

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

Form C-141  
Revised October 10, 2003

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

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 Corp.	Contact	Bruce Baker
Address	PO BOX 1849, Eunice, NM 88231	Telephone No.	(432) 631-6982
Facility Name	White Owl Battery (nearest well #1)	Facility Type	Production Facility
Surface Owner	Unknown	Mineral Owner	State of NM
		Lease No. 30-025-36689	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	2	20S	38E	582	FNL	330	FWL	Lea

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

**NATURE OF RELEASE**

Type of Release	Oil	Volume of Release	150 bbl	Volume Recovered	75 bbl
Source of Release	Swedge failure	Date and Hour of Occurrence	2/15/12	Date and Hour of Discovery	2/15/12
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking		
By Whom?	Natalie Gladden	Date and Hour	2/15/12 4:49 pm		
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 = 35'

Describe Cause of Problem and Remedial Action Taken.\*  
Swedge on circulating line cracked due to corrosion and caused fluid to release inside and outside of containment walls.

Describe Area Affected and Cleanup Action Taken.\*  
The leak affected area within the earthen berm and also outside the berm onto the caliche pad for the unit well #001. Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavations and sent to a commercial laboratory for chloride and TPH confirmation. The excavations were backfilled with clean caliche and leveled.

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>Bruce Baker</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Bruce Baker	<i>Geoffrey Leking</i> Approved by District Supervisor Environmental Specialist	
Title:	Environmental Tech	Approval Date:	08/30/13
E-mail Address:	larry.baker@apachecorp.com	Expiration Date:	_____
Date:	8-30-13	Conditions of Approval:	_____
Phone:	(432) 631-6982	Attached	<input type="checkbox"/>

KRE-06-14-3089

\* Attach Additional Sheets If Necessary

JUN 18 2014  
KISAD 1416849019



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

FEB 06 2014

RECEIVED

# APACHE CORPORATION

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

## White Owl Battery

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## Closure Report

API 30-025-36689

Release Date: February 15<sup>th</sup>, 2012

Unit Letter D, Section 2, Township 20S, Range 38E

# Rice Environmental Consulting & Safety

P.O. Box 2948 Hobbs, NM 88241

Phone 575.393.2967

**June 27<sup>th</sup>, 2013**

## **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 – White Owl Battery AD  
UL/D sec. 2 T20S R38E  
API No. 30-025-36689**

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 crude oil associated with the White Owl Battery when a swedge on a circulating line ruptured. Fluids were released within the battery containment and also outside the containment onto the caliche pad for the unit well #001. An initial form C-141 was submitted by Apache Corporation on February 17<sup>th</sup>, 2012 (Appendix A). The site is located south of Hobbs, in unit letter 'D' of section 2, T20S, R38E in Lea County, New Mexico. According to the NM OSE and USGS records, depth to groundwater in the area is approximately 48 ft bgs.

On February 16<sup>th</sup>, 2012, RECS personnel initiated work on the White Owl Battery (Figure 1). Surface soil samples were collected 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 B). Chloride ranged from 48.0 mg/kg to 496 mg/kg. TPH ranged from 39,700 mg/kg to 73,500 mg/kg.

The leak was divided into several excavated areas. On February 29<sup>th</sup>, 2012, RECS personnel collected and field tested a representative composite sample from the floor of the caliche pad scraped area (Figure 2). The sample was submitted to a laboratory for chloride and TPH analyses and contained <16.0 ppm chloride and <10.0 ppm TPH (Appendix C).

On March 1, 2012, RECS personnel collected and field tested samples from the remaining areas which included the floor of the bermed area surrounding the tanks, the floor of the middle scraped area, and the walls of both the middle scraped area and the caliche pad scraped area (Figure 3). The samples were submitted to a laboratory for chloride and TPH analyses

(Appendix C). In all samples chloride did not exceed 224 ppm and TPH did not exceed 15.3 ppm.

Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility. The excavations were backfilled with clean caliche and leveled. See Appendix B for photographs of field activities.

### **Conclusion**

Due to the removal of impacted soils relative to necessary groundwater depth, 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 Hack Conder at (575) 631-6432 if you have any questions or comments.

