

District I  
1625 N. French Dr., Hobbs, NM 88240  
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

HOBBS OCD

DEC 21 2011

RECEIVED

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

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Apache Corporation	Contact	Natalie Gladden
Address	PO Box 1849, Eunice NM 88240	Telephone No.	575-390-4186
Facility Name	McDonald AC 2 #33	Facility Type	Producer
Surface Owner	Deck	Mineral Owner	State
		API No.	30-025-26012

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	13	22S	36E	2160	FSL	330	FEL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release	Produced water/hydrocarbons	Volume of Release	7 bbls	Volume Recovered	0
Source of Release	Poly line	Date and Hour of Occurrence	06/28/11	Date and Hour of Discovery	06/28/11
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

DTW=75'

Describe Cause of Problem and Remedial Action Taken.\*  
The poly line split due to heat.

Describe Area Affected and Cleanup Action Taken.\*

An approximate area of 7,084 ft<sup>2</sup> was affected by the leak. The area was excavated to 2 ft. below ground surface. Samples were collected and sent to a commercial laboratory for chloride analysis. A total of 396 cubic yards was taken to a NMOCD approved disposal facility and the excavation was backfilled with clean imported soil.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Natalie Gladden</i>	OIL CONSERVATION DIVISION <i>Jeffrey LeRoux</i> Environmental Specialist	
Printed Name: Natalie Gladden	Approved by District Supervisor	
Title: EHS Environmental Tech	Approval Date: 12/21/11	Expiration Date: -
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 12-16-11 <i>HPC</i> Phone: 575-390-4186	IRP-06-14-3095	

\* Attach Additional Sheets If Necessary

JUN 18 2014

NSAD1416853494



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

DEC 21 2011

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# APACHE CORPORATION

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

## Mc Donald AC-2 #33

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## Closure Report

API 30-025-26012

Release Date: June 28, 2011

Unit Letter I, Section 13, Township 22S, Range 36E

## Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

**September 22, 2011**

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 – McDonald AC 2 #33 AD**

**UL/I sec. 13 T22S R36E**

Mr. Leking:

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 fluids associated with the Apache McDonald AC 2 #33 when a poly line ruptured and released 7 bbls of produced water. The line was repaired, and an initial form C-141 was submitted by Apache Corporation on June 30, 2011 (Appendix A). The site is located southwest of Eunice, NM in unit letter 'I' of section 13, T22S, R36E in Lea County, New Mexico.

On June 30, 2011, RECS personnel initiated work on the McDonald AC 2 #33. The site had been previously excavated to 2 ft. below ground surface (bgs). Soil samples were collected from the excavation walls and floor and were field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID) (Figure 1). The samples were taken to a commercial laboratory for chloride analysis. The 5 point bottom composite was 80 ppm (mg/kg) and the side walls contained 32 ppm or less with the exception of one wall sample at 608 ppm (Appendix C).

A total of 396 cubic yards of impacted soil was removed from the 2 ft. deep excavation and transported to a NMOCD approved facility for disposal. The excavation was backfilled with 312 cubic yards of clean imported soil and contoured to the surrounding area.

See Appendix B for photographs of field activities.

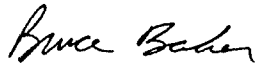
### **Conclusion**

Depth to groundwater averages 156 ft bgs according to data from the New Mexico Office of the State Engineer and the U.S. Geological Survey (NM Office, 2010 and USGS 2011). Due to the

depth of groundwater and low remaining chloride, Apache submits the final C-141 (Appendix D) 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  
RECS  
(575) 631-5157

Attachments:

- Figure 1: Site Diagram with Sample Summary
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Final Form C-141

References

- New Mexico Office of the State Engineer*. 2010. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>
- USGS*. (2011, September 26). Groundwater Levels [Data file]. Retrieved from <http://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

