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.

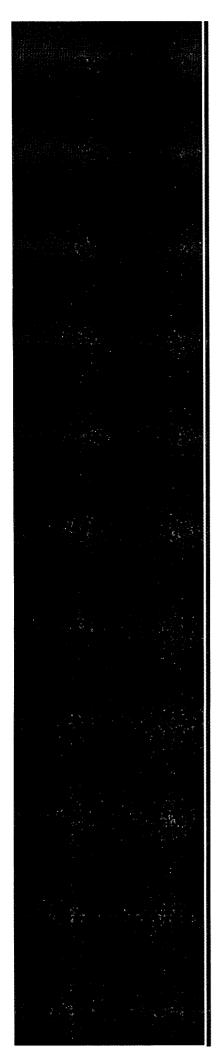
Sincerely,

we Bake

Bruce Baker Head Foreman RECS (575) 631-5157

Attachments:

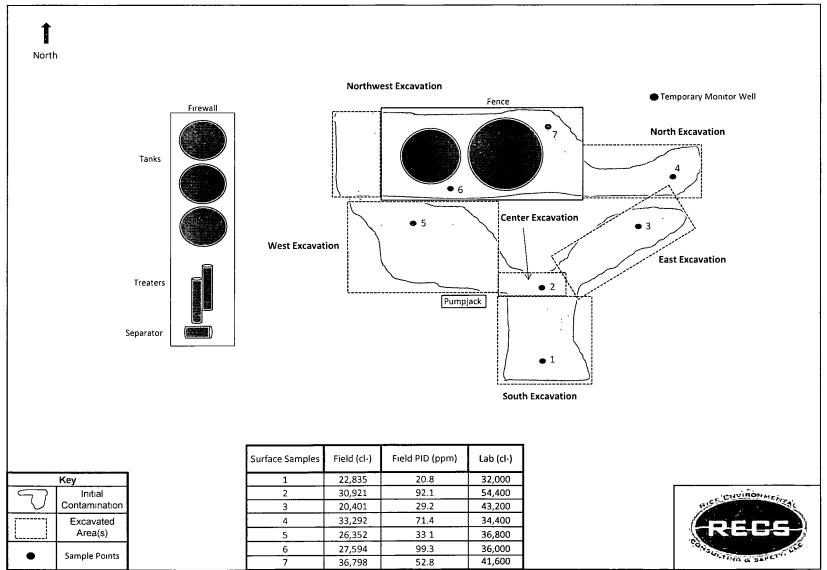
Figure 1:	Site Diagram with Surface Samples
Figure 2:	Site Diagram with Final Samples
Appendix A:	Initial Form C-141
Appendix B:	Temporary Monitoring Well Log, Letter of Groundwater Verification, and
	Plugging Report
Appendix C:	Site Photographs
Appendix D:	Laboratory Results
Appendix E:	Final Form C-141



Figures

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

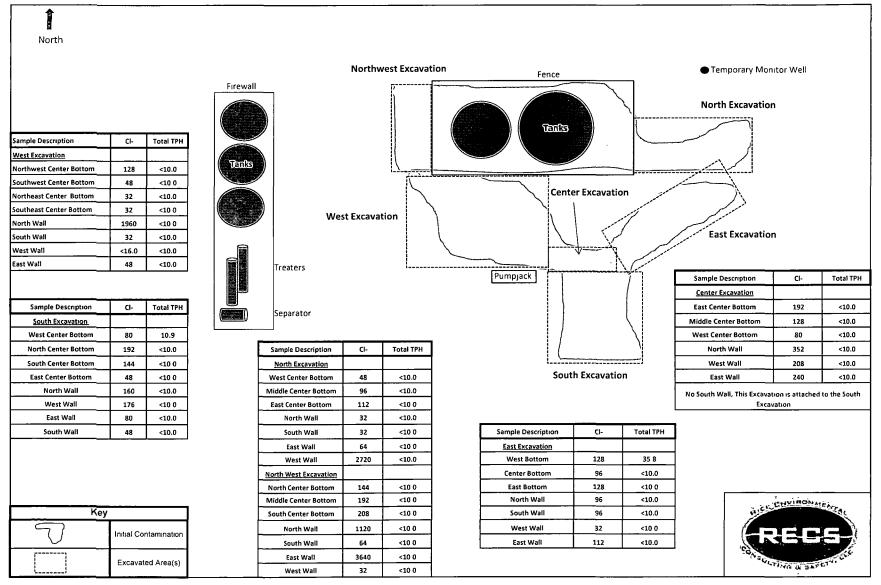
Figure 1: Site Diagram with Surface Samples