Sincerely,



Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

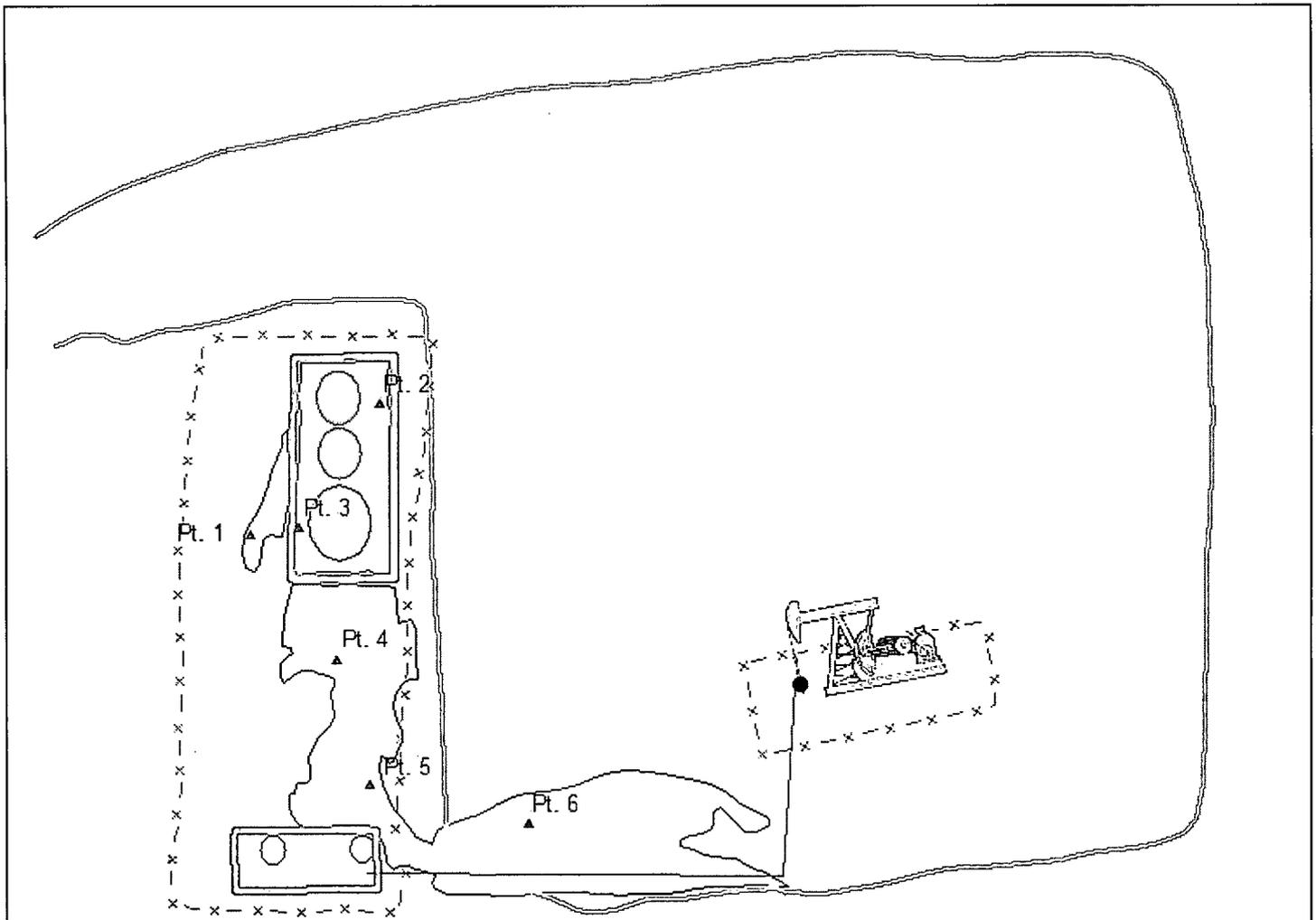
### **Attachments:**

- Figure 1: Site Plat with Initial Sampling Lab Data
- Figure 2: Site Plat with Caliche Pad Scrape Lab Data
- Figure 3: Site Plat with Bermed Area, Middle Scraped Area, and Caliche Pad Scraped Area Lab Data
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Final Form C-141

# Figures

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

# Site Plat



## Legend

- WELL HEAD
- ▲ SAMPLE POINTS
- WELL HEAD
- BERM
- x - x FENCE
- FLOW LINE
- PAD
- SEPARATOR
- STAIN (3,791 sq ft)
- TANK

## INITIAL SAMPLING LAB DATA

Sample Description	Cl-	GRO	DRO
Pt.1 surface	48	27,800	44,400
Pt.2 surface	48	33,000	40,500
Pt.3 surface	64	16,900	22,800
Pt.4 surface	112	28,400	43,300
Pt.5 surface	192	23,400	34,200
Pt.6 surface	496	29,600	42,700



## APACHE WHITE OWL BATTERY AD

UL/D SECTION 2  
T-20-S R-38-E  
LEA COUNTY, NM

DGW = 48 ft

Figure 1

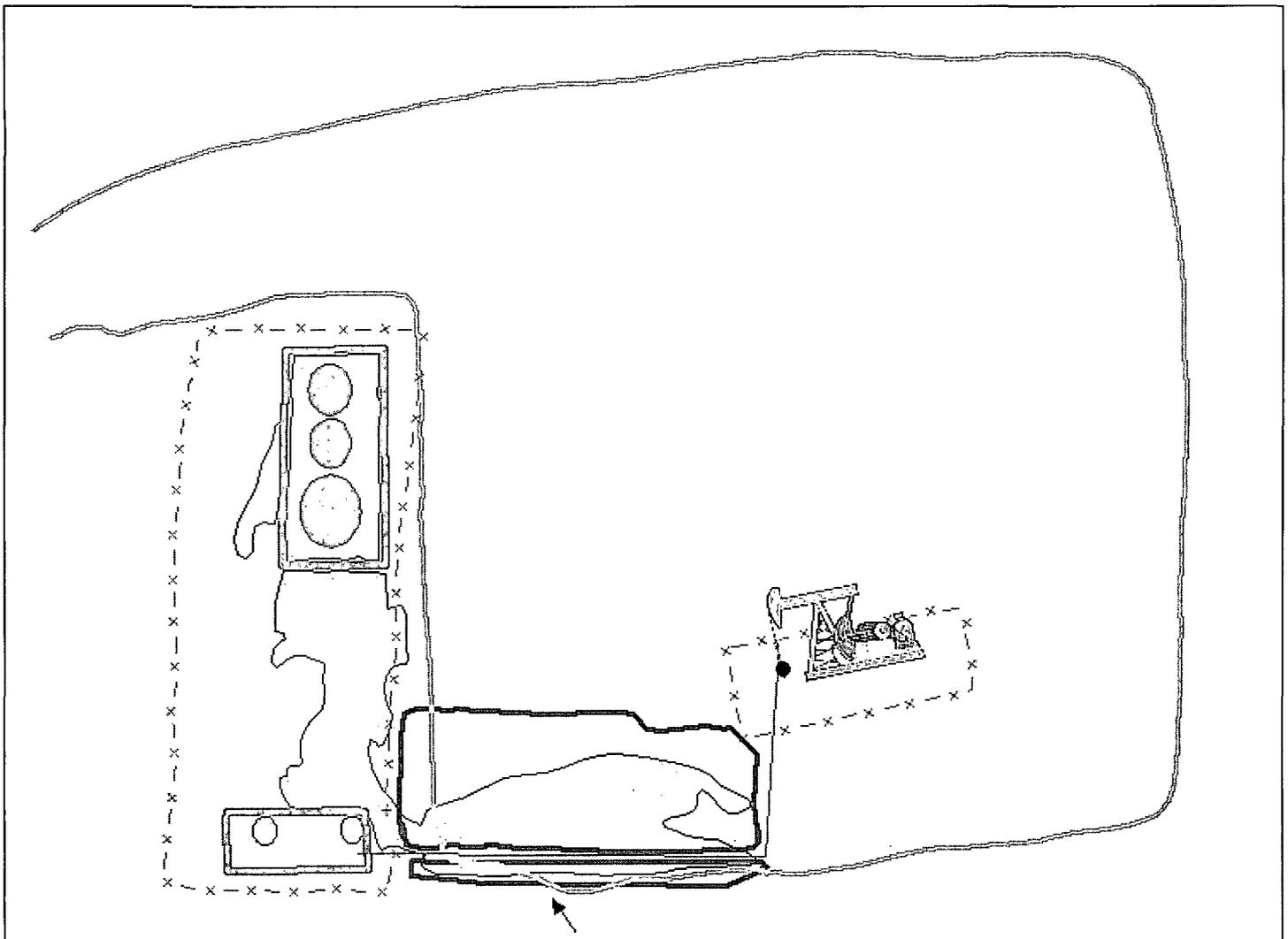


0 15 30 60  
Feet

A horizontal scale bar with markings at 0, 15, 30, and 60 feet.

