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1625 N. French District II	Dr., Hobbs, NM	L.	JAN	6 2012 St Energy M	inerals a	new Mex	lco l Resources	JAN U	o Z	Re	I vised Oc	Form C-14 tober 10, 200
<u>District III</u> 1000 Rio Brazos District IV	Avenue, Artesia Is Road, Aztec, P nois Dr., Santa Fe	NM 87410			South	vation Div St. Franc , NM 875	15 Dr. 🕵	RECE	IVED	Submit 2 C District wi	th Rule	o appropria n accordanc 116 on bac side of for
			Rele	ase Notifi				Action	1			
						OPERAT			🗌 Initia	al Report	\boxtimes	Final Rep
Name of Co Address P	O. Box 1849	pache Cor 9, Eunice,		31			Natalie Gladd Io. (575) 39			<u></u>		
	me Hanson S			-			e Production					
Surface Ow	vner SW C	attle Comp	any	Mineral	Owner	State of NM	[API No	. 30-025-	39563	
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			Lati	tude		9						
Type of Rele	ase Drilling f	 fluids		NAT	URE	OF RELI Volume of	EASE Release >30 b	bls	Volume F	Recovered)	
Source of Release Closed loop system							lour of Occurre			Hour of Dis		
Was Immedia	ate Notice Giv		Yes 🗌	No 🗌 Not R	equired	If YES, To Larry John	Whom?		10/2//201			
	Natalie Gladd course Reache						lour 10/27/10 Jume Impacting					
was a water	course reache		Yes 🛛	No			aune mpaeing	g the wat	cicouise.			
If a Watercou	urse was Impa	cted, Descri	be Fully.*			· · · · ·				· · · · ·		
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	use of Problem ng operations t			i Taken.* i had leaked, bin	s were ov	erflowed.						
Describe Are	NMOCD app	pad and an proved dispo	area of ap sal facility	en.* proximately 353 2. Samples of th 3,592 cubic yard	e remaini	ng soil were	sent to a comm	ercial labo	oratory for o	chloride, TP area.	H, and	BTEX
The leak imp removed to a analyses. Th I hereby certi	ify that the info	ormation giv	ven above	is true and comp	olete to th	e best of my	knowledge and	understa	nd that purs	suant to NM		
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The leak imp removed to a analyses. Th I hereby certi regulations al public health should their c or the environ federal, state, Signature: Printed Name Title: EH&S	ify that the info ll operators are or the environ operations hav nment. In add , or local laws e: Natalle Gla	ormation giv e required to ument. The re failed to a lition, NMO and/or regu	o report an acceptanc dequately CD accept lations.	d/or file certain e of a C-141 rep investigate and cance of a C-141	release no ort by the remediate report do	tifications at NMOCD m contaminati bes not reliev	nd perform corr arked as "Final on that pose a t e the operator of <u>OIL COI</u> ENV SPG District Superv e: 1(16) 12	ective act Report" of hreat to gr of respons NSERV LVAUST	ions for rele loes not reli round water ibility for c VATION	eases which ieve the oper s, surface wa ompliance w DIVISIC	may en ator of iter, hur ith any	liability nan health

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EXPLORING WHAT'S POSSIBLE

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APACHE CORPORATION

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

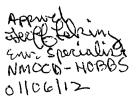
Hanson State #12

Closure Report Update

API 30-025-39563

Release Date: October 27, 2010

Unit Letter H, Section 16, Township 20S, Range 37E



Rice Environmental Consulting & Safety

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

December 22, 2011

Geoffrey Leking New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 1 1625 N. French Dr. Hobbs, NM 88240-9273

RE: TERMINATION REQUEST Apache – Hanson State #12 AD Groundwater Addendum UL/H sec. 16 T20S R37E

Mr. Leking:

Apache Corporation has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above. A brief review of the site background and previous work is followed by the groundwater addendum.

Background and Previous Work

The site is an accidental discharge of fluids at the Hanson State #12 well when the closed loop system leaked during drilling activities. A section of the impacted area was situated above a recently installed 20 mil plastic liner buried approximately 2 ft below ground surface (bgs). The liner was installed as an environmental safeguard prior to regular drilling activities during well pad construction (Figure 1 and 2). An initial form C-141 was submitted by Apache Corporation on October 31, 2011 (Appendix A). The site is located east of NM State Highway 8 and south of Monument, NM in unit letter 'H' of section 16, T20S, R37E in Lea County, New Mexico.

On October 28, 2011, RECS personnel initiated work on the Hanson State #12. Surface soil samples were collected from the impacted area outside the boundary of the buried plastic liner and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were sent to a commercial laboratory for chloride, TPH (GRO/DRO), and BTEX analyses (Figure 1).

As excavation of the leak area progressed, additional samples were collected and similarly field tested. The impacted area was divided into two major excavations and two minor excavations (Figure 2). Final representative composite samples were collected from the major excavations (North Excavation and West Excavation), and were also sent to a commercial laboratory for chloride, TPH (GRO/DRO), and BTEX analyses (Appendix C).

In the North Excavation, chloride was 96 ppm (parts per million or mg/kg) in the composite floor sample. The 4 wall composite sample contained 464 ppm chloride. The south wall contained one sample point that showed field tests to be above guidelines (Figure 2). However, due to the proximity of the well head and the presence of the 20 mil plastic liner below, excavation was ceased. TPH was non-detect throughout, and BTEX was below standards. In the West

Excavation, chloride was below guidelines in both the floor and wall composite samples. TPH was non-detect throughout, and BTEX was below standards.

Final composite samples were also collected from the walls and floor of the minor excavations in the pasture west of the location pad (West off Pad North Excavation and West off Pad South Excavation). The samples were field tested and were submitted to a commercial laboratory for chloride analysis (Appendix C). Results showed chloride for both excavations at not above 32 ppm.

A total of 3,116 cubic yards of impacted soil was removed from the excavations, including the impacted soils above the plastic liner on the well pad, and transported to a NMOCD approved disposal facility. The excavations were backfilled with 3,592 cubic yards of clean imported soil and contoured to the surrounding area. See Appendix C for photographs of field activities.

Groundwater Addendum

A study of the US Geological Survey groundwater database revealed depth to groundwater southwest of the site approximated 19 ft bgs (<u>http://nwis.waterdata.usgs.gov/nm/nwis</u>, Appendix E). On October 29, 2010, RECS supervised the drilling of three (3) soil bores/observational wells at the site to determine depth to groundwater. The soil bores were each drilled to 60 ft bgs and were located at the northwest, northeast, and southwest corners of the caliche pad. Red bed clay was encountered at 34 ft bgs and no water was detected within the soil bores (Appendix E). The soil bores were barricaded and left open to allow potential groundwater to accumulate.

On November 2, 2010, RECS personnel used a Heron depth to water meter to determine depth to groundwater. No water was detected within any of the soil bores, and the soil bores were plugged with bentonite to ground surface (Appendix E). See site photographs for drilling activities in Appendix E.

Conclusion

Due to the removal of impacted soils and the nonexistence of groundwater at the site, Apache submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

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

Sincerely,

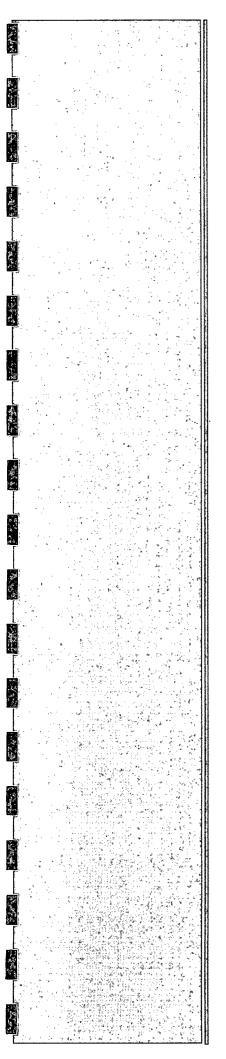
Bruce Bahen

Bruce Baker

Head Foreman RECS (575) 631-5157

Attachments:

monto.	
Figure 1:	Site Diagram with Surface Samples
Figure 2:	Site Diagram with Final Sample Data
Appendix A:	Initial Form C-141
Appendix B:	Site Photographs
Appendix C:	Laboratory Results
Appendix D:	Final Form C-141
Appendix E:	Groundwater Addendum Packet



