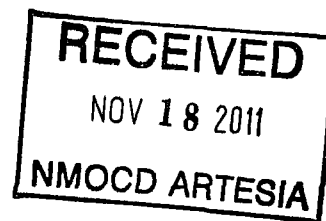




EXPLORING WHAT'S POSSIBLE



# APACHE CORPORATION

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

## Red Federal Water Station

---

### Closure Report

2RP-861

API 30-015-30143

Release Date: April 9, 2011

Unit Letter J, Section 17, Township 17S, Range 30E

# Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

**September 22, 2011**

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First Street

Artesia, NM 88210

**RE: TERMINATION REQUEST**

**Apache – Red Federal Water Station AD**

**UL/J Section 17 T17S R30E**

Mr. Bratcher:

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

**Background and Previous Work**

The site is the result of an accidental discharge of produced water at the Apache Red Federal Water Transfer Station when tanks overflowed. The event affected soils within the battery firewall and the location pad. An initial form C-141 was submitted by Apache Corporation on April 11, 2011 (Appendix A). The site is located north of U.S. Highway 82 near Loco Hills, NM in unit letter 'J', section 17, T17S, R30E in Eddy County, New Mexico.

On April 11, 2011, RECS personnel initiated work on the Red Federal Water Station. Soil samples were collected at surface throughout the leak area, and samples were also collected at shallow depth from within the battery firewall. All samples were field tested for chloride, and headspace measurements were taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride analysis (Figure 1 and Appendix D).

On April 15, 2011, a temporary monitor well was drilled northeast of the battery and leak area to determine depth of groundwater at the site. A red bed clay formation was encountered at 35 ft. below ground surface (bgs) and drilling ceased at 50 ft. bgs. The temporary monitor well was set with 2 inch PVC casing with screen from 30 ft. to 50 ft. bgs to allow potential groundwater to accumulate. On April 31, 2011, RECS personnel used a Heron Water Level Meter to verify any accumulation of groundwater. No water was detected within the borehole at the total depth of 50 ft. bgs. RECS personnel removed the monitoring well casing and plugged the borehole to ground surface with bentonite (Appendix B).

On April 20, 2011, excavation of the leak area commenced and additional field testing throughout the process showed significant decline in chloride levels and PID readings were low.

The leak was divided into 6 sections to which the final samples are referenced, and depths of the excavations ranged from 2 ft. to 5 ft. bgs (Figure 2). Final samples were submitted to a commercial laboratory for analysis of chloride, TPH (GRO/DRO), and BTEX. Final samples in the floor of all excavations were well below guidelines for chloride, TPH (GRO/DRO), and BTEX (Figure 2 and Appendix D).

See Appendix C for photographs.

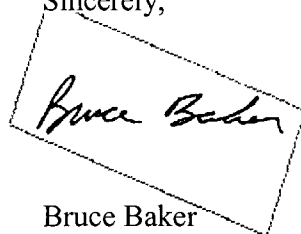
A total of 2,604 cubic yards of impacted soil was removed from the leak area and transported to a NMOCD approved facility for disposal. The excavation was backfilled with 1,992 cubic yards of clean imported caliche and contoured to the battery floor and well pad surface.

### **Conclusion**

Due to the nonexistence of groundwater, and excavation floor samples showing constituents of concern at levels below guidelines, Apache submits the final C-141 (Appendix E) and respectfully requests the closure of the regulatory file for this site.

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

Sincerely,

A handwritten signature in cursive script, reading "Bruce Baker", enclosed within a rectangular box that is slightly tilted to the right.

Bruce Baker  
Head Foreman  
RECS  
(575) 631-5157

### **Attachments:**

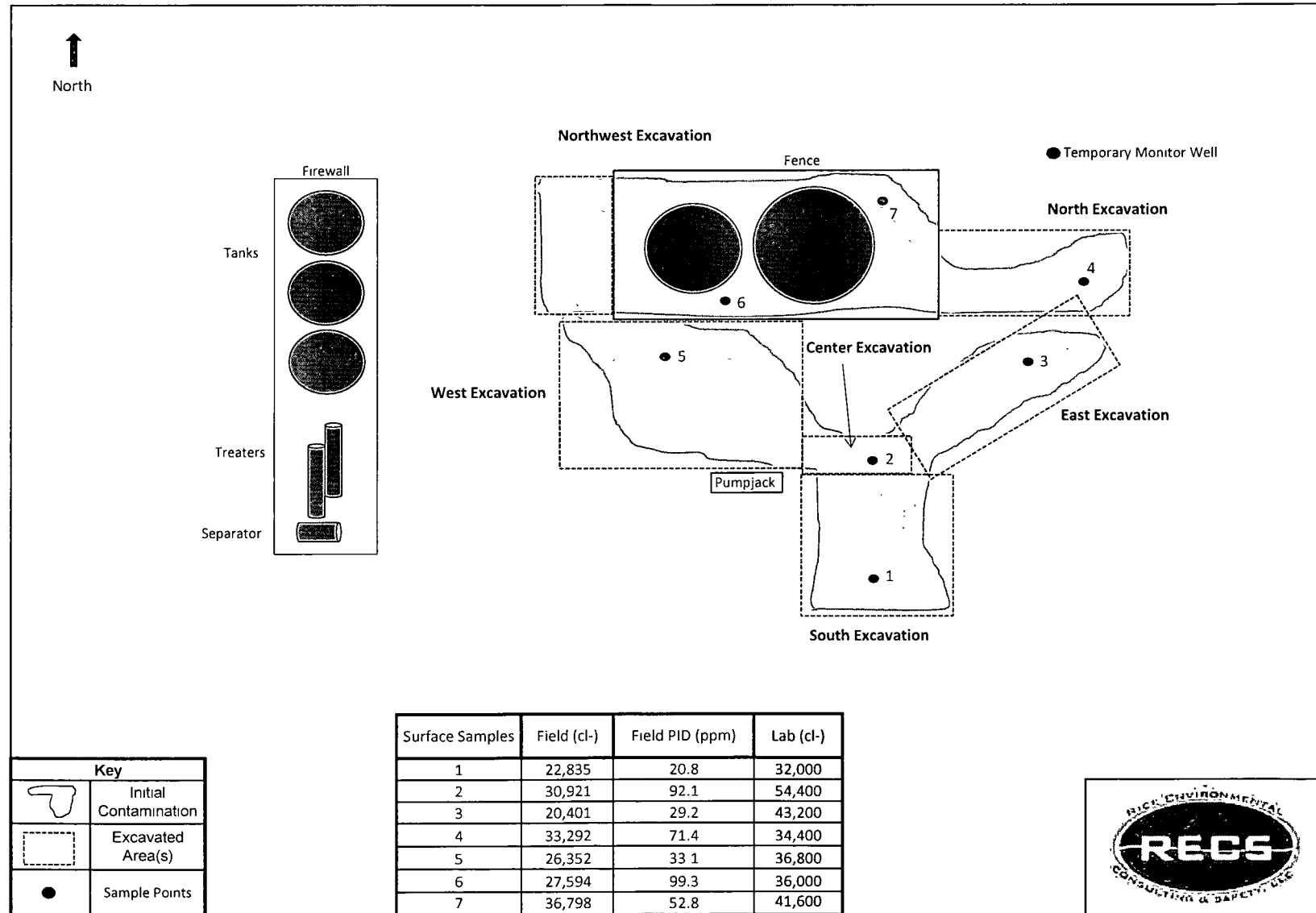
- Figure 1: Site Diagram with Surface Samples
- Figure 2: Site Diagram with Final Samples
- Appendix A: Initial Form C-141
- Appendix B: Temporary Monitoring Well Log, Letter of Groundwater Verification, and Plugging Report
- Appendix C: Site Photographs
- Appendix D: Laboratory Results
- Appendix E: Final Form C-141



