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

1220 S. St. 17th	mare been			Sa.	nta Fe	, NM 875	05					and of form
	Marie and Societation - Barrie		Rele	ase Notific	ation	and Co	orrective A	ction		and the second s		and the second s
. The second of the second sec	en promitiga esse men militaria mangan se/s sertem	non mark alber orden encentral accessoration is the	ngeroom professor on the authority, the	a desira. Hi circini grado de 1844 popula de proposicio		OPERA:	ror		☐_Initia	al-Report-	X	Final Report
Name of Co	mpany	Apache (Sorp.			Contact	Bruce Baker			F		
Address		K 1849, Euni		8231	1	Telephone N	No. (432) 63	31-6982	2			
Facility Nan					F	acility Typ	e Production	on Facil	ity			
Surface Ow	ner IIr	iknown		Mineral O	wner S	State of NN	1		Lease N	lo. 30-025	-36689	
Burrace Ow.	iici Oi	IKHO WH	-						Lease 1	10. 30 023	30003	
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Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/V	Vest Line	County		
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			Lat	itude		_ Longitue	de					
						–						
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Source of Re		edge failure			···		lour of Occurrence			Hour of Dis		
Was Immedia	nte Notice (- -\	If YES, To						
		\boxtimes	Yes	No 🗌 Not Re	equirèd	Geoffrey L	Leking					
By Whom?	Natalie				7	Date and F						
Was a Water	course Read		Yes 🗵	l No		MIFYES, Vo	olume Impacting t	the Wate	ercourse.			
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	k		•			,			
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		em and Reme			المنت منا الدائدة				. 4 11			
Swedge on ci	reulating II	ne cracked du	e to corros	sion and caused fl	uia to rei	lease inside a	and outside of cor	ntainmen	it waiis.	*		
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*						+		
				nd also outside th								
				itive soil samples illed with clean ca			the excavations a	nd sent t	o a comme	rcial labora	tory for c	chloride and
				e is true and comp			knowledge and u	ınderstaı	nd that purs	suant to NM	IOCD ru	les and
regulations a	ll operators	are required t	o report ai	nd/or file certain r	elease no	otifications a	nd perform correc	ctive act	ions for rel	eases which	may end	danger
				ce of a C-141 repo								
				investigate and rotance of a C-141								
		ws and/or regi		hance of a C-141	·	oes not renev	ve the aperator of	гезропз.	ionity for c	omphanee	with any	Other
							OIL CON	SERV	ATION	DIVISIO	ON	
Signature:	Barre	ce Bruke	Λ				Arabo H	Mes	4	eRim	8.	
Signature.	7,000				-	Annroyed by	District Surervis	N			7	
Printed Name	e: Bruce	Baker				approved-09	District-Supervis	ronm	efftal-Sp	ecialist	4	
Title: Env	rironmental	Tech				Approval Da	te: 08/30/12	3	Expiration	Date:	a de la constanta	
E-mail Addre	ess: larry	y.baker@apac	hecorp.co	n		Conditions o	, , , , ,	_	-	Attached	i 🗌	

8-30-13

Phone: (432) 631-6982

VRP-06-14-3089



FEB 0 6 2014

RECEIVED

APACHE CORPORATION

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

White Owl Battery

Closure Report

API 30-025-36689

Release Date: February 15th, 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 27th, 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 17th, 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 16th, 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 29th, 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

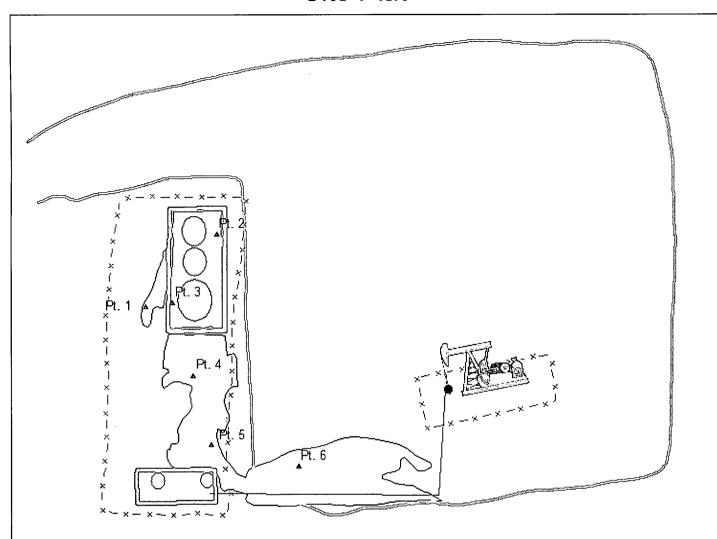
Figure 3: Site Plat with Bermed Area, Middle Scraped Area, and Caliche Pad