Figure

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

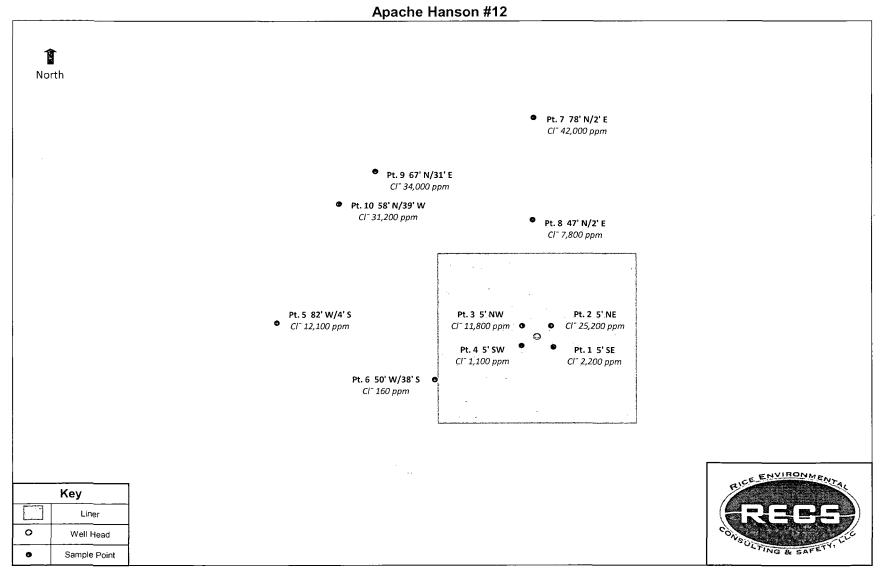


Figure 1: Site Diagram with Surface Samples

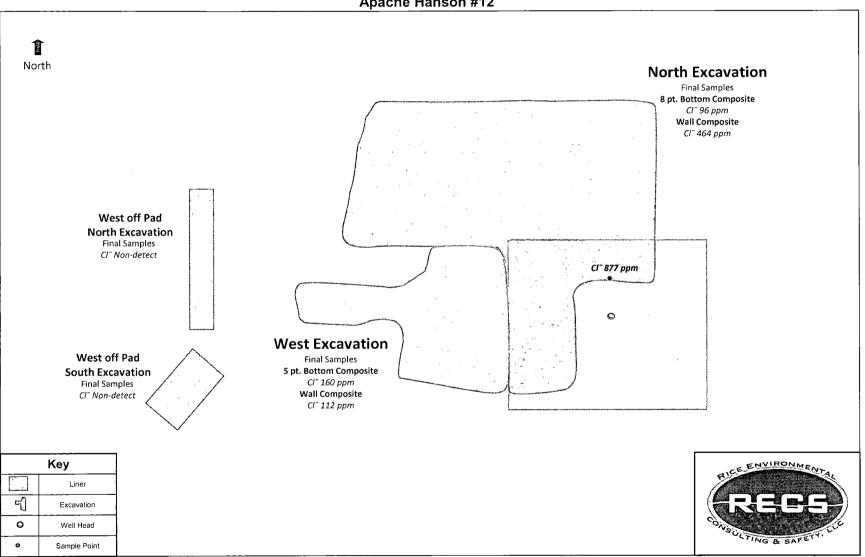
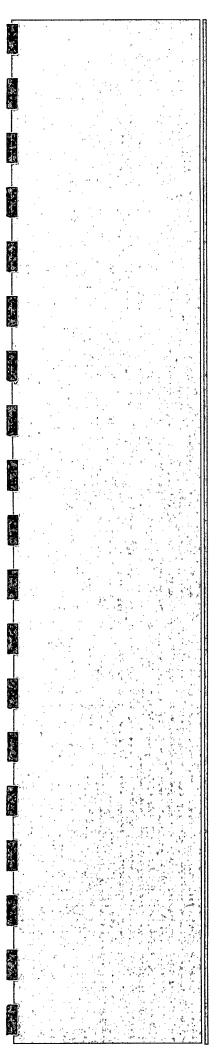


Figure 2: Site Diagram with Final Sample Data Apache Hanson #12

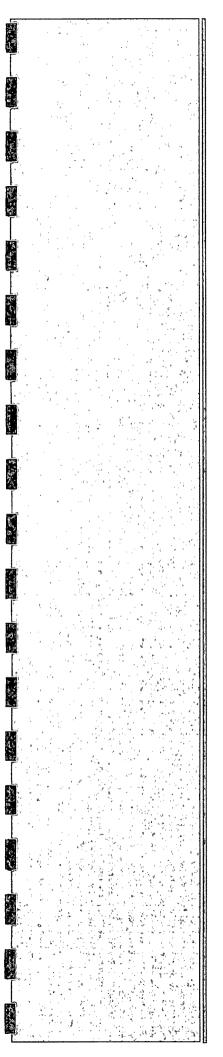


Appendix A Initial Form C-141

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

1220 S. St. Fran	cis Dr., Sant	a re, nm 8/50	о о	Sa	inta F	e, NM 875	05				
			Rel	ease Notific	catio	n and Co	orrective A	ction			
						OPERA	ГOR	🖂 In	itial Report		Final Report
		pache Corpo					talie Gladden				
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Surface Ow	ner SW C	Cattle Compa	iny	Mineral C)wner	State of NM		API]	No. 30-025-	39563	/ /
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Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/West Lin	e County		
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			La	titude		Longitud	e				
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Source of Re			1			1	lour of Occurrenc		d Hour of Dis	scovery	
Was Immedia	te Notice (Jiven?				10/27/2010 If YES, To		10/27/2	010		
			Yes 🗌	No 🗌 Not Re	equired	Larry John	son				
By Whom?	Natalie Gla	idden					lour 10/27 8am	L - 11/- 4			
Was a Water	course Read		Yes 🖂	No		II 125, VC	lume Impacting t	ne watercourse.			
If a Watercou	rse was Im	nacted Descr	ibe Fully *								
Describe Cau											
Describe Arc	Affected a pad has a p	and Cleanup A Poly liner 100	Action Tak	er the pad. The ar			l be excavated an	d the area outsid	c of the liner	will be	remediated
I hereby certing regulations all public health	fy that the i l operators or the envir	nformation gi are required to onment. The	ven above o report ar acceptanc	is true and comp id/or file certain ro e of a C-141 repo	elease n rt by th	otifications ar e NMOCD ma	nd perform correct arked as "Final Re	tive actions for a port" does not a	eleases which elieve the opc	may er rator of	ndanger Fliability
	ment. In a	ddition, NMC	CD accep	investigate and re tance of a C-141 n			e the operator of r	esponsibility for	compliance v	vith any	
Signature	fat	rlie (SI	bodde	en	Annuound her		SERVATIO		<u> </u>	
Printed Name	Natalie G	ladden		······			Environmental Sp				
Title: EHS En	vironmenta	l Tech				Approval Dat	8:	Expiratio	n Date:	<u> </u>	
E-mail Addres Date:		gladden@apa		om 75-390-4186	'	Conditions of	Approval:		Attached		