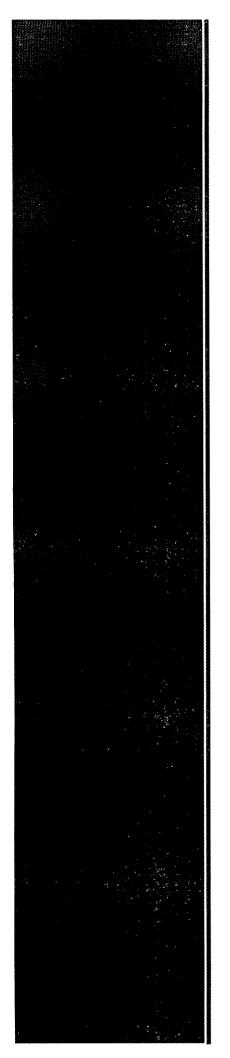


Red Federal Water Station

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

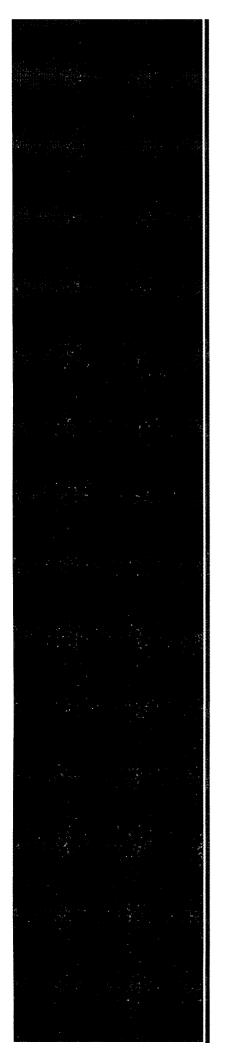
State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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						OPERA '	ГOR	🔀 Init	ial Report		Final Report		
Name of Co	mpany A	pache Corp	oration			Contact Natalie Gladden							
Address PC							No. 575-390-41						
Facility Nar	ne Red Fe	ed Water Sta	tion (nea	r Red Fed #2)		Facility Typ	e Water Station	<u> </u>					
Surface Ow	ner BLM			Mineral C)wner	State		API N	o. 30-015-1	30143			
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federal, state,					-								
OIL CONSERVATION DIVISION													
Signature:	\square	Ill	(77	laa	lr								
Printed Name	Natalie G	ladden	\bigcirc			Approved by	Environmental S _I	pecialist:					
Title: EHS E	nvironment	al Tech				Approval Dat	e:	Expiration	Date:				
E-mail Addre	ss: natalie.	gladden@apa	checorp.co	om		Conditions of	Approval:		Attached	П			
Date: 04/11	/11	Phone: 57	5-390-418	6						·			
											J		

* 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

Start Date End Date	Method: e: ents: ples take	Harrisor 4 4 n from	MP. M DRAF	er, Inc / 1 ell. W PLU	IGGED 5/11/2011 L. Weinheimer GW = none	Pro F Pro Loc	mpany: Apa aject Name: Red Federal V aject Consu cation: UL/J : N32°49.93 ng: W104°59	Well ID: Temp MW-1 R30E County: Eddy State: NM		
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10 ft										
15 ft		-+								
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										annular space
25 ft										> left open
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30 ft										5/11/2011
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35 ft										
40 ft										
		-+			RED BED CLAY					
45 ft					,					
EA //										
50 ft						<u> </u>				U I

Rice Environmental Consulting & Safety

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

July 7th, 2011

Natalie Gladden Apache Corp. P.O. Box 1849 Eunice, New Mexico 88231

Re: Apache Red Federal Water Station

Ms. Gladden,

On April 15th, 2011 RECS personnel drilled an observational well at the Red Federal Water Station. On April 31st, 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 Ana Bah

Bruce Baker / Head Foreman Rice Environmental Consulting & Safety



Monitor Well Plugging Report

-

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

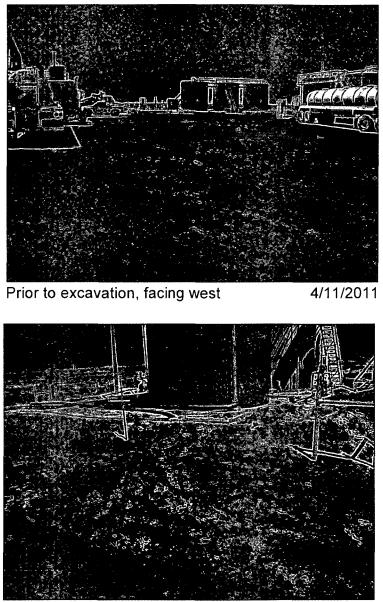
Client	Apache Corp.
Contractor	RECS
Date Completed	5/11/2011
Site	Red Federal Water Station
County	Eddy
Legal Description	UL/J sec. 17 T17S R30E
Well ID	Temp MW-1
Casing Diameter	2"
Well Depth	50'
Casing Material	PVC
Plugging Material	Bentonite

