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

FEB 0 6 2014

**HOBBS OCD** 

Form C-141 Revised October 10, 2003

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

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

Santa Fe, NM 87505 RECEIVED

Release Notification and Corrective Action

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		OPERA?	ΓOR		-     Initi:	al Report	$\boxtimes$	Final Report
Name of Co	mpany	Apache (	Corp.			Contact	Bruce Baker			ur resport		- Indi Report
Address		ox 1849, Eu		1, 88231		Telephone 1			2			
Facility Nat		J Satellite #2				Facility Typ						
Surface Ow	ner Le	asee-McNei	l	Mineral C	wner	State of NM	ſ		API No	. 30-025-06	5461	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/\	West Line	County		
Е	10	21S	37E	1980	FNL		990	FWL		Lea		
			Lat	itude		Longitu	de					
				NAT	URE	OF REL	EASE					
Type of Rele						Volume of	Release 45 bbl		Volume I	Recovered 4	0 bbl	
Source of Re	lease Flo	w line				Date and F 2/15/12	lour of Occurrence	e	Date and 2/15/12	Hour of Disc	overy	
Was Immedia	ate Notice (		Yes [	No Not Re	equired	If YES, To		-				
By Whom?	Natalie	Gladden				Date and H	Hour 2/15/12	4:49 pm	1			
Was a Water	course Read	ched?	Yes ⊠	] No		If YES, Vo	olume Impacting t	he Wat	ercourse.			
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*								
									١	DTW=58	رخ	
		em and Reme										
Flow line bus	sted due to	corrosion. Li	ie was rep	aired and fluid wa	as recov	vered.						
		and Cleanup			:1		NMOCD among	rad diam	anal facility	. Dommonomt	otivo a	ما مسسامه
				and. Impacted so a commercial laborate								
				urrounding area.	·							
				e is true and comp								
				nd/or file certain r ce of a C-141 repo								
				y investigate and r								
or the enviro	nment. In a	ddition, NMC	OCD accer	otance of a C-141								
federal, state	, or local la	ws and/or regi	ilations.				OIL CON	SERI	ATION	DIVISIO	NI	
	0.						OIL CON	NL.				
Signature:	Bruce	e Bah	<u>~</u>				200 J	COC	lly	ZORU	$\sim$	4
Printed Name	e: Bruce	Baker				Approved by	District Supervis	nviro	nmental	Specialis		<u> </u>
Title: Env	rironmental	Tech				Approval Da	te: 02  06   14		Expiration	Date: -		
E-mail Addre		.baker@apacl	ecom cor	n		Conditions o	f Annroyal·					
						Conditions 0	i Appiovai.			Attached		
Date:	B ~ 30	1-13	Phone	: (432) 631-6982						1RP. 04	·- }4·	3096

f

MSAD1417751080

<sup>\*</sup> Attach Additional Sheets If Necessary



**HOBBS OCD** 

FEB 06 2014

RECEIVED

## APACHE CORPORATION

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

# NEDU Satellite #2

# Closure Report

API 30-025-06461

Release Date: February 15, 2012

Unit Letter E, Section 10, Township 21S, Range 37E

#### 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 – NEDU Satellite #2 AD UL/E sec. 10 T21S R37E API No. 30-025-06461

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 hydrocarbon fluids associated with the NEDU Satellite #2. A flow line ruptured and released fluids into an area of pasture land. The line was repaired, and standing fluids were recovered. An initial form C-141 was submitted by Apache Corporation on February 17, 2012 (Appendix A). The site is located north of Eunice in unit letter 'E' of section 10, T21S, R37E in Lea County, New Mexico. According to the NM Office of the State Engineer and the U.S. Geological Survey (USGS), depth to groundwater in the area approximates 50 ft bgs.

On February 16, 2012, RECS personnel initiated work on the NEDU Satellite #2 (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 C). Chloride ranged from 1,060 ppm (parts per million or mg/kg) to 1,740 ppm. TPH ranged from 39,700 ppm to 55,400 ppm.