* Attach Additional Sheets If Necessary

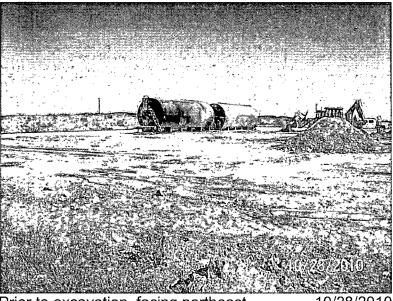


Appendix B Site Photographs

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

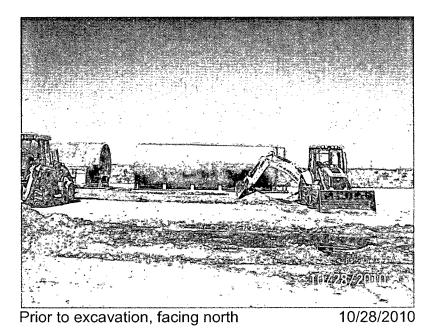
Hanson State #12

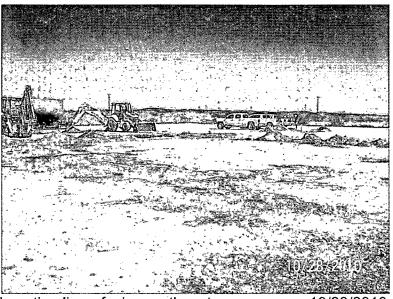
Unit Letter H, Section 16, T20S, R37E



Prior to excavation, facing northeast

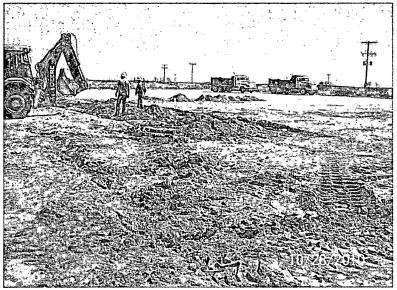
10/28/2010





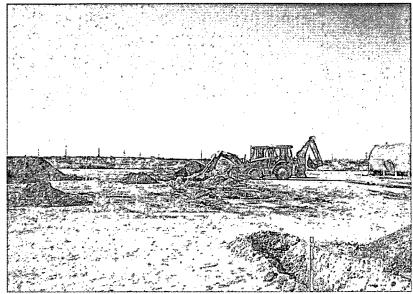
Locating liner, facing northeast

10/28/2010



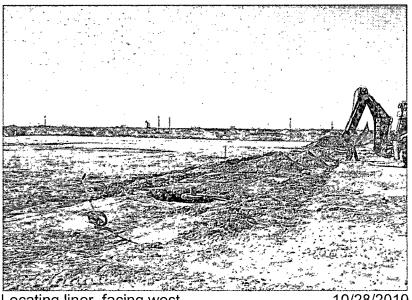
Locating liner, facing southeast

10/28/2010



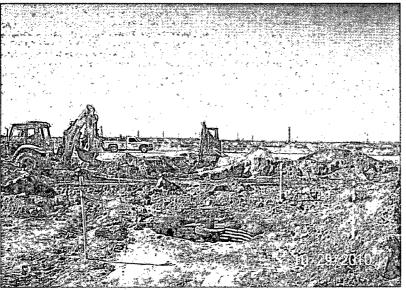
Locating liner, facing west

10/28/2010



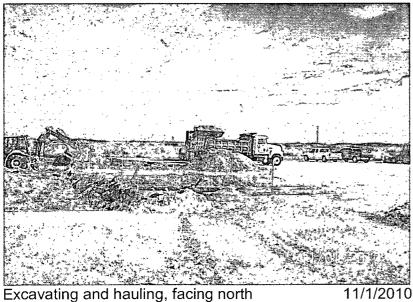
Locating liner, facing west

10/28/2010

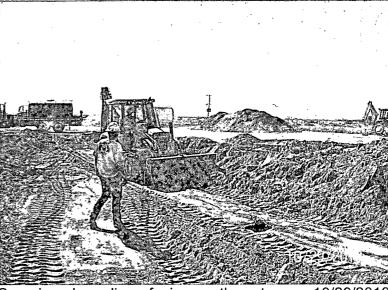


Excavating impacted area, facing west

10/29/2010

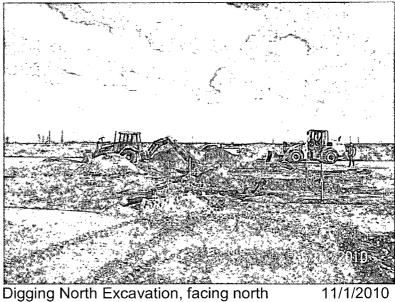


Excavating and hauling, facing north

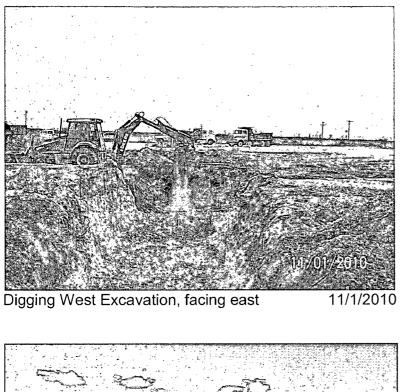


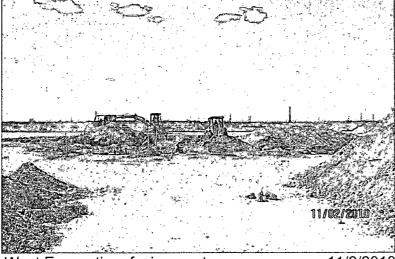
Scraping above liner, facing southwest

10/29/2010



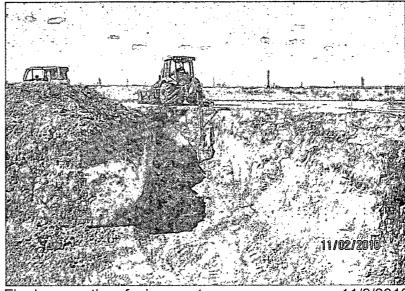
11/1/2010





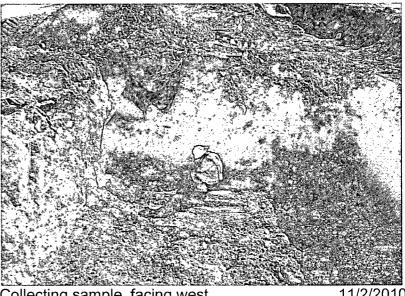
West Excavation, facing west

11/2/2010



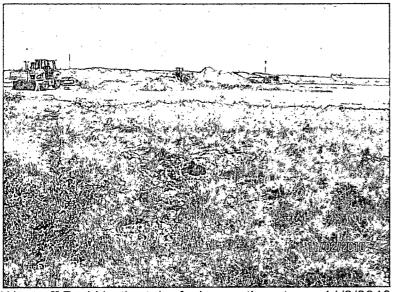
Final excavation, facing west

11/2/2010

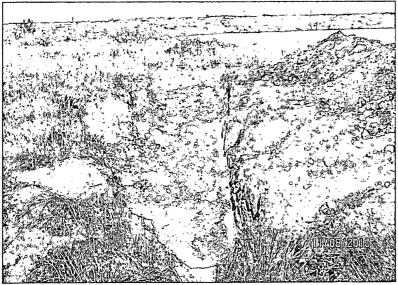


Collecting sample, facing west

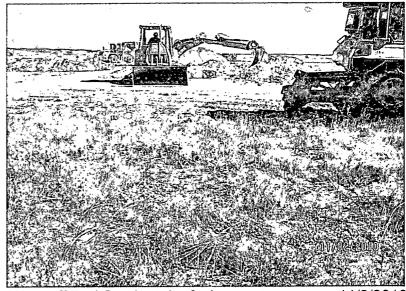
11/2/2010



West off Pad North stain, facing northeast 11/2/2010

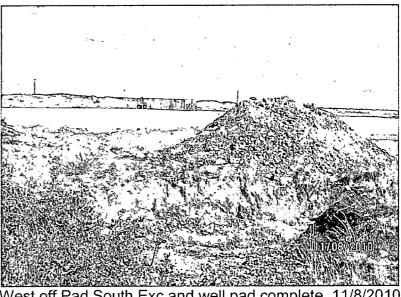


West off Pad North Excavation, facing north 11/8/2010



West off Pad South stain, facing east

11/2/2010



West off Pad South Exc and well pad complete 11/8/2010

Appendix C Laboratory Results

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



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/28/2010	Sampling Date:	10/28/2010
Reported:	11/03/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SAMPLE PT. 1 (H021173-01)

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	11/02/2010	ND	2.20	110	2.00		
Toluene*	0.258	0.050	11/02/2010	0.080	2.07	103	2.00		
Ethylbenzene*	0.215	0.050	11/02/2010	ND	1.98	98.9	2.00		
Total Xylenes*	0.832	0.150	11/02/2010	ND	5.91	98.5	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	92.69	6 80-120							
Chloride, SM4500CI-B	mg/	kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/29/2010	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	49.1	10.0	10/30/2010	ND	178	88.9	200	7.41	
DRO >C10-C28	4760	10.0	10/30/2010	ND	178	88.9	200	7.46	
Surrogate: 1-Chlorooctane	98.7 9	6 70-130		· · · · · · · · · · · · · · · · · · ·					
Surrogate: 1-Chlorooctadecane	109 %	6 70-130							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 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 lable for incidental or consequential damages, including within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including within thirty (30) days after scores of 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 taboratores.

Celey D. 1 Tune

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/28/2010	Sampling Date:	10/28/2010
Reported:	11/03/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SAMPLE PT. 2 (H021173-02)

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	11/02/2010	ND	2.20	110	2.00		
Toluene*	0.066	0.050	11/02/2010	0.080	2,07	103	2.00		
Ethylbenzene*	0.370	0.050	11/02/2010	ND	1.98	98.9	2.00		
Total Xylenes*	2.13	0.150	11/02/2010	ND	5.91	98.5	6.00		
Surrogate: 4-Bromofluorobenzene (P1L	86.9	% 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	10/29/2010	ND	448	112	400	3.64	
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	10/30/2010	ND	178	88.9	200	7.41	
DRO >C10-C28	1640	10.0	10/30/2010	ND	178	88.9	200	7.46	
Surrogate: 1-Chlorooctane	96.3	% 70-130							
Surrogate: 1-Chlorooctadecane	101 9	6 70-130							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/28/2010	Sampling Date:	10/28/2010
Reported:	11/03/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SAMPLE PT. 3 (H021173-03)

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	11/02/2010	ND	2.20	110	2.00		
Toluene*	0.187	0.050	11/02/2010	0.080	2.07	103	2.00		
Ethylbenzene*	<0.050	0.050	11/02/2010	ND	1.98	98.9	2.00		
Total Xylenes*	<0.150	0.150	11/02/2010	ND	5.91	98.5	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	91.0 9	80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	- Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	10/29/2010	ND	448	112	400	3.64	
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	10/30/2010	ND	178	88.9	200	7.41	
DRO >C10-C28	11400	50.0	11/02/2010	ND	178	88.9	200	7.46	
Surrogate: 1-Chlorooctane	97.4 9	% 70-130	· · · · · · · · · · · ·						

Surrogate: 1-Chlorooctadecane 135 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 10

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/28/2010	Sampling Date:	10/28/2010
Reported:	11/03/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SAMPLE PT. 4 (H021173-04)

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	11/02/2010	ND	2.20	110	2.00		
Toluene*	0.061	0.050	11/02/2010	0.080	2.07	103	2.00		
Ethylbenzene*	< 0.050	0.050	11/02/2010	ND	1.98	98.9	2.00		
Total Xylenes*	<0.150	0.150	11/02/2010	ND	5.91	98.5	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	91.2	% 80-120)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	10/29/2010	ND	448	112	400	3.64	
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	10/30/2010	ND	178	88.9	200	7.41	