GPS date: 2/16/12  
Drawing date: 3/15/12  
Drafted by: L. Weinheimer

# Site Plat



## Legend

- WELL HEAD
- ▬ BERM
- x - x FENCE
- FLOW LINE
- ▬ PAD
- ▭ scrape on pad
- ▭ SEPARATOR
- ▭ STAIN (3,791 sq ft)
- ▭ TANK

Caliche Pad Scrape  
35' x 80' x 3'

## CALICHE PAD SCRAPE LAB DATA

Sample Description	Cl-	GRO	DRO
5 PT BTM COMP ON PAD SCRAPE	<16	<10	<10



## APACHE WHITE OWL BATTERY AD

UL/D SECTION 2  
T-20-S R-38-E  
LEA COUNTY, NM

DGW = 48 ft

## Figure 2



0 15 30 60  
Feet

GPS date: 2/16/12  
Drawing date: 3/15/12  
Drafted by: L. Weinheimer

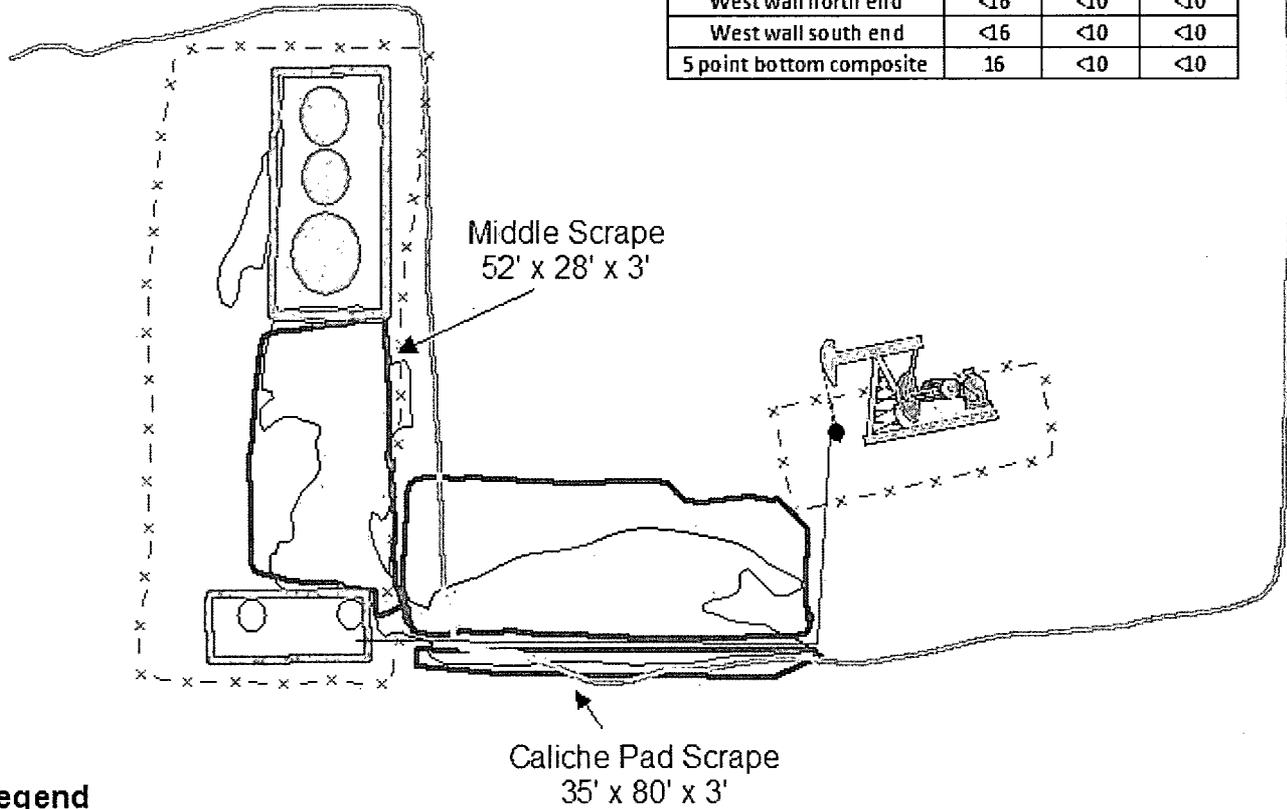
# Site Plat

## BERMED AREA LAB DATA

Sample Description	Cl-	GRO	DRO
NW corner bottom@ 1.6'	<16	<10	<10
SE corner bottom@ 2'	128	<10	15

## MIDDLE SCRAPE LAB DATA

Sample Description	Cl-	GRO	DRO
North wall center	<16	<10	<10
East wall north end	80	<10	<10
East wall south end	224	<10	<10
South wall center	<16	<10	<10
West wall north end	<16	<10	<10
West wall south end	<16	<10	<10
5 point bottom composite	16	<10	<10



### Legend

- WELL HEAD
- ▬ BERM
- x - x FENCE
- FLOW LINE
- ▬ PAD
- ▭ SCRAPES
- ▭ SEPARATOR
- ▭ STAIN (3,791 sq ft)
- ▭ TANK

## CALICHE PAD SCRAPE LAB DATA

Sample Description	Cl-	GRO	DRO
North wall west end	32	<10	<10
North wall east end	144	<10	<10
South wall east end	64	<10	<10
South wall west end	16	<10	<10
West wall center	224	<10	<10
East wall center	128	<10	<10

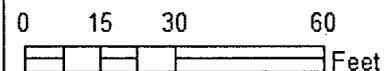


## APACHE WHITE OWL BATTERY AD

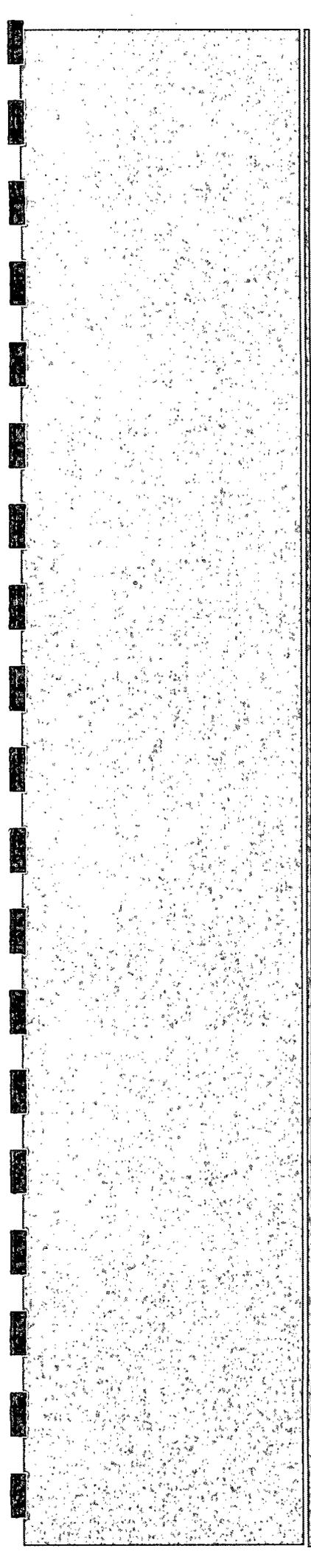
UL/D SECTION 2  
T-20-S R-38-E  
LEA COUNTY, NM

DGW = 48 ft

Figure 3



GPS date: 2/16/12  
Drawing date: 3/15/12  
Drafted by: L. Weinheimer



# Appendix A

Initial Form C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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 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 88231	Telephone No. 575-390-4186
Facility Name White Owl Bty (nearest well #001)	Facility Type Production Facility
Surface Owner Unknown	Mineral Owner State of NM
Lease No. 30-025-36689	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	2	20S	38E	582'	FNL	330'	FWL	Lea

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

#### NATURE OF RELEASE

Type of Release Oil	Volume of Release 150bbbls	Volume Recovered 75bbbls
Source of Release Swedge Failure	Date and Hour of Occurrence 2/15/12	Date and Hour of Discovery 2/15/12
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking	
By Whom? Natalie Gladden	Date and Hour 2/15/12 449pm	
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.\*  
Swedge on circulating line cracked due to corrosion and caused fluid to release inside and outside of containment walls.