Impacted soils were removed in three (3) major excavations due to variable constituent depths and the number and array of flow lines at the leak site. The excavations did not extend beneath the juncture of flow lines at the south end of the leak area or between the 7' and 15' deep excavations for reasons of excavation safety in proximity to a flow line and the potential for utility damage. However, saturated surface soils within these flow line junctures were removed by shovel crew.

On March 9, 2012, RECS personnel collected and field tested soil samples from the floor and walls of each excavation (Figure 2). All floor composite samples and wall grab samples from walls not supporting a flow line utility were submitted to a laboratory for analyses (Appendix C). In the 4 ft. deep and 15 ft. deep excavations, chloride did not exceed 128 ppm and TPH did not exceed 40.2 ppm. In the 7 ft. deep excavation, chloride was not more than 304 ppm and TPH was not more than 20.8 ppm.

Impacted soils were removed to a NMOCD approved disposal facility. The excavations were backfilled with imported caliche to 4 ft. below ground surface. The remaining 4 ft. was backfilled with imported topsoil and contoured to the surrounding area. See Appendix B for photographs of field activities.

#### Conclusion

Due to Apache's efforts in the removal of the majority of impacted soils while maintaining safe work practices, Apache submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

RECS 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 including Initial Sampling Lab Data

Figure 2:

Site Plat including Final Excavation Lab Data

Appendix B:

Appendix A: Initial Form C-141

Site Photographs

Appendix C:

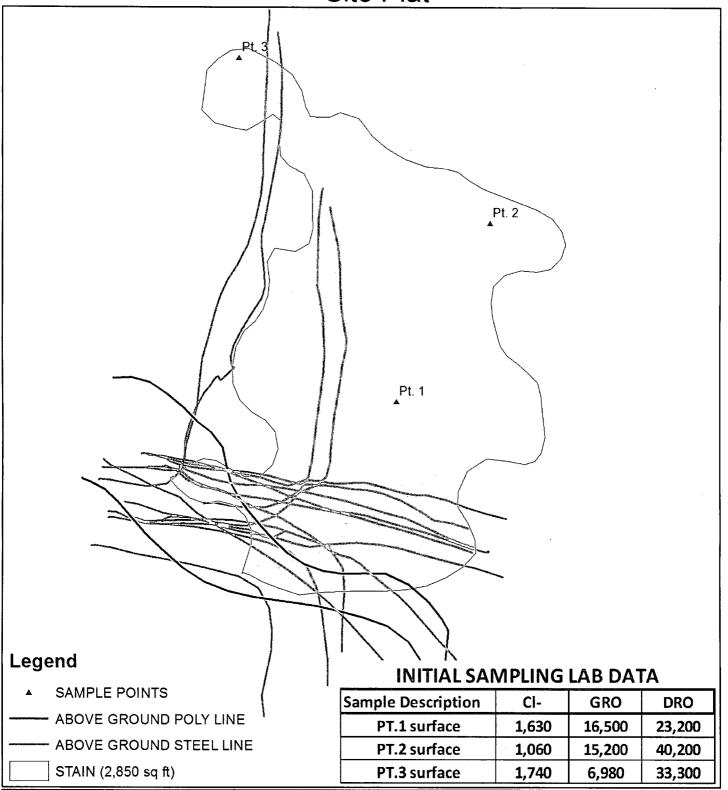
Laboratory Results

Appendix D: Final Form C-141



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

## Site Plat



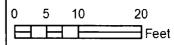


## APACHE NEDU SAT #2 AD

LEGALS: UL/E sec. 10 T-21-S R-37-E LEA COUNTY, NM

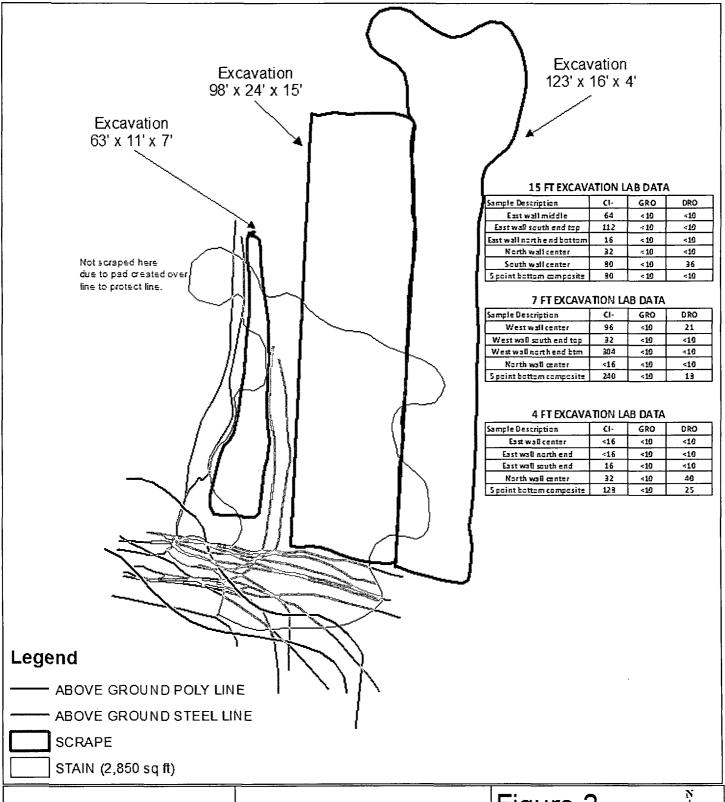
## Figure 1





GPS date: 3/9/12 DH Drawing date: 3/9/12 Drafted by: L. Weinheimer

### Site Plat





## APACHE NEDU SAT #2 AD

LEGALS: UL/E sec. 10 T-21-S R-37-E LEA COUNTY, NM

## Figure 2



GPS date: 3/9/12 DH Drawing date: 3/9/12 Drafted by: L. Weinheimer



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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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised October 10, 2003 ubmit 2 Copies to appropriate

Form C-141

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 NEDU Sat #2 (nearest well #402) Facility Type Production Well Mineral Owner State of NM Surface Owner Leasee-McNeil Lease No. 30-025-06461 LOCATION OF RELEASE North/South Line Unit Letter Section Township Range Feet from the Feet from the East/West Line County 1980' FNL 990' 10 **21S** 37E **FWL** Lea Latitude Longitude NATURE OF RELEASE Volume Recovered 40 Type of Release Oil Volume of Release 45 Source of Release Flowline Date and Hour of Occurrence Date and Hour of Discovery 2/15/12 2/15/12 If YES, To Whom? Was Immediate Notice Given? Geoffrey Leking Date and Hour 2/15/02 449pm By Whom? Natalie Gladden If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Flowline busted due to corrosion. Line was repaired and fluid was recovered. Describe Area Affected and Cleanup Action Taken.\* Site will be remediated to NMOCD Standards. 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. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Natalie Gladden Title: EHS Environmental Tech Approval Date: **Expiration Date:** E-mail Address: natalie.gladden@apachecorp.com Conditions of Approval: Attached

Date: 2/17/12

Phone: 575-390-4186

<sup>\*</sup> Attach Additional Sheets If Necessary

# Appendix B Laboratory Analyses

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: NEDU SATELLITE #2 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

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:

02/16/2012

Sampling Date:

02/16/2012

Reported:

02/21/2012

Sampling Type:

Soil

Project Name:

NEDU SATELLITE #2 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

176 %

57.6-158

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: SS @ PT 1 (H200427-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16500	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	23200	200	02/17/2012	ND	176	88.2	200	7.64	
Surrogate: 1-Chlorooctane	257	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	126	% 57.6-15	8						

#### Sample ID: SS @ PT 2 (H200427-02)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	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	15200	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	40200	200	02/17/2012	ND	176	88.2	200	7.64	
Surrogate: 1-Chlorooctane	345 9	% 55.5-15	4						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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, 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



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:

NEDU SATELLITE #2 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SS @ PT 3 (H200427-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1740	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	6980	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	33300	200	02/17/2012	ND	176	88.2	200	7.64	
Surrogate: 1-Chlorooctane	289	% 55.5-15	4			<u> </u>			***************************************