ND

178

88.9

200

7,46

10/30/2010

Surrogate: 1-Chlorooctane 102 % 70-130 70-130

833

10.0

Surrogate: 1-Chlorooctadecane 104%

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DRO >C10-C28

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/28/2010	Sampling Date:	10/28/2010
Reported:	11/03/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SAMPLE PT. 5 (H021173-05)

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	11/02/2010	ND	2.20	110	2.00		
Toluene*	0.145	0.050	11/02/2010	0.080	2.07	103	2.00		
Ethylbenzene*	<0.050	0.050	11/02/2010	ND	1.98	98.9	2.00		
Total Xylenes*	<0.150	0.150	11/02/2010	ND	5.91	98.5	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	86.1	% 80-120							
Chloride, SM4500Cl-B mg/kg		/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12100	16.0	10/29/2010	ND	448	112	400	3.64	
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	<50.0	50.0	10/30/2010	ND	178	88.9	200	7.41	
DRO >C10-C28	2220	50.0	10/30/2010	ND	178	88.9	200	7.46	
Surrogate: 1-Chlorooctane	102	% 70-130							
Surrogate: 1-Chlorooctadecane	98.8	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/28/2010	Sampling Date:	10/28/2010
Reported:	11/03/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SAMPLE PT. 6 (H021173-06)

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	11/02/2010	ND	2.20	110	2.00		
Toluene*	0.415	0.050	11/02/2010	0.080	2.07	103	2.00		
Ethylbenzene*	0.081	0.050	11/02/2010	ND	1.98	98.9	2.00		
Total Xylenes*	0.390	0.150	11/02/2010	ND	5.91	98.5	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	94.8 9	6 80-120							
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/29/2010	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyzed 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	10/30/2010	ND	178	88.9	200	7.41	
DRO >C10-C28	17200	50.0	11/02/2010	ND	178	88.9	200	7.46	
Surrogate: 1-Chlorooctane	85.4 9	6 70-130							
Surrogate: 1-Chlorooctadecane	105 %	6 70-130							

Sample ID: SAMPLE PT. 7 (H021173-07)

Chloride, SM4500CI-B	ide, SM4500CI-B mg/kg		Analyze	Analyzed By: HM		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42000	16.0	10/29/2010	ND	464	116	400	3.51	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/28/2010	Sampling Date:	10/28/2010
Reported:	11/03/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SAMPLE PT. 8 (H021173-08)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						<u>_</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7800	16.0	10/29/2010	ND	464	116	400	3.51	

Sample ID: SAMPLE PT. 9 (H021173-09)

Chloride, SM4500Cl-B	mg,	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	10/29/2010	ND	464	116	400	3.51	

Sample ID: SAMPLE PT. 10 (H021173-10)

Chloride, SM4500Cl-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31200	16.0	10/29/2010	ND	464	116	400	3.51	

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476 Company Name: BILL TO ANALYSIS REQUEST ÷. NATALie GLAddews P.O. #: Project Manager: Apache Address: Company: City: State: Zip: Attn: Phone #: Fax #: Address: Project #: **Project Owner:** City: Project Name: State: Zip: Project Location: Apache HANGEN #12 Phone #: Bruce BAKER Sampler Name: Fax #: 5 SCIS MATRIX PRESERV. SAMPLING FOR LAB USE ONLY (G)RAB OR (C)OMP GROUNDWATER WASTEWATER SOIL CONTAINERS ACID/BASE: ICE / COOL OTHER : Sample I.D. 1-11 Lab I.D. H d SLUDGE OTHER : ; is_ 421173-٦. G DATE TIME 6 6 5.2 mple Pt.1 10 21 2 1 1. Strikt V 11 11 2 5 11 3744 11 2 11 3 6 3 11 ¥ 1: 40 sten 11 11.44.44 11 4 6, 1 . 1 10 \mathcal{V} " 5 6, 14 c_{i} 11.48.44 Ċ 11 11 6 **1** (11:53.44 11 11 7 6 id 11 11:56 6 11 11 \dot{c} : _V ÷٠ 11:52.54 (-) 11 21 ę 13:0070 ÿ M. : * ł: 11 11 10 130% 14 (0)

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atfiliates or successors arising out of or related to the performance or services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or chermise Relinquished By: Date: Received By: Phone Result: 🖸 Yes 🖾 No Add'l Phone # 12:44 410 Fax Result: Yes No |Add'| Fax #: Time; REMARKS: Bruce Borber Email NATAlic. Gladdente USA. Apachecorp.com 18 4000 Relinguished By Date: 128/10 Received By header @ Bice-ces.com Time: 10:15 Delivered By (Circle One) Sample Condition : CHECKED BY: 110 Rush CI- only Cool Intact Yes Yes No No (Initials) Sampler - UPS - Bus - Other:

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

Page 10 of 10

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Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/04/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: 20' OFF WEST SIDE OF PAD (H021213-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36400	16.0	11/04/2010	ND	432	108	400	3.77	
рН	pH	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	7.10	0.100	11/04/2010		7.05	101	7.00	0.428	

Sample ID: 4" WEST SIDE OF LOCATION (H021213-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/04/2010	ND	432	108	400	3.77	
pH	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.27	0.100	11/04/2010		7.05	101	7.00	0.428	

Sample ID: W EXCAVATION N CORNER (H021213-03)

Chloride,	SM4500CI-B	mg/kg		Analyzed By: HM						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		384	16.0	11/04/2010	ND	432	108	400	3.77	
pH		рН	Units	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pН		9.25	0.100	11/04/2010		6.97	99.6	7.00	0.431	

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Celuz D.+ Sune

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/04/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W S/E WALL (H021213-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.31	0.100	11/04/2010		6.97	99.6	7.00	0.431	

Sample ID: W EXCAVATION S CENTER (H021213-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.18	0.100	11/04/2010		6.97	99.6	7.00	0.431	

Sample ID: W EXCAVATION N/E CORNER (H021213-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	7.89	0.100	11/04/2010		6.97	99.6	7.00	0.431	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/04/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: WEST TRENCH - 5' (H021213-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/04/2010	ND	432	108	400	3.77	
pH	pH	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8,22	0.100	11/04/2010		6.97	99.6	7.00	0.431	

Sample ID: WEST SIDE LOCATION PAD (H021213-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM				•	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рH	12.8	0.100	11/04/2010		6.97	99.6	7.00	0.431	

Sample ID: W EXCAVATION N WALL (H021213-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	7.97	0.100	11/04/2010		6.97	99.6	7.00	0.431	

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/04/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W MIDDLE S/E CORNER 3' (H021213-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.18	0.100	11/04/2010		6.97	99.6	7.00	0.431	

Sample ID: W / NORTH CORNER 8' (H021213-11)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	11/04/2010	ND	432	108	400	3.77	
pH	рН	Units	Analyze	d By: HM					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.61	0.100	11/04/2010		6.97	99.6	7.00	0.431	

Sample ID: WEST EXCAVATION SW CORNER (H021213-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рH	8.08	0.100	11/04/2010		6.97	99.6	7.00	0.431	

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 13

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/04/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: WEST EXCAVATION N (H021213-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					. <u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.01	0.100	11/04/2010		7.04	101	7.00	0.249	

Sample ID: NW LOCATION OF PAD (H021213-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.53	0.100	11/04/2010		7.04	101	7.00	0.249	

Sample ID: N W CORNER OFF PAD (H021213-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	7.52	0.100	11/04/2010		7.04	101	7.00	0.249	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/04/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: SURFACE 10' WEST SIDE (H021213-16)

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	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.37	0.100	11/04/2010		7.04	101	7.00	0.249	

Sample ID: WEST EXCAVATION WEST WALL (H021213-17)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.15	0.100	11/04/2010		7.03	100	7.00	0.245	

Sample ID: WEST N/E CORNER (H021213-18)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	7.90	0.100	11/04/2010		7.03	100	7.00	0.245	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

11/02/2010	Sampling Date:	11/02/2010
11/04/2010	Sampling Type:	Soil
APACHE HANSON #12	Sampling Condition:	** (See Notes)
NONE GIVEN	Sample Received By:	Celey D. Keene
APACHE HANSON #12		
	11/04/2010 APACHE HANSON #12 NONE GIVEN	11/04/2010Sampling Type:APACHE HANSON #12Sampling Condition:NONE GIVENSample Received By:

Sample ID: W NORTH WALL 3' (H021213-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	9.38	0.100	11/04/2010		7.03	100	7.00	0.245	

Sample ID: N EXCAV. S WALL (H021213-20)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM					,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pН	7.94	0.100	11/04/2010		7.03	100	7.00	0.245	

Sample ID: WEST EXCAV S WALL CENTER (H021213-21)

Chloride, SM4500Cl-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	11/04/2010	ND	432	108	400	3.77	
рH	рН	Units	Analyze	d By: HM				- 4 - 1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рH	7.97	0.100	11/04/2010		7.03	100	7.00	0.245	

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/04/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W / SW CORNER 50' OFF PAD (H021213-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	11/04/2010	ND	432	108	400	3.77	
рН	рH	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.14	0.100	11/04/2010		7.03	100	7.00	0.245	