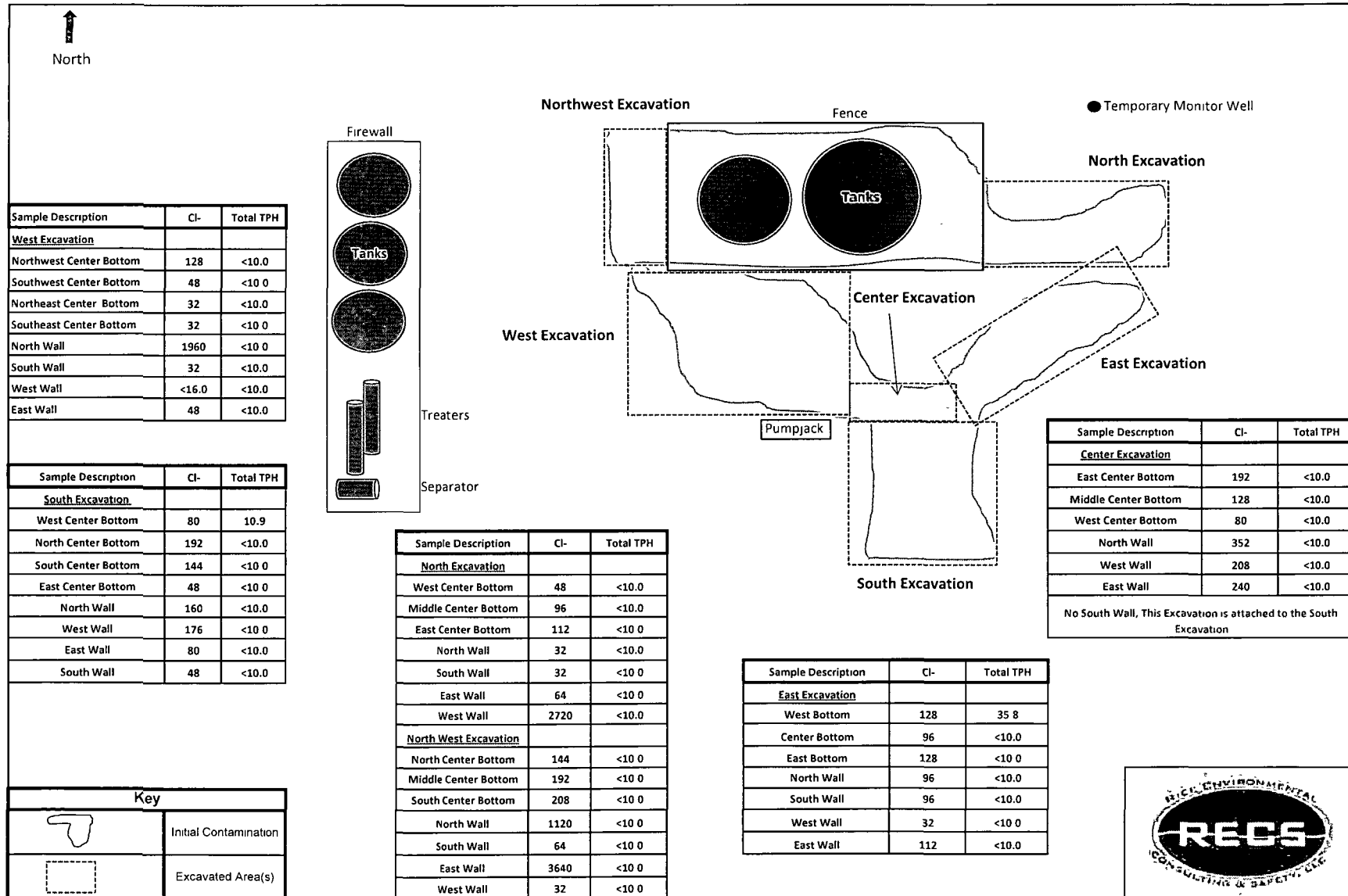
# Figures

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

**Figure 1: Site Diagram with Surface Samples**  
**Red Federal Water Station**



**Figure 2: Site Diagram with Final Samples**  
**Red Federal Water Station**





# Appendix A

Initial Form C-141

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address PO Box 1849, Eunice NM 88240	Telephone No. 575-390-4186
Facility Name Red Fed Water Station (near Red Fed #2)	Facility Type Water Station

Surface Owner BLM	Mineral Owner State	API No. 30-015-30143
-------------------	---------------------	----------------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	17	17S	30E	1650	FSL	2310	FEL	Eddy

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

#### NATURE OF RELEASE

Type of Release Produced Water	Volume of Release >150	Volume Recovered 150
Source of Release Truck drivers fell asleep	Date and Hour of Occurrence 04/09/11	Date and Hour of Discovery 04/09/11
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Natalie Gladden	Date and Hour 04/11/11 304pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

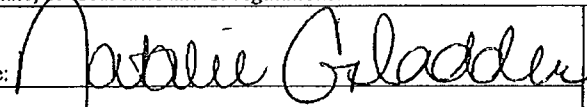
Describe Cause of Problem and Remedial Action Taken.\*

COG's line went down and therefore we were trucking the water, two trucks were hauling 24hrs a day and both went to sleep, which caused the tanks on the trucks to overflow; releasing an unknown volume. We recovered 150bbbls.

Describe Area Affected and Cleanup Action Taken.\*

Inside of the bermed area will be hand dug and the location pad will be excavated to meet NMOCD/BLM Standards for Remediation.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Natalie Gladden		Approved by Environmental Specialist:	
Title: EHS Environmental Tech		Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 04/11/11 Phone: 575-390-4186			

\* Attach Additional Sheets If Necessary

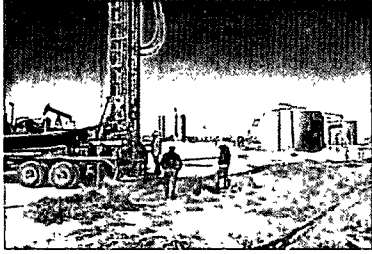





# Appendix B

Temporary Monitoring Well Log, Letter of Groundwater  
Verification, and Plugging Report

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

<b>Logger:</b> Jordan Woodfin <b>Driller:</b> Harrison & Cooper, Inc <b>Drilling Method:</b> Air rotary <b>Start Date:</b> 4/15/2011 <b>End Date:</b> 4/15/2011						
<b>Comments:</b> No samples taken from the well. <u>TEMP. MW PLUGGED 5/11/2011</u> DRAFTED BY: L. Weinheimer TD = 50 ft                      GW = none				<b>Company:</b> Apache <b>Project Name:</b> Red Federal Water Station <b>Project Consultant:</b> RECS <b>Location:</b> UL/J sec. 17 T17S R30E <b>Lat:</b> N32°49.932' <b>County:</b> Eddy <b>Long:</b> W104°59.569' <b>State:</b> NM		
<b>Depth (feet)</b>	<b>chloride field tests</b>	<b>LAB</b>	<b>PID</b>	<b>Description</b>	<b>Lithology</b>	<b>Well Construction</b>
5 ft				NO SAMPLES TAKEN		annular space left open TEMP. MW PLUGGED 5/11/2011
10 ft						
15 ft						
20 ft						
25 ft						
30 ft						
35 ft						
40 ft						
45 ft						
50 ft						
				RED BED CLAY		

# Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

July 7<sup>th</sup>, 2011

Natalie Gladden

Apache Corp.

P.O. Box 1849

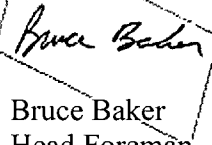
Eunice, New Mexico 88231

## **Re: Apache Red Federal Water Station**

Ms. Gladden,

On April 15<sup>th</sup>, 2011 RECS personnel drilled an observational well at the Red Federal Water Station. On April 31<sup>st</sup>, 2011, I supervised RECS personnel checking for water accumulation within the borehole using a Heron depth to water meter. The meter indicated no water had accumulated within the borehole at a total depth of 50 ft.

Sincerely,

A handwritten signature in black ink, appearing to read "Bruce Baker", is enclosed within a rectangular box that is slightly tilted to the right.

Bruce Baker

Head Foreman

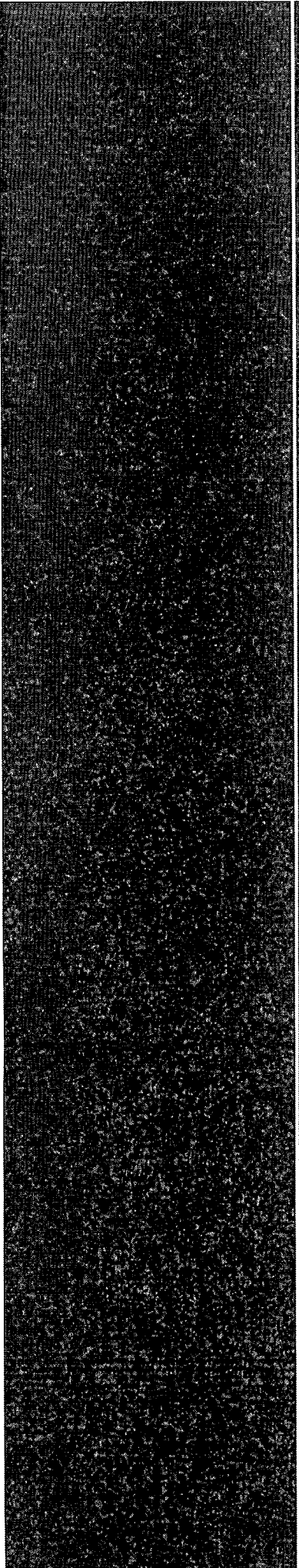
Rice Environmental Consulting & Safety



P.O. Box 5630  
Hobbs, NM 88241  
Phone: 575-393-4411

## Monitor Well Plugging Report

Client	Apache Corp.
Contractor	RECS
Date Completed	5/11/2011
Site	Red Federal Water Station
County	Eddy
Legal Description	UL/J sec. 17 T17S R30E
Well ID	Temp MW-1
Casing Diameter	2"
Well Depth	50'
Casing Material	PVC
Plugging Material	Bentonite



