

APACHE CORPORATION

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

Randy Federal #002 AD

Closure Report

2RP-1478

API 30-015-30249

Release Date: September 11, 2012

Unit Letter G, Section 22, Township 17S, Range 30E

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

March 1, 2013

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 – Randy Federal #002 AD UL/G sec. 22 T17S R30E API No. 30-015-30249 2RP-1478

Mr. Bratcher:

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

Background and Previous Work

The site is an accidental discharge of produced water associated with the Randy Federal #002. A surface flow line ruptured and released fluids onto pasture land south of the well pad. NMOCD was notified, and an initial form C-141 was submitted by Apache Corporation on September 15, 2012 (Appendix A). The site is located in Loco Hills, New Mexico, in unit letter 'G' of section 22, T17S, R30E in Eddy County.

On September 11, 2012, RECS personnel initiated work at the Randy Federal #002 (Figure 1). Soil samples were collected from the site at ground surface and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C). Chloride ranged from 4,754 mg/kg to 35,887 mg/kg. GRO ranged from <10 mg/kg in two samples to 616 mg/kg. DRO ranged from <10 mg/kg to 25,600 mg/kg.

The leak area was excavated to 4 ft. below ground surface (Figure 2). From September 28 to October 2, 2012, representative grab samples were collected from the excavation walls and submitted to a laboratory for chloride and TPH analyses (Appendix C). The West Wall Center sample contained 304 mg/kg chloride. The remaining samples contained 112 mg/kg chloride or less. GRO and DRO were <10 mg/kg in all samples.

On October 9, 2012, a representative composite soil sample was collected from the excavation bottom at 4 ft. bgs and was submitted to a laboratory for chloride and TPH analyses (Appendix

C). The sample contained 3,680 mg/kg chloride, <10 mg/kg GRO, and 45.4 mg/kg DRO (Figure 2).

On October 19, 2012, soil samples were collected by excavator from Vertical #1 within the 4 ft. deep excavation (Figure 3). The vertical was excavated to 23 ft. bgs, and samples were field tested. RECS personnel returned on October 31, 2012 to advance a soil bore. The soil bore was drilled to 100 ft. bgs within the 4 ft. deep excavation (Figure 3). Samples from the soil bore were submitted to a laboratory for chloride and TPH analyses (Appendix C). Chloride decreased from 13,600 mg/kg at 10 ft. bgs to 6,400 mg/kg at 90 ft. bgs. GRO and DRO were <10 mg/kg in all samples. At 90 ft. bgs, the soil bore entered the red bed formation. The soil bore was left open to accumulate potential groundwater. On November 3, 2012, no water was detected within the bore hole (Appendix D). On November 5, 2012, the bore hole was plugged in full with bentonite.

By December 18, 2012, the installation of a liner at the site and backfill for the excavation was approved by both NMOCD and BLM (Appendix E). On January 23, 2013, a reinforced 20 mil plastic liner was installed throughout the excavation. The excavation was backfilled with clean soil (<16 mg/kg chloride, Appendix C), and the site was contoured to the surrounding landscape. Impacted soils were removed to a NMOCD approved disposal facility. See Appendix B for photographs of field activities.

Conclusion

According to data obtained from the installation of the soil bore, no groundwater exists beneath the site (Appendix F). Due to the installation of a liner and the non-existence of groundwater, Apache submits the final C-141 (Appendix G) and respectfully requests the closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please call Natalie Gladden (575) 390-4186 if you have any questions or comments.

Sincerely,

Bruce Baker Head Foreman

Bruce Baden

RECS

(575) 631-5157

Attachments:

Figure 1: Site Plat with Initial Sampling Data

Figure 2: Site Plat with Final Excavation Lab Data

Figure 3: Site Plat with Vertical #1 and SB1 Sampling Data

Appendix A: Initial Form C-141 Appendix B: Site Photographs Appendix C: Laboratory Results