Describe Area Affected and Cleanup Action Taken.\*  
Fluid was recovered and remediation has begun and NMOCD Standards will be followed to closure.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	Approved by District Supervisor:	
Title: EHS Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/17/12 Phone: 575-390-4186		

\* Attach Additional Sheets If Necessary

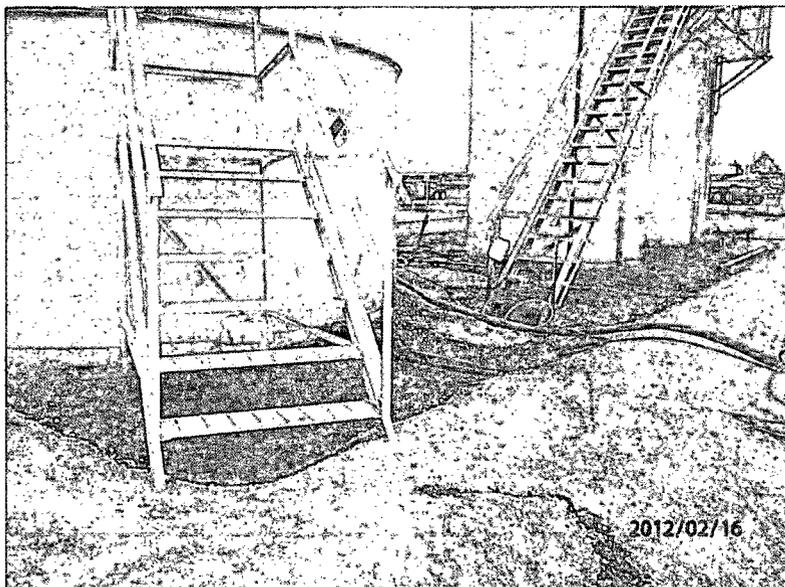
# Appendix B

## Site Photographs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

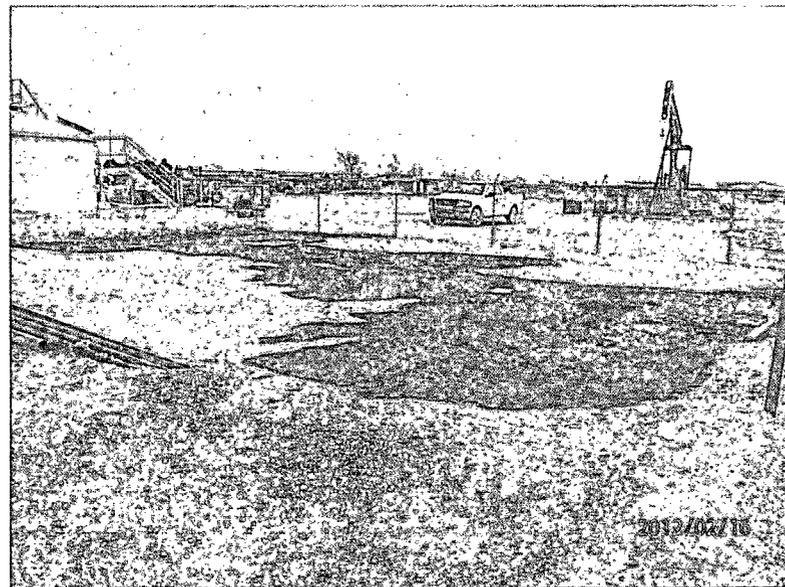
# White Owl Battery

Unit Letter D, Section 2, T21S R37E



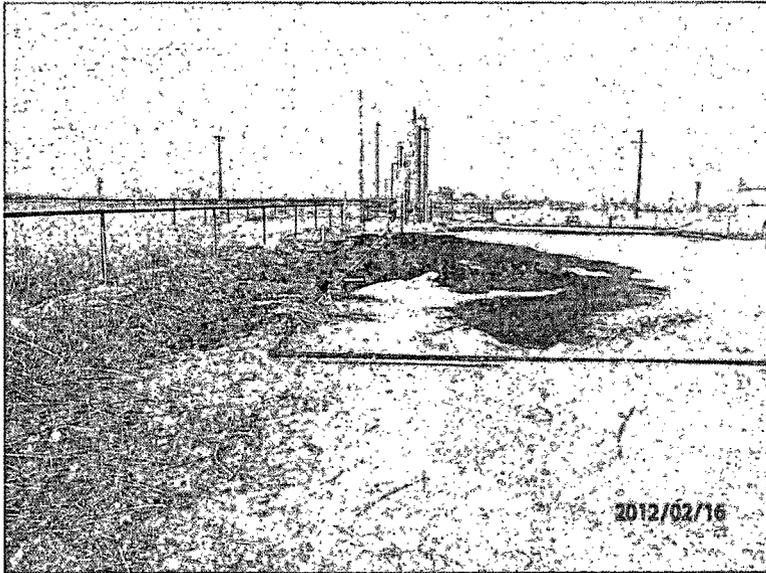
Initial release, facing northwest

2/16/2012



Initial release, facing northeast

2/16/2012



2012/02/16

Initial release, facing west

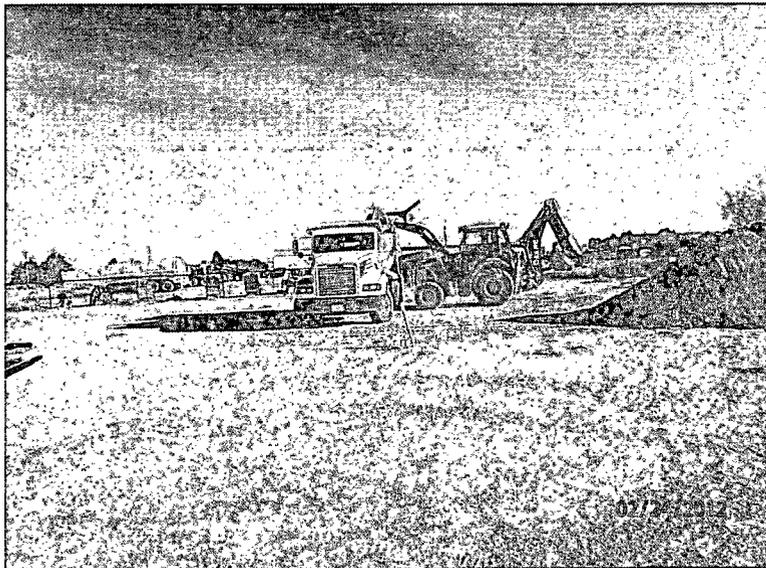
2/16/2012



02/24/2012

Excavating, facing southwest

2/24/2012



02/24/2012

Exporting soil, facing north

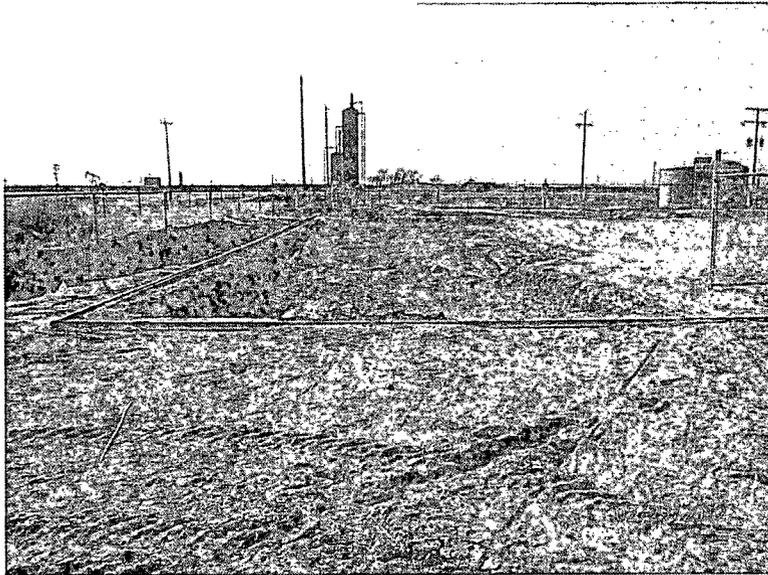