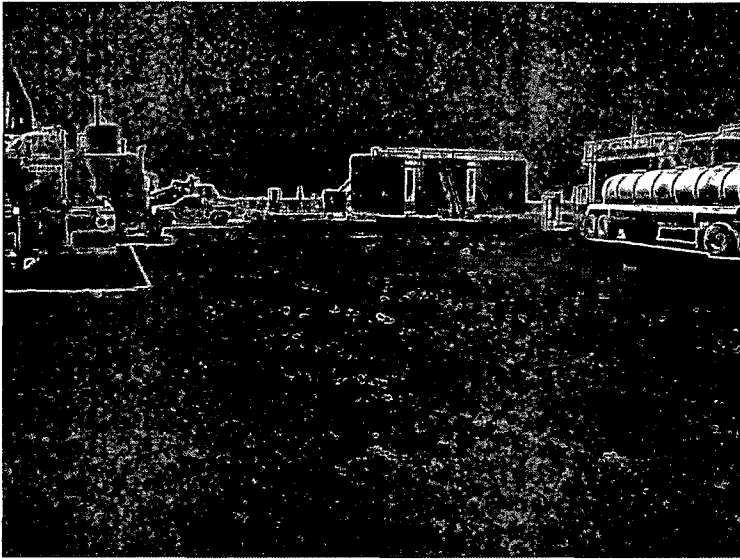
# Appendix C

Site Photographs

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

# Red Federal Water Station

Unit J, Section 17, T17S, R30E



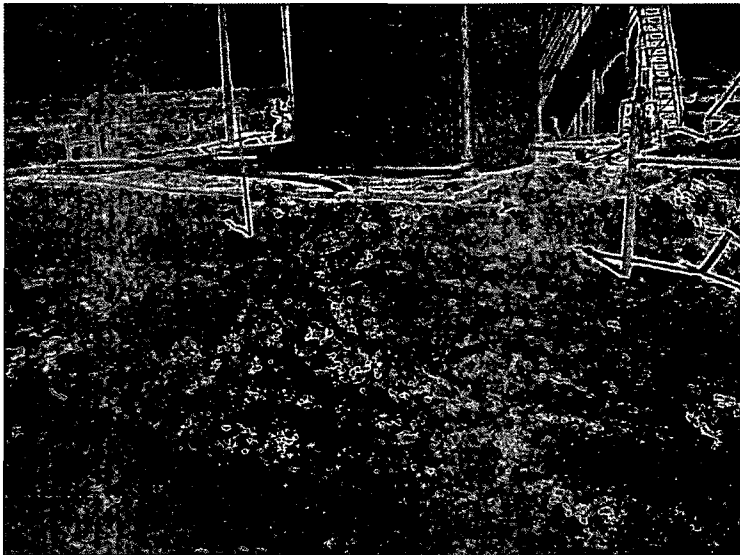
Prior to excavation, facing west

4/11/2011



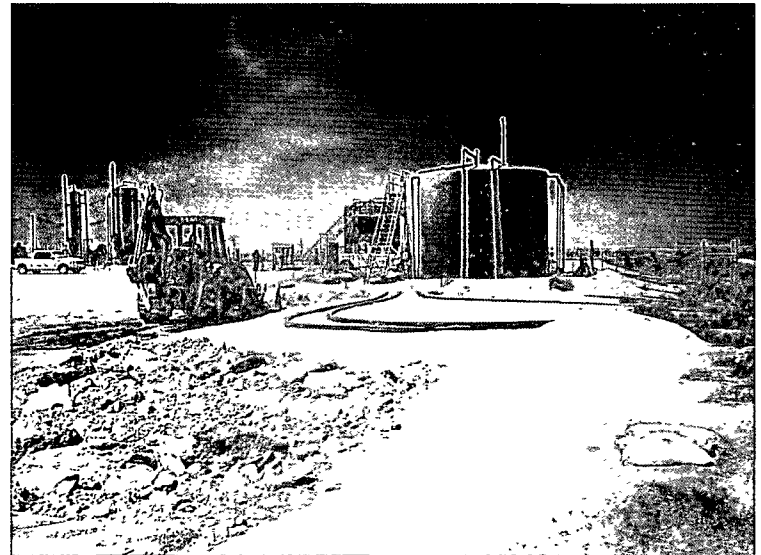
Prior to excavation, facing northwest

4/11/2011



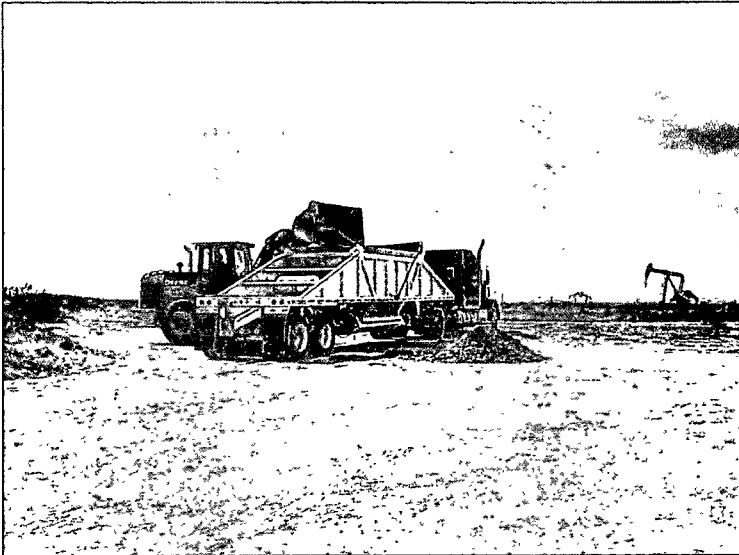
Prior to excavation, facing northeast

4/11/2011



Excavating, facing west

4/20/2011



Removing soil

4/20/2011



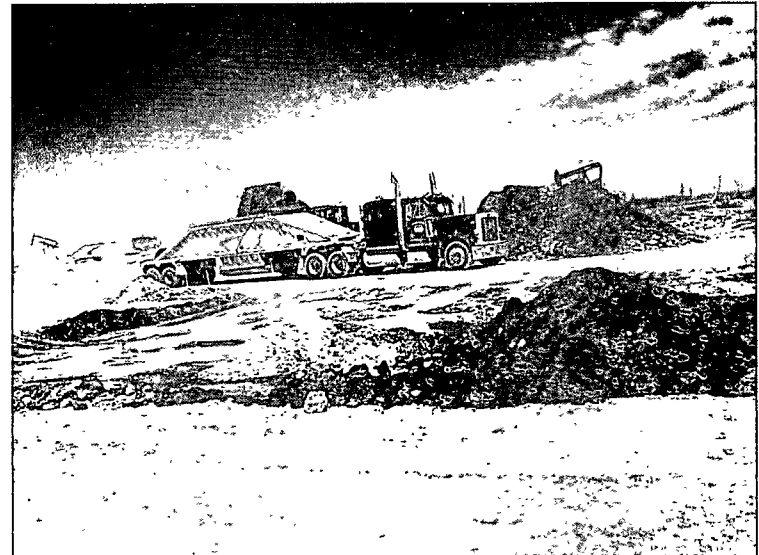
Collecting sample

4/21/2011



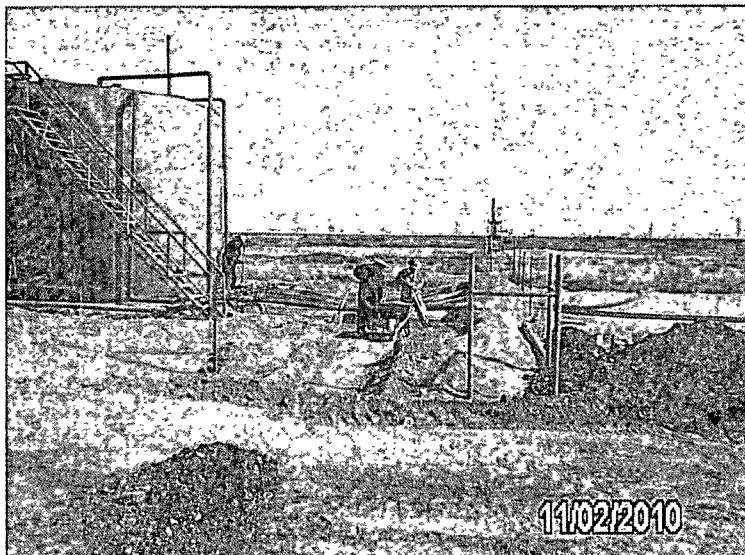
Collecting sample

4/21/2011



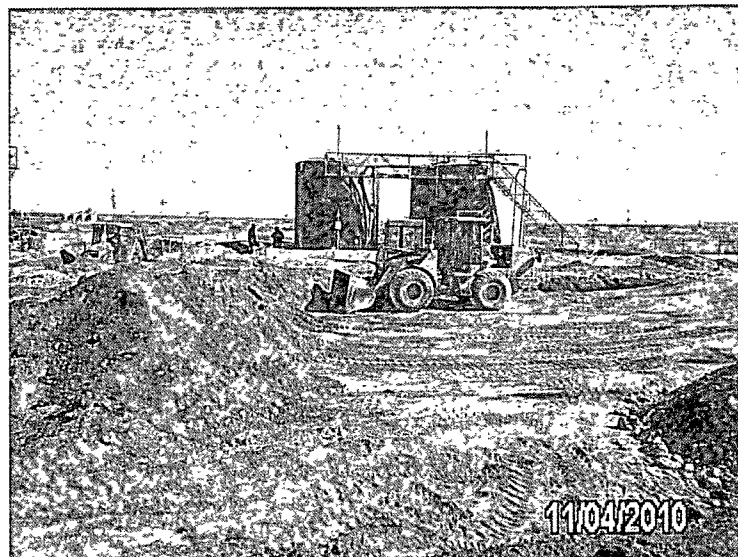
Removing soil

4/21/2011



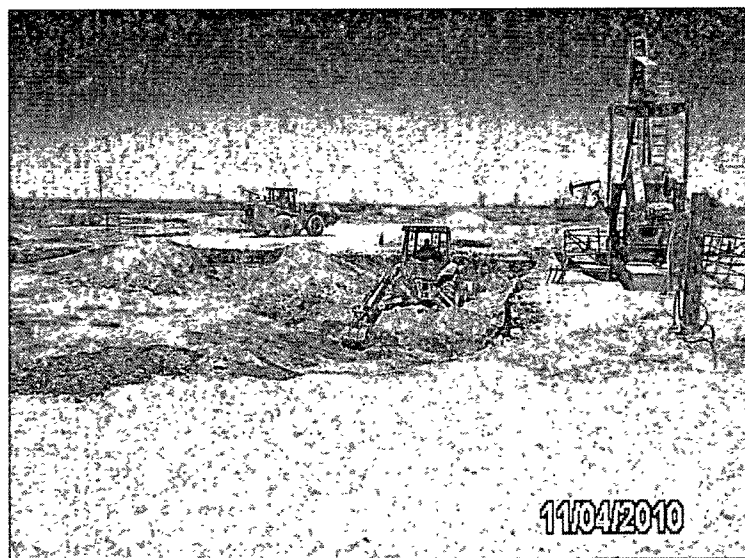
Excavating by hand, facing west

4/25/2011



Excavating caliche pad, facing north

4/27/2011



Excavating caliche pad, facing west

4/27/2011



Final excavation, facing east

5/3/2011





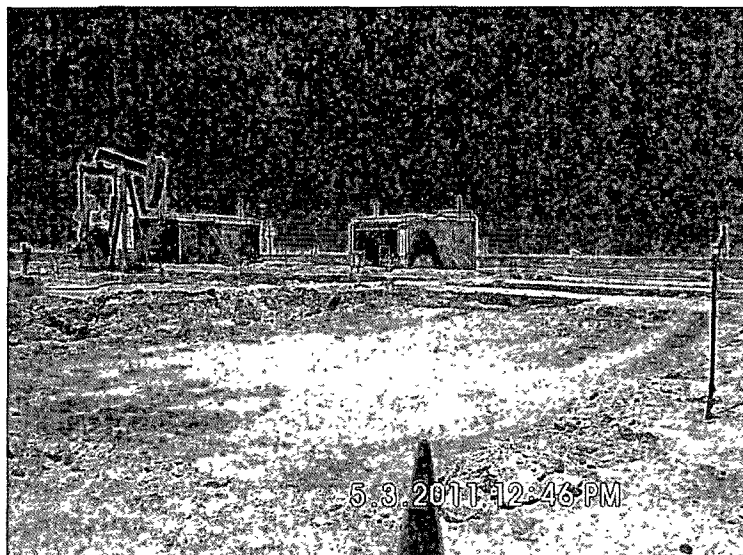
Final excavation, facing north

5/3/2011



Final excavation, facing northeast

5/3/2011



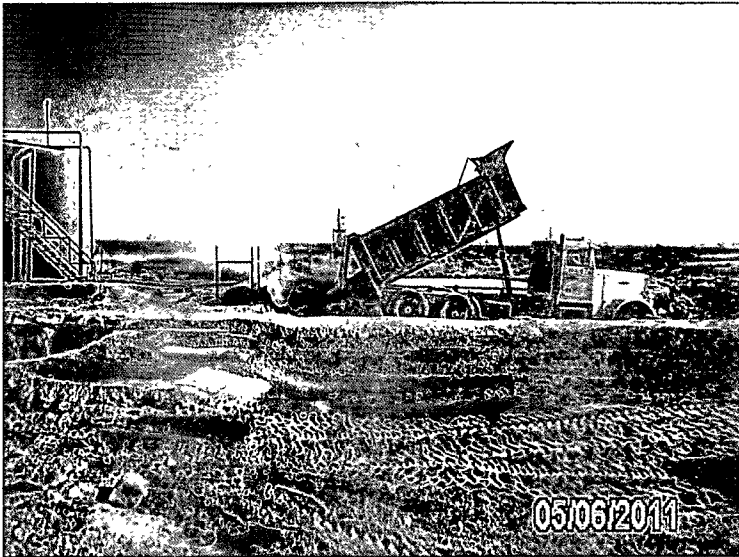
Final excavation, facing northwest

5/3/2011

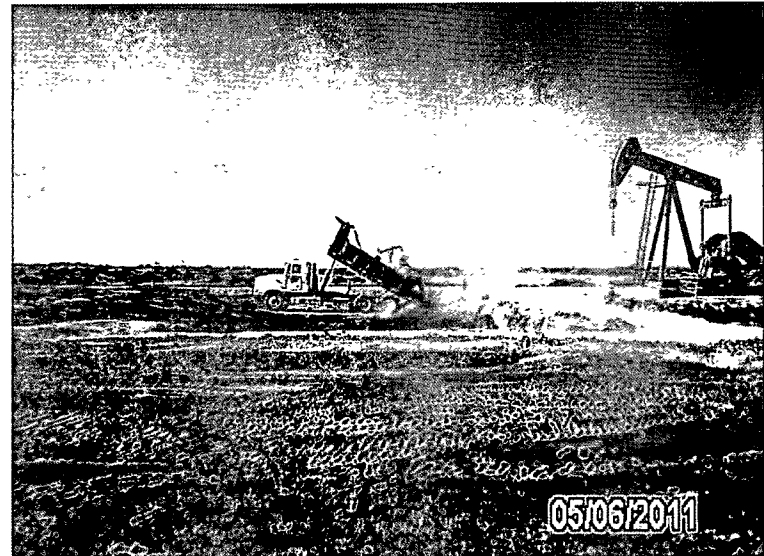


Final excavation, facing southeast

5/3/2011



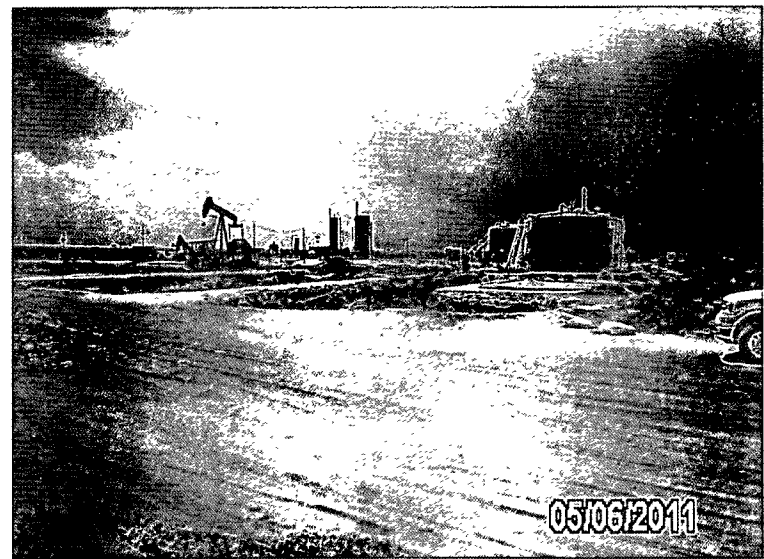
Backfilling excavation, facing north 5/6/2011



Backfilling excavation, facing south 5/6/2011



Backfilling excavation, facing southwest 5/6/2011



Backfilling excavation, facing southwest 5/6/2011



# Appendix D

Laboratory Results

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

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/18/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SURFACE PT. 6 (H100827-01)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36000	16.0	04/25/2011	ND	432	108	400	0.00	

**Sample ID: PT. 6 @ 6" (H100827-02)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	04/25/2011	ND	432	108	400	0.00	

**Sample ID: SURFACE PT. 7 (H100827-03)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41600	16.0	04/25/2011	ND	432	108	400	0.00	

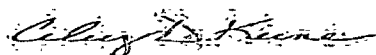
**Sample ID: PT. 7 @ 6" (H100827-04)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	04/25/2011	ND	432	108	400	0.00	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/11/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SURFACE PT. 1 (H100827-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32000	16.0	04/25/2011	ND	432	108	400	0.00		

**Sample ID: SURFACE PT. 2 (H100827-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	54400	16.0	04/25/2011	ND	432	108	400	0.00		

**Sample ID: SURFACE PT. 3 (H100827-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43200	16.0	04/25/2011	ND	432	108	400	0.00	

**Sample ID: SURFACE PT. 4 (H100827-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34400	16.0	04/25/2011	ND	432	108	400	0.00	

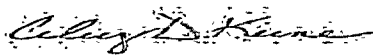
**Sample ID: SURFACE PT. 5 (H100827-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36800	16.0	04/25/2011	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>											
Project Manager: Natalie Gladden				P.O. #:												<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH: 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>											
Address:				Company:																							
City:				Attn:																							