Appendix D: Soil Bore Log, Letter of Groundwater Verification, and Soil Bore

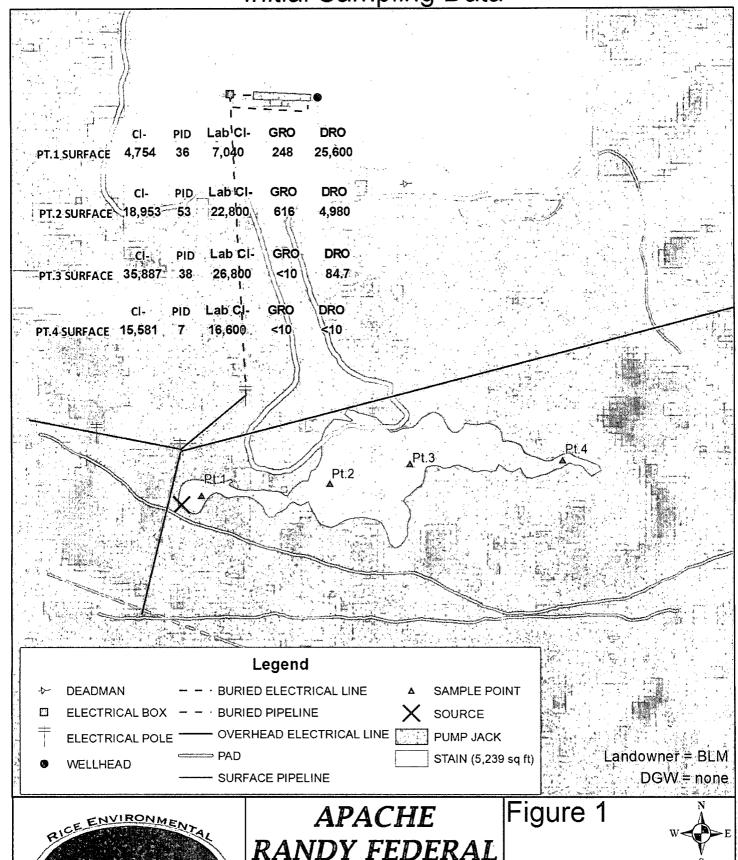
Photographs

Appendix E: Correspondence Appendix F: Groundwater Study Appendix G: Final Form C-141



RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

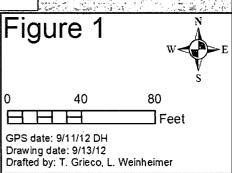
Initial Sampling Data



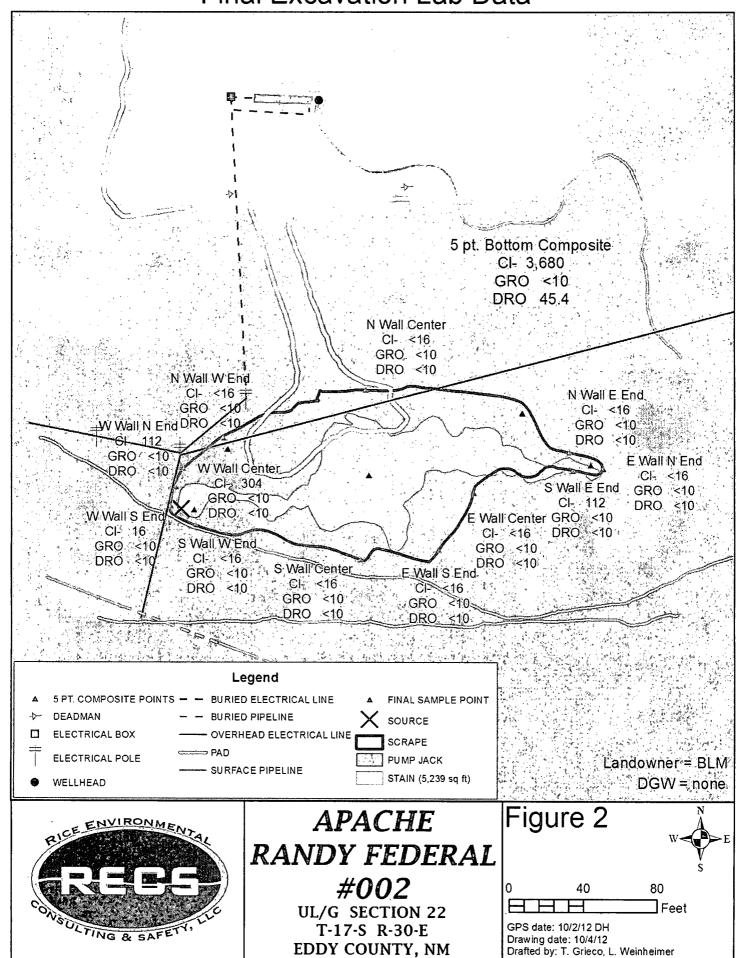


RANDY FEDERAL #002

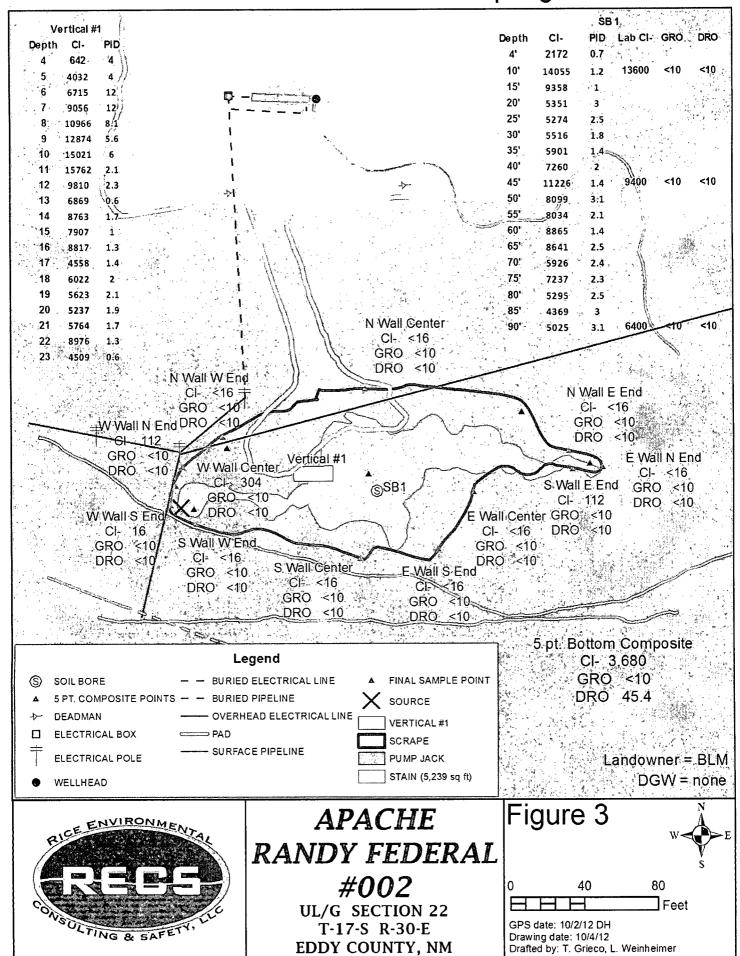
UL/G SECTION 22 T-17-S R-30-E EDDY COUNTY, NM



Final Excavation Lab Data



Vertical #1 and Soil Bore Sampling Data



Appendix A
Initial Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

<u>District I</u> 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 Énergy Minerals and Natural Resources

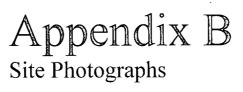
> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-141 Revised August 8, 2011

JAN 03 2013 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in NMOCD ARSPELER With 19.15.29 NMAC.

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E-mail Addre	ess: natalie.	gladden@apac	hecorp.co	m·		(Conditions of	f Approval:			Attached		
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PROPOSAL NOT LATER THAN:



RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

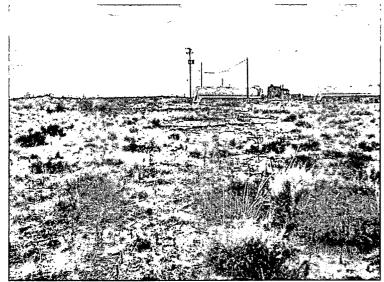
Randy Federal #2

Unit Letter G, Section 22, T17S, R30E



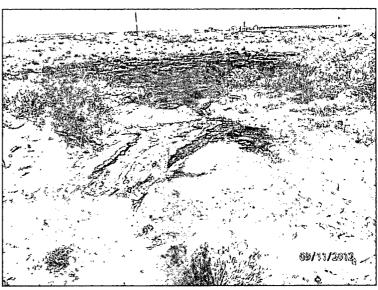
Initial release, facing east

9/11/2012



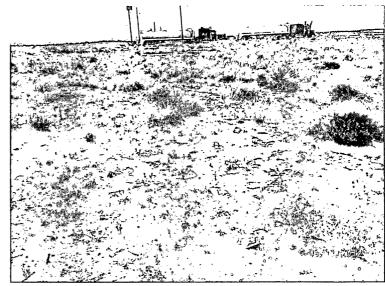
Initial release, facing west

9/11/2012



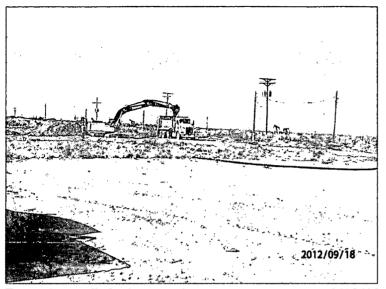
Initial release, facing east

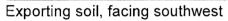
9/11/2012



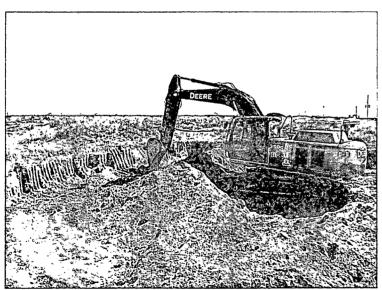
Initial release, facing west

9/11/2012



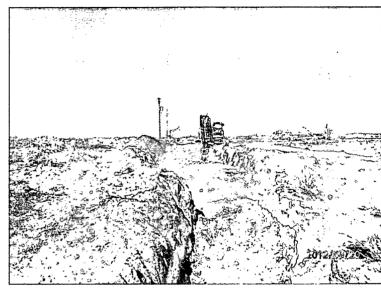


9/18/12



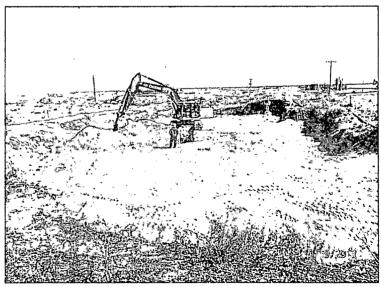
Excavating, facing south

9/21/12



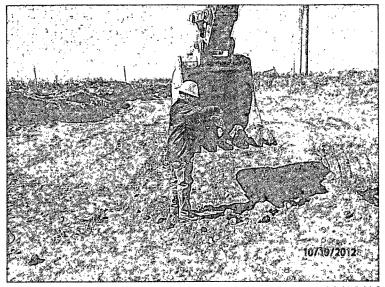
Excavating, facing west

9/20/12



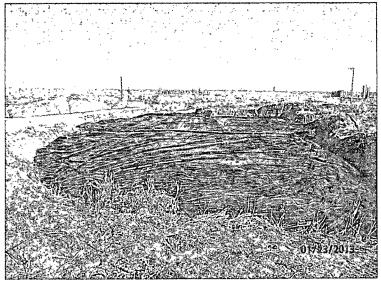
Digging vertical, facing east

10/19/12



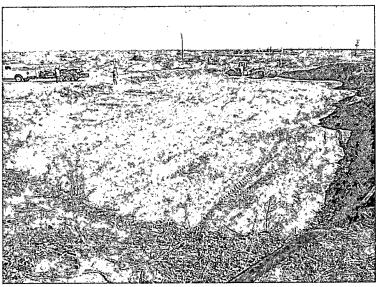
Collecting sample, facing west

10/19/12



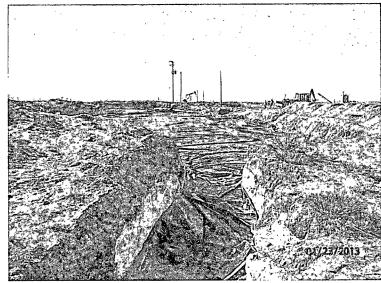
Liner installed, facing east

1/23/13



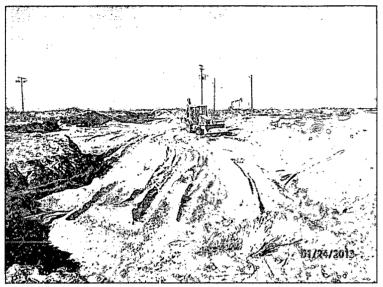
Bottom sand installed, facing east

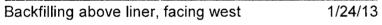
1/23/13

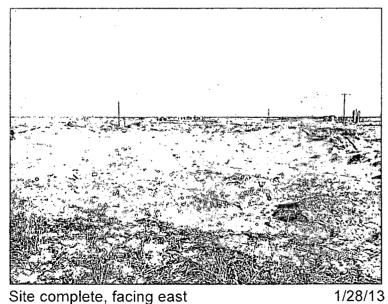


Liner installed, facing west

1/23/13



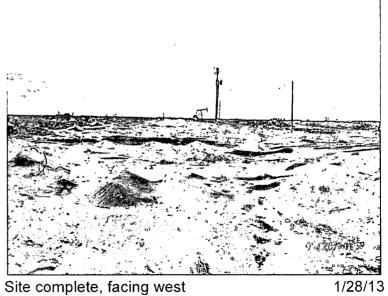




Site complete, facing east



1/25/13 Importing soil, facing south



Site complete, facing west

Appendix C Laboratory Results



September 19, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: RANDY FEDERAL #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 09/13/12 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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.

Celeg & 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 NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

09/13/2012

09/19/2012

Reported: Project Name:

RANDY FEDERAL #2 AD

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

09/11/2012

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: PT. 1 SURFACE (H202209-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	09/17/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	248	200	09/17/2012	ND	190	94.9	200	2.67	
DRO >C10-C28	25600	200	09/17/2012	ND	186	92.9	200	5.65	

Surrogate: 1-Chlorooctane

94.1 %

65.2-140

Surrogate: 1-Chlorooctadecane

359 %

189 %

63.6-154

63.6-154

Sample ID: PT. 2 SURFACE (H202209-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	09/17/2012	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	616	100	09/17/2012	ND	190	94.9	200	2.67	
DRO >C10-C28	4980	100	09/17/2012	ND	186	92.9	200	5.65	
Surrogate: 1-Chlorooctane	113	% 65.2-14	0						

Cardinal Laboratories

Surrogate: I-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:

