

APACHE CORPORATION

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

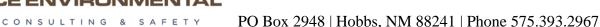
Lockhart A-17 Battery

Termination Request

API 30-025-38204

Release Date: February 8th, 2014

Unit Letter I, Section 17, Township 21S, Range 37E





May 23rd, 2014

Geoffrey Leking

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 1 1625 N. French Dr. Hobbs, NM 88240-9273

> RE: Termination Request Apache Corporation – Lockhart A-17 Battery UL/I sec. 17 T21S R37E API No. 30-025-38204

Mr. Leking:

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 2.5 miles northwest of Eunice, New Mexico at UL/I sec. 17 T21S R37E. NM OSE and USGS records indicate that groundwater will likely be encountered at a depth of approximately 76 +/- feet.

On February 8th, 2014, Apache discovered a release of oil and produced water from a water transfer line. The transfer line froze and ruptured in two separate places. One area was inside the bermed, lined facility containment and the other occurred outside the containment wall. A total of 20 barrels of oil and 480 barrels of produced water were released over 10,603 square feet of facility and pasture land. A vacuum truck was called to the site and recovered a total of 450 barrels of fluid. NMOCD was notified of the release on February 10th, 2014 and an initial C-141 was sent to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on February 10th, 2014 to assess the release. Four points within the pasture area were sampled at the surface and with depth (Figure 1). The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B). Vertical 1 was installed to a depth of 18 ft bgs. Laboratory chloride readings returned results of 816 mg/kg at 4 ft bgs and 352 mg/kg at 17 ft and 18 ft bgs. Vertical 2 was installed to a depth of 12 ft bgs. Laboratory chloride readings returned results of 2,120 mg/kg at 5 ft bgs, 224 mg/kg at 11 ft bgs and 128 mg/kg at 12 ft bgs. Vertical 3 was installed to a depth of 14 ft bgs. Laboratory chloride readings returned results of 1,730 mg/kg at 3 ft bgs, 160 mg/kg at 13 ft bgs and 208 mg/kg at 14 ft bgs. Vertical 4 was installed to a depth of 16 ft bgs. Laboratory chloride readings returned results of 1,040 mg/kg at

2 ft bgs, 176 mg/kg at 15 ft bgs and 48 mg/kg at 16 ft bgs. Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) readings returned results of non-detect in all verticals.

Based on the laboratory analysis of the site, a Corrective Action Plan (CAP) was submitted to NMOCD and approved on April 3rd, 2014. As part of the CAP, the pasture area would be excavated to a depth of 4 ft bgs. All excavated soils would be evaluated to use as backfill and any soils that did not meet requirements would be disposed of at a NMOCD approved facility. The remaining excavated soils would be blended on site with clean, imported soil. A sample of the blended backfill would be taken and field tested to verify that chloride levels were at or below 500 mg/kg and organic vapors were below 100 ppm. Wall samples would be taken to a commercial laboratory to determine that the remaining constituents were below regulatory standards. At the base of the 4 ft excavation, a 20-mil reinforced poly liner would be installed and properly seated (Figure 2). The site would be backfilled with the blended soil to surface level and contoured to the surrounding location.

Since the release in the facility occurred over a lined containment, the contaminated gravel overlaying the liner would be removed and taken to a NMOCD approved facility for disposal. Clean gravel would be imported to the site to replace the contaminated gravel.

CAP activities began on April 9th, 2014. The release area in the pasture was excavated to a depth of 4 ft bgs (Figure 3). Once the excavation was completed, wall samples from the excavation were taken and field tested for chlorides and organic vapors. The wall samples were then taken to a commercial laboratory for analysis. All wall samples returned laboratory chloride values below regulatory standards, except for the south wall #1, which returned a chloride value of 304 mg/kg. GRO and DRO for all wall samples returned values of non-detect. The excavated soil was evaluated on site and any soils that did not meet regulatory standards were taken to a NMOCD approved facility for disposal. A total of 224 cubic yards of contaminated soil from the pasture was taken to a NMOCD approved facility for disposal. The remainder of the excavated soil was set into four piles and blended on site with clean, imported soil. An eight point composite of each for the four piles was taken and field tested for chlorides and organic vapors. The composites were then taken to a commercial laboratory for analysis. All four blended piles returned laboratory chloride readings below 500 mg/kg and GRO and DRO readings of non-detect, except for stockpile 3, which returned a DRO value of 21.7 mg/kg (Appendix C).

The gravel over the lined battery facility was removed and replaced by clean gravel.

At the base of the 4 ft excavation, a 20-mil reinforced poly liner was installed and properly seated. The excavation was then backfilled with the blended soil to the surface and contoured to the surrounding location. On May 1st, 2014, the site was seeded with Blue Grama seed.

Photo documentation of all activities can be found in Appendix D.