Phone #:				Address:																							
Project #:				City:																							
Project Owner:				State:																							
Project Name: Apache Red Federal Water Station				Zip:																							
Project Location: Apache Red Federal Water Station				Phone #:																							
Sampler Name: Zach Conder				Fax #:																							
FOR LAB USE ONLY																											
Lab ID	Sample ID	GRAB OR CONTAINERS	MATRIX	PRESERV	SAMPLING																						
			GROUNDWATER WASTEWATER SOIL SLUDGE OTHER	ACID/BASE ICE/COOL OTHER	DATE	TIME																					
100027-1	Surface Pt. 6	1	✓	✓	4/18/11	11:02	✓																				
2	Pt. 6 @ 6"	1	✓	✓	4/18/11	11:16	✓																				
3	Surface Pt. 7	1	✓	✓	4/11/11	10:43	✓																				
4	Pt. 7 @ 6"	1	✓	✓	4/18/11	10:11	✓																				
5	Surface Pt. 1	1	✓	✓	4/14/11	09:01	✓																				
6	Surface Pt. 2	1	✓	✓	4/11/11	09:42	✓																				
7	Surface Pt. 3	1	✓	✓	4/11/11	10:21	✓																				
8	Surface Pt. 4	1	✓	✓	4/11/11	10:39	✓																				
9	Surface Pt. 5	1	✓	✓	4/11/11	11:13	✓																				

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Relinquished By: Z. Conder	Date: 4/21/11	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time:	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	REMARKS:	
Sampler: UPS <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Other <input type="checkbox"/>	Time:	Checked By: [Signature]	email results: Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	

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

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 @ 6" (H100828-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2011	ND	2.78	111	2.50	2.33	
Toluene*	<0.050	0.050	04/24/2011	ND	2.73	109	2.50	5.39	
Ethylbenzene*	<0.050	0.050	04/24/2011	ND	2.80	112	2.50	6.66	
Total Xylenes*	<0.150	0.150	04/24/2011	ND	8.25	110	7.50	7.15	

Surrogate 4-Bromofluorobenzene (PIE) 92.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	04/25/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20	

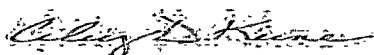
Surrogate 1-Chlorooctane 87.7 % 70-130

Surrogate 1-Chlorooctadecane 86.7 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 @ 1' (H100828-02)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/24/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/24/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/24/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Bromofluorobenzene (PIL) 93.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

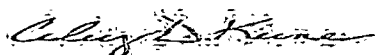
Surrogate 1-Chlorooctane 88.6 % 70-130

Surrogate 1-Chlorooctadecane 92.4 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 6" (H100828-03)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/24/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/24/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/24/2011	ND	8.25	110	7.50	7.15		

Surrogate: 4-Bromofluorobenzene (PIL) 93.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

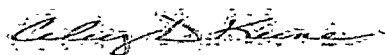
Surrogate: 1-Chlorooctane 87.8 % 70-130

Surrogate: 1-Chlorooctadecane 85.2 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 1' (H100828-04)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Biomofluorobenzene (PIL) 95.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