Sample ID: S /W SIDE OF WELLHEAD (H021213-23)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	16.0	11/04/2010	ND	432	108	400	3.77	
pH	рН	Units	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	9,05	0.100	11/04/2010		7.03	100	7.00	0.245	

Sample ID: S / E WALL 2' (H021213-24)

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	11/04/2010	ND	432	108	400	3.77	
рН	рН	Units	Analyze	d By: HM			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
рН	8.39	0.100	11/04/2010		7.03	100	7.00	0.245	

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name	Apache						BI	L	LTO				1	ANAL	YSIS	RE	QUES	ST		
Project Manage	r: Natalie Gladden				Ρ.Ο	D. #:														
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Sampler - UPS - Bus - Other:	2(.5) $ yes CAL$	Natalie. Oladden (gusa. apachecorp.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	/ pacino					194 C		Ri P	B	IL	LTO	hin Rea	\$				ANA	LYSIS	RE	QUE	ST		
Project Manage	r: Natalie Gladden					Р	.0.	#:															
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	Time:	Hconder@riceswd.com; Bbaker@riceswd.com
Delivered By: (Circle One)	Sample Condition CHECKED BY:	
Sampler - UPS - Bus - Other:	$\mathbb{Z}\left[, 5^{\circ} \left(\begin{array}{c} \text{Cool} \text{ Intact} \\ \mathbb{Y} \text{ vs } \mathbb{D} \text{ yes} \\ \text{No} \end{array} \right) \right] $	Natalie.Gladden@usa.apachecorp.com

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



Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: 20' OFF WEST SIDE OF PAD (H021213-01)

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	11/05/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	2940	10.0	11/05/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	11800	50.0	11/08/2010	ND					
Surrogate: 1-Chlorooctane	91.7	% 70-130)						
Surrogate: 1-Chlorooctadecane	94.3	% 70-130)						

Sample ID: 4" WEST SIDE OF LOCATION (H021213-02)

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	11/05/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/09/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	96.9	% 70-130)						
Surrogate: 1-Chlorooctadecane	103	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W EXCAVATION N CORNER (H021213-03)

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	11/05/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/09/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	93. I	% 70-130)						
Surrogate: 1-Chlorooctadecane	109	% 70-130)						

Sample ID: W S/E WALL (H021213-04)

TPH 8015M	mg/kg		Analyze	Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/09/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	97.3	% 70-130)						
Surrogate: 1-Chlorooctadecane	103	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W EXCAVATION S CENTER (H021213-05)

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	11/05/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/09/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	97.6	% 70-130)						
Surrogate: 1-Chlorooctadecane	115 9	% 70-130)						

Sample ID: W EXCAVATION N/E CORNER (H021213-06)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/09/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	88.5 9	% 70-130)						
Surrogate: 1-Chlorooctadecane	97.7 9	% 70-130)						

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Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: WEST TRENCH - 5' (H021213-07)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/09/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	93.5	% 70-130)			**************************************			
Surrogate: 1-Chlorooctadecane	93.4	% 70-130	I						

Sample ID: WEST SIDE LOCATION PAD (H021213-08)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/09/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	95.2	% 70-130)						
Surrogate: 1-Chlorooctadecane	97.5	% 70-130)						

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Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W EXCAVATION N WALL (H021213-09)

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	11/06/2010	ND	173	86.5	200	6.28	
DR0 >C10-C28	163	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	382	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	101 9	70-130	1			· · · · · ·			
Surrogate: 1-Chlorooctadecane	101 9	% 70-130)						

Sample ID: W MIDDLE S/E CORNER 3' (H021213-10)

TPH 8015M	mg/kg		Analyzed 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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	111	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	83.5	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	95.0	% 70-130)						
Surrogate: 1-Chlorooctadecane	96.5	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W / NORTH CORNER 8' (H021213-11)

TPH 8015M	mg,	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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	17.2	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	28.3	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	87.6	% 70-130)						
Surrogate: 1-Chlorooctadecane	96.2	% 70-130)						

Sample ID: WEST EXCAVATION SW CORNER (H021213-12)

TPH 8015M	mg/kg		Analyze	Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2010	ND	173	86.5	200	6.28	
DR0 >C10-C28	257	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	177	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	96.0 %	% 70-130)						
Surrogate: 1-Chlorooctadecane	97.19	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: WEST EXCAVATION N (H021213-13)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	10.3	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	16.5	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	96.7 \$	% 70-130)						
Surrogate: 1-Chlorooctadecane	100 %	% 70-130)						

Sample ID: NW LOCATION OF PAD (H021213-14)

TPH 8015M	mg/k	(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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	86.8 %	6 70-130	1						·
Surrogate: 1-Chlorooctadecane	87.4 %	6 70-130							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: N W CORNER OFF PAD (H021213-15)

TPH 8015M	mg/	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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	497	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	392	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	94.5	% 70-130)						
Surrogate: 1-Chlorooctadecane	108 9	% 70-130)						

Sample ID: SURFACE 10' WEST SIDE (H021213-16)

TPH 8015M	mg/	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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	88.4	% 70-130)						
Surrogate: 1-Chlorooctadecane	84.0	% 70-130)						

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Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: WEST EXCAVATION WEST WALL (H021213-17)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	89.2	% 70-130)						
Surrogate: 1-Chlorooctadecane	92.3	% 70-130)						

Sample ID: WEST N/E CORNER (H021213-18)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	93.3	% 70-130)						
Surrogate: 1-Chlorooctadecane	99.6	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: W NORTH WALL 3' (H021213-19)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	82.1	% 70-130	1				<u></u>		
Surrogate: 1-Chlorooctadecane	90.9	% 70-130)						

Sample ID: N EXCAV. S WALL (H021213-20)

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	11/06/2010	ND	173	86.5	200	6.28	
DRO >C10-C28	<10.0	10.0	11/06/2010	ND	165	82.7	200	2.58	
EXT DRO >C28-C35	<10.0	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	90.4	% 70-130)						
Surrogate: 1-Chlorooctadecane	93.5	% 70-130)						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		
Project Location:	APACHE HANSON #12		

Sample ID: WEST EXCAV S WALL CENTER (H021213-21)

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	11/06/2010	ND	171	85.3	200	15.6	
DRO >C10-C28	<10.0	10.0	11/06/2010	ND	167	83.5	200	5.47	
EXT DRO >C28-C35	<10.0	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	94.6	% 70-130)						
Surrogate: 1-Chlorooctadecane	97.8	% 70-130)						

Sample ID: W / SW CORNER 50' OFF PAD (H021213-22)

TPH 8015M	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2010	ND	171	85.3	200	15.6	
DRO >C10-C28	1040	10.0	11/06/2010	ND	167	83.5	200	5.47	
EXT DRO >C28-C35	2370	10.0	11/06/2010	ND					
Surrogate: 1-Chlorooctane	91.4	% 70-130)						
Surrogate: 1-Chlorooctadecane	87.7	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/02/2010	Sampling Date:	11/02/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	APACHE HANSON #12		

Sample ID: S /W SIDE OF WELLHEAD (H021213-23)

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	11/06/2010	ND	171	85.3	200	15.6	
DRO >C10-C28	4160	10.0	11/06/2010	ND	167	83.5	200	5.47	
EXT DRO >C28-C35	6760	50.0	11/08/2010	ND					
Surrogate: 1-Chlorooctane	92.1	% 70-130)						· · ·
Surrogate: 1-Chlorooctadecane	96.9	% 70-130)						

Sample ID: S / E WALL 2' (H021213-24)

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	11/06/2010	ND	171	85.3	200	15.6	
DRO >C10-C28	256	10.0	11/09/2010	ND	167	83.5	200	5.47	
EXT DRO >C28-C35	296	10.0	11/09/2010	ND					
Surrogate: 1-Chlorooctane	92.5	% 70-130)						
Surrogate: 1-Chlorooctadecane	94.8	% 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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Company Name	[:] Apache						R.	個內		B//	LL 1	ro	ine ann	í 8			1	ANA	_YSI8	S RE	QUE	ST		
Project Manager	Natalie Gladden						P.C). #	:															
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City:	State: NM	Zip	:				Att	n:										Cations/Anions			ł			ļ
Phone #:	Fax #:						Ad	dre	ss:						1-2			j.						ļ
Project #:	Project Owner	:					Cit	y:							Σ		-	S/P						į
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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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 20f3

Company Name	Apache					BI	LL TO	1				-	ANAL	YSIS	S RE	QUES	ST			
Project Manage	r: Natalie Gladden				Р.С	D. #:														
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Project #:	Project Owner	r:			Cit	y:			6	Σ		I	s/I							
Project Name:	Apache Hansen #12				Sta	ate:	Zip:		ğ	15	\times	ТРН	5							
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2/shan	Time: 100 (Nulle	REMARKS: Applastic bags
Relinquished By:	Date: Received By:	email results
	Time:	
Delivered By: (Circle One)	Sample Condition CHECKED BY:	Hconder@riceswd.com; Bbaker@riceswd.com
Derivered By: (Circle One)	Cool Intact (Initials)	Natalie.Gladden@usa.apachecorp.com
Sampler - UPS - Bus - Other:	$2(.5)$ $ _{No}$ $ _{No}$ $ _{No}$ $ _{No}$	Natalie.Glauden@usa.apachecorp.com