Given that Apache has completed the Corrective Actions as approved by NMOCD, Apache respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

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 1 – Vertical Sampling Data

Figure 2 – Proposed Corrective Actions

Figure 3 – Excavation Data

Appendix A – Initial C-141

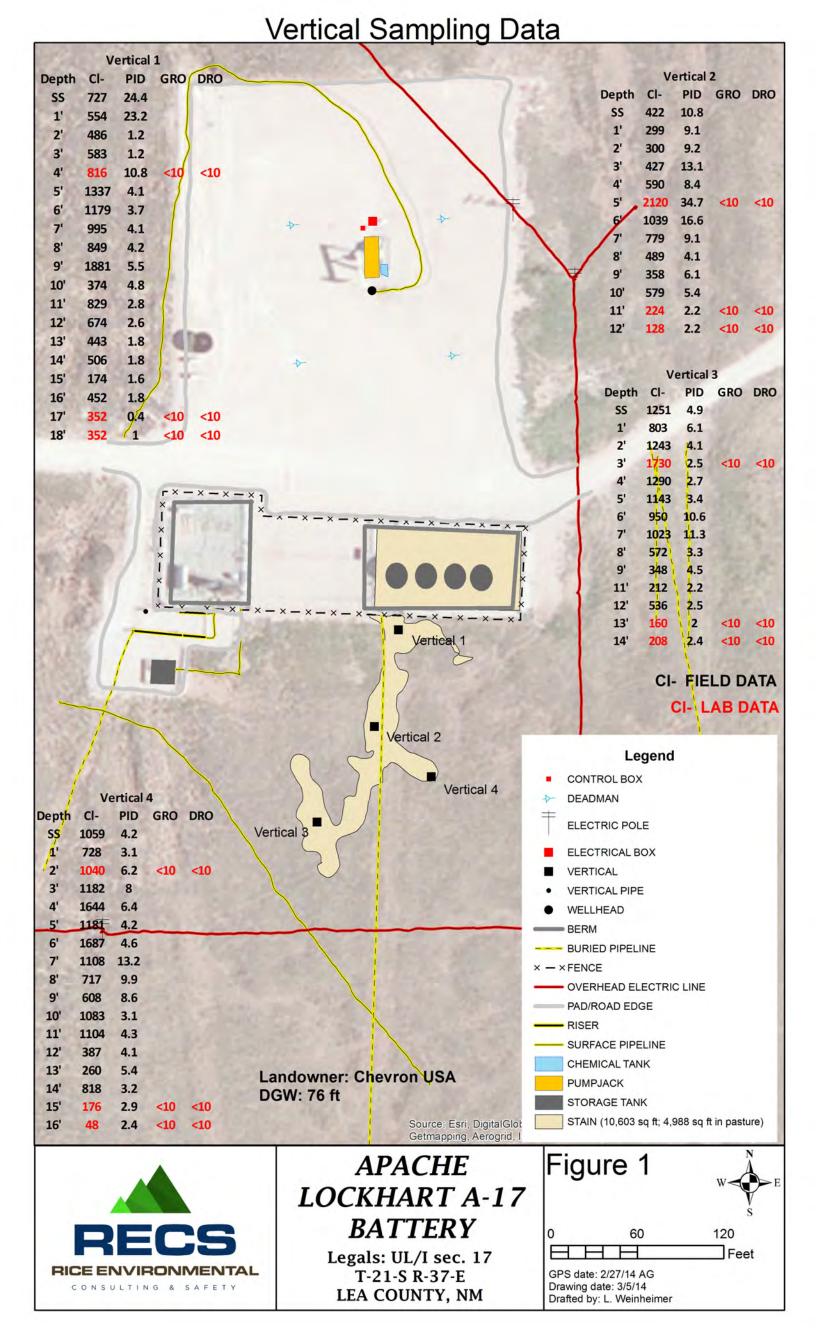
Appendix B – Vertical Sampling Labs

Appendix C – CAP Sampling Labs

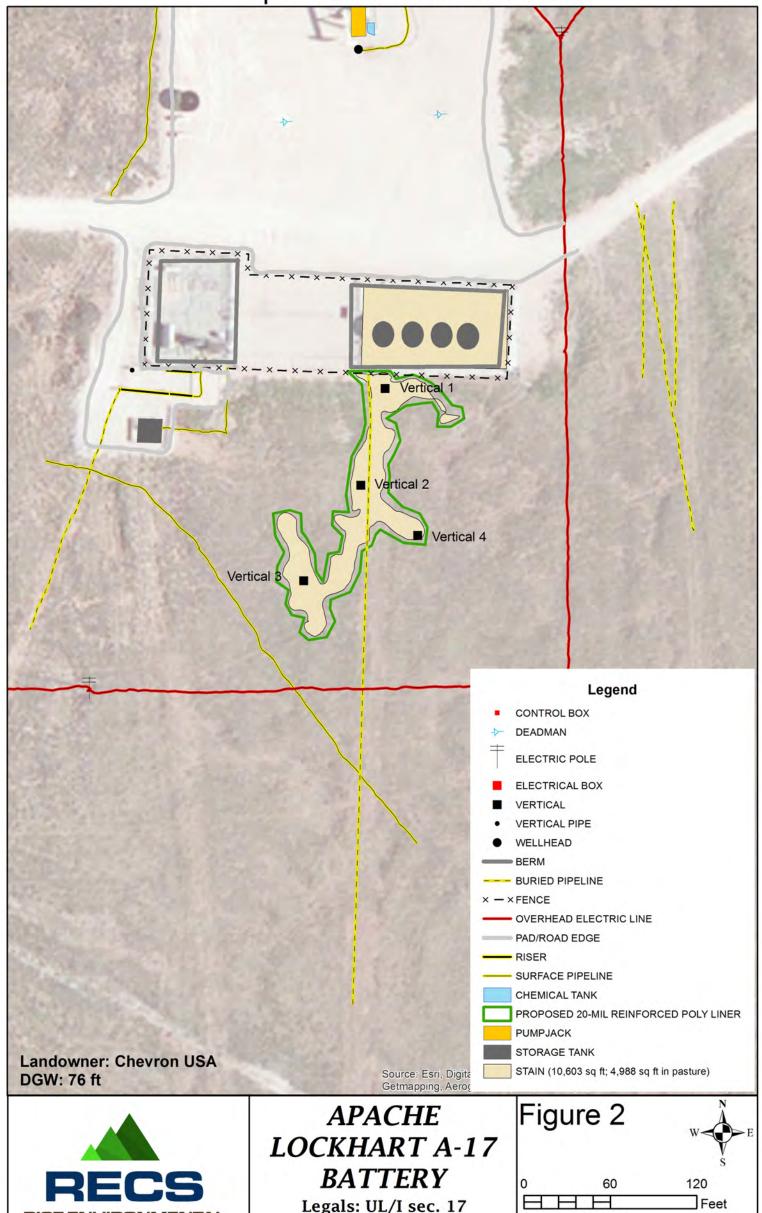
Appendix D – Photo Documentation

Appendix E – Final C-141

Figures

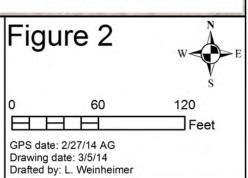


Proposed Corrective Actions

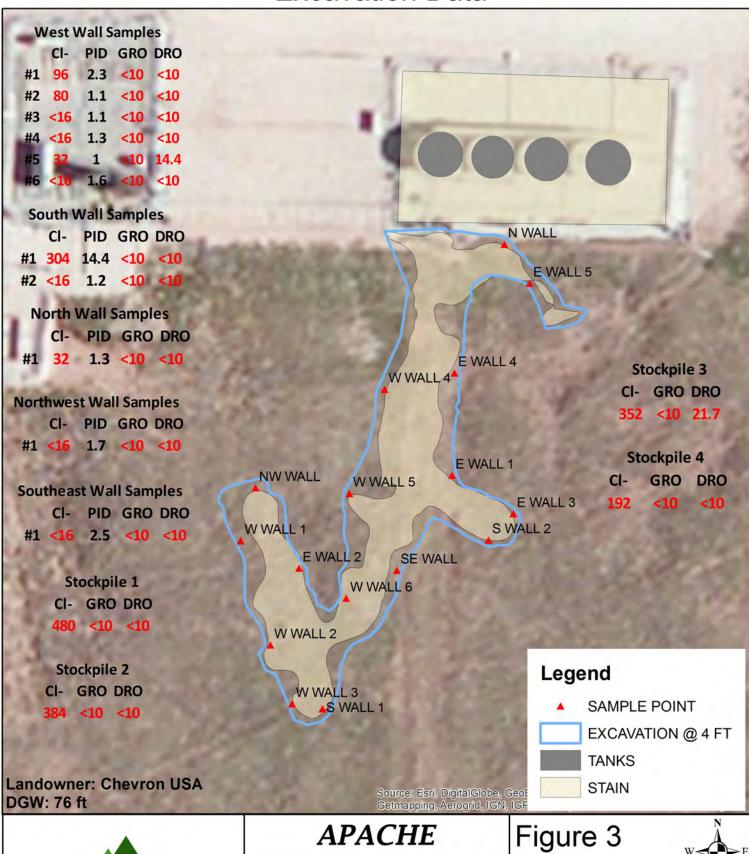




Legals: UL/I sec. 17 T-21-S R-37-E LEA COUNTY, NM



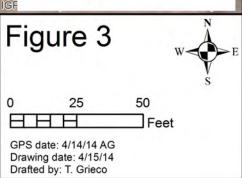
Excavation Data





APACHE LOCKHART A-17 BATTERY

Legals: UL/I sec. 17 T-21-S R-37-E LEA COUNTY, NM



Appendix A Initial 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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 ubmit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Kei	ease Notific	atio	n and Co	orrective A	ction	1				
						OPERA	ГOR		Initial	al Report		Final R	Report
Name of Co						Contact Bro	ice Baker						
		ie Eunice, N					No. (432) 631-6						
Facility Nat	ne Lockha	art A -17 Ba	ttery (ne	arest WBDU # 6	59)	Facility Typ	e Tank Battery						
Surface Ow	ner Chevr	on		Mineral O	wner				API No	. 30-025-3	38204		
				LOCA	TIO	N OF REI	LEASE						
Unit Letter I	Section 17	Township 21S	Range 37E	Feet from the 2630'		/South Line FSL	Feet from the 120'		West Line FEL		Count Lea		
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Type of Rele			er				Release 20 oil ar	nd	Volume R	Recovered 4	50 tota	l fluid	
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Was Immedia	ate Notice G		Yes 🗀	No □ Not Re	quired	If YES, To Geoffrey L							
By Whom?	Bruce Bake	Γ					our 2/10/14 at 9:						
Was a Watero	course Keae		Yes 🗵	No		H YES, Vo	lume Impacting t	ne Wate	ercourse.				
If a Watercou	rse was Imp	acted, Descri	be Fully.*										
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up and the are	Tected two a a was mapp	areas one insided and will be	de the linc e delineate	d contained facilited and a corrective	action	plan will be s	submitted to NMC	OCD.					ked
regulations all public health of should their of	operators a or the environer perations ha ment. In ad	re required to onment. The a we failed to a dition, NMO	report and acceptance dequately CD accept	is true and comple d/or file certain re e of a C-141 repor investigate and re ance of a C-141 re	lease no t by the mediate	otifications and NMOCD ma contamination	d perform correct rked as "Final Re on that pose a thre	ive acti port" de at to gre	ons for rele oes not relic ound water,	ases which to eve the oper surface wat	may end ator of l ter, hun	danger liability nan healt	th