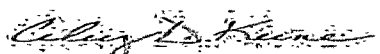
Surrogate 1-Chlorooctane 88.8 % 70-130

Surrogate 1-Chlorooctadecane 89.5 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 1.5' (H100828-05)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
<b>Toluene*</b>	<b>0.069</b>	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Bromofluorobenzene (PIL) 91.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	04/25/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20	

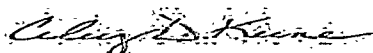
Surrogate 1-Chlorooctane 95.7 % 70-130

Surrogate 1-Chlorooctadecane 96.7 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celeste D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 2' (H100828-06)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Bromofluorobenzene (PIL) 93.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>912</b>	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

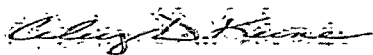
Surrogate 1-Chlorooctane 82.3 % 70-130

Surrogate 1-Chlorooctadecane 78.2 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 2.5' (H100828-07)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Bromofluorobenzene (PIL) 92.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

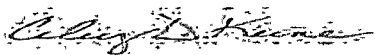
Surrogate 1-Chlorooctane 83.1 % 70-130

Surrogate 1-Chlorooctadecane 82.2 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 @ 6" (H100828-08)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate: 4-Bromofluorobenzene (PIE) 91.1 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

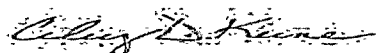
Surrogate 1-Chlorooctane 80.5 % 70-130

Surrogate 1-Chlorooctadecane 78.8 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 @ 1' (H100828-09)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Bromofluorobenzene (PIL) 90.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

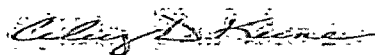
Surrogate 1-Chlorooctane 83.6 % 70-130

Surrogate 1-Chlorooctadecane 80.0 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 @ 1.5' (H100828-10)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Biomofluorobenzene (PIL) 93.9 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

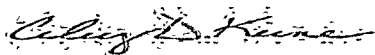
Surrogate 1-Chlorooctane 86.6 % 70-130

Surrogate 1-Chlorooctadecane 87.3 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





# CARDINAL LABORATORIES

1011 East Marland, Hobbs, NM, 88240 2111 Beechwood, Abilene, TX, 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Natalie Gladden				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>											
Address:				Company:															
City:				Attn:															
Phone #:				Address:															
Project #:				City:															
Project Name: Apache Red Federal Water Station				State:															
Project Location: Apache Red Federal Water Station				Zip:															
Sampler Name: Bruce Baker				Phone #:															
Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING											
Lab ID	Sample ID	QIPAB OR C/O COMPL	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME					
H100823	Pl. 1 @ 6"		1			✓				✓			4/20/11	03:05	✓	✓	✓		
2	Pl. 1 @ 1'		1			✓				✓			4/20/11	03:08	✓	✓	✓		
3	Pl. 2 @ 6"		1			✓				✓			4/20/11	03:11	✓	✓	✓		
4	Pl. 2 @ 1'		1			✓				✓			4/20/11	03:23	✓	✓	✓		
5	Pl. 2 @ 1.5'		1			✓				✓			4/20/11	03:26	✓	✓	✓		
10	Pl. 2 @ 2'		1			✓				✓			4/20/11	03:31	✓	✓	✓		
7	Pl. 2 @ 2.5'		1			✓				✓			4/20/11	03:37	✓	✓	✓		
8	Pl. 3 @ 6"		1			✓				✓			4/20/11	03:52	✓	✓	✓		
9	Pl. 3 @ 1'		1			✓				✓			4/20/11	03:54	✓	✓	✓		
10	Pl. 3 @ 1.5'		1			✓				✓			4/20/11	03:59	✓	✓	✓		

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Relinquished By: Bruce Baker	Date: 4-20-11	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l. Phone #:
	Time: 4:40		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l. Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	Natalie.Gladden@usa.apachecorp.com;	
Sampler: UPS Bus Other:	Cool Intact		Zcorder@rice-ecs.com; Bbaker@rice-ecs.com;	
	Yes No		hcondor@rice-ecs.com; Lweinheimer@rice-ecs.com	

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

#26

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 @ 6" (H100829-01)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate 4-Bromofluorobenzene (PIE) 95.2% 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7120	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

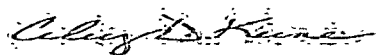
Surrogate 1-Chlorooctane 86.3% 70-130

Surrogate 1-Chlorooctadecane 83.1% 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 @ 1' (H100829-02)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate: 4-Bromofluorobenzene (PIL) 93.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49		
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20		

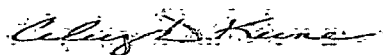
Surrogate: 1-Chlorooctane 90.1 % 70-130

Surrogate: 1-Chlorooctadecane 88.7 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 @ 1.5' (H100829-03)**

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33		
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39		
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66		
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15		

Surrogate: 4-Bromofluorobenzene (PIL) 93.3% 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	04/25/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20	

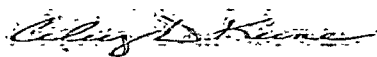
Surrogate 1-Chlorooctane 92.7% 70-130

Surrogate 1-Chlorooctadecane 90.5% 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/25/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 @ 2' (H100829-04)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2011	ND	2.78	111	2.50	2.33	
Toluene*	<0.050	0.050	04/25/2011	ND	2.73	109	2.50	5.39	
Ethylbenzene*	<0.050	0.050	04/25/2011	ND	2.80	112	2.50	6.66	
Total Xylenes*	<0.150	0.150	04/25/2011	ND	8.25	110	7.50	7.15	

Surrogate 4-Bromofluorobenzene (PIE) 94.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	210	105	200	2.49	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	202	101	200	3.20	

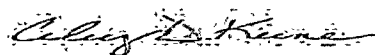
Surrogate 1-Chlorooctane 89.6 % 70-130

Surrogate 1-Chlorooctadecane 87.4 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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**Analytical Results For:**

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

Received:	04/25/2011	Sampling Date:	04/20/2011
Reported:	04/29/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 6 @ 1' (H100833-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2011	ND	2.34	117	2.00	14.5	
Toluene*	<0.050	0.050	04/27/2011	ND	2.31	115	2.00	15.1	
Ethylbenzene*	<0.050	0.050	04/27/2011	ND	2.35	117	2.00	14.5	
Total Xylenes*	<0.150	0.150	04/27/2011	ND	6.88	115	6.00	14.6	

Surrogate 4-Bromofluorobenzene (PIE) 96.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	04/26/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2011	ND	220	110	200	3.58	
DRO >C10-C28	17.3	10.0	04/28/2011	ND	211	105	200	2.94	

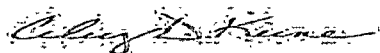
Surrogate 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 104 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/25/2011	Sampling Date:	04/20/2011
Reported:	04/29/2011	Sampling Type:	Soil
Project Name:	APACHE RED FEDERAL WATER STATION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 7 @ 1' (H100833-02)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2011	ND	2.34	117	2.00	14.5	
Toluene*	<0.050	0.050	04/27/2011	ND	2.31	115	2.00	15.1	
Ethylbenzene*	<0.050	0.050	04/27/2011	ND	2.35	117	2.00	14.5	
Total Xylenes*	<0.150	0.150	04/27/2011	ND	6.88	115	6.00	14.6	

Surrogate 4-Bromofluorobenzene (PIE) 95.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	04/26/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2011	ND	220	110	200	3.58	
DRO >C10-C28	10.3	10.0	04/28/2011	ND	211	105	200	2.94	

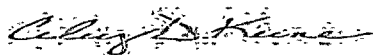
Surrogate 1-Chlorooctane 94.5 % 70-130

Surrogate 1-Chlorooctadecane 92.9 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240, 2111 Beechwood, Abilene, TX 79603

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

Company Name: Apache				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>															
Project Manager: Natalie Gladden				P.O. #:				Chlorides				TPH: 8015 M				BTEX				Texas TPH				Complete Cations/Anions				TDS			
Address:				Company:																											
City: State: NM Zip:				Attn:																											
Phone #: Fax #:				Address:																											
Project #: Project Owner:				City:																											
Project Name: Apache Red Federal Water Station				State: Zip:																											
Project Location: Apache Red Federal Water Station				Phone #:																											
Sampler Name: Robert Egans				Fax #:																											
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR (C)OMP. CONTAINERS		MATRIX		PRESERV		SAMPLING		DATE		TIME															
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER									
		Pl. 6 @ 1'																													
		Pl. 7 @ 1'																													

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Relinquished By: R. Egans		Date: 4-21-11		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Time: 2:30		Time: 4:25 PM		Time: 4:55 PM		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:	
Relinquished By: [Signature]		Date: 4-25-11		Received By: [Signature]		REMARKS:	
Time: 4:55 PM		Time: 4:55 PM		Time: 4:55 PM		email results	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)		Natalie.Gladden@usa.apachecorp.com;	
Sampler: UPS Bus Other		Cool: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		[Signature]		Zcorder@rice-ecs.com; Bbaker@rice-ecs.com;	
						hcondor@rice-ecs.com; Lweinheimer@rice-ecs.com	

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

**Analytical Results For:**

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

Received:	04/25/2011	Sampling Date:	04/22/2011
Reported:	04/26/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 @ 4.5' (H100847-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71	
Toluene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.60	
Ethylbenzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	4.57	
Total Xylenes*	<0.150	0.150	04/26/2011	ND	6.79	113	6.00	4.75	

Surrogate. 4-Bromofluorobenzene (PIE) 90.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/26/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2011	ND	214	107	200	0.572	
DRO >C10-C28	<10.0	10.0	04/25/2011	ND	206	103	200	4.93	

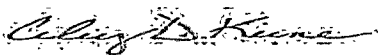
Surrogate. 1-Chlorooctane 88.3 % 70-130

Surrogate. 1-Chlorooctadecane 92.3 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/25/2011	Sampling Date:	04/22/2011
Reported:	04/26/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 @ 5' (H100847-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71		
Toluene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.60		
Ethylbenzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	4.57		
Total Xylenes*	<0.150	0.150	04/26/2011	ND	6.79	113	6.00	4.75		