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

Site Plat



Legend

- WELL HEAD
- ▲ SAMPLE POINTS
- WELL HEAD

==== BERM

 $\times - \times$ FENCE

----- FLOW LINE

PAD

SEPARATOR

STAIN (3,791 sq ft)

TANK

INITIAL SAMPLING LAB DATA

Sample Description	CI-	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

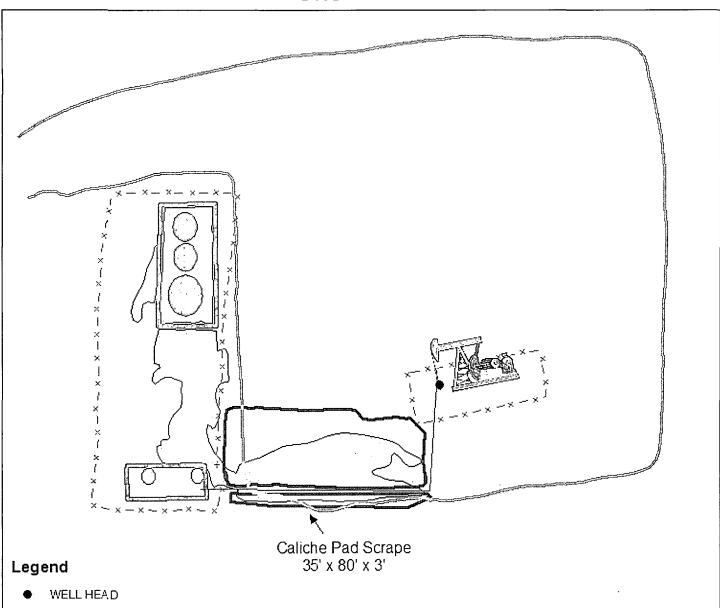
Figure 1

15 30 60

0 15 30 60 Feet

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

Site Plat



BERM

 $\times - \times$ FENCE

----- FLOW LINE

----- PAD

scrape on pad

SEPARATOR

STAIN (3,791 sq ft)

TANK

CALICHE PAD SCRAPE LAB DATA

Sample Description	CI-	GRO	DRÔ
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	N A
Figure 2	W S
0 15 30	60
	Feet
GPS date: 2/16/12	

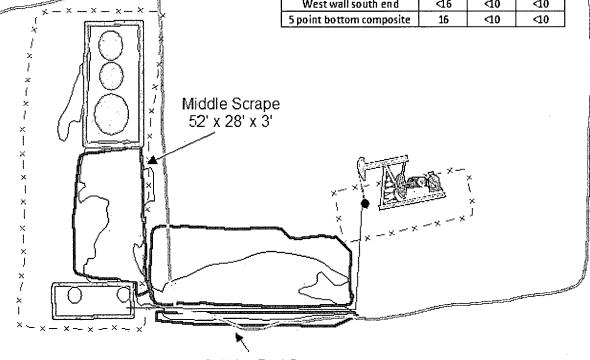
GPS date: 2/16/12 Drawing date: 3/15/12 Drafted by: L. Weinheimer

BERMED AREA LAB DATA

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

MIDDLE SCRAPE LAB DATA

Sample Description	CI-	GRO	DRO
North wall center	₫6	<10	<10
East wall north end	80	<10	<10
East wall south end	224	<10	<10
South wall center	<16	<10	₫0
West wall north end	<16	<10	⊴0
West wall south end	<16	<10	<10
5 point bottom composite	16	<10	<10