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Signature: Printed Name:					\dashv	Approved by I	Environmental Sp	ecialist	:				
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Title: Environ E-mail Addres		•	orp.com			Approval Date Conditions of		11	Expiration E				
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Date: 2/20/1	· **		1.110	av. (432) U3 [*DYC) /					I			- 1

$\begin{array}{c} Appendix \ B \\ \text{Vertical Sampling Labs} \end{array}$



March 03, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 02/25/14 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. Keene

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

02/25/2014

Sampling Date:



Analytical Results For:

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

Received: 02/25/2014 Reported: 03/03/2014

89.6 %

63.6-154

Reported:03/03/2014Sampling Type:SoilProject Name:LOCKHART A-17Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: NOT GIVEN

Sample ID: VERT 2 @ 5 FT (H400572-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	02/28/2014	ND	416	104	400	7.41	
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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	90.8 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.0 9	63.6-15	4						

Sample ID: VERT 2 @ 11 FT (H400572-02)

mg/	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
224	16.0	02/28/2014	ND	416	104	400	7.41	
mg/	/kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/01/2014	ND	217	108	200	3.10	
<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
			ND	212	106	200	0.309	
	Result 224 mg, Result <10.0 <10.0	224 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed 224 16.0 02/28/2014 mg/kg Analyze Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 224 16.0 02/28/2014 ND mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 224 16.0 02/28/2014 ND 416 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 224 16.0 02/28/2014 ND 416 104 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 224 16.0 02/28/2014 ND 416 104 400 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 224 16.0 02/28/2014 ND 416 104 400 7.41 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



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

Received: 02/25/2014 Sampling Date: 02/25/2014

Reported: 03/03/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: VERT 2 @ 12 FT (H400572-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/28/2014	ND	416	104	400	7.41	
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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	77.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.7	% 63.6-15	4						