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

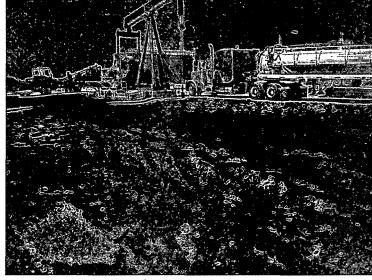
Red Federal Water Station

Unit J, Section 17, T17S, R30E



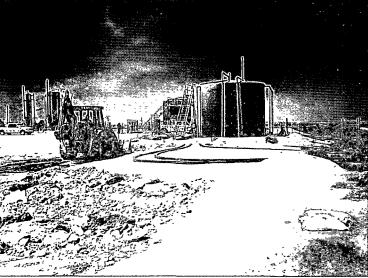
Prior to excavation, facing northeast

4/11/2011



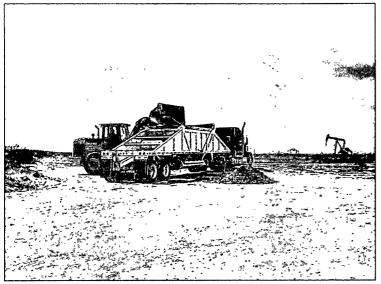
Prior to excavation, facing northwest

4/11/2011



Excavating, facing west

4/20/2011



Removing soil

4/20/2011



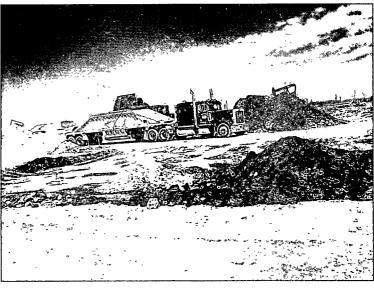
Collecting sample

4/21/2011



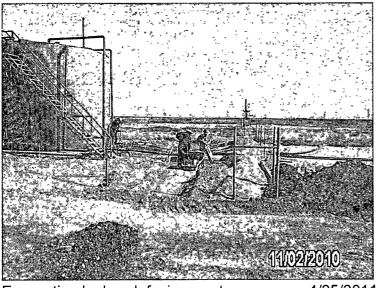
Collecting sample

4/21/2011



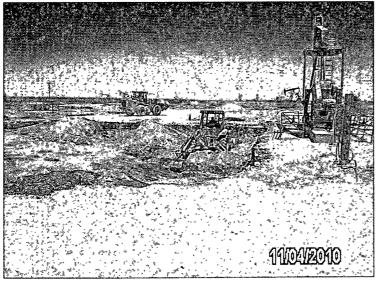
Removing soil

4/21/2011



Excavating by hand, facing west

4/25/2011



Excavating caliche pad, facing west

4/27/2011

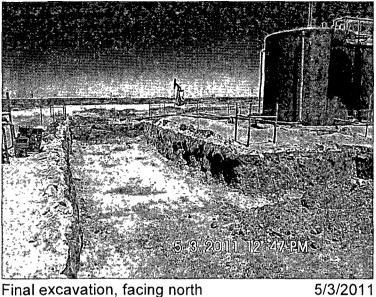


Excavating caliche pad, facing north 4/27/2011



Final excavation, facing east

5/3/2011

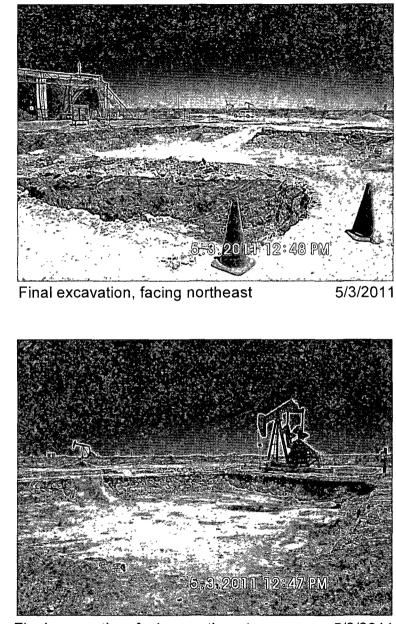


Final excavation, facing north

S. 6

Final excavation, facing northwest

5/3/2011



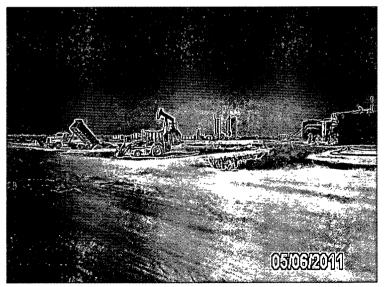
Final excavation, facing southeast

5/3/2011



Backfilling excavation, facing north

5/6/2011

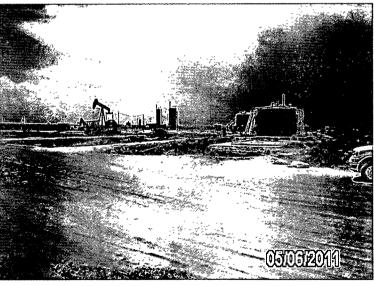


Backfilling excavation, facing southwest 5/6/2011

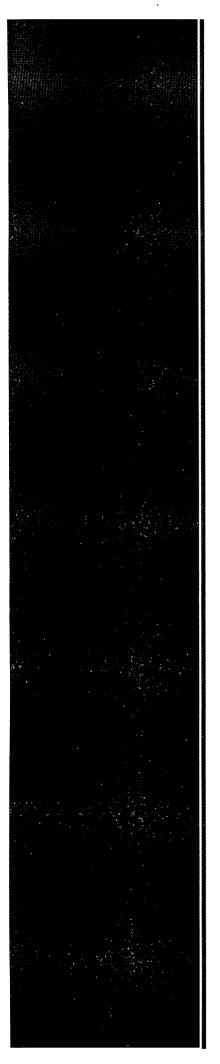


Backfilling excavation, facing south

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



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:	Jodı Henson
Project Location:	NOT GIVEN		

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

Chloride, SM4500Cl-B mg/kg			Analyze	d By: HM		<u>.</u>			
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, SM4500Cl-B mg/kg		Analyze	d 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, SM4500Cl-B	mg/	/kg	Analyze	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, SM4500Cl-B mg/kg		Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	⊤rue Value QC	RPD	Qualifier
Chloride	18400	16.0	04/25/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All daims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be leable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kenne-

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d By: HM				_	<u> </u>
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	Analyze	d By: HM			181811 AL 1 A BO L 1 A B		
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	Analyze	d 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	Analyze	d 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

PEASE NOTE Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitstoever shall be deemed waived unless made in writing and received by client, its calcinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based to how stated reasons or otherwase. Results relate only to the samples demified above. This reproduced except in full with mitten approval of Cardinal Laboratores.

Celez D. Keine-

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST.

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Company Name	(505)_393-2326 /FAX (505) 393-24				Τ		LL.TO					ANAL	YSIS	S. RE	QUE	ST.			
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 188240, 12111 Beechwood, Abilene, TX-79603 (505) 393-2326 FAX (505) 393:2476. (325) 673-7001 FAX (325)673-7020

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Delivered By: (Circle One):	
Sampler: UPS Busz Other?	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler: UPS Busz Other?	
NIL CALL NO DING - JUL	

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



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	Analyze	d 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-Biomofluorobenzene (PIL	92 2	% 70-130)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					. <u></u>
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	Analyze	d 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)						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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)			1000-00			
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	924	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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-Bi omofluorobenzene (PIL	934	% 70-130	I						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	1						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	ł						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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	,						

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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	Analyze	d 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*	0.069	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	914	% 70-130							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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)						