Surrogate: 1-Chlorooctane 289 % 55.5-154
Surrogate: 1-Chlorooctadecane 112 % 57.6-158

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients 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. 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	Apacite Corp.									BI	LL TO		ļ			-	ANA	LYSIS	RE	QUE	ST			
Project Manage	<sup>r:</sup> Natalie Gladden						F	.O. i	#:					T										
Address:							c	omį	oany	<i>ı</i> :						ļ	2				j			
City:	State:	Zip	:	<b></b>			A	ttn:									o							
Phone #:	Fax #:		· · · · · ·			,	Δ	ddr	ess:				_[				Cations/Anions							1
Project #:	Project Owne	r:					c	ity:						≥		工	1/8							
Project Name:							_ <u> s</u>	tate	:		Zip:	***	ě	8015	×	은	5							
Project Location	n: NEDU Salalye #2	A	<u>(i</u>				P	hon	e#:				<u>\</u>	lò	BTEX	S	蒙	TDS						
Sampler Name:	n: NEDU Sortalité #2						F	ax#			·		Chlorides	~	<u>B</u>	Texas TPH	Ö	-						
FOR LAB USE ONLY	,			—	MAT	RIX	<del></del>	PF	RESE	RV.	SAMPL	ING	O	표		le le	e e							
Lab I.D. H200427	Sample I.D.  SS @ PF I  SS @ PF J  SS @ PF 3	COMP.	#CONTAINERS	GROUNDWATER	WASTEWATER   V \ \ SOIL	Oil	SLUDGE	ACID/BASE	/ / ce/coor	ОТНЕК:	DATE 2-16-12 2-16-12	TIME 11:40 11:45 11:50					Complete							
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service, in no event shall C	ng those for negligence and any other cause whatsever shall be ardinal be liable for incidental or consequental damages, includin ng out of or related to the performance of segmes, hereunder by	g withou	t limitati	on, bu	siness inte	rruptio	ns, koss	of use	, or tos	s of pr	ofits incurred by	client, İts subsidir	iries	ble										
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Delivered By	: (Circle One)			S	ample (	Cond	litior		СН	ECK	ĘD BY:	Žcon								ice-e	cs.c	om;		
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



March 14, 2012

NATALIE GLADDEN

APACHE - EUNICE

P.O. BOX 1849

**EUNICE, NM 88231** 

RE: NEDU SATELLITE #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 03/09/12 16:30.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celey D. 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** 394-2425 Fax To:

Received: Reported: 03/09/2012

03/14/2012

Project Name: Project Number: **NEDU SATELLITE #2 AD** 

Project Location:

NOT GIVEN

NONE GIVEN

Sampling Date:

03/09/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: EXC @ 4 - E WALL CENTER (H200621-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	
Surrogate: 1-Chlorooctane	96.6	% 55.5-15	4	-					
Surrogate: 1-Chlorooctadecane	109	% 57.6-15	8						

#### Sample ID: EXC @ 4 - E WALL N END (H200621-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	
Surrogate: 1-Chlorooctane	90.4	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	96.2	% 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 Clardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keene



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

Fax To:

394-2425

Received: Reported:

03/09/2012

03/14/2012

Project Name: Project Number: NEDU SATELLITE #2 AD

Project Location:

Surrogate: 1-Chlorooctadecane

NONE GIVEN

107 %

57.6-158

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

03/09/2012

Sample Received By:

Jodi Henson

#### Sample ID: EXC @ 4 - E WALL S END (H200621-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	
Surrogate: 1-Chlorooctane	97.0	% 55.5-15	4						

#### Sample ID: EXC @ 4 - N WALL CENTER (H200621-04)

Chloride, SM4S00CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	40.2	10.0	03/13/2012	ND	164	81.8	200	11.0	
Surrogate: 1-Chlorooctane	108	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	118	% 57.6-15	8						

#### Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keine



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:

03/14/2012

Sampling Type:

Soil

Project Name:

NEDU SATELLITE #2 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: EXC @ 4 - 5 PT BTM COMP @ 4' (H200621-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	24.9	10.0	03/13/2012	ND	164	81.8	200	11.0	

Surrogate: 1-Chlorooctane

106 %

55.5-154

Surrogate: 1-Chlorooctadecane

104%

57.6-158

#### Sample ID: EXC @ 15 - E WALL MIDDLE (H200621-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	
Surrogate: 1-Chlorooctane	80.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	83.2	% 57.6-15	8						

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Received:

03/09/2012

Sampling Date:

03/09/2012

Reported:

Sampling Type:

Soil

Project Name:

03/14/2012

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

**NEDU SATELLITE #2 AD** 

Sample Received By:

Jodi Henson

Project Location:

Surrogate: 1-Chlorooctadecane

NOT GIVEN

Sample ID: EXC @ 15 - E WALL S END TOP (H200621-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	
Surrogate: 1-Chlorooctane	94.8	% 55.5-15	4						

#### Sample ID: EXC @ 15 - E WALL N END BOTTOM (H200621-08)

99.4%

57.6-158

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte '	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	
Surrogate: 1-Chlorooctane	96.8	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108	% 57.6-15	8						

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Received:

03/09/2012

Sampling Date:

03/09/2012

Reported:

Sampling Type:

Soil

Project Name:

03/14/2012

Sampling Condition:

Cool & Intact

Project Number:

**NEDU SATELLITE #2 AD** NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: EXC @ 15 - N WALL CENTER (H200621-09)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP				······		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2012	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	03/13/2012	ND	181	90.3	200	11.7	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	164	81.8	200	11.0	

Surrogate: 1-Chlorooctane

104%

55.5-154

Surrogate: I-Chlorooctadecane

110%

57.6-158

#### Sample ID: EXC @ 15 - S WALL CENTER (H200621-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	35.6	10.0	03/13/2012	ND	197	98.5	200	12.2	

Surrogate: 1-Chlorooctane

86 5 %

55 5-154

Surrogate: 1-Chlorooctadecane

98.3 %

57.6-158

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Received:

03/09/2012

Sampling Date:

03/09/2012

Reported:

03/14/2012

Sampling Type:

Soil

Project Name:

**NEDU SATELLITE #2 AD** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: EXC @ 15 - 5 PT BTM COMP @ 15' (H200621-11)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate: 1-Chlorooctane	95.3	% 55.5-15							

Surrogate: 1-Chlorooctadecane

99.3 %

99.9 %

57.6-158

57.6-158

#### Sample ID: EXC @ 7 - W WALL CENTER (H200621-12)

Chloride, SM4500CI-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>96.0</b> 16.0 03/13/2012 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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	20.8	10.0	03/13/2012	ND	197	98.5	200	12.2	

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Surrogate: 1-Chlorooctadecane

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Received:

03/09/2012

Reported:

03/14/2012

Project Name:

NEDU SATELLITE #2 AD

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

03/09/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: EXC @ 7 - W WALL S END TOP (H200621-13)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate: 1-Chlorooctane	98.6	% 55.5-15	:4						
Surrogate: I-Chlorooctadecane	103	% 57.6-15	8						

#### Sample ID: EXC @ 7 - W WALL N END BTTM (H200621-14)

Chloride, SM4500CI-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate: 1-Chlorooctane	99.8	% 55.5-15	4						
Surrogate: I-Chlorooctadecane	103	% 57.6-15	8						

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Received:

03/09/2012

Sampling Date:

03/09/2012

Reported:

03/14/2012

Sampling Type:

Soil

Project Name:

NEDU SATELLITE #2 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: EXC @ 7 - N WALL CENTER (H200621-15)

Chloride, SM4500CI-B	M4500CI-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	<10.0	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate: 1-Chlorooctane	95.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	97.9	% 57.6-15	8						

#### Sample ID: EXC @ 7 - 5 PT BTTM COMP @ 7' (H200621-16)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/13/2012	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	03/13/2012	ND	213	106	200	16.5	
DRO >C10-C28	18.1	10.0	03/13/2012	ND	197	98.5	200	12.2	
Surrogate: 1-Chlorooctane	90.9	% 55.5-15	4						