Sample ID: VERT 3 @ 3 FT (H400572-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	02/28/2014	ND	416	104	400	7.41	
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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	75.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.9	% 63.6-15	4						

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

Received: 02/25/2014 Sampling Date: 02/25/2014

Reported: 03/03/2014 Sampling Type: Soil

Project Name:LOCKHART A-17Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: VERT 3 @ 13 FT (H400572-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/28/2014	ND	416	104	400	7.41	
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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	88.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.1	% 63.6-15	4						

Sample ID: VERT 3 @ 14 FT (H400572-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/28/2014	ND	416	104	400	7.41	
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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	87.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97 1	% 63 6-15	4						

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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

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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	" Apache						B					-		ANA	LYSIS	S RE	QUE	ST			
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Lab I.D. H400572	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	WASTEWATER SOIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME					Complete Cations/Anions							
1	Vert 2@5ft	B	Ϊľ	V	7			22614		$\sqrt{}$	V	-			-		-				
2	Verta@11ff	G		V		1			12:20	V	1						-				
3	Vert2@12A4	0	1	V		1		_	12:25	V	1							-			
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analyses. All claims including	d Damages. Cardinal's liability and client's exclusive remedy for ig those for negligence and any other cause whatsoever shall be	iny claim deemed v	arising v vaived u	whether based in con unless made in writing	tract or t	ort, shal eived b	l be limited Cardinal	to the amount pai within 30 days afte	id by the client for er completion of th	the e applical	hle										<u>ئى</u>

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,

Relinquished By:	Date: Time: Time:	Phone Result: ☐ Yes ☑ No Add'l Phone #: Fax Result: ☐ Yes ☑ No Add'l Fax #: REMARKS:
Relinquished By:	Date: Received By:	email results
	Time:	Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact (Initials) Ves Ves	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; sedwards@rice-ecs.com; lflores@rice-ecs.com; agroves@rice-ecs.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2475





March 04, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 02/27/14 16:40.