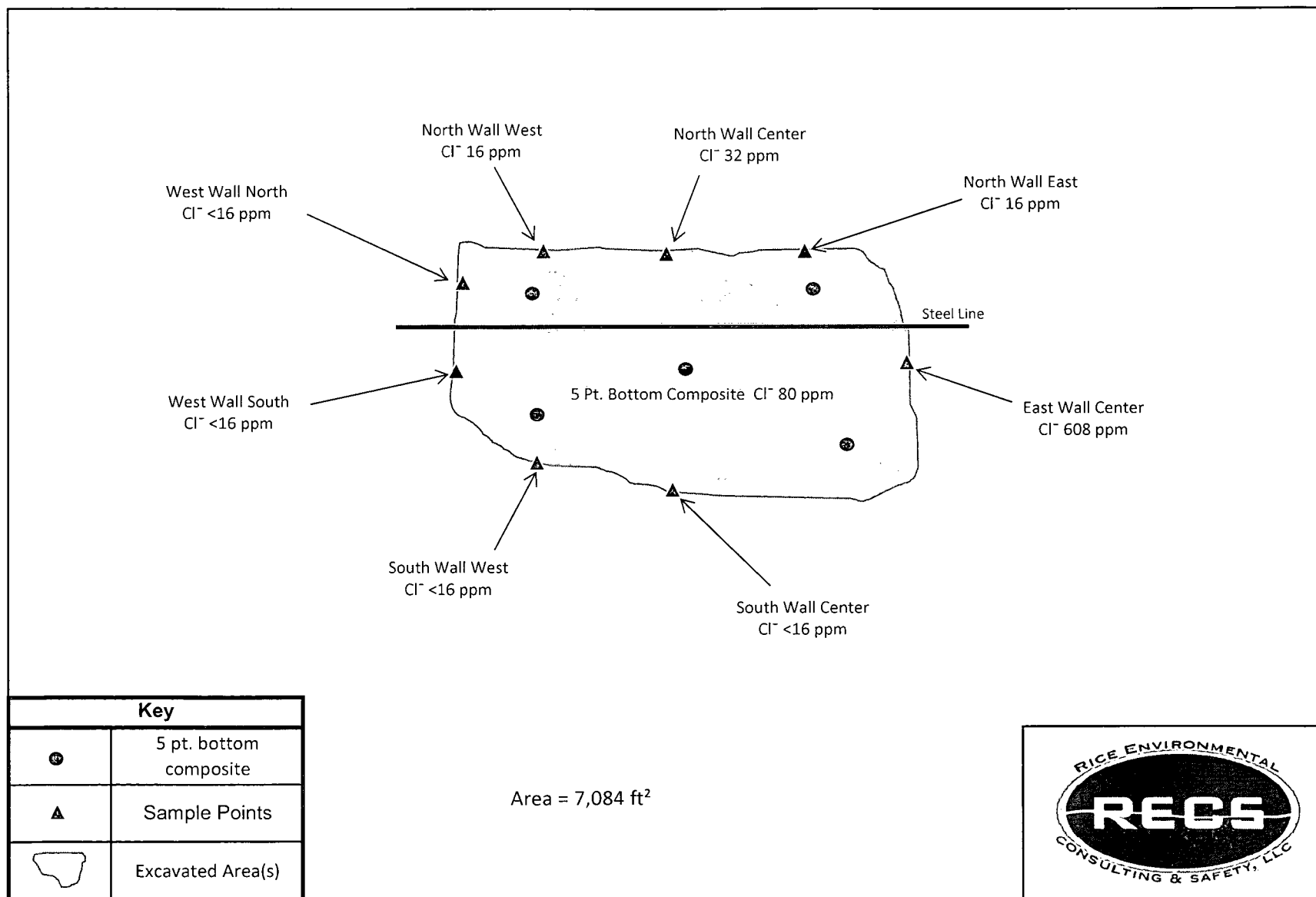


Figure

**RICE Environmental Consulting and Safety (RECS)**

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

**Figure: Site Diagram with Sample Summary**  
**McDonald State AC 2 #33**



# 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

District I  
1625 N. French Dr., Hobbs, NM 88240  
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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden	
Address PO Box 1849, Eunice NM 88240	Telephone No. 575-390-4186	
Facility Name Mcdonald AC 2 #33	Facility Type Producer	
Surface Owner Deck	Mineral Owner State	API No. 30-025-26012

#### LOCATION OF RELEASE


Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	13	22S	36E	2160'	FSL	330	FEL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

#### NATURE OF RELEASE

Type of Release Produced Water/Hydrocarbon's	Volume of Release 7bbls	Volume Recovered 0
Source of Release Poly line	Date and Hour of Occurrence 06/28/11	Date and Hour of Discovery 06/28/11
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The poly line split due to heat.		
Describe Area Affected and Cleanup Action Taken.* Site will be remediated to NMOCD Standards for Remediation.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Natalie Gladden	Approved by Environmental Specialist:	
Title: EHS Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 06/30/11 Phone: 575-390-4186		