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Page 16 of 17



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Abacile						4.0	nian Litti	副出	B	IL	LTC		ni ilia					ANAI	YSIS	RE	QUES	ST			
Project Manage	r: Natalie Gladden					-	1	P.0	. #:		_															
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Project #:		Project Owner						City	: :						~	Σ		T	st I							
Project Name: /	Apache Hansen #12							Stat	te:		Z	Zip:			Chlorides	5	×	Texas TPH	Ŝ					ĺ		
Project Location	n: Apache Hansen #	12					1	Pho	ne	#:					i č	801	BTEX	5	ați,	TDS					1	
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FOR LAB USE ONLY						MATRI	x,	ľ	PRE	SER	<u>v</u>	SAM	PLIN	G	D	HdT		6	e							
Lab I.D.	Sample I.I		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	OIL SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OIHEK :	DATI		TIME					Complete Cations/Anions							
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 17 of 17

Analytical Results For:

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

Received:11/08/2010Reported:11/16/2010Project Name:HANSON #12Project Number:NONE GIVENProject Location:NOT GIVEN

Sampling Date:	11/05/2010
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Jodi Henson

Sample ID: 40' W OF PAD S@6" (H021244-01)

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	11/15/2010	ND	2.14	107	2.00	11.3	
Toluene*	<0.050	0.050	11/15/2010	ND	2.03	102	2.00	6.55	
Ethylbenzene*	<0.050	0.050	11/15/2010	ND	1.84	92.2	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/15/2010	ND	5.61	93.5	6.00	5.19	
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 80-120							
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	11/08/2010	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	11/12/2010	ND	153	76.6	200	1.93	
DRO >C10-C28	<10.0	10.0	11/12/2010	ND	179	89.5	200	2.64	
Surrogate: 1-Chlorooctane	94.2	% 70-130							
Surrogate: 1-Chlorooctadecane	97.2	% 70-130							

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Celey D.1 Sune

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:11/08/2010Reported:11/16/2010Project Name:HANSON #12Project Number:NONE GIVENProject Location:NOT GIVEN

Sampling Date:11/05/2010Sampling Type:SoilSampling Condition:Cool & IntactSample Received By:Jodi Henson

Sample ID: 22' W PAD CENTER @ 6'' (H021244-02)

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	11/15/2010	ND	2.14	107	2,00	11.3	
Toluene*	0.055	0.050	11/15/2010	ND	2.03	102	2.00	6.55	
Ethylbenzene*	<0.050	0.050	11/15/2010	ND	1.84	92.2	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/15/2010	ND	5.61	93.5	6.00	5.19	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 80-120							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	11/08/2010	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	11/12/2010	ND	153	76.6	200	1.93	
DRO >C10-C28	152	10.0	11/12/2010	ND	179	89.5	200	2.64	
Surrogate: 1-Chlorooctane	99.9	% 70-130							
Surrogate: 1-Chlorooctadecane	99.1	% 70-130							

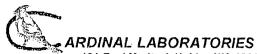
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name										ė dai	B	IL	LTO						A	NAL	YSIS	RE	QUE	ST			
Project Manage	r: Natalie Glad	den							P.0	. #:																	
Address:									Cor	npa	ny:										1]	
City:		State: NM	Zip	:		*****			Attr	1:													l				
Phone #:		Fax #:							Ado	Ires	s:																
Project #:		Project Owner	r:						City	:					1 0	ĮΣ											
Project Name:	;;;;								Stat	te:		Z	Zip:		ğ	2	· >	<									
Project Location	n: Hanson, #15	3							Pho	ne	#:				Chlorides	801		u									
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Lab I.D.	Sample I.I	<i>C</i>	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	ol	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OIHEK :	DATE	TIME		}—										•	•
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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

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Analytical Results For:

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

Received:	11/03/2010	Sampling Date:	11/03/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intacl
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	APACHE HANSON #12		

Sample ID: NORTH EXC 8 PT BOT COMP @ 4' (H021220-01)

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	11/05/2010	ND	2.26	113	2.00		
Toluene*	0.096	0.050	11/05/2010	ND	2.11	106	2.00		
Ethylbenzene*	<0.050	0.050	11/05/2010	ND	2.06	103	2.00		
Total Xylenes*	0.365	0.150	11/05/2010	ND	6.23	104	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	89.7	% 80-120							
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	11/04/2010	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	11/05/2010	ND	195	97.7	200	16.6	
DRO >C10-C28	<10.0	10.0	11/05/2010	ND	152	75.9	200	3.36	
Surrogate: 1-Chlorooctane	88.7	% 70-130							
Surrogate: 1-Chlorooctadecane	95.0	% 70-130							

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Celey L Kune

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/03/2010	Sampling Date:	11/03/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	APACHE HANSON #12		

Sample ID: NORTH EXC 4 WALL COMP (H021220-02)

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	11/05/2010	ND	2.26	113	2.00		
Toluene* 🔨	0.374	0.050	11/05/2010	ND	2.11	106	2.00		
Ethylbenzene*	0.210	0.050	11/05/2010	ND	2.06	103	2.00		
Total Xylenes*	0.818	0.150	11/05/2010	ND	6.23	104	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	<i>99.2</i> 9	% 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/04/2010	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	11/05/2010	ND	195	97.7	200	16.6	
DRO >C10-C28	<10.0	10.0	11/05/2010	ND	152	75.9	200	3.36	
Surrogate: 1-Chlorooctane	89.4 9	70-130				·····			
Surrogate: 1-Chlorooctadecane	98.19	% 70-130							

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Celey D.t Kune

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/03/2010	Sampling Date:	11/03/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	APACHE HANSON #12		

Sample ID: WEST EXC 5 PT BOT COMP (H021220-03)

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	11/05/2010	ND	2.26	113	2.00		
Toluene*	0.090	0.050	11/05/2010	ND	2.11	106	2.00		
Ethylbenzene*	<0.050	0.050	11/05/2010	ND	2.06	103	2.00		
Total Xylenes*	0.185	0.150	11/05/2010	ND	6.23	104	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	82.7	% 80-120							
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/04/2010	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	11/05/2010	ND	195	97.7	200	16.6	
DRO >C10-C28	<10.0	10.0	11/05/2010	ND	152	75.9	200	3.36	
Surrogate: 1-Chlorooctane	91.4	% 70-130	<u></u>			· · · ·			
Surrogate: 1-Chlorooctadecane	93.1	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	11/03/2010	Sampling Date:	11/03/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	APACHE HANSON #12		

Sample ID: WEST EXC 4 WALL COMP (H021220-04)

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	11/05/2010	ND	2.26	113	2.00		
Toluene*	<0.050	0.050	11/05/2010	ND	2.11	106	2.00		
Ethylbenzene*	<0.050	0.050	11/05/2010	ND	2.06	103	2.00		
Total Xylenes*	<0.150	0.150	11/05/2010	ND	6.23	104	6.00		
Surrogate: 4-Bromofluorobenzene (PIL	87.0	% 80-120							
Chloride, SM4500CI-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/04/2010	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	11/05/2010	ND	195	97.7	200	16.6	
DRO >C10-C28	<10.0	10.0	11/05/2010	ND	152	75.9	200	3.36	
Surrogate: 1-Chlorooctane	87.1	% 70-130							
Surrogate: 1-Chlorooctadecane	92.6	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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City: Hobbs	State: NM	Zip	: 88	240)			Attn:							5									
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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Analytical Results For:

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

11/08/2010	Sampling Date:	11/08/2010
11/09/2010	Sampling Type:	Soil
APACHE HANSON #12	Sampling Condition:	** (See Notes)
NONE GIVEN	Sample Received By:	Jodi Henson
APACHE HANSON #12		
	11/09/2010 APACHE HANSON #12 NONE GIVEN	11/09/2010Sampling Type:APACHE HANSON #12Sampling Condition:NONE GIVENSample Received By:

Sample ID: W OFF PAD S EXC BTM (H021248-01)

Chloride, SM4500CI-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD S EXC N WALL (H021248-02)

Chloride, SM4500CI-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD S EXC S WALL (H021248-03)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD S EXC E WALL (H021248-04)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD S EXC W WALL (H021248-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	* Aparche										B	IL	LTO						ANA	LYS	S RE	QUE	ST			
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Project #:		Project Owner	:		·				City	:																
Project Name:	Appache Hans								Stat	e:		Z	Zip:													
Project Locatio	n: Amache Hans								Pho	ne #	#:					ł			1		1					
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FOR LAB USE ONLY	Sample I.I		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	1			OTHER :				SAMPL	TIME	C =											
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Time:

Delivered By: (Circle One)

Sampler UPS - Bus - Other:

Sample Condition

Cool Intact



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Analytical Results For:

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

Received:	11/08/2010	Sampling Date:	11/08/2010
Reported:	11/09/2010	Sampling Type:	Soil
Project Name:	APACHE HANSON #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	APACHE HANSON #12		

Sample ID: W OFF PAD N EXC BTTM (H021249-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD N EXC N WALL (H021249-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD N EXC S WALL (H021249-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD N EXC E WALL (H021249-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