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. Keene

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

Received: 02/27/2014 Reported: 03/04/2014

Project Name: LOCKHART A-17
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/25/2014

Sampling Type: Soil

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

Sample ID: VERT 1 @ 4 FT (H400603-01)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Chloride 816 03/04/2014 ND 432 400 16.0 108 3.77 TPH 8015M Analyzed By: ms mg/kg Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Result GRO C6-C10 <10.0 10.0 03/03/2014 ND 206 103 200 7.94 DRO >C10-C28 <10.0 10.0 03/03/2014 ND 197 98.7 200 8.31 Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctane 100 % 65.2-140
Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Sample ID: VERT 1 @ 17 FT (H400603-02)

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	03/04/2014	ND	432	108	400	3.77	
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	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	

Surrogate: 1-Chlorooctane 99.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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

Received: 02/27/2014 Sampling Date: 02/27/2014

Reported: 03/04/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: VERT 1 @ 18 FT (H400603-03)

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	03/04/2014	ND	432	108	400	3.77	
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	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	
Surrogate: 1-Chlorooctane	99.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

Sample ID: VERT 4 @ 2 FT (H400603-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	03/04/2014	ND	432	108	400	3.77	
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	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	
Surrogate: 1-Chlorooctane	96.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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

Received: 02/27/2014 Sampling Date: 02/27/2014

Reported: 03/04/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: VERT 4 @ 15 FT (H400603-05)

NOT GIVEN

Project Location:

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/04/2014	ND	432	108	400	3.77	
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	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	
Surrogate: 1-Chlorooctane	99.2	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: VERT 4 @ 16 FT (H400603-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2014	ND	432	108	400	3.77	
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	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	
Surrogate: 1-Chlorooctane	94.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.6	% 63.6-15	4						

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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

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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							<u> </u>	u io						ANAL	YSIS	RE	QUE	ST			
Project Manager	Bruce baker			f		P.O. #															
Address:						Comp	any:							S							
City: Hobbs	State: NM	Zip:	882	240		Attn:	•	* .						on							
Phone #:	Fax #:					Addre	ss:							١						l	
Project #:	Project Owner	<u>'</u>		·		City:					Σ		ェ	//S	·						
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Project Location						Phon	e #:	•		Ë	8015	BTEX	S J	ati	TDS						
Sampler Name:	Amber Groves					Fax#		٧		hlc	8	BT	x		Ε]	
FOR LAB USE ONLY				MATRI	X	PR	ESERV.	SAMPLI	NG	$\overline{\mathbf{O}}$	ТРН		(e)	te					-		
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H400603		>(G)RAB	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL OTHER:	DATE	TIME			S.)						•	
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PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's exclusive remedy for a	ny claim	arising	g whether based in o	contract	or tort, sh	all be limited	to the amount pa	l d by the client for	the					L		<u> </u>				

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Relinquished By://	Date: 2744	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
1/mber Europe	Time: 4:40	Mali denson	Fax Result: ☐ Yes ☑ No Add'l Fax #: REMARKS:
Relinguished By:		Received By:	email results
		O	Knorman@rice-ecs.com
	Time:		Kjones@riceswd.com; jkamplain@rice-ecs.com
Delivered By: (Circle One)		Sample Condition CHECKED BY:	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com;
Sampler - UPS - Bus - Other:		Cool Intact (Inftiglis) Difference of the control	sedwards@rice-ecs.com; lflores@rice-ecs.com; agroves@rice-ecs.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-247\$



Appendix C CAP Sampling Labs



April 11, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 04/10/14 16:05.

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.

Celey D. Keene

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

04/10/2014



Analytical Results For:

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

Received: 04/10/2014 Sampling Date:
Reported: 04/11/2014 Sampling Type:

Reported: 04/11/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: ** (See Notes)

Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: SOUTH WALL 1 (H401098-01)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/11/2014	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	04/11/2014	ND	200	99.8	200	0.00301	
DRO >C10-C28	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	
Surrogate: 1-Chlorooctane	119	% 65.2-14	0						

Surrogate: 1-Chlorooctane 119 % 65.2-140
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Sample ID: SOUTH WALL 2 (H401098-02)

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	04/11/2014	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	04/11/2014	ND	200	99.8	200	0.00301	
DRO >C10-C28	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	
Surrogate: 1-Chlorooctane	112	% 65.2-14	0						

Surrogate: 1-Chlorooctane 112 % 65.2-140
Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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

Received: 04/10/2014 Sampling Date: 04/10/2014

Reported: 04/11/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: WEST WALL 1 (H401098-03)

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	04/11/2014	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	04/11/2014	ND	200	99.8	200	0.00301	
DRO >C10-C28	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	
Surrogate: 1-Chlorooctane	116	% 65.2-14	70						