Survogate [,] 1-Chlorooctadecane	96 7	% 70-130)						

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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/l	kg	Analyze	d 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	9309	% 70-130	·						
Chlorida SM4500CL-B	ma //	ka	Analiga	d Rui UM					

Chloride, SM4500CI-B	mg/kg		Analyze	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		g/kg Analyze		d 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)						

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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	Analyze	d 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	1	· · · · · · · · · · · · · · · · · · ·					
Chloride, SM4500CI-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	Analyze	d 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 I-Chlorooctadecane	82 2	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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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)

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

Surrogate: 4-Bromofluorobenzene (PIL 91 1 % 70-130

Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	I						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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 I-Chlorooctadecane	80 0	% 70-130	•						

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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	Analyze	d 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 I-Chlorooctadecane	873	% 70-130)						

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Celiz D. Keine-

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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	(initials))	hconder@tice-ecs.com; Lweinheimer@rice-ecs.com
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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	Analyze	d 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	95 2	% 70-130							
Chloride, SM4500CI-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	Analyze	d 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 I	% 70-130							

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Celing D. Herner

Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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 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	Analyze	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	901	% 70-130)						
Surrogate [•] 1-Chlorooctadecane	887	% 70-130)						

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Celego Keine

Celey D. Keene, Lab Director/Quality Manager



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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	933	% 70-130							
Chloride, SM4500CI-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 % 70-13		I						
Surrogate 1-Chlorooctadecane	905	% 70-130							

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Celie Kene

Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	946	% 70-130							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	896	% 70-130	I						
Surrogate 1-Chlorooctadecane	874	% 70-130							

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Celiz Kiene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Bruce Baker	Time A CALL AND	Fax Result: Yes D Nov Add'I Fax #:
Relinquished By::	Date: Received By:	email results:
1.	Time:	Natalie.Gladden@usa.apachecorp.com;
		- Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)	Sample Condition CHECKED BY: Coop Unitact 4 (Initials),	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler - UPS - Bus - Other:	(initials),	

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



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	Analyze	d 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 (P1L	96 0	% 70-130							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	
Survogate 1-Chlorooctane	104 \$	% 70-130							
Surrogate: 1-Chlorooctadecane	104 \$	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg/	'kg	Analyze	d 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 (PIL	95 0	% 70-130							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: ck/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	04/28/2011	ND	220	110	200	3.58	
DR0 >C10-C28	10.3	10.0	04/28/2011	ND	211	105	200	2.94	
Surrogate 1-Chlorooctane	94 5	% 70-130							
Suriogate 1-Chlorooctadecane	929	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST.