2/24/2012



SUNOCO  
06060901

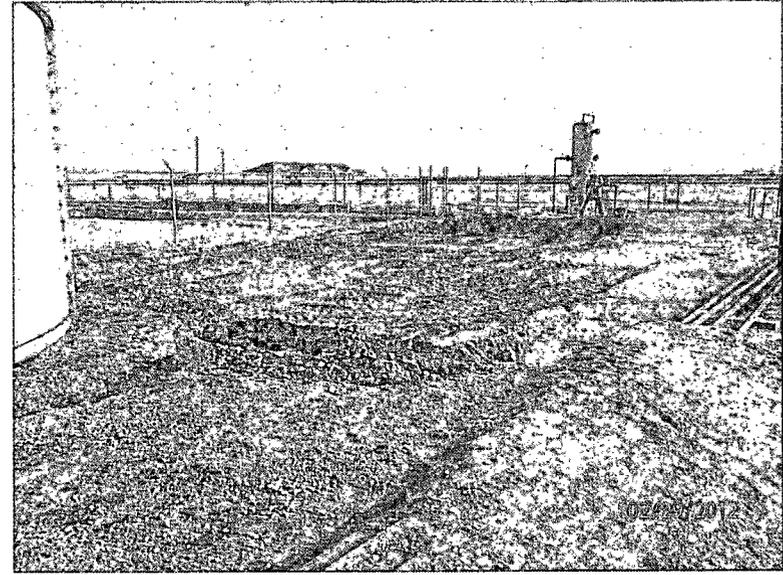
Excavating, facing south

2/28/2012



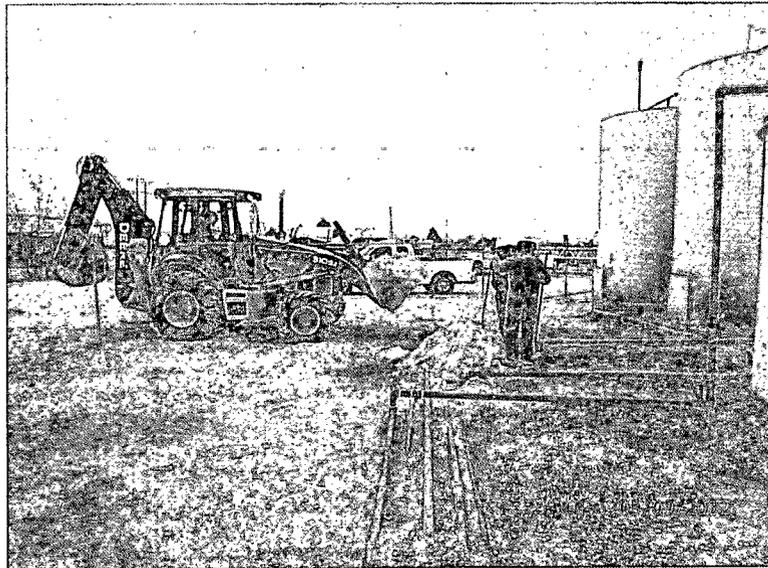
Final excavation, facing west

2/29/2012



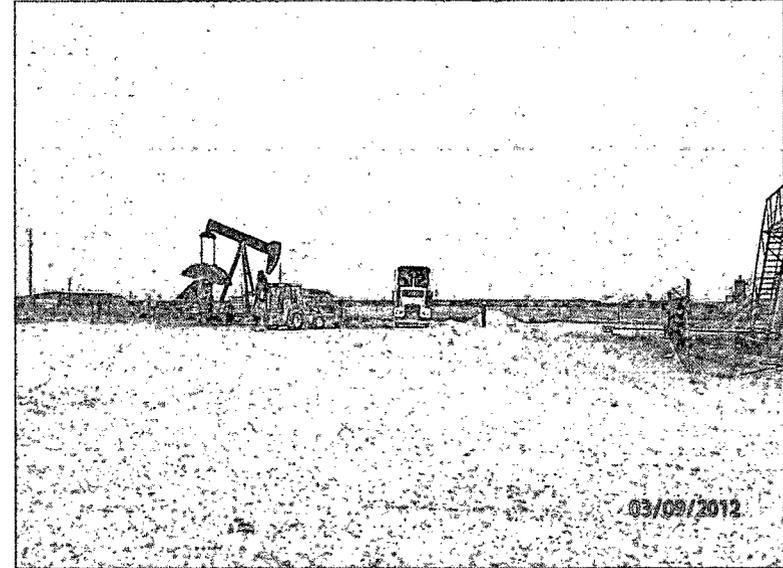
Final excavation, facing southeast

2/29/2012



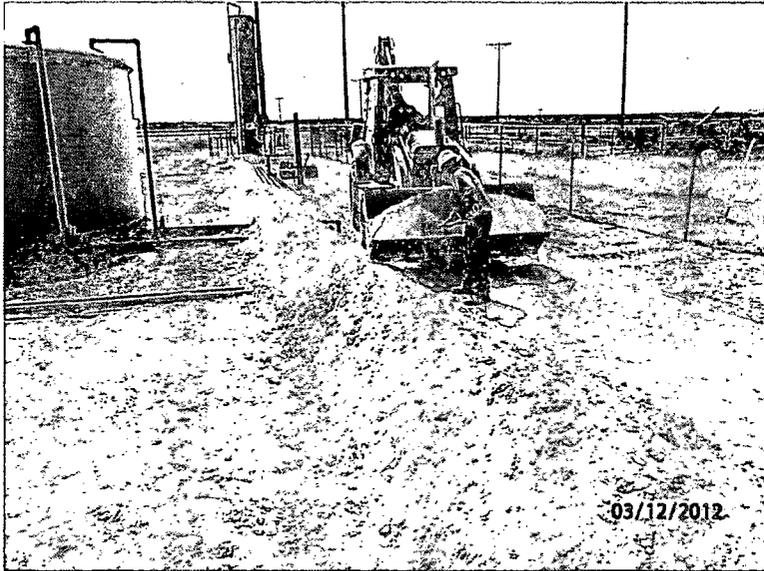
Backfilling, facing north

3/9/2012



Importing caliche, facing south

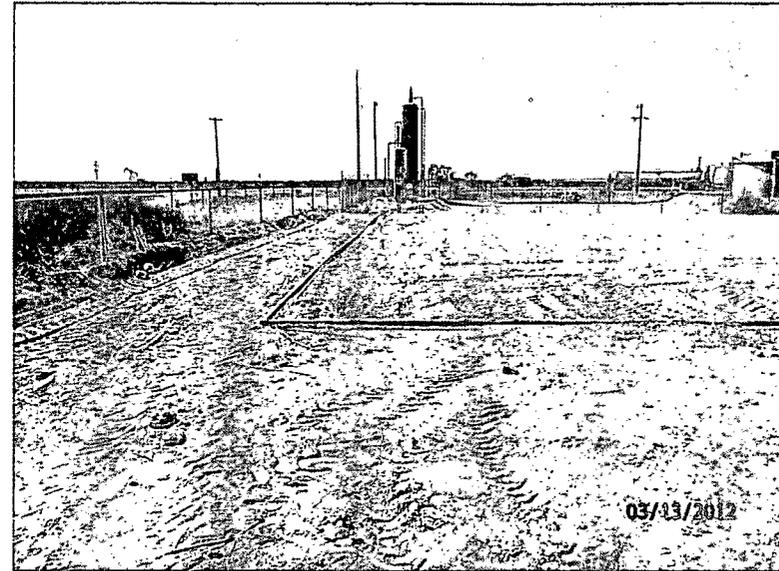
3/9/2012



03/12/2012

Rebuilding berms, facing south

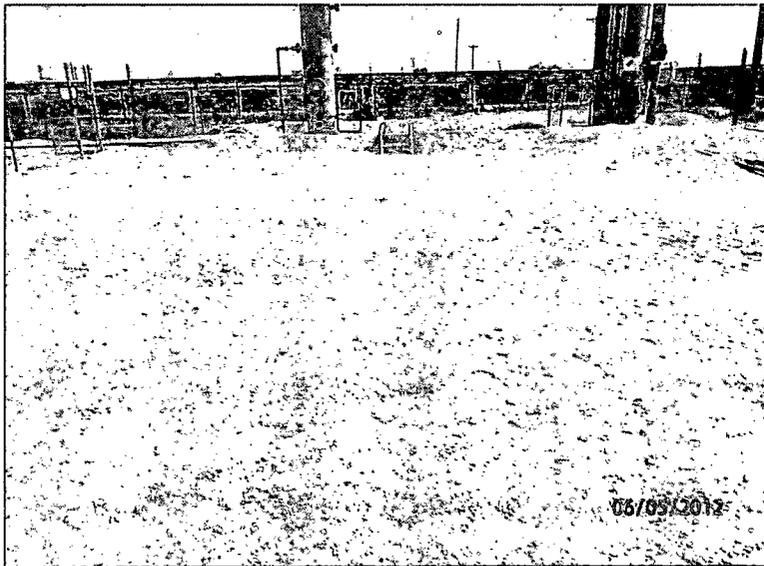
3/12/2012



03/13/2012

Site backfilled, facing west

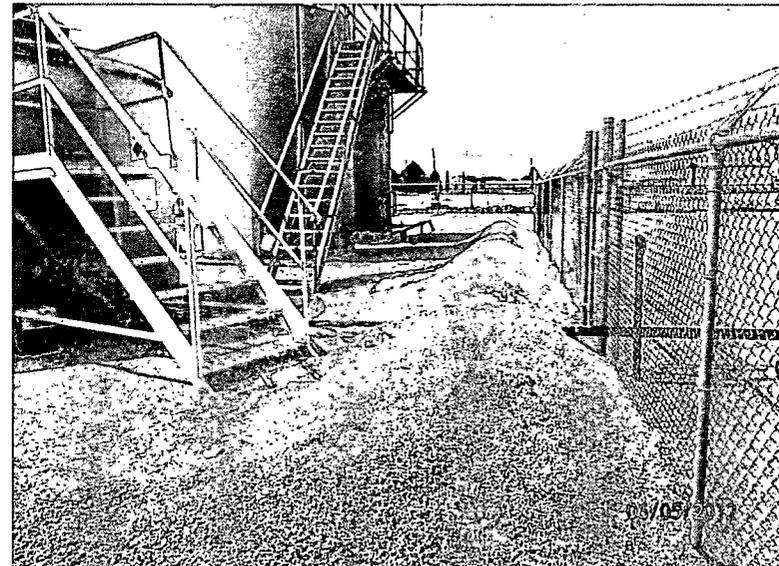
3/13/2012



06/05/2012

Site backfilled, facing south

6/5/2012



06/05/2012

Site backfilled, facing north

6/5/2012

# Appendix C

## Laboratory Results

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



February 21, 2012

NATALIE GLADDEN  
APACHE - EUNICE  
P. O. BOX 1849  
EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 02/16/12 16:10.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

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: 02/16/2012  
 Reported: 02/21/2012  
 Project Name: WHITE OWL BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS @ PT 1 (H200426-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>27800</b>	200	02/17/2012	ND	179	89.4	200	5.95		
<b>DRO &gt;C10-C28</b>	<b>44400</b>	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 367 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 167 % 57.6-158

**Sample ID: SS @ PT 2 (H200426-02)**

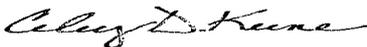
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>33000</b>	200	02/17/2012	ND	179	89.4	200	5.95		
<b>DRO &gt;C10-C28</b>	<b>40500</b>	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 405 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 124 % 57.6-158

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.