Cardinal Laboratories \*=Accredited Analyte

57.6-158

86.7 %

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Surrogate: 1-Chlorooctadecane



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

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10/3

#### 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:	Apacije		BILL TO	\ \				/	ANAL	YSIS	KE	QUES	<b>5</b> I			
Project Manager	Natalie Gladden	to the second se	P.O. #:													
Address	5		Company:	<u></u>				•	ည					ļ		
City:	State: NM	Zip:	Attn:	V=					Ö							
Phone #:	Fax #:	b.v.'-1	Address:						An A							
Project #::	Project Owner	F;	City:		ر س	$\Sigma$		エ	Cations/Anions						İ	
Project Name: 🖋	VEOU SATALITE #2	A.O.	State: Zip:		g	15	$\times$	TPH	6	()				İ		
Project Location			Phone #:	,	Chlorides	8015	BTEX	<u>.</u> 0	ati	TDS						
Sampler Name:	DAKSTON HARRIS		Fax #:		글	I	m	×								
3 3 4	Sample I.D.  Excavation e 4'  E. Wall (enter  E. Wall th. end  E. Wall 5. end  N. Wall Center  Spt. bttm (ompe. 4'	GROUNDWATER GROUNDWATER  GROUNDWATER  GROUNDWATER  MASTEWATER  OIL  SILIDGE	PRESERV SAMPL  OLHER  OLHER  OLHER  JOS J9/19  J3/9/19  J3/9/19  J3/9/19  J3/9/19  J3/9/19	TIME 1/2:00 1/2:05 1/2:16 1/2:26 1/2:20	עלעל	HdT ) ) ) )	,	Texas	Complete							
analyses: All claims, including service: In no event shall Co	u Danages. Cardinal's liability and dent's exclusive remedy for g those for negligence and any other cause whatsoever should be failed be soble for incidental or consequential damages, including out of or related to the performance of services herounder by:    Date:   Date:   Time:	deemed walved unless made in writing all grainful limitation, business interruptions Cardinal, regardless of whether such claim Received By:	nd received by Cardinal within 30 days aft i, loss of use, or loss of profits incurred by	er completion of the client, its subsidies cosens or otherwise Phone Res Fax Result REMARKS  email  Natali	ries. sult: t: s: resu	□ Yes □ Yes Its ladde	en@	<sub>No</sub> usa	apa.	chec	corp.			-		
Delivered By: Sampler - UPS	•	Sample Condi Cool ⊯Intact ∐-Yes ∐-Ye ∏ No ∏ N	#(Initials)	Zcond hcond											mox	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	, ipacino				1.	BI	LL TO						ANA	_YSIS	KE	QUE	ا ذ			
Project Manage	r: Natalie Glädden				P.C	), # <i>:</i>														
Address:		······			Co	mpany:							SI							
City:	State: NM	Zip	):		Att	n:							<u>.</u> ,				. 1		1	i
Phone #:	Fax #:				Add	dress:		·	ļ			] .	4			] ]		1	}	
Project #:	Project Own	er:		·	City	y:	**}*1***		S	Σ		エ	ls/							
Project Name:	NEDU Satallite#2		·- ·		Sta	te:	Zip:	<u></u>	Chlorides	15	×	TPH	Cations/Anions	m					Ì	
Project Locatio	n:	درسېده س			Pho	one #:	······································	~~~	ori	801	BTEX	2	at	TDS						
	DAKSTON HARRIS				Fax		,		П		m	Texas		-					1	
Lab I.D.	Sample I.D.  EXCAVATION Q 15  E. WAIT MIDDLE  E. WAIT S. END TOP  E. WAIT N. END BHM  N. WAIT CONTER  S. WAIT COMPETS	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	,	ACID/BASE: 34 ICE / COOL 89 OTHER: 34	SAMPL	TIME	Ç	TPH		L L	Complete							
110000	E. Wall Middle	<u> </u>	17		~~ <u>`</u>	<b>V</b>	3/9/12	12:30	7	V,										
7	E. Wall 5. End TOP	6	1			<b>V</b>	3/9/12	12:35	1	1										
3	E. Wall N. End BHH	G	1			V	3/9/12	12:40	V	V	/									
<u> </u>	N. Wall Center	G	)			`v'	3/9/12	12:45	1	للما	<u> </u>									·
10	s. Wall Center	6	1		_:_	1	3/4/12	12:50	V	مححت	/									
]	3pt, b thm compels	C	1			V	3/9/12	12:55	LEER	berrie	ļ									
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analyses, All claims includi service. In no event shall C affiliates or accessors dis	nd Damages. Cardinal's liability and clients exclusive remedy for ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including out of or relater between the performance of services horeunder by	re deeme ing witho / Cardina	d walv ut limit d, rega	ed unless made in writing a ntion, business interruption ruless of whether such clay	ind receiv 5, loss at	ved by Cardinal v use, or loss of pr	vithin 30 days, after rofits incurred by	er completion of the ollent, its subsidial asons or otherwis	e applica rles e.								1			
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Relinquished B	V: Date:	Ô	ecei	ved By:			***************************************	email												
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Delivered By	: (Circle One)			Sample Cond		CHECK	ED BY:	Zcond							_					
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