ARDINALLÁBORATORIES

Company Name: Apache:		-					· . ·	÷.		3/	LL TO			-			ANAL	YSIS	RE	QUE	ST	-		
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Delivered By: (Circle One),	Samp	le Condition CHECKED BY:	
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(† [Čardinalːcannot accepî].vêrbal changes Please fax written changes to 505 393 2476



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	Analyze	d By: CMS			<u> </u>		
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	906	% 70-130							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	883	% 70-130							
Surrogate [•] I-Chlorooctadecane	923	% 70-130							

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Celiz D. Kenne-

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	936	% 70-130							
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	868	% 70-130							
Surrogate 1-Chlorooctadecane	92.8	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

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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/	íkg	Analyze	d 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	Analyze	d 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	Analyze	d 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	868	% 70-130)	, •					
Surrogate 1-Chlorooctadecane	93 0	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	Analyze	d 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	Analyze	d 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	918	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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)

960%

70-130

BTEX 8021B	mg/	kg	Analyze	d 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	940	% 70-130	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/29/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d 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)	<u>.</u>					

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Survogate 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 956% 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	ł						
Surrogate 1-Chlorooctadecane	105	% 70-130	ł						

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Celey D. Keene, Lab Director/Quality Manager



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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		Analyze	d 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	Anaiyze	d 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	917	% 70-130							
Surrogate. 1-Chlorooctadecane	96 <i>3</i>	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

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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	Analyze	d 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-Biomofluorobenzene (PIL	93 9	% 70-130							
Chloride, SM4500CI-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	Analyze	d 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 I-Chlorooctadecane	102	% 70-130	I.						

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Celey D. Keene, Lab Director/Quality Manager



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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,	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	

Sui rogate. 4-Bromofluorobenzene (PIL 91 2 % 70-130

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	I.						

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Celey D. Keene, Lab Director/Quality Manager



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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 WALL (H100867-06)

BTEX 8021B	mg/	kg	Analyze	d 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	946	% 70-130							
Chloride, SM4500CI-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	Analyze	d 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						<u>.</u> .	
Surrogate. 1-Chlorooctadecane	864	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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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 S WALL (H100867-07)

BTEX 8021B	mg,	/kg	Analyze	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 945% 70-130

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	
Sui rogate: 1-Chlorooctane	879	% 70-130)						-
Surrogate. I-Chlorooctadecane	915	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/29/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d 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	1						

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	k, 'Apāchē				-	T		B ند .	ILL TO	5 - 5° 		-		1	ANAL	YSIS	S- RE	QUE	ST			
Project Manage	Natalie Gladden		-			-	P.O.	#8.	· · ·		i i	ľ			ì			5				
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Sampler Name:	้ป์อ้rdan ฟีวิอัdโก		.				Fax				9	8 Ť		exas	ιÖ				ŀ			
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HIUDEDT	South Excavation West Center Bollom @ 4:5		1	1	✓			1	4/25/11	1 <u>1</u> :00 ·		1	<u> </u>							:		
1	South Excavation East Center Boltom @'4.5		·†		/	Ŀ		· 🖌	4/25/11.	11:05		1	1		; 				ļ			
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<u> </u>	South Excavation North Center Bottom @ 4:5'	٤.,	1.		<u>/</u>	,		1	4/25/11		1	1	<u>/</u>	1	1	;;		!		ļ <u>.</u>	!	
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PLEASE NOTE: Lawing and Examples, Candwards batals, and clearly archiver energy for any chain aroung whether based ar contract or loss table to barget or the summer han by the clear to provide the second of the s

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∂t		Time	Natalie: Gladden@usa.apachecorp.com;
	1 - 12 2 litering of a single state	TO DO UNDER MARKET	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
ł	Delivered By!" (Circle One)	Sample Condition	
1		Cool intact (Initals)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
'	Sampler UPS - Bus - Other::	(- (2) D) UYes UYes	
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t. Cardinal cannot accopt verbal changes: Please fax written changes to 505-393-24764

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

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

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

BTEX 8021B	mg/	kg	Analyze	d 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	938	% 70-130							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	
Survogate 1-Chlorooctane	96.3	70-130							
Surrogate I-Chlorooctadecane	972	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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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 Received By:	Jodi Henson

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 946% 70-130

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d 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 I-Chlorooctane	102	% 70-130							
Surrogate I-Chlorooctadecane	100 :	% 70-130	1						

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Celie Kune

Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	948	% 70-130	I						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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 I-Chlorooctane	907	% 70-130							
Surrogate. 1-Chlorooctadecane	916	% 70-130	1						

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Clay D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	9709	% 70-130)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d 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	828	% 70-130	1						