Sample ID: W OFF PAD N EXC W WALL (H021249-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2010	ND	416	104	400	0.00	

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Celey D.t Sune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	(JUJ) JJU-2020 TAX					_		-122			DI	LL TO		-					Vel		QUE	et.			
Project Manage	»: Apache n: Natalie Gla							-6	.0.							1	r '			3 KE	T	<u></u>			
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City:		State:	Zip	:				_ <u> </u> ^	ttn:								ļ								1
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Project #:		Project Owner	:					C	ity:]								Í
Project Name:	Apache HA.							s	tate	:		Zip:			1										
Project Locatio	n: Apache Han	USON #12						P	hor	ne #:					ĺ										ĺ
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FOR LAB USE ONLY						MA	TRIX		P	RES	ERV	SAMPL	ING						1						
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analyses. All chims includ	and Damages. Cardinal 6 lability and diel ling those for negligence and any other ci Cardinal be liable for incidental or conseq	ause whatsoever shall be	deemed	d walve	ed unless	s made i	n writing	y and re	ceive	d by Ca	a: dinal	within 30 days aft	er completion of 1	the applica	rble										
affiliates or successors aris	sing out of or related to the performance of	of services hereunder by C	ardinal	l, regar	diess of	whether							asons or otherwi	be.			No	i A dall	Rhore	. 11.			كالفرار فيستحق		
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Derivered By	/: (Circle One)				3	ample	- cou	anno	0 j -			NEV DT:	1												

(Initials)

Cool Intact

Yes Yes

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

24

Sampler - UPS - Bus - Other:

Page 4 of 4

Appendix \mathbb{D} Final Form C-141

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19 A.

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

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

Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

4	OPERATOR	Initial Report	\boxtimes	Final Report
Name of Company Apache Corp.	Contact Natalie Gladden	 		
Address P.O. Box 1849, Eunice, NM, 88231	Telephone No. (575) 390-4186	 		
Facility Name Hanson State #12	Facility Type Production			

Surface Owner SW Cattle Company Mineral Owner State of NM API No. 30-025-39563

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Н	16	20S	37E	1650	FNL	330	FEL	Lea

Latitude___ _____ Longitude

NATURE OF RELEASE

Type of Release Drilling fluids	Volume of Release >30 bbls	Volume Recovered 0
Source of Release Closed loop system	Date and Hour of Occurrence	Date and Hour of Discovery
	10/27/2010	10/27/2010
Was Immediate Notice Given?	If YES, To Whom?	
Yes No Not Required	,	
By Whom? Natalie Gladden	Date and Hour 10/27/10 8am	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.
🗌 Yes 🛛 No		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*	~ .	
During drilling operations the closed loop system had leaked, bins were	overflowed.	
Describe Area Affected and Cleanup Action Taken.*		
The leak impacted the well pad and an area of approximately 353 ft ² loca	ated west of the well pad. The impacte	d soil, totaling 3,116 cubic yards, was
removed to a NMOCD approved disposal facility. Samples of the remai	ning soil were sent to a commercial lab	poratory for chloride, TPH, and BTEX
analyses. The excavations were backfilled with 3,592 cubic yards of cle	an imported soil and contoured to the s	surrounding area.
	-	-
I hereby certify that the information given above is true and complete to	the best of my knowledge and understa	and that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release		
public health or the environment. The acceptance of a C-141 report by t		
should their operations have failed to adequately investigate and remedia		
or the environment. In addition, NMOCD acceptance of a C-141 report		
federal, state, or local laws and/or regulations.	and a second	
	OIL CONSERV	VATION DIVISION
	OIL CONSER	VATION DIVISION
Signature: ARALL AVOON	- ENV. SPECIALIS	 .
Printed Name: Natalle Gladden	Approved by District Supervisor.	Mar PR Palping
		- Ober De Mar Ann Y
Title, EU.9.C Environmental Teach	Annual Deteration 11-	Emination Data -
Title: EH&S Environmental Tech	Approval Date: 11312	Expiration Date:
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval:	Attached
Date: Phone: (575) 390-4186		IRP-1-12-2774

* Attach Additional Sheets If Necessary

Appendix E Groundwater Addendum Packet

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

	Apache	Hanson State #12				
	Company		site name			
		Н	16	T20S	R37E	
SGS)		Unit Letter	Section	Township	Range	
n use (U	Groundwater Depth:		1	9	ft	
unknow	Compiled by:	Amy C	C. Ruth	Date:	9/28/2011	
= Wells of unknown use (USGS)	Comments:					
0						
stock)			- -			
wells omestic,						
= Non-production wells ommercial, sanitation, domesti		8	9	10		
n-produ cial, sani		0	7	10		
 Pon-production wells (commercial, sanitation, domestic, stock) 						
O ^O						
		17	16 *	15		
			⊗ 16'			
= Subject Site					- 	
		20	21	22		
		· 0 23'				

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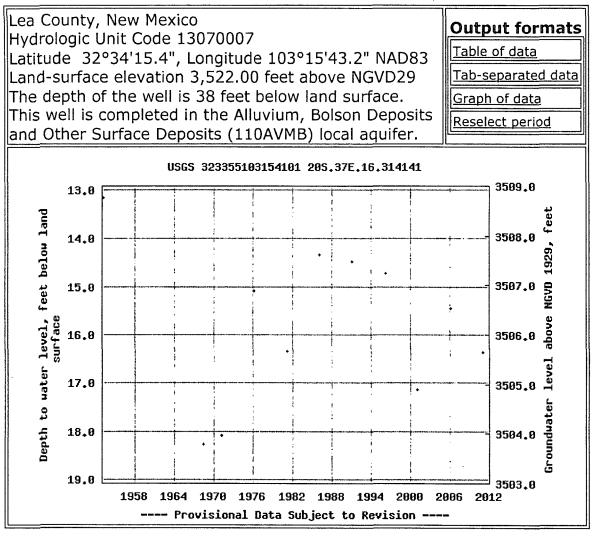
. .

USGS 323355103154101 20S.37E.16.314141

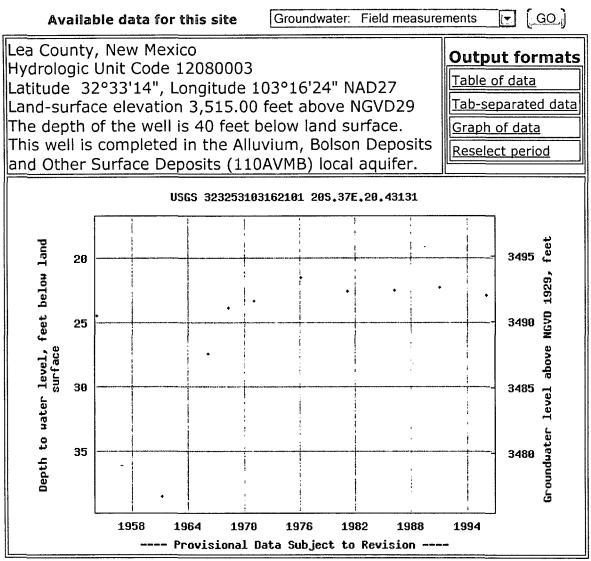
Available data for this site

Groundwater: Field measurements

measurements 🕝 [GO]



USGS 323253103162101 20S.37E.20.43131



Page 1 of 1

I A POPAR ALLO		the second second	
HARRISON &		5" Street, Lubbock,	Texas 79424-4951
COOPER, INC.	Р.О. Во	x 96, Wolfforth, Te	xas 79382-0096
Drilling & Pump Profession	als		
Ph: (806) 866-4026	Fax: (806) 866-4044	Email: <u>harrison</u>	cooperinc@msn.com
	BORING / WELL RE	PORT	
Owner / RP / Name / Addres	S: APACHE	۹	
Site Address: HANSK			
Well Number 58-/ GPS	. <u></u>	Туре: М	MW WW SB Other:
Start Date: 10-29.2 Finis	ih Date: <u>/0-29-10</u> Hole Diar	neter: <u>5//3</u> Total D	pepth: 68
DRILLERS LOG			
$\frac{\text{From (ft)} - \text{To (ft)}}{Q - Z} = (A_1)(A_1)$	cription & Color F	rom (ft) – To (ft)	Description & Color
2-15 5A464 (TAY		
23-29 CAliche	white	······································	
24-34 SANG 34-60 CAY	RED		· · · · · · · · · · · · · · · · · · ·
Drilling Method: A/B M/R OI	her: Gravel Pr	ack Size & Depth:	NA
Csg. Size, Type & Depth:	1.	ize, Type & Depth:	NA
Annular Seal Type & Interval	- /	Surface Completion & F	Pad Size: KA
Water Level: NoNE_Deve		. / .	•
Pump Spec.'s: NA			
Drilling Crew:	Equipment On Sit	ne: TH-60	R16
MATERIALS SUMMARY:			~.
Sand:Bentonite:	2 Concrete/Sackret	.e:Drums	Plastic:
Bottom Plugs/Points:	Locking Plugs:P	Brass Liners:	_Misc:
ADDITIONAL SERVICES / F			•
P.I.D.:IF/Water Lev	vel Probe:Saw Cutt	ing:Well D	evelopment:
JOB NOTES / ADD. EXPEN	DABLES / MILEAGE / UTILI	TY CLEARANCE INF	O / WATER QUALITY:
•			
WATER ENC.	DUNTERED	PEA 50	DRE MAK
			yanna da an da an