3 0 93

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 F		
Company Name: Apache	BILL TO	ANALYSIS REQUEST
Project Manager: Natalie Gladden	P.O. #:	
Address:	Company:	ညူ
City: State: NM Zip:	Attn:	<u> </u>
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name: NEDU 591811/1812	State: Zip:	[항[전] × [단] [5] (5]   1   1   1   1   1   1   1   1   1
Project Location:	Phone #:	Chlorides PH 8015 N BTEX Texas TPH TDS TDS
Sampler Name: DAKSTON HARRIS	Fax #:	[윤[구][B] SHO[F]
Lab I.D. Sample I.D.  Lab I.D. Sample I.D. Sample I.D.  Lab I.D. Sample I.D. Sample I.D.  Lab I.D. Sample I.D. S	PRESERV. SAMPLING  OTHER: OTHER: OTHER: DATE TIME	Comple
12 W. Wall Center FII V	1 3/9/12 1:00	
13 W. Wail S. Pnd Top GIV	1 3/9/12 1:05	
if W. Wall N. COC 6++M GI	1 3/9/12 1:10	
2 N. Wall Center 61	3/9/12/1:15	
1705 pt. 6++M Cumpez. ()	1 3/9/12/1:20	
	-	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing an service. In no event shall pluridual he hable for incidental or consequental damages, including will out limitation, business interruptions, artificiates or processors styling out of or reliated to the performance of services herearder by Cardinal, regardless of whether such claim  Relinquished By:  Time:  Date:  Received By:	nd received by Coothaul within 30 days after completion of f., loss of tree, or loss of profits incurred by client, its subside is busief upon any of the above stated reasons or otherwise.  Phone Re Fax Resu	arins. so. ssult: □ Yes ☑ No   Add'l Phone #: lt: □ Yes ☑ No   Add'l Fax #:
Time:  Delivered By: (Circle One)  Sample Condit Cool Intact Cool Intact Sampler - UPS - Bus - Other:  Sampler - UPS - Bus - Other:	tion CHECKED BY: ZCONG	lie.Gladden@usa.apachecorp.com; der@rice-ecs.com; Bbaker@rice-ecs.com; der@rice-ecs.com; Lweinheimer@rice-ecs.com

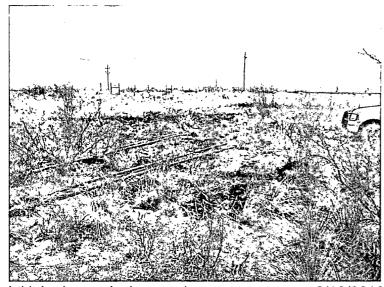
<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# Appendix C Photo Documentation