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: 02/16/2012  
 Reported: 02/21/2012  
 Project Name: WHITE OWL BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS @ PT 3 (H200426-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>16900</b>	200	02/17/2012	ND	179	89.4	200	5.95		
<b>DRO &gt;C10-C28</b>	<b>22800</b>	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 271 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 100 % 57.6-158

**Sample ID: SS @ PT 4 (H200426-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>28400</b>	200	02/17/2012	ND	179	89.4	200	5.95		
<b>DRO &gt;C10-C28</b>	<b>43300</b>	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 375 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 149 % 57.6-158

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: 02/16/2012  
 Reported: 02/21/2012  
 Project Name: WHITE OWL BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS @ PT 5 (H200426-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>23400</b>	200	02/17/2012	ND	179	89.4	200	5.95		
<b>DRO &gt;C10-C28</b>	<b>34200</b>	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 342 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 186 % 57.6-158

**Sample ID: SS @ PT 6 (H200426-06)**

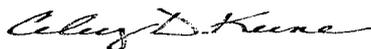
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>496</b>	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>29600</b>	200	02/17/2012	ND	179	89.4	200	5.95		
<b>DRO &gt;C10-C28</b>	<b>42700</b>	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 276 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 115 % 57.6-158

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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. Keene, Lab Director/Quality Manager



March 05, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 03/01/12 8:15.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/01/2012	Sampling Date:	02/29/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 5 PT BTM COMP ON PAD SCRAPE (H200543-01)**

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	03/02/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/03/2012	ND	192	96.2	200	3.12		
DRO >C10-C28	<10.0	10.0	03/03/2012	ND	157	78.5	200	2.75		
<i>Surrogate: 1-Chlorooctane</i>		<i>88.3 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>95.8 %</i>	<i>57.6-158</i>							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

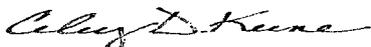
S-HI	High surrogate recovery was confirmed as a matrix effect by a second analysis.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B 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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

Company Name: <i>H. Parker</i>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>												
Project Manager: <i>Natalie Glick</i>		P.O. #:														
Address:		Company:														
City:	State:	Zip:	Attn:													
Phone #:	Fax #:	Address:														
Project #:	Project Owner:		City:													
Project Name: <i>White oval battery</i>			State:													Zip:
Project Location:			Phone #:													
Sampler Name: <i>Dale Harris</i>			Fax #:													
FOR LAB USE ONLY:													<i>CL</i> <i>TPH 8015</i>			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING						
<i>H200543</i>	<i>-1 Sgt bitmo corp on pad scrap</i>	<i>1</i>	<i>1</i>	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME		
						<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Dale Harris</i>	Date: <i>7/1/03</i>	Received By: <i>Natalie Glick</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>Natalie Glick done USA Sparkle corp. call B. Baker are nice H. Cardone nice</i>	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>DH</i>		
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			

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

*#26*

March 06, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 03/02/12 8:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/02/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NW CORNER BTM @ 1.6' (H200555-01)**

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	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		
<i>Surrogate: 1-Chlorooctane</i>		<i>105 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>111 %</i>	<i>57.6-158</i>							

**Sample ID: SE CORNER BTM @ 2' (H200555-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>128</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
<b>DRO &gt;C10-C28</b>	<b>15.3</b>	10.0	03/05/2012	ND	195	97.3	200	8.29		
<i>Surrogate: 1-Chlorooctane</i>		<i>98.4 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>107 %</i>	<i>57.6-158</i>							

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: 03/02/2012  
 Reported: 03/06/2012  
 Project Name: WHITE OWL BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/01/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: ON PAD SCRAPE N WALL W END (H200555-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		
<i>Surrogate: 1-Chlorooctane</i>		<i>98.9 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>109 %</i>	<i>57.6-158</i>							

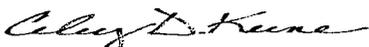
**Sample ID: ON PAD SCRAPE N WALL E END (H200555-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		
<i>Surrogate: 1-Chlorooctane</i>		<i>87.8 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>98.6 %</i>	<i>57.6-158</i>							

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: 03/02/2012  
 Reported: 03/06/2012  
 Project Name: WHITE OWL BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 03/01/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: ON PAD SCRAPE S WALL E END (H200555-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
<i>Surrogate: 1-Chlorooctane</i>	<i>95.4 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>57.6-158</i>							

**Sample ID: ON PAD SCRAPE S WALL W END (H200555-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
<i>Surrogate: 1-Chlorooctane</i>	<i>98.0 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>108 %</i>	<i>57.6-158</i>							

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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:	03/02/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: ON PAD SCRAPE W WALL CENTER (H200555-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		
<i>Surrogate: 1-Chlorooctane</i>		<i>94.5 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>105 %</i>	<i>57.6-158</i>							

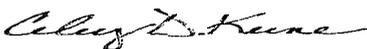
**Sample ID: ON PAD SCRAPE E WALL CENTER (H200555-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		
<i>Surrogate: 1-Chlorooctane</i>		<i>81.3 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>89.4 %</i>	<i>57.6-158</i>							

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\* = 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:	03/02/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: MIDDLE SCRAPE N WALL CENTER (H200555-09)**

Chloride, SM4500Cl-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	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		
<i>Surrogate: 1-Chlorooctane</i>		<i>92.1 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>102 %</i>	<i>57.6-158</i>							

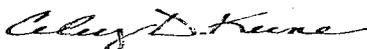
**Sample ID: MIDDLE SCRAPE E WALL N END (H200555-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>80.0</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		
<i>Surrogate: 1-Chlorooctane</i>		<i>101 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>107 %</i>	<i>57.6-158</i>							

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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:	03/02/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: MIDDLE SCRAPE E WALL S END (H200555-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		
<i>Surrogate: 1-Chlorooctane</i>		<i>100 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>96.6 %</i>	<i>57.6-158</i>							

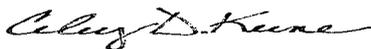
**Sample ID: MIDDLE SCRAPE S WALL CENTER (H200555-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<16.0	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		
<i>Surrogate: 1-Chlorooctane</i>		<i>106 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>114 %</i>	<i>57.6-158</i>							

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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:	03/02/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: MIDDLE SCRAPE W WALL N END (H200555-13)**

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	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		
<i>Surrogate: 1-Chlorooctane</i>		<i>106 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>113 %</i>	<i>57.6-158</i>							

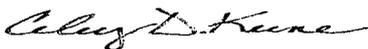
**Sample ID: MIDDLE SCRAPE W WALL S END (H200555-14)**