Caliche Pad Scrape 35' x 80' x 3'

Legend

WELL HEAD

BERM

× -× 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



0 15 30 60 Feet

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



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

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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

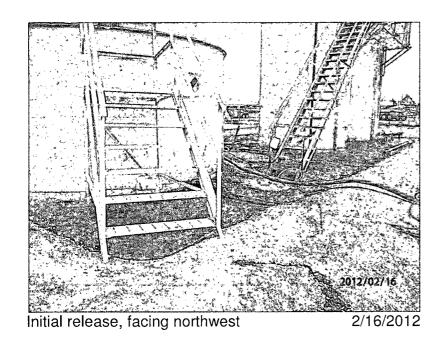
Release Notification and Corrective Action

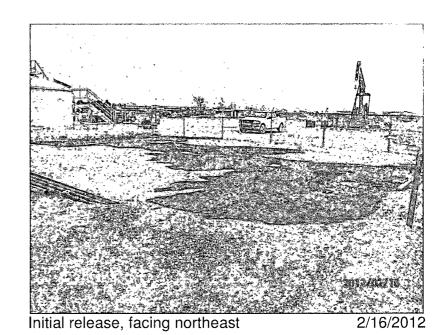
OPERATOR Initial Report					Final Report							
Name of Co	mpany A	pache Corpo	ration		(Contact Nat	alie Gladden					-
Address PC						Telephone N	No. 575-390-41	86				
Facility Nan	ne White	Owl Bty (ne	arest wel	1#001)]	Facility Typ	e Production Fa	acility				
Surface Own	ner Unkn	own		Mineral O	wner S	State of NM			Lease N	lo. 30-025-	36689	9
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
D	2	20S	38E	582'	FNL		330'	FWL		Lea		
			La	titude		Longitud	e					
NATURE OF RELEASE Type of Release Oil Volume of Release 150bbls Source of Release Swedge Failure Date and Hour of Occurrence 2/15/12 Was Immediate Notice Given? If YES, To Whom? Geoffrey Leking By Whom? Natalie Gladden Date and Hour 2/15/12 449pm												
Type of Relea	ase Oil			1112					Volume F	Recovered 7:	5bbls	
		lge Failure				Date and H			Date and			
Was Immedia	te Notice (Given?					Whom?					
		Yes No Not Required Geoffrey Leking talie Gladden Date and Hour 2/15/12 449pm										
		Volume of Release 150bbls Volume Recovered 75th asse Swedge Failure Date and Hour of Occurrence 2/15/12 Date and Hour of Disco 2/15/12 e Notice Given? Yes No Not Required Geoffrey Leking Date and Hour 2/15/12 449pm If YES, Volume Impacting the Watercourse.										
Was a Watero	course Read	e Gladden Reached? ☐ Yes ☒ No Date and Hour 2/15/12 449pm If YES, Volume Impacting the Watercourse.										
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*								
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*								
Swedge on ci	rculating li	ne cracked du	e to corro	sion and caused flu	iid to re	lease inside a	nd outside of con	tainmer	t walls.			
Describe Are												
Fluid was rec	overed and	remediation l	has begun	and NMOCD Stan	idards v	vill be follow	ed to closure.					1
I hereby certi	fy that the i	information g	iven above	is true and compl	ete to th	ne best of my	knowledge and u	ndersta	nd that purs	suant to NM()CD n	ules and
				nd/or file certain re ce of a C-141 repor								
should their o	perations h	ave failed to	adequately	investigate and re	mediate	e contaminati	on that pose a thr	eat to g	ound water	r, surface wat	ter, hui	man health
				otance of a C-141 r	eport de	oes not reliev	e the operator of	respons	ibility for c	ompliance w	ith any	other
federal, state,	or local lav	ws and/or regi	ulations.				OIL COM	CEDI	ATIONI	DIVIGIO		
	h	ani (add ou	/		OIL CON	SERV	ATION	DIVISIO	<u>'1N</u>	
Signature:	_ JAA	me !										Ì
Printed Name	: Natalie (Gladden				Approved by	District Supervis	or:				
Title: EHS E	nvironmen	tal Tech				Approval Dat	e:	•	Expiration	Date:		
E-mail Addre		·	checom c	· ·		Conditions of						
						COHUMBUHS OF	Approvat.			Attached		
Date: 2/17/	12	Phone: 575	-390 - 4186)								