Surrogate 4-Bromofluorobenzene (PIE) 93.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/26/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2011	ND	214	107	200	0.572	
DRO >C10-C28	<10.0	10.0	04/26/2011	ND	206	103	200	4.93	

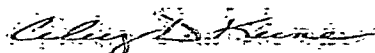
Surrogate 1-Chlorooctane 86.8 % 70-130

Surrogate 1-Chlorooctadecane 92.8 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/25/2011	Sampling Date:	04/22/2011
Reported:	04/26/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 4 @ 4.5' (H100847-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71		
Toluene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.60		
Ethylbenzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	4.57		
Total Xylenes*	<0.150	0.150	04/26/2011	ND	6.79	113	6.00	4.75		

Surrogate: 4-Bromofluorobenzene (PIL) 89.9 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/26/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/26/2011	ND	214	107	200	0.572		
DRO >C10-C28	<10.0	10.0	04/26/2011	ND	206	103	200	4.93		

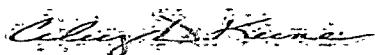
Surrogate: 1-Chlorooctane 86.8 % 70-130

Surrogate: 1-Chlorooctadecane 93.0 % 70-130

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/25/2011	Sampling Date:	04/22/2011
Reported:	04/26/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 4 @ 5' (H100847-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71		
Toluene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.60		
Ethylbenzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	4.57		
Total Xylenes*	<0.150	0.150	04/26/2011	ND	6.79	113	6.00	4.75		

Surrogate 4-Bromofluorobenzene (PIL) 94.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/26/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/26/2011	ND	214	107	200	0.572		
DRO >C10-C28	<10.0	10.0	04/26/2011	ND	206	103	200	4.93		

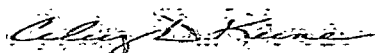
Surrogate 1-Chlorooctane 83.0 % 70-130

Surrogate 1-Chlorooctadecane 91.8 % 70-130

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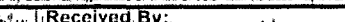


Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 	Date: 4/25/11 Time: 10:22:10	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____	Date: _____ Time: _____	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) Sampler: UPS Bus Other	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: 	REMARKS: 	
email results: Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com				

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

#26

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/25/2011
Reported:	05/02/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S EXC W CENTER BTM @ 4.5' (H100867-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03	
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61	
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81	
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82	

Surrogate 4-Bromofluorobenzene (PIE) 94.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/29/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	10.9	10.0	04/30/2011	ND	180	90.1	200	1.11	

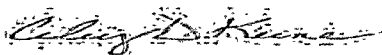
Surrogate 1-Chlorooctane 100 % 70-130

Surrogate 1-Chlorooctadecane 96.0 % 70-130

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/25/2011
Reported:	05/02/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S EXC E CENTER BTM @ 4.5' (H100867-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 95.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/29/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11		

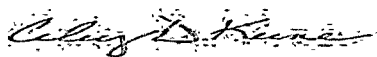
Surrogate 1-Chlorooctane 100 % 70-130

Surrogate 1-Chlorooctadecane 105 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/25/2011
Reported:	05/02/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S EXC S CENTER BTM @ 4.5' (H100867-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 95.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/29/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11		

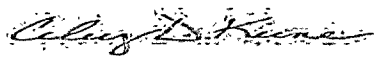
Surrogate 1-Chlorooctane 91.7 % 70-130

Surrogate 1-Chlorooctadecane 96.3 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/25/2011
Reported:	05/02/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S EXC N CENTER BTM @ 4.5' (H100867-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 93.9 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/29/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11		

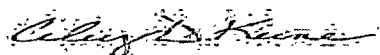
Surrogate 1-Chlorooctane 97.8 % 70-130

Surrogate 1-Chlorooctadecane 102 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/25/2011
Reported:	05/02/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S EXC N WALL (H100867-05)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 91.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/29/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11		


Surrogate 1-Chlorooctane 97.9 % 70-130

Surrogate 1-Chlorooctadecane 101 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/27/2011  
 Reported: 05/02/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/25/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S EXC W WALL (H100867-06)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate: 4-Bromofluorobenzene (PIL) 94.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/29/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11	

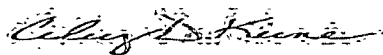
Surrogate: 1-Chlorooctane 88.1 % 70-130

Surrogate: 1-Chlorooctadecane 86.4 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/27/2011  
 Reported: 05/02/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/26/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S EXC S WALL (H100867-07)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 94.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/29/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11	

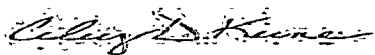
Surrogate 1-Chlorooctane 87.9 % 70-130

Surrogate 1-Chlorooctadecane 91.5 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/26/2011
Reported:	05/02/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S EXC E WALL (H100867-08)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 92.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/29/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11		

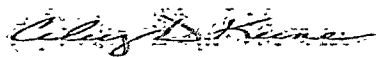
Surrogate 1-Chlorooctane 92.7 % 70-130

Surrogate 1-Chlorooctadecane 99.7 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: N EXC W CENT BTM @ 4.5' (H100868-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03	
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61	
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81	
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82	

Surrogate 4-Bromofluorobenzene (PIL) 93.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11	

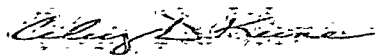
Surrogate 1-Chlorooctane 96.3 % 70-130

Surrogate 1-Chlorooctadecane 97.2 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: N EXC MDL CENTER BTM @ 4.5' (H100868-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 94.6 % 70-130

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	05/02/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11		

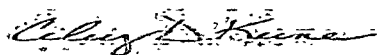
Surrogate 1-Chlorooctane 102 % 70-130

Surrogate 1-Chlorooctadecane 100 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: N EXC E CENT BTM @ 4.5' (H100868-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03	
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61	
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81	
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82	

Surrogate 4-Bromofluorobenzene (PIE) 94.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11	

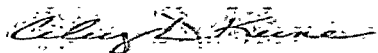
Surrogate 1-Chlorooctane 90.7 % 70-130

Surrogate 1-Chlorooctadecane 91.6 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: N EXC N WALL (H100868-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 97.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00	
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11	

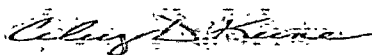
Surrogate 1-Chlorooctane 88.8 % 70-130

Surrogate 1-Chlorooctadecane 82.8 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/27/2011  
 Reported: 05/03/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/26/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N EXC S WALL (H100868-05)**

BTEX 8021B			mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 96.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/30/2011	ND	214	107	200	2.00		
DRO >C10-C28	<10.0	10.0	04/30/2011	ND	180	90.1	200	1.11		

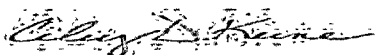
Surrogate 1-Chlorooctane 93.9 % 70-130

Surrogate 1-Chlorooctadecane 98.1 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/27/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: N EXC E WALL (H100868-06)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2011	ND	2.11	105	2.00	2.03		
Toluene*	<0.050	0.050	04/29/2011	ND	2.11	106	2.00	2.61		
Ethylbenzene*	<0.050	0.050	04/29/2011	ND	2.14	107	2.00	1.81		
Total Xylenes*	<0.150	0.150	04/29/2011	ND	6.33	106	6.00	1.82		

Surrogate 4-Bromofluorobenzene (PIL) 94.7 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/02/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2011	ND	183	91.7	200	6.63	
DRO >C10-C28	<10.0	10.0	05/02/2011	ND	190	95.2	200	9.96	

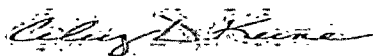
Surrogate 1-Chlorooctane 97.2 % 70-130

Surrogate 1-Chlorooctadecane 106 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Unusual, Unlikely, and Uncommon Circumstances (including but not limited to) claims arising where damage in contract or tort, which is limited to the amount paid by the client for the services, all claims, including those for negligence, and any other cause whatsoever, shall be deemed waived unless made in writing and received by the Cardinal within 30 days after completion of the applicable service. In no event shall the Cardinal be liable for intentional or consequential damages, including without limitation, business interruptions, loss of time, or loss of profits incurred by clients. An actual determination of negligence, or any other claim, shall be subject to the performance of services rendered by the Cardinal. In the event of a finding that a claim is based upon any of the above stated reasons or otherwise,

Relinquished By: 	Date: 4/27/01 Time: 7:30	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No REMARKS:
Relinquished By: 	Date: 4/27/01 Time: 8:25	Received By: 	email-results Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Delivered By: (Circle One) Sampler: UPS Bus Other	-90	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) 

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

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CENTER EXC E CENT BTM @ 3.5' (H100878-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27		
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35		
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95		
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80		

Surrogate 4-Bromofluorobenzene (PIL) 91.1 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03		
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21		

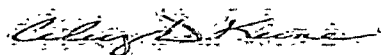
Surrogate 1-Chlorooctane 56.4 % 70-130

Surrogate 1-Chlorooctadecane 62.5 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CENTER EXC MDL CENT BTM @ 3.5' (H100878-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27		
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35		
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95		
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80		

Surrogate: 4-Bromofluorobenzene (PIL) 93.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/02/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03		
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21		

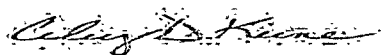
Surrogate: 1-Chlorooctane 61.6 % 70-130

Surrogate: 1-Chlorooctadecane 76.2 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CENTER EXC W CENT BTM @ 3.5' (H100878-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27	
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35	
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80	

*Surrogate 4-Bromofluorobenzene (PIE)* 93.5% 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

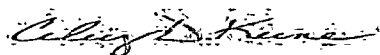
*Surrogate 1-Chlorooctane* 75.2% 70-130

*Surrogate 1-Chlorooctadecane* 75.7% 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/28/2011  
 Reported: 05/03/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/26/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: CENTER EXC NORTH WALL (H100878-04)**

BTEx 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27		
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35		
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95		
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80		

Surrogate 4-Bromofluorobenzene (PIL) 89.9 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