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Celey D. Keene, Lab Director/Quality Manager



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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 S WALL (H100868-05)

BTEX 8021B	mg,	/kg	Analyze	d 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 960% 70-130

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d 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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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	947	% 70-130							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					<u>.</u>
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	Analyze	d 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-Chlovooctadecane	106 9	% 70-130							

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Celey Di Keene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name	(505) 393-2326 FAX (505) 393-24	-					· [بر س عد		LL TO	· · · ·			÷	3	ANAL	YSIS	S' RE	QUE	ST		······································	•
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ŀĽąb(l.D.	Sample J.D.	(G)RAB.OR (C)OM	# CONTAINERS	GROUNDWATER!	solt	ÓİĹ.	SLUDGE	OTHER: ACID/BASE:	ICF/COOL 01HER	DÂTE	_ TIME		•• j	· · · · ·		Complet		1			-		- ,
HIDDODLES:1	North Excavation West Center Bollom @4.5		1	<u></u>	1				V:	4/26/11	1,1:00	·/`							<u> </u>				
2	North Excavation Middle Center Bottom @4.5	-	1	<u> </u>	1			_ _	V.		11:05		<u>.</u>	<u> </u>		<u>.</u>	;		<u> </u>				
	Norith Excavation East. Center Bottom @ 4.5		1	۱ <u>۱</u>		<u> </u>		4-	1		<u>11:10</u>	<u>.</u>	<u></u>	<u></u>	<u>.</u>				[ļ			
	North Excavation North Wally		<u>_</u>	-			<u>_</u>	ا ئىتىچ	V.		<u>. 11:30 .</u>	1		<u></u>	, ;,		<u></u>	!		1 			÷
······································	North Excavalion South Wall		1						V. 1		.11:40:			·*	<u>1</u>		:		- 		<u> </u>		
<u> </u>	NorthiExcavation		1-		-			<u> </u>	×		<u>11:50</u>	· · · ·				í	·	·	·				
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	Time And I was a grant A. C. C.	Natalie:Gladden@usa:apachecorp.com;
		Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)	U: Sample Condition CHECKED BY:	
	Cool Antact / (Initials)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler - UPS: - Bus Other:		
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t Cardinal cannot accept verbal changes: Please fax written changes to 505-393-2476



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	Analyze	d 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	911	% 70-130							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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 I-Chlorooctadecane	62 5	% 70-130	1						

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Celeg D. Herre-

Celey D. Keene, Lab Director/Quality Manager



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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

762%

70-130

		÷							
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	Analyze	d 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	616	% 70-130)		· · ·				

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Surrogate[•] 1-Chlorooctadecane

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Celes Herne-

Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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 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	Analyze	d 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	ł						

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Celiez Ditterne

Celey D. Keene, Lab Director/Quality Manager



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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		ŀ

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

BTEX 8021B	mg/	kg	Analyze	d 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, SM4500CI-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	Analyze	d 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	894	% 70-130	1						

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Eliz Di Kene

Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	917	% 70-130)						
Chloride, SM4500CI-B	mg/	'kg	Anaiyze	d 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	
ТРН 8015М	mg/	'kg	Analyze	d 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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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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, SM4500CI-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	Analyze	d 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	
	794	% 70-130							· · · · · · · ·
Surrogate 1-Chlorooctadecane	976	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished Bys	Dete: Releived By:	email results
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Delivered By: (Circle One)	Sumple Condition CHECKED BY: Cathy Innet Hult His-	Hönder@riceswd.com; Bbaker@rice-ecs.com Natalie.Gladden@usa.apachecorp.com
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APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

04/28/2011	Sampling Date:	04/27/2011
05/03/2011	Sampling Type:	Soil
RED FEDERAL WATER STATION AD	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Jodi Henson
NOT GIVEN		
	5/03/2011 RED FEDERAL WATER STATION AD NONE GIVEN	5/03/2011 Sampling Type: SED FEDERAL WATER STATION AD Sampling Condition: NONE GIVEN Sample Received By:

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

BTEX 8021B	mg/	/kg	Analyze	d 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 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	Analyze	d 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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Celeiz Differner

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	
Suri ogate. 4-Bromofluorobenzene (PIL	9459	% 70-130)						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Qualifie
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 %	6 70-130)						
Surrogate 1-Chlorooctadecane	120 %	6 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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	Qualifie
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	

Chloride, SM4500CI-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	Analyze	d 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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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	911	% 70-130)						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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



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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	Analyze	d 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	916	% 70-130)	<u> </u>					
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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



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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 SOUTH WALL (H100877-06)

BTEX 8021B	mg,	/kg	Analyze	d 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	927	% 70-130							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/02/2011	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d 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



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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	Analyze	d 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	Analyze	d 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	Analyze	d 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	854	% 70-130							