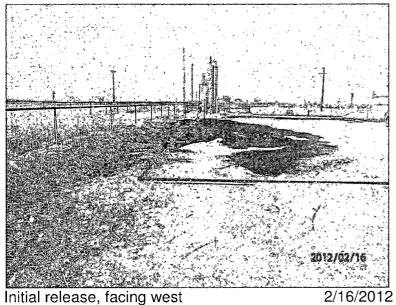
^{*} Attach Additional Sheets If Necessary

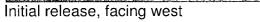
Appendix B Site Photographs

White Owl Battery Unit Letter D, Section 2, T21S R37E

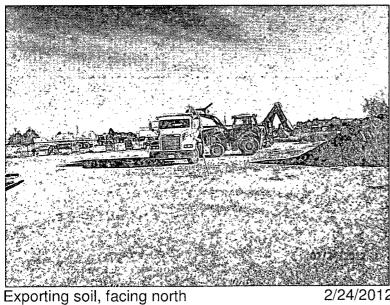




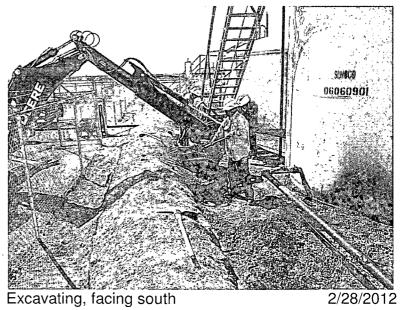




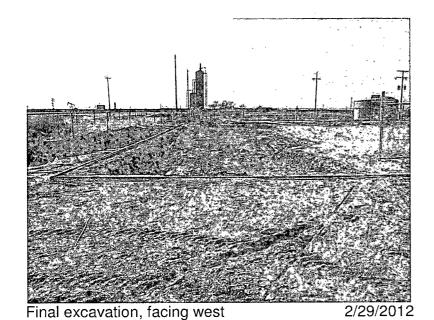


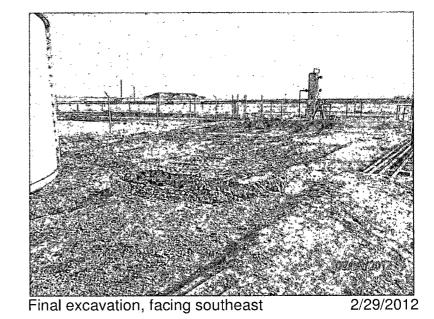


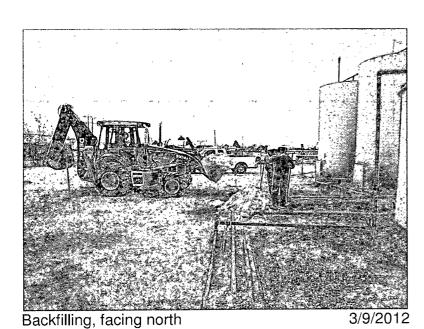


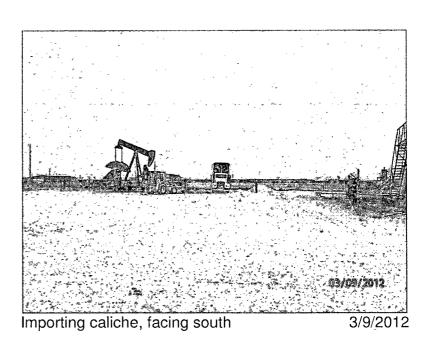


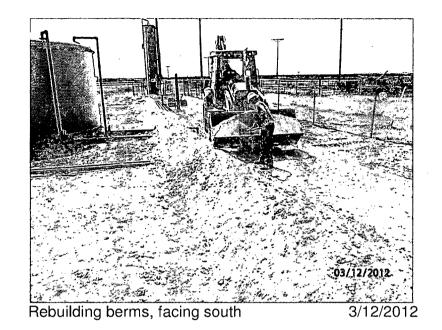
Excavating, facing south

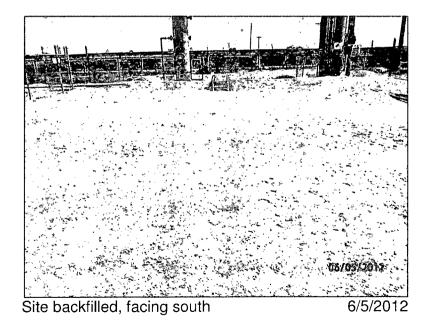


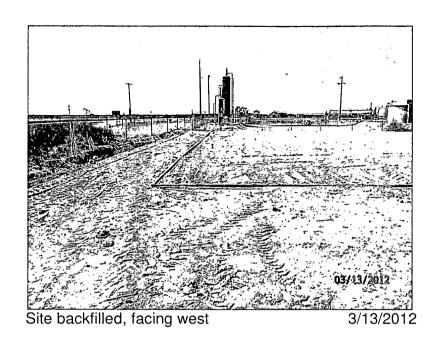


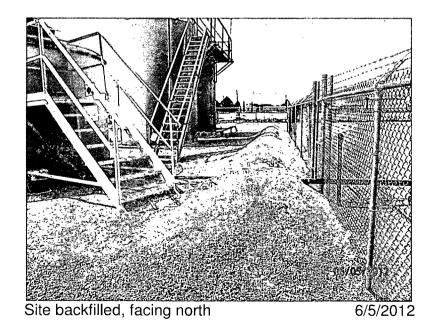












Appendix C Laboratory Results

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 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: Reported: 02/16/2012

02/21/2012

Project Name:

WHITE OWL BATTERY AD

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

124%

57.6-158

Sampling Date:

Sampling Type:

02/16/2012 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	27800	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	44400	200	02/17/2012	ND	176	88.2	200	7.64	
Surrogate: 1-Chlorooctane	367	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	167	% 57.6-15	8						

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

Chloride, SM4500Cl-8	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	33000	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	40500	200	02/17/2012	ND	176	88.2	200	7.64	
Surrogate: 1-Chlorooctane	405	% 55.5-15	4						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim anising, 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.