Surrogate: 1-Chlorooctane 116 % 65.2-140
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Sample ID: WEST WALL 2 (H401098-04)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2014	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	04/11/2014	ND	200	99.8	200	0.00301	
DRO >C10-C28	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	
Surrogate: 1-Chlorooctane	117 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 9	% 63.6-15	4						

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

Received: 04/10/2014 Sampling Date: 04/10/2014

Reported: 04/11/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: WEST WALL 3 (H401098-05)

Chloride, SM4500CI-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	04/11/2014	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	04/11/2014	ND	200	99.8	200	0.00301	
DRO >C10-C28	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	
Surrogate: 1-Chlorooctane	124	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

Sample ID: EAST WALL 1 (H401098-06)

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	04/11/2014	ND	416	104	400	0.00	
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	04/11/2014	ND	200	99.8	200	0.00301	
DRO >C10-C28	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	
Surrogate: 1-Chlorooctane	116 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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

Received: 04/10/2014 Sampling Date: 04/10/2014

Reported: 04/11/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: EAST WALL 3 (H401098-07)

Chloride, SM4500Cl-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	04/11/2014	ND	416	104	400	0.00	
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	04/11/2014	ND	200	99.8	200	0.00301	
	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	

Surrogate: 1-Chlorooctane 114 % 65.2-140 Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

Sample ID: NORTHWEST WALL (H401098-08)

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	04/11/2014	ND	416	104	400	0.00	
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	04/11/2014	ND	200	99.8	200	0.00301	
DRO >C10-C28	<10.0	10.0	04/11/2014	ND	214	107	200	0.554	
Surrogate: 1-Chlorooctane	119	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	4						

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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



April 14, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 04/11/14 14:15.

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. Keene

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

04/11/2014

Soil



Analytical Results For:

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

Received: 04/11/2014 Sampling Date:
Reported: 04/14/2014 Sampling Type:

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: WEST WALL 4 (H401113-01)

Chloride, SM4500CI-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	04/14/2014	ND	400	100	400	0.00	
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	04/14/2014	ND	184	92.1	200	5.84	
DRO >C10-C28	<10.0	10.0	04/14/2014	ND	192	96.0	200	9.09	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: WEST WALL 5 (H401113-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Analyte Result		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2014	ND	400	100	400	0.00	
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	04/14/2014	ND	184	92.1	200	5.84	

Surrogate: 1-Chlorooctane 103 % 65.2-140 Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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04/11/2014



Analytical Results For:

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

Received: 04/11/2014 Sampling Date:

Reported: 04/14/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: WEST WALL 6 (H401113-03)

Chloride, SM4500CI-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	04/14/2014	ND	400	100	400	0.00	
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	04/14/2014	ND	184	92.1	200	5.84	
DRO >C10-C28	<10.0	10.0	04/14/2014	ND	192	96.0	200	9.09	
Surrogate: 1-Chlorooctane	110	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	i4						

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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RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Sampler Name: Ambur Groves III MATRIX					1	ax#	ESE	RV.	SAMPLI	NG	5	TPH 8015	ш.	Texas TPH					.			
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PLEASE NOTE: Liability and O analyses. All claims including th service. In no event shall Cardinalifiates or successors arising of Relinquished By: Relinquished By:	amages. Cardinal's liability and client's exclusive remedy to nose for negligence and any other cause whatsoever shall nail be liable for incidental or consequental damages, inclusively or related to the performance of services hereunder to the performance of services hereunder to the performance of the control of the c	ing with y Cardin	ece	lation, b ardless of wed	By:	er suc	D	ls based	U	2	he above stated	Phone Fax Res REMAR	Result: sult: KKS: il res man(ults @ric	e-ecs	-PCS	n hoo	Phone #: PI Fax #: Onder@right; kjones@right; kjones@right;	DILLESMI	u.60111	;	
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



April 16, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 04/14/14 16:50.

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. Keene

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

Received: 04/14/2014 Reported: 04/16/2014

Project Name: LOCKHART A-17
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 04/14/2014

Sampling Type: Soil

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

Sample ID: STOCKPILE 1 (H401130-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	480 16.0		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	04/15/2014	ND	190	95.1	200	0.196	
		10.0	04/15/2014	ND	205	103	200	0.435	

Surrogate: 1-Chlorooctane 114 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Sample ID: SOUTHEAST WALL (H401130-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	e <16.0 16.0		04/15/2014	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	04/15/2014	ND	190	95.1	200	0.196	
DRO >C10-C28	<10.0	10.0	04/15/2014	ND	205	103	200	0.435	
Surrogate: 1-Chlorooctane	117	% 65.2-14	70						

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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

Received: 04/14/2014 Sampling Date: 04/14/2014

Reported: 04/16/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: EAST WALL 2 (H401130-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/15/2014	ND	400	100	400	3.92	
TPH 8015M	M mg/kg		Analyze	d By: ms					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2014	ND	190	95.1	200	0.196	
DRO >C10-C28	71.5	10.0	04/15/2014	ND	205	103	200	0.435	