Surrogate 1-Chlorooctane 82.2 % 70-130

Surrogate 1-Chlorooctadecane 89.4 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CENTER EXC WEST WALL (H100878-05)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2011	ND	2.34	117	2.00	5.27		
Toluene*	<0.050	0.050	05/03/2011	ND	2.38	119	2.00	5.35		
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	2.39	119	2.00	3.95		
Total Xylenes*	<0.150	0.150	05/03/2011	ND	7.07	118	6.00	3.80		

Surrogate 4-Bromofluorobenzene (PIL) 91.7% 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/02/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

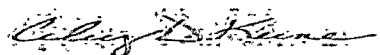
Surrogate 1-Chlorooctane 70.8% 70-130

Surrogate 1-Chlorooctadecane 82.3% 70-130

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\*=Accredited Analyte

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Cele D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/27/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CENTER EXC EAST WALL (H100878-06)**

BTEX 8021B			mg/kg		Analyzed By: CMS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2011	ND	2.34	117	2.00	5.27	
Toluene*	<0.050	0.050	05/03/2011	ND	2.38	119	2.00	5.35	
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	2.39	119	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/03/2011	ND	7.07	118	6.00	3.80	

Surrogate 4-Bromofluorobenzene (PIL) 92.0 % 70-130

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/02/2011	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: AB				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

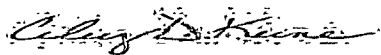
Surrogate 1-Chlorooctane 79.4 % 70-130

Surrogate 1-Chlorooctadecane 97.6 % 70-130

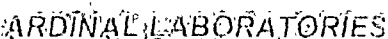
Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

\* Cardinal cannot accept verbal changes. Please fax written changes to 505-353-4766

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/27/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NW EXC N CTR BTM @ 4.5' (H100877-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27	
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35	
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80	

Surrogate 4-Bromofluorobenzene (PII) 93.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	183	91.7	200	6.63	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	190	95.2	200	9.96	

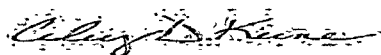
Surrogate 1-Chlorooctane 88.6 % 70-130

Surrogate 1-Chlorooctadecane 100 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/27/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NW EXC MIDDLE CTR BTM @ 4.5' (H100877-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27		
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35		
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95		
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80		

Surrogate 4-Bromofluorobenzene (PIE) 94.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/02/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2011	ND	183	91.7	200	6.63		
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	190	95.2	200	9.96		

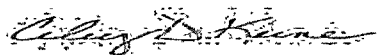
Surrogate 1-Chlorooctane 108 % 70-130

Surrogate 1-Chlorooctadecane 120 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/27/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NW EXC S CTR BTM @ 4.5' (H100877-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27		
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35		
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95		
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80		

Surrogate 4-Bromofluorobenzene (PIL) 93.3% 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/02/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2011	ND	183	91.7	200	6.63		
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	190	95.2	200	9.96		

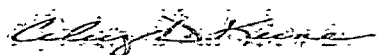
Surrogate 1-Chlorooctane 87.6% 70-130

Surrogate 1-Chlorooctadecane 97.8% 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/27/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NW EXC N WALL (H100877-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27	
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35	
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80	

Surrogate 4-Bromofluorobenzene (PIE) 91.1% 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	183	91.7	200	6.63	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	190	95.2	200	9.96	

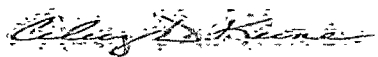
Surrogate 1-Chlorooctane 102% 70-130

Surrogate 1-Chlorooctadecane 113% 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/27/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NW EXC EAST WALL (H100877-05)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27	
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35	
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80	

Surrogate 4-Bromofluorobenzene (PIE) 91.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	183	91.7	200	6.63	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	190	95.2	200	9.96	

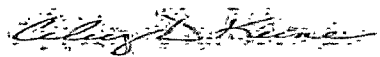
Surrogate 1-Chlorooctane 88.6 % 70-130

Surrogate 1-Chlorooctadecane 101 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/28/2011  
 Reported: 05/03/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/26/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NW EXC SOUTH WALL (H100877-06)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27		
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35		
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95		
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80		

Surrogate 4-Bromofluorobenzene (PIL) 92.7 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/02/2011	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	183	91.7	200	6.63	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	190	95.2	200	9.96	

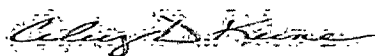
Surrogate 1-Chlorooctane 105 % 70-130

Surrogate 1-Chlorooctadecane 117 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/26/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NW EXC WEST WALL (H100877-07)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2011	ND	2.34	117	2.00	5.27	
Toluene*	<0.050	0.050	05/02/2011	ND	2.38	119	2.00	5.35	
Ethylbenzene*	<0.050	0.050	05/02/2011	ND	2.39	119	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/02/2011	ND	7.07	118	6.00	3.80	

Surrogate 4-Bromofluorobenzene (PIL) 90.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

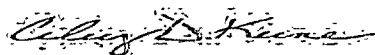
Surrogate 1-Chlorooctane 81.0 % 70-130

Surrogate 1-Chlorooctadecane 85.4 % 70-130

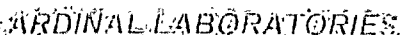
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Celey D. Keene, Lab Director/Quality Manager



(505) 393-2326 FAX (505) 393-2976 (325) 673-7000 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1) Carlisle cannot accept verbal changes. Please ask written changes to 505-399-176.

**Analytical Results For:**

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

Received:	04/28/2011	Sampling Date:	04/27/2011
Reported:	05/03/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: N EXC WEST WALL (H100879-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2011	ND	2.34	117	2.00	5.27	
Toluene*	<0.050	0.050	05/03/2011	ND	2.38	119	2.00	5.35	
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	2.39	119	2.00	3.95	
Total Xylenes*	<0.150	0.150	05/03/2011	ND	7.07	118	6.00	3.80	

Surrogate 4-Bromofluorobenzene (PIL) 91.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	05/02/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

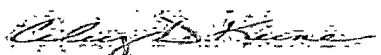
Surrogate 1-Chlorooctane 93.9 % 70-130

Surrogate 1-Chlorooctadecane 118 % 70-130

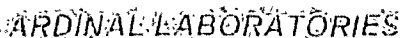
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

(T) Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

**Analytical Results For:**

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

Received: 04/29/2011  
Reported: 05/05/2011  
Project Name: RED FEDERAL WATER STATION AD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/28/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: W EXC NW CENT BTM @ 4.5' (H100883-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56	
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25	
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65	
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28	

Surrogate 4-Bromofluorobenzene (PIL) 91.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/02/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

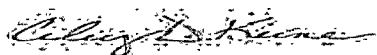
Surrogate 1-Chlorooctane 109 % 70-130

Surrogate 1-Chlorooctadecane 95.8 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/28/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W EXC NE CENT BTM @ 4.5' (H100883-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56		
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25		
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65		
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28		

Surrogate 4-Bromofluorobenzene (PIE) 94.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/02/2011	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

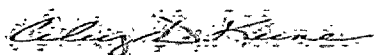
Surrogate 1-Chlorooctane 111 % 70-130

Surrogate 1-Chlorooctadecane 112 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/28/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W EXC SW CENT BTM @ 4.5' (H100883-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56	
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25	
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65	
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28	

Surrogate 4-Bromofluorobenzene (PII) 92.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/02/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

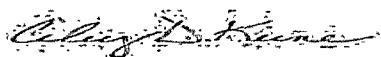
Surrogate 1-Chlorooctane 102 % 70-130

Surrogate 1-Chlorooctadecane 92.9 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/28/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W EXC SE CENT BTM @ 4.5' (H100883-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56		
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25		
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65		
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28		

Surrogate 4-Bromofluorobenzene (PIL) 92.3 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/02/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03		
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21		

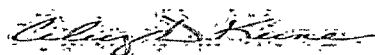
Surrogate 1-Chlorooctane 97.1 % 70-130

Surrogate 1-Chlorooctadecane 88.8 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/28/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W EXC W WALL (H100883-05)**

BTEX 8021B			mg/kg							
			Analyzed By: CMS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56		
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25		
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65		
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28		

Surrogate 4-Bromofluorobenzene (PIL) 93.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/02/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

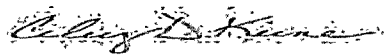
Surrogate 1-Chlorooctane 129 % 70-130

Surrogate 1-Chlorooctadecane 131 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/28/2011
Reported:	05/05/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: W EXC E WALL (H100883-06)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56		
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25		
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65		
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28		

Surrogate 4-Bromofluorobenzene (PIL) 91.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/02/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03		
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21		

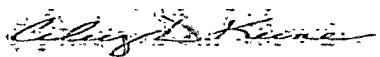
Surrogate 1-Chlorooctane 115 % 70-130

Surrogate 1-Chlorooctadecane 115 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/29/2011  
 Reported: 05/05/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/28/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: W EXC N WALL (H100883-07)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56		
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25		
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65		
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28		

Surrogate 4-Bromofluorobenzene (PIL) 93.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	05/02/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

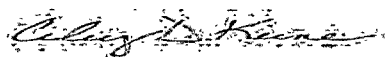
Surrogate 1-Chlorooctane 112 % 70-130

Surrogate 1-Chlorooctadecane 115 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/29/2011  
Reported: 05/05/2011  
Project Name: RED FEDERAL WATER STATION AD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/28/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: W EXC S WALL (H100883-08)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2011	ND	1.57	78.5	2.00	3.56		
Toluene*	<0.050	0.050	05/03/2011	ND	1.62	80.8	2.00	3.25		
Ethylbenzene*	<0.050	0.050	05/03/2011	ND	1.63	81.4	2.00	3.65		
Total Xylenes*	<0.150	0.150	05/03/2011	ND	4.83	80.5	6.00	3.28		

Surrogate 4-Bromofluorobenzene (PIL) 91.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/03/2011	ND	187	93.5	200	3.03	
DRO >C10-C28	<10.0	10.0	05/03/2011	ND	189	94.7	200	9.21	