Celey & Keene



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

Received: Reported: 02/16/2012

02/21/2012

Project Name: Project Number: WHITE OWL BATTERY AD

Project Location:

NONE GIVEN

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)

Chlamida CM4E00CL B

mg,	kg	Anaiyze	d BY: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	02/20/2012	ND	416	104	400	3.92	
. mg	/kg	Analyze	d By: MS	,				S-04
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16900	200	02/17/2012	ND	179	89.4	200	5.95	
22800	200	02/17/2012	ND	176	88.2	200	7.64	
	Result 64.0 mg, Result 16900	Result Reporting Limit 64.0 16.0 mg/kg Result Reporting Limit 16900 200	Result Reporting Limit Analyzed 64.0 16.0 02/20/2012 mg/kg Analyzed Result Reporting Limit Analyzed 16900 200 02/17/2012	64.0 16.0 02/20/2012 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank 16900 200 02/17/2012 ND	Result Reporting Limit Analyzed Method Blank BS 64.0 16.0 02/20/2012 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS 16900 200 02/17/2012 ND 179	Result Reporting Limit Analyzed Method Blank BS % Recovery 64.0 16.0 02/20/2012 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery 16900 200 02/17/2012 ND 179 89.4	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 64.0 16.0 02/20/2012 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 16900 200 02/17/2012 ND 179 89.4 200	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 64.0 16.0 02/20/2012 ND 416 104 400 3.92 Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16900 200 02/17/2012 ND 179 89.4 200 5.95