Surrogate: 1-Chlorooctane 105 % 65.2-140 Surrogate: 1-Chlorooctadecane 97.1 % 63.6-154

Sample ID: EAST WALL 4 (H401130-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/15/2014	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	04/15/2014	ND	190	95.1	200	0.196	
DRO >C10-C28	<10.0	10.0	04/15/2014	ND	205	103	200	0.435	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.4	% 63.6-15	4						

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

Received: 04/14/2014 Sampling Date: 04/14/2014

Reported: 04/16/2014 Sampling Type: Soil

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: EAST WALL 5 (H401130-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208 16.0		04/15/2014	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	04/15/2014	ND	190	95.1	200	0.196	
DRO >C10-C28	<10.0	10.0	04/15/2014	ND	205	103	200	0.435	

Surrogate: 1-Chlorooctane 109 % 65.2-140
Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: NORTH WALL (H401130-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2014	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	04/15/2014	ND	190	95.1	200	0.196	
DRO >C10-C28	<10.0	10.0	04/15/2014	ND	205	103	200	0.435	
Surrogate: 1-Chlorooctane	110 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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04/14/2014

Soil



Analytical Results For:

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

Received: 04/14/2014 Sampling Date: Reported:

04/16/2014 Sampling Type: Project Name: **LOCKHART A-17** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: STOCKPILE 2 (H401130-07)

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	04/15/2014	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	04/15/2014	ND	190	95.1	200	0.196	
DRO >C10-C28	<10.0	10.0	04/15/2014	ND	205	103	200	0.435	
Surrogate: 1-Chlorooctane	107	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.0	% 63.6-15	4						

Sample ID: STOCKPILE 3 (H401130-08)

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	04/15/2014	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	04/15/2014	ND	190	95.1	200	0.196	
DRO >C10-C28	21.7	10.0	04/15/2014	ND	205	103	200	0.435	
Surrogate: 1-Chlorooctane	115	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent 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 relate 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.

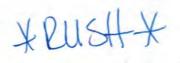
*** Insufficient time to reach temperature.

- 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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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		,	-			33	le the	BIL	470					A	NAL	YSIS	REQUEST		
Company Name: Project Manager	Hache Bally						P.0	D. #:									100			
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FOR LAB USE ONLY		0.			MAT	RIX	T	PRE	SERV.	SAMPLI	NG	10	上		F	ete				
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME					Complete				
190100	Stockpile 1	6	1		V					4-14-14	8:45	V	V		-	-	-		-	-
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6	Northwale	-6	11	1	1	Н	1			4-14-19	4:00	/	1							-
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0	Old skile)								-	-		-	-	-	-	-	-		11 5	
	and Damages, Cardinal's liability and client's exclusive remedy for ding those for negligence and any other cause whatsoever shall t								be limb	ed to the amount of	aid by the client	for the		1	_					

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, service. is of some of insultant of consequence unineges, incoming various entended, overeign insuruptions, now at use, or ross of proma insured by overeign an access of whether such claim is based upon any of the above stated reasons or otherwise.

service. In no event shall Cardinal be liable for incidental or contaffiliates or successors arising out of or related to the performant Relinquished By: Relinquished By:	4:50 C	Dde Henson	email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact Pres Pres No No	Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com *Same id charged as pur Jacob. 4/16/14/Ch

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2426



*Sample id charged as per Jacob. 4/16/14/h



April 23, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 04/23/14 13:15.

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. Keene

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

 Received:
 04/23/2014
 Sampling Date:
 04/23/2014

 Reported:
 04/23/2014
 Sampling Type:
 Soil

Project Name: LOCKHART A-17 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: STOCKPILE 4 (H401224-01)

Chloride, SM4500Cl-B Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier ND 400 Chloride 192 16.0 04/23/2014 416 104 0.00

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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

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ty: Hobbs	State: NM	ZIP:	882	40			-	Addr										7					
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olect Name: \D	Ckhart A-17						-	State			Zi	p:		Chlorides	TPH 8015	BTEX	Texas TPH	Cations/Anions	TDS	1 1			
roject Location:							-1	Pho		:				0	∞	E	as	S					
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Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	THER:	ACID/BASE:	ICE / COOL	Oluca.	DATE	TIME					Complete					
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24-6