09/13/2012

Reported:

09/19/2012

Project Name:

RANDY FEDERAL #2 AD

Project Number:

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

09/11/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 3 SURFACE (H202209-03)

Chloride, SM4500Cl-B

Analyzed By: HM

ing,	r Ng	Allulyzo	a by. III-1					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
26800	16.0	09/17/2012	NÐ	416	104	400	3.92	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	09/17/2012	ND	190	94.9	200	2.67	
84.7	10.0	09/17/2012	ND	186	92.9	200	5.65	
	Result 26800 mg, Result <10.0	Result Reporting Limit 26800 16.0 mg/kg Result Reporting Limit <10.0 10.0	Result Reporting Limit Analyzed 26800 16.0 09/17/2012 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 26800 16.0 09/17/2012 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 26800 16.0 09/17/2012 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 26800 16.0 09/17/2012 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 26800 16.0 09/17/2012 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 26800 16.0 09/17/2012 ND 416 104 400 3.92 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

85.3 %

65.2-140

Surrogate: 1-Chlorooctadecane

97.4%

101%

63.6-154

63.6-154

Sample ID: PT. 4 SURFACE (H202209-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16600	16.0	09/17/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2012	ND	190	94.9	200	2.67	
DRO >C10-C28	<10.0	10.0	09/17/2012	ND	186	92.9	200	5.65	
Surrogate: 1-Chlorooctane	98.0	% 65.2-14	0						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



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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Celey D. Keene

-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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FOR LAB USE ONLY		ļ	۵	-	Т	MAT	RIX		PF	RESE	RV.	SAMPL	ING	O	<u>n</u>		<u>e</u>	ž			Ì	[.	1
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analyses: All claims includin service, In no event shall Ca	nd Damages. Cardinal's liability and clien ng those for negligence and any other ca ardinal be liable for incidental or convey ng out of or related ou the performance o	ause whatsoever shall be d juental damages, including	feemed withou	l waived u It limitation	intess n n, busin	made in ness inte	writing erruptio	g and rec ons, loss	ceived of use	by Can	dinaty ss of p	within 30 days after rolls incurred by	er completion of the client, its subsidia asons or otherwis	ie applical ries: e.							I				L
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26



October 11, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: RANDY FEDERAL #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 10/04/12 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www,tceq,texas_gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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
NATALIE GLADDEN
P. O. BOX 1849
EUNICE NM, 88231
Fax To: 394-2425

Received:

10/04/2012

Reported:

10/11/2012

Project Name: Project Number: RANDY FEDERAL #2 AD

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

e: 10/01/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: N WALL - E END (H202418-01)

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	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	88.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.1	% 63.6-15	4						

Sample ID: N WALL - CENTER (H202418-02)

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	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	90.1	% 65.2-14	0				<u> </u>	_	
Surrogate: 1-Chlorooctadecane	87.1	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:

10/04/2012

Reported:

10/11/2012

NONE GIVEN

Project Name: Project Number: RANDY FEDERAL #2 AD

Project Location:

Location: NOT GIVEN

Sampling Date:

10/01/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: N WALL - W END (H202418-03)

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	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	88.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.1	% 63.6-15	4						

Sample ID: S WALL - E END (H202418-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	87.0	% 65.2-14	0		-				
Surrogate: 1-Chlorooctadecane	83.4	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keena



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

Received: Reported: 10/04/2012

10/11/2012

Project Name: Project Number: RANDY FEDERAL #2 AD NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/28/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S WALL - CENTER (H202418-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	89.8	% 65.2-14	0						
Survogate: 1-Chlorooctadecane	88.2	% 63.6-15	4						

Sample ID: S WALL - W END (H202418-06)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	94.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.3	% 63.6-15	4						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:

10/04/2012

Reported:

10/11/2012

Project Name: Project Number: RANDY FEDERAL #2 AD

Project Location:

NONE GIVEN

Sampling Date:

10/01/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: E WALL - N END (H202418-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2012	ND	400	100	400	4.08	
TPH 8015M	mg	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	92.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.1	% 63.6-15	4						

Sample ID: E WALL - CENTER (H202418-08)

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	10/08/2012	ND	400	100	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS		0.700			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	89.4 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.2 9	% 63.6-15	4						

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Celey D. Keene



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

Received:

10/04/2012

Reported:

10/11/2012

Project Name: Project Number: RANDY FEDERAL #2 AD

Project Location:

NOT GIVEN

NONE GIVEN

Sampling Date:

10/01/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: E WALL - S END (H202418-09)

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	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	89.1	% 65.2-14	0 .						
Surrogate: 1-Chlorooctadecane	88.7	% 63.6-15	4						

Sample ID: W WALL - CENTER (H202418-10)

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28			10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.3	% 63.6-15	4						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: 10/04/2012