\* Attach Additional Sheets If Necessary



# Appendix B

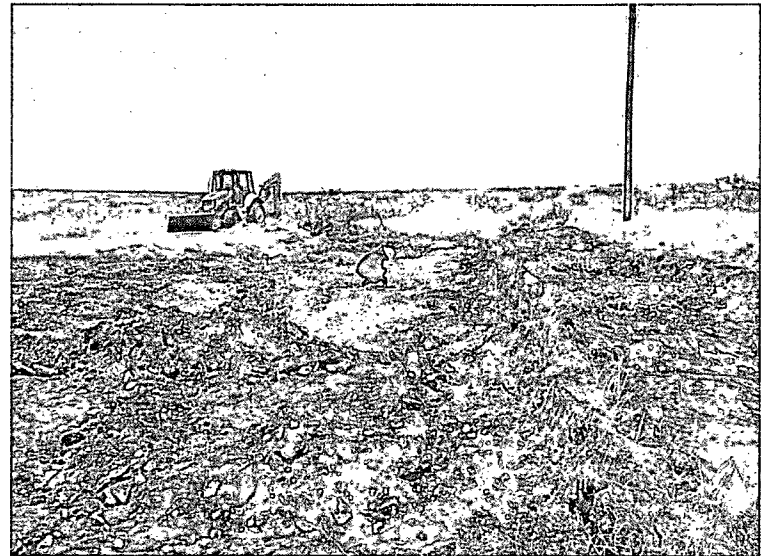
## Site Photographs

**RICE Environmental Consulting and Safety (RECS)**

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

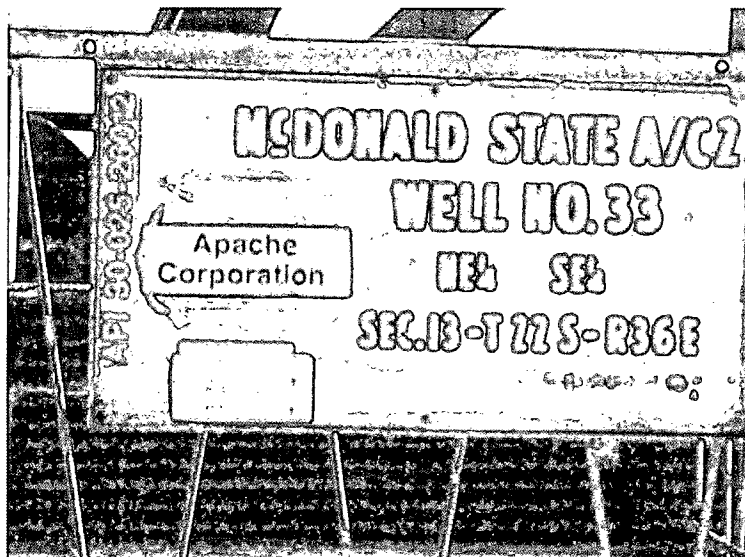
## McDonald AC 2 #33

Unit I, Section 13, T22S, R36E



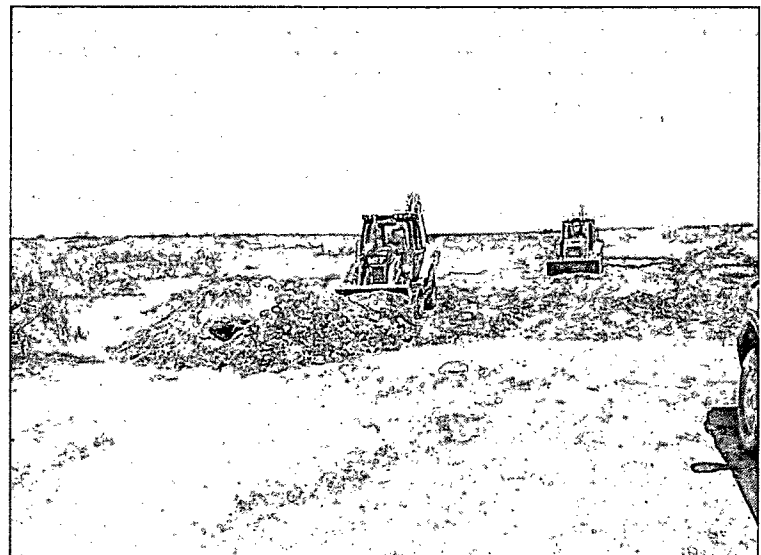
Sampling excavation floor

6/30/2011



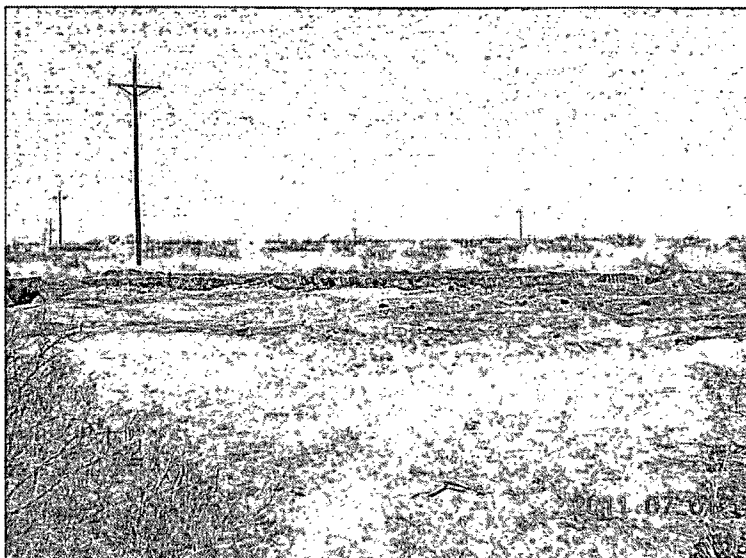
Site location sign

7/1/2011



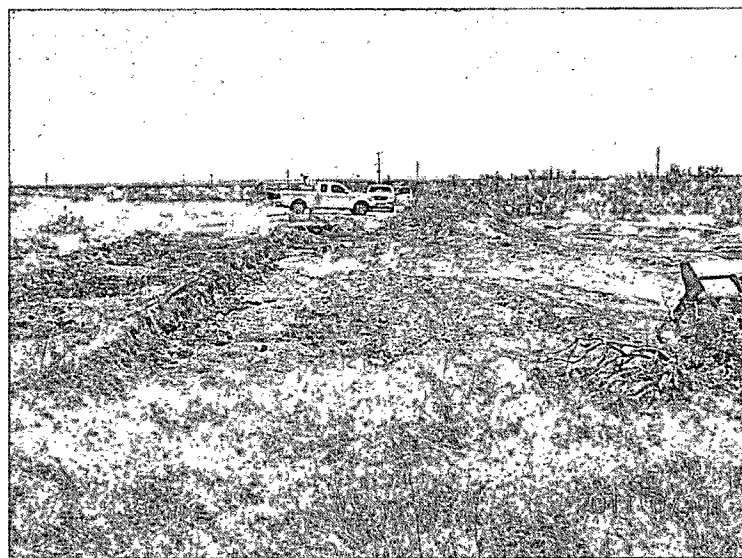
Excavating site

7/1/2011



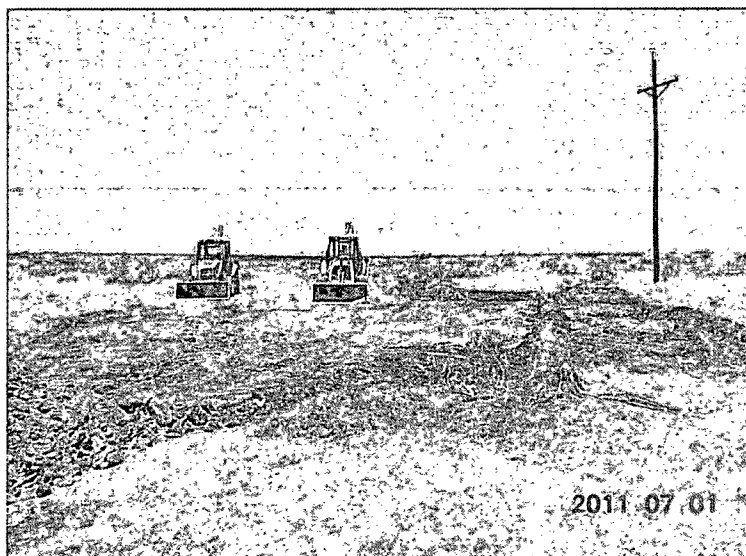
Final excavation, facing north

7/1/2011



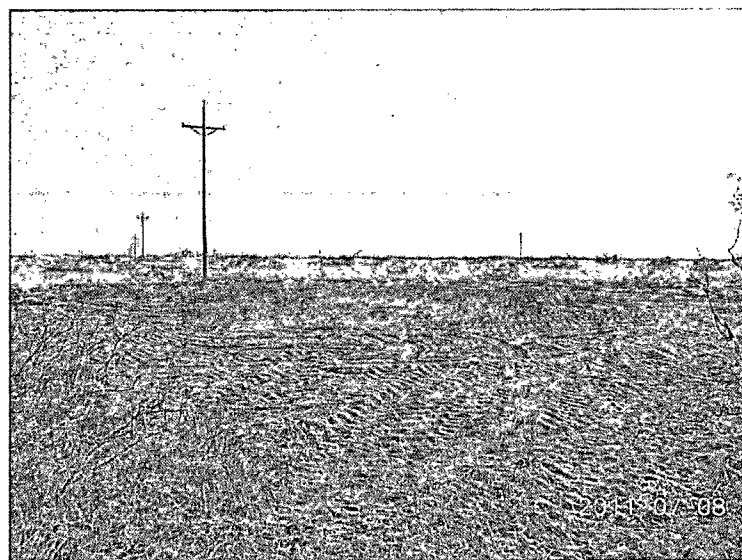
Final excavation, facing west

7/1/2011



Final excavation, facing east

7/1/2011



Backfill complete

7/8/2011

# Appendix C

## Laboratory Results

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

**Analytical Results For:**

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

 Received: 07/01/2011  
 Reported: 07/06/2011  
 Project Name: MC DONALD A/C2 #33  
 Project Number: NOT GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N WALL CENTER (H101368-01)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2011	ND	432	108	400	3.77	

**Sample ID: N WALL EAST (H101368-02)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2011	ND	432	108	400	3.77	

**Sample ID: W WALL SOUTH (H101368-03)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2011	ND	432	108	400	3.77	


**Sample ID: E WALL CENTER (H101368-04)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	07/05/2011	ND	432	108	400	3.77	

Cardinal Laboratories