Surrogate: 1-Chlorooctane

271 %

55.5-154

Surrogate: 1-Chlorooctadecane

100 %

149 %

57.6-158

57.6-158

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

				d By: AP	Analyze	/kg	mg/	Chloride, SM4500CI-B
RPD	True Value QC	% Recovery	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
3.92	400	104	416	ND	02/20/2012	16.0	112	Chloride
				d By: MS	Analyze	/kg	mg/	TPH 8015M
RPD	True Value QC	% Recovery	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
5.95	200	89.4	179	ND	02/17/2012	200	28400	GRO C6-C10
7.64	200	88.2	176	ND	02/17/2012	200	43300	DRO >C10-C28
					• •			DRO >C10-C28
2 5	3.92 RPD 5.95	400 3.92 True Value QC RPC 200 5.99	104 400 3.92 % Recovery True Value QC RPE 89.4 200 5.99	416 104 400 3.92 BS % Recovery True Value QC RPD 179 89.4 200 5.99	Method Blank BS % Recovery True Value QC RPD ND 416 104 400 3.92 at By: MS Method Blank BS % Recovery True Value QC RPD ND 179 89.4 200 5.95	02/20/2012 ND 416 104 400 3.92 Analyzed By: MS Analyzed Method Blank BS % Recovery True Value QC RPD 02/17/2012 ND 179 89.4 200 5.99	Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 02/20/2012 ND 416 104 400 3.92 Kg Analyzed By: MS Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 200 02/17/2012 ND 179 89.4 200 5.99	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 112 16.0 02/20/2012 ND 416 104 400 3.92 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 28400 200 02/17/2012 ND 179 89.4 200 5.99

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=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 general 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.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



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

Received:

02/16/2012

Sampling Date:

02/16/2012

Reported:

02/21/2012

Sampling Type:

Soil

Project Name:

WHITE OWL BATTERY AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

NOT GIVEN

Jodi Henson

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	23400	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	34200	200	02/17/2012	ND	176	88.2	200	7.64	
Surrogate: I-Chlorooctane	342	% 55.5-15	:4						

Surrogate: 1-Chlorooctadecane

186 %

57.6-158

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	29600	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	42700	200	02/17/2012	ND	176	88.2	200	7.64	
Surrogate: 1-Chlorooctane	276	% 55.5-15	4						

Surrogate: 1-Chlorooctadecane

115 %

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 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 & Keine



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

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

Company Name										B	IL	L TO						ANA	LYSIS	RE	QUES	ST			
Project Manage	Pr: Natalie Gladden							P.O.	.#.																
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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 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 & Keens

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: Reported:

03/01/2012

03/05/2012

WHITE OWL BATTERY AD

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Compling Tunes

02/29/2012 Soil

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	88.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	95.8	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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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.

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: Reported: 03/02/2012

03/06/2012

Project Name:

WHITE OWL BATTERY AD

Project Number: Project Location:

NONE GIVEN

Sampling Date:

03/01/2012

Sampling Type:

Soil Cool & Intact

Sampling Condition:

and the

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	105	% 55.5-15	4 .						
Surrogate: 1-Chlorooctadecane	111	% 57.6-15	8						

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	15.3	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	98.4	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	107	% 57.6-15	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



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

Received: Reported: 03/02/2012

03/06/2012

Project Name:

WHITE OWL BATTERY AD

Project Number: Project Location: NONE GIVEN

Sampling Date:

03/01/2012

Sampling Type:

Soil

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

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	98.9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	109	% 57.6-15	8						

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank .	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	87.8	% 55.5-15	4	-					
Surrogate: 1-Chlorooctadecane	98.6	% 57.6-15	8						

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 subcidaries, 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 L. Keene



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 S WALL E END (H200555-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg.	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	95.4	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	102	% 57.6-15	8						

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	98.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108	% 57.6-15	8						

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Celeg E. Keene



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	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: I-Chlorooctane	94.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	105	% 57.6-15	8						

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	81.3	% 55.5-15	4		-				
Surrogate: 1-Chlorooctadecane	89.4	% 57.6-15	8						

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Received:

03/02/2012

Sampling Date:

03/01/2012

Reported:

03/02/2012

Sampling Type:

Soil

Project Name:

WHITE OWL BATTERY AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

102 %

57.6-158

Sample Received By:

Jodi Henson

Project Location:

Surrogate: 1-Chlorooctadecane

NOT GIVEN

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98:2	200	16.7	
Surrogate: 1-Chlorooctane	92.1	% 55.5-15	4						****