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Ciliz D. Freene-

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTOD? AND ANALYSIS REQUEST

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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:	Jodı Henson
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg/	/kg	Analyze	d 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	916	% 70-130	1			· - · ·			
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	, <i>.</i>						
Surrogate I-Chlorooctadecane	118	% 70-130	1						

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Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY AND ANALYSIS REQUEST

ARDINAL 4ABORATORIES. 10 (EastMailand) Honos, Nin 88290, 2111 Beechwood, Abilene, TX, 79503

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Gompany Name: Apache Corp.	BILL TO	ANALYSIS REQUEST
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Siater NM Zip:	Alini	
finia#:	Addiress:	
Project/Oviner	<u>Ĉily</u>	$ \Sigma_{70} \geq \Sigma_{70} \Sigma_{70} $
Project Name: Red Federal Water Station	Sìale Zip:	
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Sample: Name: Sor Jan Waod! fin	FaxII:	
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Sanpiter - UPSt - Bus - Other.	Taty Yes. William Nata	lē.Ģļādden@usa.apachecorp.com
ເງິ່ງໃດລິເປັນກີ່ສູ່ໄດ້ລົງໃນອັນສີ່ວິດີອີດເຊັ່ນ ເອົານ້ອມີດໃຫ້ສິກດູຍຮູ້ເຕັ້ງໂອລີຮູ້ອຳໂລີ້ນີ້. ໜ້າໃນອີກ ດີໃນລູກິດ	25110-505-393:2476: 	

Page 4 of 4



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:	Jodı Henson
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg/kg		Analyze	d 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	915	% 70-130							
Chloride, SM4500CI-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	Analyze	d 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 I-Chlorooctane	109	% 70-130							
Surrogate 1-Chlorooctadecane	958	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	945	% 70-130)						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM				<u></u>		
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	Analyze	d 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



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	Qualifie
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	

Chloride, SM4500CI-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	929	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager



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 STAT	FION 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		Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Qualifie
Chloride	32.0	16.0	05/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	888	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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

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

BTEX 8021B	mg/kg		Analyze	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	935	% 70-130	1						
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	Analyze	d 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	
Suriogate 1-Chloiooctane	129	% 70-130							
Surrogate 1-Chlorooctadecane	131 5	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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/l	(g	Analyze	d 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	9189	6 70-130							
Chloride, SM4500Cl-B	mg/l	٨g	Analyze	d 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/l	<g< td=""><td>Analyze</td><td>d By: AB</td><td></td><td></td><td></td><td></td><td></td></g<>	Analyze	d 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 I-Chlorooctane	115 %	5 70-130							

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Surrogate 1-Chlorooctadecane

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Celego Kerne

115 %

70-130

Celey D. Keene, Lab Director/Quality Manager



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:	Jodı Henson
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg,	/kg	Analyze	d 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-Biomofluorobenzene (PIL	93 6	% 70-130							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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



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 S WALL'(H100883-08)

BTEX 8021B	mg/	kg	Analyze	d 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	912	% 70-130)						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/02/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: AB			<u> </u>	•	
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)						

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apaché. BILL TO ANALYSIS, REQUEST Project Manager: Natalie Gladden P.O:#: Address: Company:; Cations/Anions. State: NM Zip: ĊÌtÿ?_ Attnik Phone # Fax # Address: **TPH 8015 M** City: Prolect Owner:: Project #: Texas TPH Chloridés Project Name: Red Federal Water Station. State:-Žip:: BTEX S: Phone #: Project Location: Ĕ Fax #: Sampler Name: SAMPLING Complete FOR LAR USE ONLY MATRIX PRESERV. GROUNDWATER WASTEWATER Sõile (C)OM Sample I.D. Lab I.D. (G)RAB:OR Z' ACID/BASE IĈĖ ('COOL <u>ội</u>t; sưựce OTHER & **ÖTHER** LNOO # TIME DATE 1170883-1 West Excavation NW Center Bollom @ 4.5 4/28/11 02:30 4 :V :1 4 V West Excavation NE Center Boltom @ 4.5 J 1 02:35 Ń Ĩ 1 Ĭ, 3 West Excavation SW Center Bollom @ 4:5 V. 1 1. 02:40 1 1 1 1 4 West Excavation SE Center Boltoin @ 4.5 1 02:45 . K., 1 ¥. 1 \checkmark West Excavation West Wall 03:00, .1 1 West Excavation'East Wall.' ¥., 03:05 'lö, 1 1 1. 1 1 03:10 - [-] West Excavation North Wall 1 1 1 3 West Excavation South Wall, 03:15 1 1