10/11/2012

Project Name: Project Number: RANDY FEDERAL #2 AD

Project Location:

NONE GIVEN

Sampling Date:

10/01/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: W WALL - N END (H202418-11)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0	10.0	10/05/2012	ND	204	102	200	3.59	
Surrogate: 1-Chlorooctane	91.5	91.5 % 65.2-140							
Surrogate: 1-Chlorooctadecane	91.0	% 63.6-15	4						

Sample ID: W WALL - S END (H202418-12)

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	10/08/2012	ND	400	100	400	4.08	
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	10/05/2012	ND	203	101	200	0.901	
DRO >C10-C28	<10.0 10.0		10/05/2012 ND		204	102	200	3.59	
Surrogate: 1-Chlorooctane	88.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.9	% 63.6-15	4						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

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

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine



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

Project Manager: Natalie Gladden P.O. #:												
Natalie Gladden												
Address: Company:					ည					l		
City: State: Zip: Attn:					<u>0</u>				İ	1		
Phone #: Fax #: Address:		1			F					1		
Project #: Project Owner: City:	l	I≥		エ	1/8					1		
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Project Location: Phone #:	l : Ĕ	801	BTEX	ြို့	ati	TDS				ļ		
Sampler Name: JKAMPLAIN Fax #:	ᆜ嵳		<u>m</u>	×	O	-						
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DELEASE NOTE: Liability and Damages. Cardisal's liability and client's exclusive remedy for any claim mising whether based in contract or fort, shall be limited to the amount paid by the canalyses. All claims including those for negligence and any other cause whatsooker shall be deemed waived unless made in writing and received by Cardinal within 30 days after complete service. In no event shall Cardinal be liable for incidental or consequental damages, including visitout finitiation, business interruptions, loss of use, or loss of profits incurred by client, its a 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 c	ion of the applications	able			.	<u></u>		<u> </u>				
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	ARKS:		J		ı, taa i	<u> </u>						
Relinquished By: Date: Received By: em	ail resu	lts										
	alie.gla											
Delivered By (Circle One) Semale Condition CHECKED BY:	onder@											
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#26

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

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	mpany Name: Apache Corp. oject Manager: Natalie Gladden									BI	LL TO						ANAL	YSIS	RE	QUES	ST			
Project Manage	r: Natalie Gladden							P.O	. #:															
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† Cardinal	† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 THE THE																							



October 15, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: RANDY FEDERAL #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 10/09/12 16:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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.

Celeg 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 NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 394-2425

Fax To:

Received: Reported: 10/09/2012

10/15/2012

Project Name:

RANDY FEDERAL #2 AD

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

10/09/2012

Sampling Type:

Soil

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

Sample ID: 5 PT. COMP (H202468-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	10/15/2012	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	10/11/2012	ND	184	91.8	200	1.63	
DRO >C10-C28	45.4	45.4 10.0		ND	186	93.0	200	4.59	
Surrogate: 1-Chlorooctane	84.3	% 65.2-14	10						

Surrogate: 1-Chlorooctadecane

88.9 %

63.6-154

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Uability 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.

Celeg D. Keene



Notes and Definitions

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.

ND

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 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.

Celeg D. Keene

ARDINAL LABORATORIES

Apache Corp.

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:									P.O. #:																	
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BILL TO

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



November 05, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: RANDY FEDERAL #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 9:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited 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.

Celeg & 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



Analytical Results For:

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

Received:

11/01/2012

Sampling Date:

10/31/2012

Reported:

11/05/2012

Sampling Type:

Soil

Project Name:

RANDY FEDERAL #2 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SB - 1 @ 10' (H202657-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	11/02/2012	ND	432	108	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	11/03/2012	ND	196	98.0	200	4.67	
DRO >C10-C28	<10.0	10.0	11/03/2012	ND	211	105	200	7.04	
Surrogate: 1-Chlorooctane	88.7	% 65.2-14	0					- **	
Surrogate: 1-Chlorooctadecane	98.5	% 63.6-15	4						

Sample ID: SB - 1 @ 45' (H202657-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	11/02/2012	ND	432	108	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	11/03/2012	ND	196	98.0	200	4.67	
DRO >C10-C28	<10.0	10.0	11/03/2012	ND	211	105	200	7.04	
Surrogate: 1-Chlorooctane	86.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.8	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received:

11/01/2012

Sampling Date:

10/31/2012

Reported:

11/05/2012

Sampling Type:

Soil

Project Name:

RANDY FEDERAL #2 AD

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: SB - 1 @ 90' (H202657-03)

Chloride, SM4500Cl-B

ma/ka

Analyzed By: HM

Chiorac, Shitsouch B	mg,	, kg	Allalyze	u Dy. III.					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	11/02/2012	ND	432	108	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	11/03/2012	ND	196	98.0	200	4.67	
DRO >C10-C28	<10.0	10.0	11/03/2012	ND	211	105	200	7,04	

84.6% 65.2-140 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 94.8 %

63.6-154

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 whiteher 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.

