11/17/2014		,						
Was a Water		ched?		If YES, Volume Impacting the Watercourse.											
			Yes ⊠	No											
	If a Watercourse was Impacted, Describe Fully.*														
	Describe Cause of Problem and Remedial Action Taken.* Ceramic plunger on east triplex pump failed resulting in the loss of fluid. All pumps were shut														
Describe Are	down, and vacuum trucks were dispatched to pick up standing fluid. Describe Area Affected and Cleanup Action Taken.* A total of 28,604 square feet of lease pad, lease road and pasture land were affected. RECS														
personnel we	personnel were on site beginning on November 17 th , 2014, to conduct remediation efforts. Based on an initial assessment of the release, the release area on														
							en from the bottor								
laboratory for	r analysis.	In the pasture	to the wes	t of the pad, the re	elease w	as scraped in	two parts: a 1.5 ft a commercial lab	t excavatio	n and a	6 inch scrap	e. At t	he base of			
inch scrape v	avation, two zas taken an	nd sent to a con	mmercial	aboratory for ana	lvsis. O	n and sent it n December	9 th , 2014, three au	ger points	were ins	s. A bouon stalled in the	ı sampı e releası	e area to the			
east of the lea	se pad. Th	e auger points	s were inst	alled to a depth of	f 1 ft bgs	, and the 1 fi	bgs samples from	each auge	er point	were sent to	a comi	mercial			
							mitted to NMOC								
nermission to	scrape the	release area o	n the east	se pad and the scr side of the pad to	ape ana 1 ft bos	excavation to and then hac	the west of the le	ease pad. I	in addition	on, Apache : Lapproved t	request he Path	ed Forward on			
January 7 th , 2	015. The e	ast side of the	pad was	scraped down by h	and sho	vel to 1 ft bg	s. All excavated s	soil was tal	ken to a	NMOCD ar	proved	facility for			
					se pad a	nd lease road	l. Clean top soil w	vas importe	ed to site	to backfill	the pas	ture. The			
		to the surroun			lata to th	a hest of my	knowledge and u	ndarstand	that nura	went to NIM	OCD =	also and			
							nd perform correct								
public health	or the envir	ronment. The	acceptance	e of a C-141 repo	rt by the	NMOCD m	arked as "Final Re	eport" does	s not reli	eve the oper	rator of	liability			
							on that pose a three								
		ws and/or regu		nance of a C-1411	героп ас	es not renev	e the operator of r	esponsibii	ity for co	ompiiance v	vitn any	other			
							OIL CONS	SERVA	TION	DIVISIO)N				
Ciamatana.	Ran	u Bal	Lan				# 	-							
Signature:	1800	a row	<u> </u>		-	4									
Printed Name	: Bruce Ba	aker				Approved by	Environmental Sp	pecialist:							
Title: Enviro	nmental Te	chnician				Approval Dat	te:	Exp	Expiration Date:						
E-mail Addre	ess: larry.ba	aker@apached	corp.com		(Conditions of	f Approval:		Attached						
Date:	3/9/18	S-	Dhana	(432) 621 6002	,				Anacion						
ے Date: * Attach Addi:	tional Shee	ets If Necess		(432) 631-6982						1					