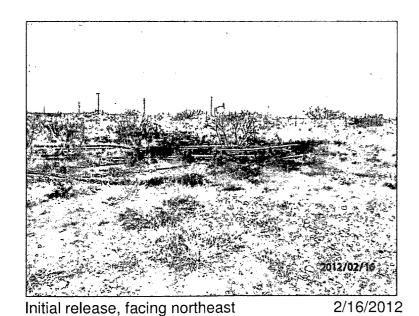
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

### **NEDU Satellite #2**

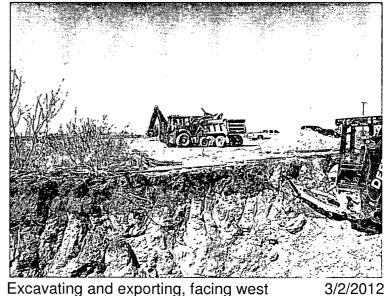
Unit Letter E, Section 10, T21S R37E



Initial release, facing southeast 2/16/2012



Initial release, facing southwest 2/16/2012

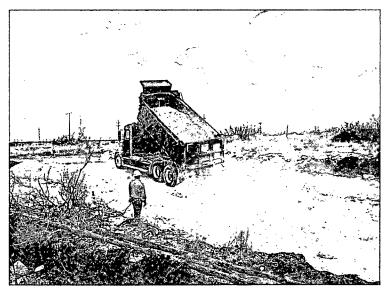


Excavating and exporting, facing west



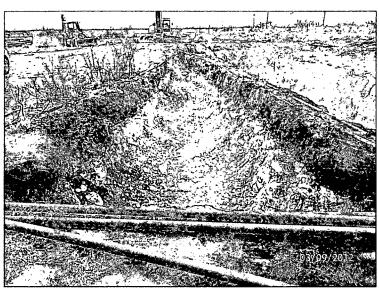
Final excavation, facing north

3/9/2012



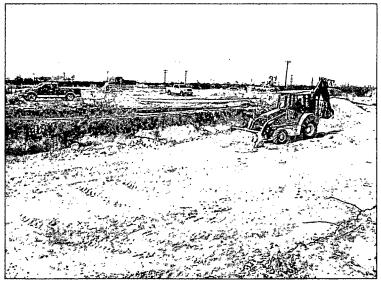
Importing caliche, facing northeast

3/12/2012



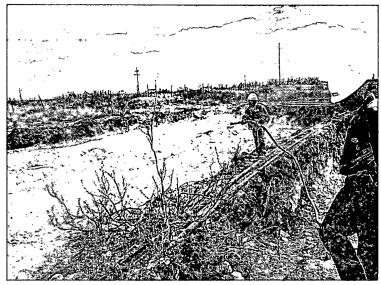
Final excavation, facing north

3/9/2012



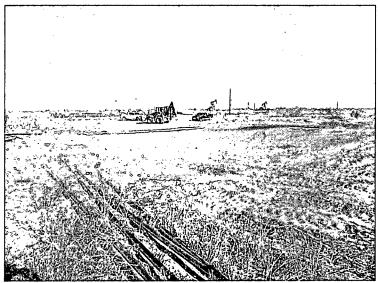
Backfilling, facing west

3/12/2012



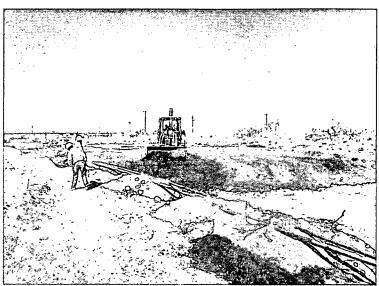
Watering caliche, facing southeast

3/12/2012



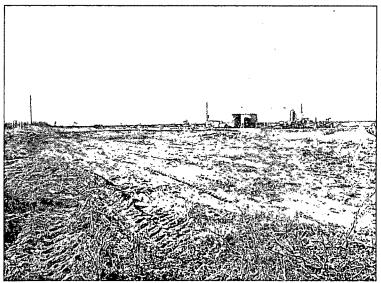
Site complete, facing northwest

3/16/2012



Backfilling with topsoil, facing north

3/13/2012



Site complete, facing south

3/16/2012

# Appendix D Final C-141

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