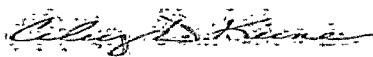
Surrogate 1-Chlorooctane 112 % 70-130

Surrogate 1-Chlorooctadecane 113 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache				<b>BILL TO:</b>				<b>ANALYSIS REQUEST</b>					
Project Manager: Natalie Gladden				P.O. #:				<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>					
Address:				Company:									
City: State: NM Zip:				Attn:									
Phone #: Fax #:				Address:									
Project #: Project Owner:				City:									
Project Name: Red Federal Water Station				State: Zip:									
Project Location:				Phone #:									
Sampler Name:				Fax #:									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR COMP.		MATRIX		PRESERV		SAMPLING	
						# CONTAINERS		GROUNDWATER		WASTEWATER		DATE TIME	
								WASTEWATER					
								SOIL					
								OIL					
								SLUDGE					
								OTHER					
								ACID/BASE					
								ICE / COOL					
								OTHER					
1110803		West Excavation NW Center Bottom @ 4.5'		1		1						4/28/11 02:30	
2		West Excavation NE Center Bottom @ 4.5'		1		1						02:35	
3		West Excavation SW Center Bottom @ 4.5'		1		1						02:40	
4		West Excavation SE Center Bottom @ 4.5'		1		1						02:45	
5		West Excavation West Wall		1		1						03:00	
6		West Excavation East Wall		1		1						03:05	
7		West Excavation North Wall		1		1						03:10	
8		West Excavation South Wall		1		1						03:15	

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Relinquished By:	Date: 4/29/11 Time: 7:30	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 4/29/11 Time: 9:10	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY:	REMARKS:	
Sampler: UPS - Bus - Other:	-62		email results. Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	

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

#26



**Analytical Results For:**

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

 Received: 04/29/2011  
 Reported: 05/06/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PT 1 BOTTOM WEST (H100891-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2011	ND	2.04	102	2.00	5.20	
Toluene*	<0.050	0.050	05/05/2011	ND	2.03	101	2.00	4.27	
Ethylbenzene*	<0.050	0.050	05/05/2011	ND	2.05	102	2.00	4.52	
Total Xylenes*	<0.150	0.150	05/05/2011	ND	6.09	101	6.00	4.43	

Surrogate 4-Bromofluorobenzene (PIE) 90.1 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/04/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2011	ND	237	118	200	0.0871	
DRO >C10-C28	35.8	10.0	05/04/2011	ND	260	130	200	4.30	

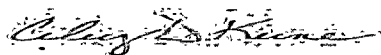
Surrogate 1-Chlorooctane 97.8 % 70-130

Surrogate 1-Chlorooctadecane 104 % 70-130

Cardinal Laboratories

\* = Accredited Analyte

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Celely D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/29/2011
Reported:	05/06/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT 2 BOTTOM CENTER (H100891-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2011	ND	2.04	102	2.00	5.20	
Toluene*	<0.050	0.050	05/05/2011	ND	2.03	101	2.00	4.27	
Ethylbenzene*	<0.050	0.050	05/05/2011	ND	2.05	102	2.00	4.52	
Total Xylenes*	<0.150	0.150	05/05/2011	ND	6.09	101	6.00	4.43	

Surrogate 4-Bromofluorobenzene (PIL) 93.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/04/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2011	ND	237	118	200	0.0871	
DRO >C10-C28	<10.0	10.0	05/04/2011	ND	260	130	200	4.30	

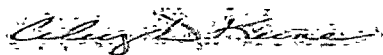
Surrogate 1-Chlorooctane 108 % 70-130

Surrogate 1-Chlorooctadecane 115 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/29/2011  
 Reported: 05/06/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PT 3 BOTTOM EAST (H100891-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2011	ND	2.04	102	2.00	5.20	
Toluene*	<0.050	0.050	05/05/2011	ND	2.03	101	2.00	4.27	
Ethylbenzene*	0.061	0.050	05/05/2011	ND	2.05	102	2.00	4.52	
Total Xylenes*	0.169	0.150	05/05/2011	ND	6.09	101	6.00	4.43	

Surrogate 4-Bromofluorobenzene (PIL) 90.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/04/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2011	ND	237	118	200	0.0871	
DRO >C10-C28	<10.0	10.0	05/04/2011	ND	260	130	200	4.30	

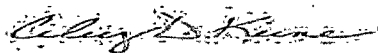
Surrogate 1-Chlorooctane 109 % 70-130

Surrogate 1-Chlorooctadecane 116 % 70-130

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/29/2011
Reported:	05/06/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: NORTH WALL CENTER (H100891-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2011	ND	2.04	102	2.00	5.20		
Toluene*	<0.050	0.050	05/05/2011	ND	2.03	101	2.00	4.27		
Ethylbenzene*	<0.050	0.050	05/05/2011	ND	2.05	102	2.00	4.52		
Total Xylenes*	<0.150	0.150	05/05/2011	ND	6.09	101	6.00	4.43		

Surrogate 4-Bromofluorobenzene (PIL) 93.7 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/04/2011	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/04/2011	ND	237	118	200	0.0871		
DRO >C10-C28	<10.0	10.0	05/04/2011	ND	260	130	200	4.30		

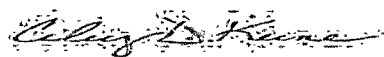
Surrogate 1-Chlorooctane 113 % 70-130

Surrogate 1-Chlorooctadecane 118 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/29/2011
Reported:	05/06/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SOUTH WALL CENTER (H100891-05)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2011	ND	2.04	102	2.00	5.20		
Toluene*	<0.050	0.050	05/05/2011	ND	2.03	101	2.00	4.27		
Ethylbenzene*	<0.050	0.050	05/05/2011	ND	2.05	102	2.00	4.52		
Total Xylenes*	<0.150	0.150	05/05/2011	ND	6.09	101	6.00	4.43		

Surrogate. 4-Bromofluorobenzene (PIL) 89.3 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/04/2011	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2011	ND	237	118	200	0.0871	
DRO >C10-C28	<10.0	10.0	05/04/2011	ND	260	130	200	4.30	

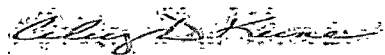
Surrogate. 1-Chlorooctane 112 % 70-130

Surrogate. 1-Chlorooctadecane 119 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/29/2011  
 Reported: 05/06/2011  
 Project Name: RED FEDERAL WATER STATION AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: EAST WALL CENTER (H100891-06)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2011	ND	2.04	102	2.00	5.20		
Toluene*	<0.050	0.050	05/05/2011	ND	2.03	101	2.00	4.27		
Ethylbenzene*	<0.050	0.050	05/05/2011	ND	2.05	102	2.00	4.52		
Total Xylenes*	<0.150	0.150	05/05/2011	ND	6.09	101	6.00	4.43		

Surrogate 4-Bromofluorobenzene (PIL) 94.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/04/2011	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2011	ND	237	118	200	0.0871	
DRO >C10-C28	<10.0	10.0	05/04/2011	ND	260	130	200	4.30	

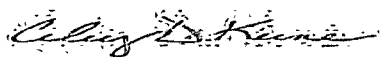
Surrogate 1-Chlorooctane 108 % 70-130

Surrogate 1-Chlorooctadecane 117 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	04/29/2011	Sampling Date:	04/29/2011
Reported:	05/06/2011	Sampling Type:	Soil
Project Name:	RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: WEST WALL CENTER (H100891-07)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2011	ND	2.04	102	2.00	5.20		
Toluene*	<0.050	0.050	05/05/2011	ND	2.03	101	2.00	4.27		
Ethylbenzene*	<0.050	0.050	05/05/2011	ND	2.05	102	2.00	4.52		
Total Xylenes*	<0.150	0.150	05/05/2011	ND	6.09	101	6.00	4.43		

Surrogate 4-Bromofluorobenzene (PIL) 94.1% 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/04/2011	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2011	ND	237	118	200	0.0871	
DRO >C10-C28	<10.0	10.0	05/04/2011	ND	260	130	200	4.30	

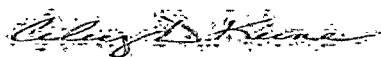
Surrogate 1-Chlorooctane 122% 70-130

Surrogate 1-Chlorooctadecane 126% 70-130

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corp.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
Project Manager: Natalie Gladden				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>TPH 8015-M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																				
Address: Apache Corp.				Company:																								
City: States NM Zip:				Attn:																								
Phone #: Fax #:				Address:																								
Project #: Project Owner:				City:																								
Project Name:				State: Zip:																								
Project Location: Red Federal Water Station				Phone #:																								
Sample Name: Robert Egoers				Fax #:																								
FOR (USE ONLY)																												
Lab ID:	Sample ID:	VEALS OR (COW)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME														
HIDOBART	PH1 Bottom West	G	1										4-29-11	1:00	V	V	V											
2	PH2 Bottom Center	G	1										4-29-11	1:05	V	V	V											
3	PH3 Bottom East	G	1										4-29-11	1:10	V	V	V											
4	North Wall Center	G	1										4-29-11	2:20	V	V	V											
5	South Wall Center	G	1										4-29-11	2:25	V	V	V											
6	East Wall Center	G	1										4-29-11	2:35	V	V	V											
7	West Wall Center	G	1										4-29-11	2:40	V	V	V											
		G	1																									
		G	1																									
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Relinquished By: <i>Nick Jones</i>		Date: 4-29-11		Received By: <i>Leei Benson</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		email results zconder@rice-ecs.com; lweinhelmer@rice-ecs.com Hconder@riceswd.com; Bbaker@rice-ecs.com Natalie.Gladden@usa.apachecorp.com																		
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:																				
Time:		Time:		Time:		REMARKS:																						
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																				
Samplers UPS Bus Other:				Cool Intact				Initials																				
				Yes No																								

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

2-7-6





# Appendix E

Final Form C-141

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