\* = Accredited Analyte

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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: 07/01/2011  
 Reported: 07/06/2011  
 Project Name: MC DONALD A/C2 #33  
 Project Number: NOT GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N WALL WEST (H101368-05)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2011	ND	432	108	400	3.77	

**Sample ID: W WALL NORTH (H101368-06)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2011	ND	432	108	400	3.77	

**Sample ID: S WALL CENTER (H101368-07)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2011	ND	432	108	400	3.77	

**Sample ID: S WALL WEST (H101368-08)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/05/2011	ND	432	108	400	3.77	

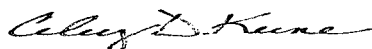
**Sample ID: 5 PT COMP (H101368-09)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/05/2011	ND	432	108	400	3.77	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



<b>BILL TO:</b>				<b>ANALYSIS REQUEST</b>															
Company Name: Apache Project Manager: Natalie Gladden				P.O. #:															
Address:				Company:															
City:		State:		Zip:		Attn:													
Phone #:		Fax #:				Address:													
Project #:		Project Owner:				City:													
Project Name:				State:		Zip:													
Project Location: McDonald A/CZ H#33				Phone #:															
Sampler Name: Jacob Kampman				Fax #:															
FOR LAB USE ONLY		Laboratory I.D.	Sample I.D.	GIRAS OR C/JOMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE: ICE / COOL OTHER :	SAMPLING  DATE	 TIME	Chlorides										
H1D136S																			
-1	North Wall Center	9	1	/		/	6-30-11	2:00	✓										
-2	North wall East	9	1	/		/	6-30-11	2:05	✓										
-3	West wall South	9	1	/		/	6-30-11	2:15	✓										
-4	East wall center	9	1	/		/	6-30-11	4:00	✓										
-5	North wall West	9	1	/		/	6-30-11	4:10	✓										
-6	West wall North	9	1	/		/	6-30-11	4:20	✓										
-7	South wall center	9	1	/		/	7-1-11	11:00	✓										
-8	South wall west	9	1	/		/	7-1-11	11:05	✓										
-9	spt Camp	2	1	/		/	7-1-11	11:10	✓										

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Relinquished By: [Signature]		Date: 7-1-11	Received By: Jodi Benson	Time: 3:31	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____
Relinquished By:		Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____	REMARKS: Email results Natalie.Gladden@usa.apachecorp.com; Zander@rice-eos.com; Bbaue@rice-eos.com; heander@rice-eos.com; Lweinheimer@rice-eos.u
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date:	Received By:	Checked By: [Initials]	
		Sample Condition Cool Intact			
		Yes No Yes No			