Appendix D Photo Documentation

Apache Lockhart A-17 Unit Letter I, Section 17, T21S, R37E



Initial release area, facing southwest

2/10/14



Initial release photo, facing northwest

2/10/14



Initial release area, facing east

2/10/14



Sampling release area, facing west

2/10/14



Installing vertical, facing east

2/25/14



Excavating site, facing southeast





Taking sample of vertical, facing northwest

2/25/14



4/10/14



Exporting soil, facing north

4/10/14



Blending soil, facing east





Continue excavating, facing north

4/11/14



Final excavation, facing south

4/17/14



Final excavation, facing south





Installing liner, facing northwest

4/17/14



Final excavation, facing northeast

4/17/14



Installing liner, facing north

4/17/14



Liner installation completed, facing south





Backfilling site, facing southeast

4/17/14



Liner installation completed, facing northeast 4/17/14



Importing soil, facing northwest

4/23/14



Site backfilled, facing northeast

5/1/14



Site backfilled, facing southeast

5/1/14



Site backfilled, facing northwest

5/1/14



Site backfilled, facing south

5/1/14



Disking soil to prepare for seeding, facing northwest 5/1/14



Site completed, facing north 5/1/14



Seeding the site, facing southwest

5/1/14



Site completed, facing south

5/1/14

Appendix E

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 8, 2011

			Rele	ease Notific	cation	n and Co	rrective A	ction		· Fin aid 100		
						OPERAT] Initia	al Report	\boxtimes	Final Report
		pache Corpo ne, Eunice, l		0.1		Contact Br	uce Baker lo. (432) 631-6	6082				
				rest WBDU #69			e Tank Batter					
Surface Ow				Mineral C					API No	. 30-025-	38204	
						N OF REI	EACE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/We	st Line	County		
I	17	218	37E	2630'		FSL	120'	FI	EL	Lea		
	1				·		e			<u> </u>		
						OF RELI						
Type of Rele	ase oil and	produced wa	ter	1177.	VIII		Release 20 oil a	nd \	Volume F	Recovered 4	150 tot	al fluid
Source of Re	lease water	r transfer line	•			Date and H 2/8/14	our of Occurrenc		Date and 10:30 a.m	Hour of Dis	covery	2-8-14 at
Was Immedia	ate Notice C		Yes [No 🗌 Not Re	quired	If YES, To Geoffrey L						
By Whom?							our 2/10/14 at 9	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
Was a Water	course Reac	hed?	Yes 🛭	No		If YES, Vo	lume Impacting t	he Waterc	course.			
If a Watercou	rse was Imp	pacted, Descri	be Fully.*	ī								
				Taken.* The wa								
Describe Areon site beginning samples were NMOCD and excavation was commercial last chloride value meet regulator NMOCD appromposite of eanalysis. All freturned a DRI mil reinforced surrounding lo	a Affected a ing on Febru taken to a co approved on s completed boratory for of 304 mg/k y standards y standards our blended O value of 2 poly liner w cation. On	and Cleanup A lary 10 th , 2014 ommercial labor April 3 rd , 2014 wall samples analysis. All varies and years and I were taken to a for disposal. our piles was a piles returned 1.7 mg/kg. The as installed an May 1 st , 2014,	ction Tak to assess to ratory for the exall sample DRO for al to NMOCD The remain the aken and follaboratory to gravel or the site w	e containment wal en.* A total of 10, he release. Four panalysis. Based on tivities began on A xcavation were tak es returned laborat I wall samples retu approved facility in der of the excavati ield tested for chlo chloride readings /er the lined batter seated. The excavas as seeded with Blu is true and compl	603 squ points with the lab april 9 th , cen and 1 ory chlourned val for dispo ted soil varides an below 5 y facility ration was	are feet of faci thin the pasture oratory analysi 2014. The rela- field tested for ride values bel lues of non-det osal. A total of was set into for d organic vape 00 mg/kg and of y was removed as then backfill a seed.	lity and pasture lar e area were sample is of the site, a Cor- ease area in the par- chlorides and orga ow regulatory star- ect. The excavater 224 cubic yards o arr piles and blende ors. The composite GRO and DRO rea and replaced by c	nd was affed at the sur- rective Actsture was e- mic vapors ndards, exc- d soil was of contamin d on site w es were the adings of n- lean gravel ed soil to the	ected by the reface and tion Plan excavated in The was rept for the evaluated soil with clean, and taken to on-detect. At the he surface	he release. R with depth. (CAP) was s to a depth of all samples was te south wall on site and a from the pas of a commercial except for s base of the 4 and contour	ECS per Repressubmitted 4 ft bg ere ther #1, white ture was il. An eal labo tockpil ft exca ed to the	ersonnel were sentative ed to gs. Once the n taken to a ich returned a ls that did not ns taken to a eight point oratory for le 3, which avation, a 20-ne
regulations all public health should their o	operators a or the environations had ment. In ac	are required to onment. The ave failed to a ldition, NMO	report an acceptanc dequately CD accept	d/or file certain roe of a C-141 repoint investigate and reached ance of a C-141 repoints.	clease ne rt by the emediate	otifications an e NMOCD ma e contaminatio	d perform correct trked as "Final Re on that pose a thre the operator of r	tive action eport" doe eat to grou esponsibil	ns for rele is not reli and water lity for co	eases which eve the oper , surface wa ompliance w	may en ator of ter, hun ith any	ndanger Fliability man health
Signature:	Brue	e Bah	<u> </u>				OIL CONS	SERVA	TION	DIVISIO	N	
Printed Name	: Bruce Ba	ıker				Approved by I	Environmental Sp	ecialist:				
Title: Enviro	nmental Te	chnician			Approval Date: Expiration Date:							
E-mail Addres	•		•	(432) 631-6982		Conditions of	Approval:			Attached		

^{*} Attach Additional Sheets If Necessary