Celeg & Keena



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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, unlesses interruptions, loss of to 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.

Celeg D. Kune



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

ompany Name: Apache											B	IL.	LTO					1	ANAI	YSIS	RE	QUES	ST			
Project Manager	: Natalie Gladden								P.O	#:																
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City: Hobbs		State: NM	Zip	: 88	240	·			Attn	ı:									Ö							
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#26

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



January 29, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: RANDY FEDERAL #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 01/24/13 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred_certif.html.

Cardinal Laboratories is 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



Analytical Results For:

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

Received:

01/24/2013

Sampling Date:

01/23/2013

Reported:

01/29/2013

Sampling Type:

Soil

Project Name:

RANDY FEDERAL #2 AD

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: BACKFILL BLOWSAND (H300199-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/28/2013	ND	432	108	400	0.00	•

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 or profits incrured by client, its subsidiaries, affiliates or successors airling 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.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500CI-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 chert'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 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.

Coley D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (FOE) 202 2226 EAY (FOE) 202 2476 (225) 672-7001 EAY (225)673-7020

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Appendix D
Soil Bore Log, Letter of Groundwater Verification, and Soil Bore Photographs

> RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

Logger:

Kyle Norman

Driller:

Harrison & Cooper, Inc.

Drilling Method:

Air rotary

Start Date: End Date:

10/31/2012 10/31/2012

Comments: SB-1 is located 23 ft southeast of the trench. All

samples were from cuttings.



Apache Randy Federal Well ID:

SB-1

#002 AD

Project Consultant: RECS

Location: UL/G sec. 22 T-17-S R-30-E

	TD = 100	DRAF		e from cuttings. L. Weinheimer GW = NONE	Lat: 32°49'19.737' Long: 103°57'23.2	
Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
4 ft	2172		0.7			
10 ft	14055	CI- 13,600 GRO <10 DRO <10	1.2			
15 ft	9358		1.4			
20 ft	5351		2.6	Red Sandy Clay		
25 ft	5274		2.5			
30 ft	5516		1.8			
35 ft	5901		1.4			
40 ft	7260		2			

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
45 ft	11226	CI- 9400 GRO <10 DRO <10	1.4			bentonite
50 ft	8099		3.1			
55 ft	8034		2.1			
60 ft	8865		1.4			
65 ft	8641		2.5	Red Sandy Clay		
70 ft	5926		2.4			
75 ft	7237		2.3			
80 ft	5295		2.5			
85 ft	4369		3			
90 ft	5025	CI- 6400 GRO <10	3.1			
100 ft		<10 DRO <10		Red Bed		

Arc Environmental

P. O. Box 1772 Lovington, New Mexico 88260 (575) 631-9310 Rozanne Johnson ~ rozanne@valornet.com

November 3, 2012

Mr. Hack Conder RICE Environmental Consulting and Safety 112 West Taylor Hobbs, New Mexico 88240

Re: Apache ~ Randy Federal #2

Mr. Conder,

On Saturday November 3, 2012 soil bore #1 at the Apache ~ Randy Federal #2, Eddy County T17S, R30E, Sec 22 was checked with a Solinist Water Level Meter for water accumulation within the borehole. The meter indicated no water within the borehole at the total depth of 73.21 feet.

Sincerely,

Arc Environmental

Rozanne Johnson
Rozanne Johnson

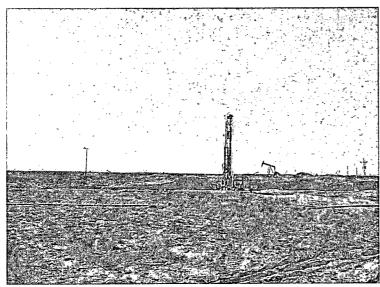
Electronic Copy:

Hack Conder

Bruce Baker Katie Jones

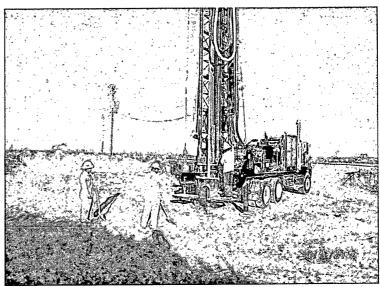
Randy Federal #002 AD Soil Bore Installation