101 East Marland, Hobbs, NM 88240 22111; Beechwood, Abilene, TX 79603 (505):393-2326 EAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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!	Relinquietied By:	Date //7 9/11 Received By:	Phone Result: D Yes D No Add'l Phone #:
,			'Fax Result: D Yes: D No: Add'I Fax #:
1		Times 2	REMARKS:
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.1	and the second	Tomas was the first was a first was	Natalie Gladden@usa.apachecorp.com;
e .			Zconder@rice+ecs.com; Bbaker@rice+ecs.com;,
	Delivered By (Circle One)	Sample Condition , CHECKED BY:	
		Cool (Intact, (Initials))	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
	Sampler - UPS' - Bus - Other:	10. Cool. Jintăcta (1) Cool. Jintăcta (1) Ves.∐Yes (1) Ves. (1) V	

"¡†¿Cardinal cannot accept verbal changes: Please fax written, changes to \$05.393-2476-

#26



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 1 BOTTOM WEST (H100891-01)

BTEX 8021B	mg/	'kg	Analyze	d 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	90 1	% 70-130		<u> </u>					
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d 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	978	% 70-130							
Surrogate 1-Chlorooctadecane	104	% 70-130	1						

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Celey D. Keene, Lab Director/Quality Manager



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Soil
Cool & Intact
Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 70-130							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	05/04/2011	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB		<u>. </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	6 70-130)						
Surrogate 1-Chlorooctadecane	115 %	6 70-130	1						

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Celey D. Keene, Lab Director/Quality Manager



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 3 BOTTOM EAST (H100891-03)

BTEX 8021B	mg/	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	906	% 70-130							
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	128	16.0	05/04/2011	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: AB		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	1						
Suriogate 1-Chlorooctadecane	116	% 70-130	1						

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Celey D. Keene, Lab Director/Quality Manager



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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:	Jodı Henson
Project Location:	NOT GIVEN		

Sample ID: NORTH WALL CENTER (H100891-04)

BTEX 8021B	mg/	kg	Analyze	d 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, SM4500CI-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	Analyze	d 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							

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Surrogate. 1-Chlorooctadecane

118 %

70-130

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Celey D. Keene, Lab Director/Quality Manager

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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)

<10.0

112 %

119%

10.0

70-130

70-130

BTEX 8021B	mg/kg		Analyze	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		

ND

260

130

200

4.30

05/04/2011

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DRO >C10-C28

Surrogate 1-Chlorooctane Surrogate. 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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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: EAST WALL CENTER (H100891-06)

BTEX 8021B	mg/kg		Analyze	d 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, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	% 70-130								
Surrogate I-Chlorooctadecane	117 9	% 70-130								

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Celey D. Keene, Lab Director/Quality Manager



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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		Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	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	Analyze	d 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	1						

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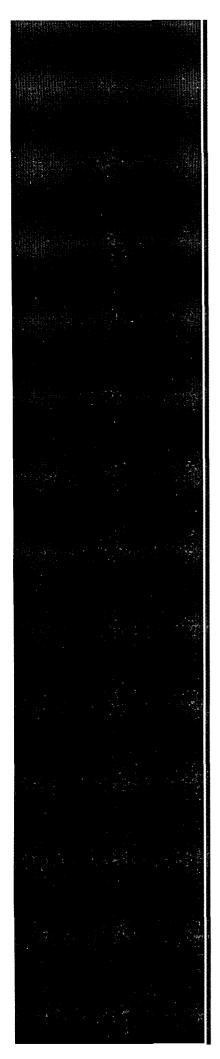
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company«Name		n að ming af sei sen	BILL TO		10111111111111111111111111111111111111	ند ماوانی و دور است. د.		ANAI	YSIS	REO	UEST	inntérent m	PRODUCT CONTRACTO	***********
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Phone #	/Fax,#:		Address:	1			-	Ăń						
Project #:	Projecí Ôŵnie	F	City.			\geq	1	1		de la	· .			ĺ
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Sampler Name:	KOBUT Egents	with we we	Eagle:				Texes	Ŭ,Ö	<u> </u>					
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	PF3 Bottom Fast		1. 41-79-11	1.10	1.		4							·
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	South Wall Center			2:25								·····		
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	West Wall Center			2.40.	<u> </u>		·	<u>: ا</u>		<u></u> 1	<u> </u>			
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Relinquished By	121-291	TReceived By:		Phone Res	sult: L	I Yes	. 연 Ho . 연 Ho	Tupy (Phone	H:	Calaboration			

ARDINAL LABORATORIES: 4019East Mailandi Ilobits, NM-88240 2114, Beechwood, Anilene, TX: 79603 4019East Abustandi Ilobits, NM-88240 2114, Beechwood, Anilene, TX: 79603

15:00 REMARKS: . COMACON Relinquished By Dute: email results zconder@rice-ecs.com; Lweinheimer@rice-ecs.com Hconder@riceswd.com; Bbaker@rice-ecs.com Time: Delivered By: (Circle:One) CHECKED BY: Sample Condition Coold Intact 14 Yes 14 Yes - 14 No 140 Natalië: Gladden@usa.apachecorp.com 50 Sampler-UPS - Bus - Omer: Tricalitinal control accept yelbel'changeser lease lax wintlen changes to 505-393,2476



Appendix E Final Form C-141

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