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157, Austin, TX 78711, (800) 803-9202

HARRISON &	7414 85 th Street, Lubbock, Texas 79424-4951					
COOPER, INC.	P.O. Box 96, Wolfforth, Texas 79382-0096					
Drilling & Pump Professionals	· .					
Ph: (806) 866-4026 Fax: (806) 866	-4044 Email: <u>harrisoncooperinc@msn.com</u>					
BORING / WELL REPORT						
Owner / RP / Name / Address:	SE.					
Site Address: HANSON #12						
	Type: MW WW SB Other:					
Start Date:/0-39-/0 Finish Date:/0-29-/0Hole Diameter: 5 /19 Total Depth: 60						
DRILLERS LOG From (ft) - To (ft) Description & Color O-/ CALICLE WITE /-/ FAN	From (ft) – To (ft) Description & Color					
12 23 ANA W/CAUGO 23 32 Aliche white 32:34 SANA THN 34: 60 CIAY RED						
Drilling Method: AR M/R Other:Gravel Pack Size & Depth:						
Csg. Size, Type & Depth: <u>NA</u> Screen Size, Type & Depth: <u>NA</u>						
Annular Seal Type & Interval:	Surface Completion & Pad Size: <u>NA</u>					
Water Level: New Development/Well Test Info:						
Pump Spec.'s: NA						
Drilling Crew: 1/C CB Equipment On Site: TH - 60 R16						
MATERIALS SUMMARY:						
Sand:Bentonite:_/7Concre	ete/Sackrete:Drums:Plastic:					
Bottom Plugs/Points:Locking Plugs:Brass Liners:Misc:						
ADDITIONAL SERVICES / RENTALS:						
P.I.D.:IF/Water Level Probe:Saw Cutting:Well Development:						
JOB NOTES / ADD. EXPENDABLES / MILEAGE / UTILITY CLEARANCE INFO / WATER QUALITY:						
DRILLED TO 60 FEET NO GROUND						
DRILLES TO GO FEET NO GROUND						

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157, Austin, TX 78711, (800) 803-9202

12/22/2011 09:23

HARRISON &	7414 85 th Street, Lubbock, Texas 79424-4951				
COOPER, INC.	P.O. Box 96, Wolfforth, Texas 79382-0096				
Drilling & Pump Professionals	· · ·				
Ph: (806) 866-4026 Fax: (806) 866	6-4044 Email: <u>harrisoncooperinc@msn.com</u>				
BORING / WELL REPORT					
Owner / RP / Name / Address: <u>APACHE</u>					
Site Address: HANSON # 12					
Well Number 57 - 3 GPS:	Type: MW WW SB Other:				
Start Date: 10-29-10 Finish Date: 10-29-10 Hole Diameter: Total Depth: 60					
DRILLERS LOG					
$\frac{\text{From (ft)} - \text{To (ft)}}{Q - 2} \qquad \frac{\text{Description & Color}}{Q - 2} \qquad \frac{A/(C + 2)}{Q - 2} \qquad \frac{A/(C + 2)}{$	From (ft) – To (ft) Description & Color				
13.33 Shall TAN					
23 32 CAlide up.					
34.60 CAY Red					
Drilling Method: A/B M/R Other:Gravel Pack Size & Depth:A					
Csg. Size, Type & Depth: NAScreen Size, Type & Depth: NA					
Annular Seal Type & Interval:	Surface Completion & Pad Size:				
Water Level: HONE Development/Well Tes	st Info:				
Pump Spec.'s: NA					
Drilling Crew: KC GB Equipment On Site: TH-160 R16					
MATERIALS SUMMARY:					
Sand:Bentonite:Concrete/Sackrete:Drums:Plastic:					
Bottom Plugs/Points:Locking Plugs:Brass Liners:Misc:					
ADDITIONAL SERVICES / RENTALS:					
P.I.D.:IF/Water Level Probe:Saw Cutting:Well Development:					
JOB NOTES / ADD. EXPENDABLES / MILEAGE / UTILITY CLEARANCE INFO / WATER QUALITY:					
PRILLED TO 100' NO GROUND WATER ENCOUNTERED PEA BOREHOLE					
ENCOUNTERED PEA BOREHOLE					

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157, Austin, TX 78711, (800) 803-9202

Rice Environmental Consulting & Safety

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

December 19, 2011

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

Re: Apache Hanson State #12 AD

Ms. Gladden,

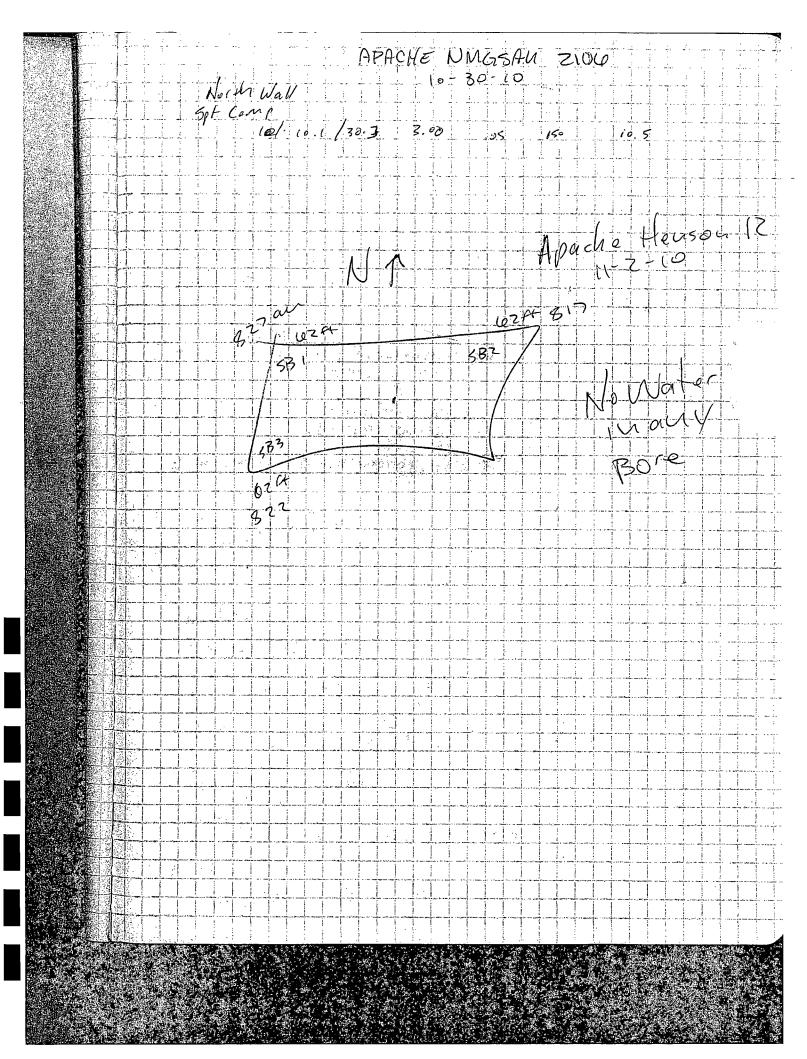
On October 29, 2010, RECS personnel drilled three (3) soil bores/observational wells at the Apache Hanson State #12 AD, each to a depth of 62 ft. On November 2, 2010, I supervised RECS personnel checking for water accumulation within all boreholes using a Heron depth to water meter. The meter indicated that no water had accumulated within the boreholes at the total depth of 62 ft.

Sincerely,

Ance Baher

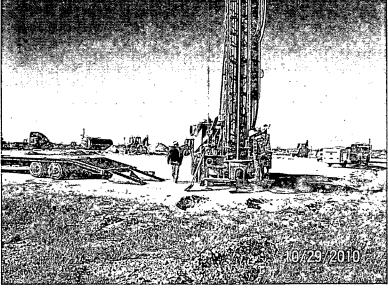
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Bruce Baker Head Foreman Rice Environmental Consulting & Safety



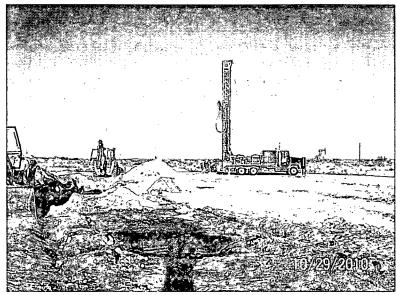
Hanson State #12

Unit Letter H, Section 16, T20S, R37E



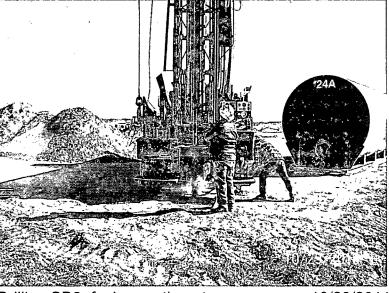
Drilling SB2, facing southwest

10/29/2011



Drilling SB1, facing northwest

10/29/2011



Drilling SB3, facing northeast

10/29/2011