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: I-Chlorooctane	101	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	107	% 57.6-15	8						

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Received: Reported: 03/02/2012

03/06/2012

Project Name: Project Number: WHITE OWL BATTERY AD

Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Soil Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

03/01/2012

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	100 :	% 55.5-15	4					·	
Surrogate: 1-Chlorooctadecane	96.6	% 57.6-15	8						

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane	106	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	114	% 57.6-15	8						

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

Received: Reported: 03/02/2012

03/06/2012

Project Name: Project Number: WHITE OWL BATTERY AD 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: MIDDLE SCRAPE W WALL N END (H200555-13)

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	015M mg/kg		03/05/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	
Surrogate: 1-Chlorooctane	106	% 55.5-15	4						
Surrogate: I-Chlorooctadecane	113	% 57.6-15	8				•		

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane	87.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	74.3	% 57.6-15	8						

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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: Project Location:

NONE GIVEN

NOT GIVEN

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	. 200	16.7	
Surrogate: 1-Chlorooctane	85.8	% 55.5-15	4	·					
Surrogate: 1-Chlorooctadecane	83.3	% 57.6-15	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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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	: Apachie		1	-, -								ownskiery Communication	i.i				ANAI	YSIS	RE	QUE	ST			
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	nd Damages. Cardinal's liability and client's exclusive remedy for															L	I	L	L	<u> </u>	L		<u> </u>	·
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Sampler - UPS	- Bus - Other:	1	- 2		⊉√es □ No	H	Yes No		UŽ.	7														

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL 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

Company Name	ripache						\$2.01 121(3)	11.111111111111111111111111111111111111	BI	LL TO		:::				ANA	LYSIS	RE	QUE	ST			
Project Manage	Natalie Gladden						P.0	O. #:															
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City:	State: NM	Zip	:				Att	tn:	<u> </u>			_	1	1		0				ļ		Ì	
Phone #:	Fax #:					, -	Ad	dres	s:		·	_				\ \ \ \							
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Sampler Name:	Dakston Harris			,			Fa	x #:				1≍	II	m	×	O	 -						
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL 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

Company Name	, republic.			<u> </u>				iii.iii		BI	LL	<i>TO</i>		did and					ANA	YSIS	RE	QUE	ST			
Project Manage	r: Natalie Gladden							P.C). #:						П											
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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.

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.

Lope S. Moreno

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



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

Fax To:

394-2425

Received: Reported: 03/09/2012

03/13/2012

Project Name: Project Number: WHITE OWL BATTERY AD

Project Location:

NONE GIVEN

NADINE

Sampling Date:

03/09/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Amanda Ponce

Sample ID: BACKFILL (H200620-01)

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

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 waved 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

Lope S. Moreno



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

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Lope S. Moreno

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name: Apache Corp.								BILL TO						ANALYSIS REQUEST										
Project Manager: Natalie Gladden							Р.	O. II	1:		AND A CONTRACTOR	***************************************	T			11.74.0,141	Participant of the Participant o				No. Camalille			
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Project#:	Project Owner:							City:						≥		エ	//S							
Project Name: White OUI MILEN							S	State: Zip:					ě	15	\times	TPH	on							
Project Location: WASTA							PI	Phone #:					Chlorides	H 801	BTEX	exas	Cati	TDS						
Sampler Name: (1) (1) (1)							F	Fax #:																
FOR LABUSE ONLY		(C)OMP.	S	ir i a	MAT	RIX		PR	ESE	RV.	SAMPL	NG		TPH		Te	Complete Cations/Anions							
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analyses. All claims including service. In no event shall Co	d Domages, Cardinal's flability and client's exclusive remedy for a g flose for negligence and any other cause whatsoever shall be utilinal be Yable for incidental or consequential damages, including ig out of or related to the performance of services hereunder by C	deemed Withou	l waive Liimitat	unless ion, busi	made in ness inte	wnting gruptic	and rec	aived t of use,	oy Card , or loss	anal w s of pr	etnin 30 days afte ofts incurred by e	r completion of t dient, its subsidia	ne, apptica aries	tle.										
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476