Unit Letter G, Section 22, T17S, R30E



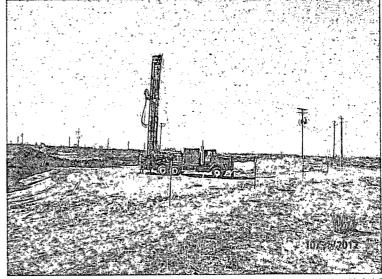
Drilling SB1, facing south

10/31/2012



Drilling SB1, facing northwest

10/31/2012

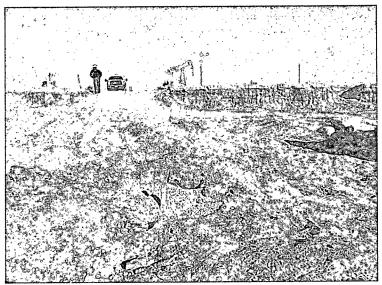


Drilling SB1, facing southwest

10/31/2012



Plugging SB1, facing north 11/5/2012



SB1 plugged, facing north 11/5/2012

Appendix E
Correspondence

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Bruce Baker

From:

Amos, James [jamos@blm.gov]

Sent:

Tuesday, December 18, 2012 7:09 AM

To:

Bruce Baker Gladden, Natalie

Cc: Subject:

Re: Apache Randy Federal # 002 accidental discharge

The BLM is OK with the installation of a liner, and backfill. While we're in the area, I think there is opportunity to downsize the location and address some other areas. Of course I'm looking at aerials but they are not that old. What I'm looking at is the old road that ran East and West that used to run along the south side of the pad. All should be returned to a natural contour and soil structure. All to be seeded with #2 seed mix. If any questions, please get back to me. thanks

On Mon, Dec 17, 2012 at 1:30 PM, Bruce Baker < baker@rice-ecs.com > wrote:

Mr. Amos,

Apache Corporation has retained Rice Environmental Consulting and Safety to address potential environmental concerns at the Randy Federal # 002 accidental discharge. The site has been excavated to 4 ft. Below ground surface and wall grab samples have been taken to a commercial laboratory for analysis of Chloride and TPH. A five point bottom composite was also taken to a commercial laboratory for analysis of TPH and Chloride. Since the bottom composite was 3,680 Chlorides a soil bore was initiated at the site and advanced to 100 ft. and samples were taken in 5 ft. intervals to 90 ft. below ground surface and field tested for chloride and organic vapors using a PID meter. At 90 ft. red bed was encountered and the bore was advanced to 100 ft. and left open for 48 hours and gauged with a Solinist Water Level meter and no water was detected. Apache Corporation would like to install a 20 ml reinforced liner at 4 ft. below ground surface and backfill the site with clean imported soil with at least 2 ft. of top soil to establish re-vegetation of site. RECS discussed this with Mike Bratcher (NMOCD) on Friday December 14, 2012 and he agreed to a liner installation at 4 ft. below ground surface with the stipulation that BLM also agreed to the liner installation. Attached is the Plat, photos, lab analysis, and groundwater verification letter. RECS appreciates the opportunity to work with you on this project. Please call me if you have any questions or wish to discuss the site. Thanks and have a good day.

Bruce Baker

Head Foreman

Phone: (575) 393-4411

Cell: (575) 631-5157



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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

	Release Notification and Corrective Action													
						OPERA?	TOR		Initia	al Report	\boxtimes	Final Report		
Name of Co		Apache Cor					Natalie Gladder							
		349, Eunice,	NM, 882	231		Telephone N								
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Flow line ru	ptured. Line	e was replaced	and stand	ding fluid was rec	overed									
Describe Are	ea Affected	and Cleanup A	Action Tal	cen *					.					
				e land. Impacted	soils v	vere removed to	a NMOCD appr	roved di	isposal facil	lity. Repres	entativo	e soil		
				a soil bore at the										
TPH, and a r surrounding		lastic liner wa	s installed	in the excavation	botto	n. The excavat	tion was backfille	d with	clean soil, a	and the site v	vas con	itoured to the		
Surrounding	randscape.													
				e is true and comp										
				nd/or file certain i ce of a C-141 repo										
				investigate and r										
or the enviro	nment. In a	ddition, NMC	OCD accep	otance of a C-141										
federal, state	, or local lav	ws and/or regi	ılations.				OH CON	a E D I		DILITOR				
/	$\bigcap_{\alpha \in \Lambda}$.,	OIL CON	SERV	<u>/ATION</u>	DIVISIO	<u>)N</u>			
Signature:		<u>uu</u>	(21)	ladde										
Printed Nam	e: Natalie (Gladden				Approved by	District Supervise	or:						
Title: EH&S	S Environme	ental Tech				Approval Dat	e:		Expiration	Date:		1445		
E-mail Addr	ess: Natalie	e.gladden@ap	achecorp.	com		Conditions of	`Approval:			Attached				
Date:	17/1	3	Phone	: (575) 390-4186										
* Attach Addi	itional She	ets If Necess		. (3,0,00000										