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	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		
<i>Surrogate: 1-Chlorooctane</i>		<i>87.0 %</i>	<i>55.5-154</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>74.3 %</i>	<i>57.6-158</i>							

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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:	03/02/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: MIDDLE SCRAPE 5 PT BTM COMP @ 3' (H200555-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>16.0</b>	16.0	03/05/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4		
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7		

<i>Surrogate: 1-Chlorooctane</i>	85.8 %	55.5-154
<i>Surrogate: 1-Chlorooctadecane</i>	83.3 %	57.6-158

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Celest D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

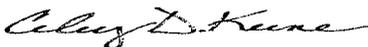
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																				
Project Manager: Natalie Gladden		P.O. #:		Company:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																															
Address:		City:		State: NM Zip:																	Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:									
Project #:		Project Owner:		Project Name: <i>White Owl Battery</i>																	Project Location: <i>Dakston Harris</i>		Sampler Name: <i>Dakston Harris</i>																			
FOR LAB USE ONLY		Lab I.D.		Sample I.D.																	GIRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV		SAMPLING															
																					GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:		DATE		TIME	
		<i>ADDRESS</i>		<i>Inside Tank Battery</i>																	<i>G 1</i>																		<i>3-1-12</i>		<i>1:05</i>	
		<i>- 1</i>		<i>N.W. Corner BHM e 1'6"</i>																	<i>G 1</i>																		<i>3-1-12</i>		<i>1:30</i>	
		<i>- 2</i>		<i>S.E. Corner BHM e 8'</i>																																						

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Relinquished By: <i>Dakston Harris</i>		Date: <i>3/1/12</i>	Received By: <i>Jodi Henson</i>	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 #:
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>JH</i>	
REMARKS: email results Natalie.Gladden@usa.apachecorp.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com					

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

*#26*



**CARDINAL LABORATORIES**

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Apache				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																													
Project Manager: Natalie Gladden				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																													
Address:				Company:																																	
City:		State: NM Zip:		Attn:																																	
Phone #:		Fax #:		Address:																																	
Project #:		Project Owner:		City:																																	
Project Name: <i>White ONL battery</i>				State: Zip:																																	
Project Location:				Phone #:																																	
Sampler Name: <i>Dakston Harris</i>				Fax #:																																	
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX														PRESERV		SAMPLING															
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
<i>H200555</i>		<i>ON pad scrape</i>		<i>G 1</i>																		<i>3-1-12</i>		<i>2:00</i>													
<i>3</i>		<i>N. Wall W. end</i>		<i>G 1</i>																		<i>3-1-12</i>		<i>2:05</i>													
<i>4</i>		<i>N. Wall E. end</i>		<i>G 1</i>																		<i>3-1-12</i>		<i>2:10</i>													
<i>5</i>		<i>S. Wall E. end</i>		<i>G 1</i>																		<i>3-1-12</i>		<i>2:15</i>													
<i>6</i>		<i>S. Wall W. end</i>		<i>G 1</i>																		<i>3-1-12</i>		<i>2:20</i>													
<i>7</i>		<i>N. Wall Center</i>		<i>G 1</i>																		<i>3-1-12</i>		<i>2:25</i>													
<i>8</i>		<i>E. Wall Center</i>		<i>O 1</i>																		<i>3-1-12</i>		<i>2:25</i>													

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Relinquished By: <i>Dakston Harris</i>		Date: <i>3/1/12</i>		Received By: <i>Jodi Newson</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <i>6:35</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email resultsNatalie Gladden@usa.apachecorp.com  Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com			
		Time:							
Delivered By: (Circle One)		Sample Condition		CHECKED BY:					
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		-20 <i>(Signature)</i>					

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

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 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Apache				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Natalie Gladden				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																			
Address:				Company:																							
City:		State: NM Zip:		Attn:																							
Phone #:		Fax #:		Address:																							
Project #:		Project Owner:		City:																							
Project Name: <i>White Owl Battery</i>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <i>Dakston Harris</i>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H200555	Middle scrape	G	1			✓				✓		3-1-12	3:00	✓	✓												
9	N. Wall center	G	1			✓				✓		3-1-12	3:05	✓	✓												
10	E. Wall N end	G	1			✓				✓		3-1-12	8:10	✓	✓												
11	E. Wall S end	G	1			✓				✓		3-1-12	3:15	✓	✓												
12	S. Wall center	G	1			✓				✓		3-1-12	3:20	✓	✓												
13	W. Wall N. end	G	1			✓				✓		3-1-12	3:25	✓	✓												
14	N. Wall S. end	G	1			✓				✓		3-1-12	3:30	✓	✓												
15	Spt. btwn comp @ 3'	C	1			✓				✓		3-1-12	3:30	✓	✓												

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Relinquished By: <i>Dakston Harris</i>		Date: <i>3/2/12</i>		Received By: <i>Jodi Henson</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <i>6:35</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:  email resultsNatalie Gladden@usa.apachecorp.com  Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		<i>[Signature]</i>			

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

#26

March 13, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 03/09/12 15:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

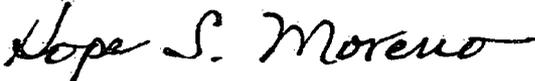
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Hope Moreno

Inorganic Technical Director

**Analytical Results For:**

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

Received:	03/09/2012	Sampling Date:	03/09/2012
Reported:	03/13/2012	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NADINE		

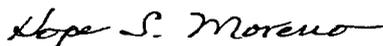
**Sample ID: BACKFILL (H200620-01)**

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/13/2012	ND	400	400	100	3.92	

Cardinal Laboratories

\* = Accredited Analyte

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Hope Moreno, Inorganic Technical Director

**Notes and Definitions**

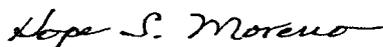
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director



**CARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Apache Corp.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																						
Project Manager: Natalie Gladden		P.O. #:		Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																						
Address: Apache Corp.		Company:																								
City: State: NM Zip:		Attn:																								
Phone #: Fax #:		Address:																								
Project #: Project Owner:		City:																								
Project Name: <i>White Owl pasture</i>		State: Zip:																								
Project Location: <i>NATIVE</i>		Phone #:																								
Sampler Name: <i>Roberto Rivera</i>		Fax #:																								
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS												MATRIX						PRESERV		SAMPLING		DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:														
<i>H2001020</i>	<i>1 BACKHILL</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<i>3-7-12</i>	<i>1:30</i>												

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Relinquished By: <i>Roberto Rivera</i>	Date: <i>3-9-12</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>3:35</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	zconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
Sampler - UPS - Bus - <u>Other</u>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>AP</i>	Hconder@riceswd.com; Bbaker@rice-ecs.com	
	<i>25°C</i>		Natalie.Gladden@usa.apachecorp.com	

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*#20*