ซสมส-โทเค

EXPLORING WHAT'S POSSIBLE

# **APACHE CORPORATION**

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

# NB Tween #18 (2RP-1065) Termination Request

API 30-015-39070

Release Date: February 25<sup>th</sup>, 2012

Unit Letter C, Section 25, Township 17S, Range 28E



SENDER COMPLETENESSECTION	GOMPHERE WILL SECTION ON DEPUTERY.
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery Is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature A. Signature B. Received by (Printed Name) D. Walker C. Date of Delivery (0.28-13)
1. Article Addressed to: M. Li Bratches NMOCD Bil S. First St.	D. Is delivery address different from item 1?  Yes If YES, enter delivery address below: No
Autosia NM 89210	3: Service Type X Certified Mail  Express Mail Registered  K Return Receipt for Merchandise Insured Mail  C.O.D.
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) 9003 0323 9018 April 40
PS Form 3811, February 2004 Domestic Retu	

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

### March 14<sup>th</sup>, 2013

### Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

### RE: Termination Request Apache Corporation NB Tween #18: UL/C sec. 25 T-17-S R-28-E API No. 30-015-39070 2RP-1065

Mr. Bratcher:

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

### **Background and Previous Work**

On February 25<sup>th</sup>, 2012, an accidental discharge of drilling mud and brine water occurred while drilling a well at the NB Tween #18. The Qmax system overflowed causing the overflow flow bins to overflow. NMOCD was notified of the event on February 27<sup>th</sup>, 2012 and was approved on March 23<sup>rd</sup>, 2012 (Appendix A). The site is located 8.5 miles west of Loco Hills, in unit letter 'C', section 25, T-17-S R-28-E in Eddy County, New Mexico.

RECS personnel were on site on February 27<sup>th</sup>, 2012 to initiate work at the NB Tween #18. Surface samples were collected throughout the release area and representative samples were taken to a commercial laboratory for analysis (Figure 1). Laboratory results showed elevated chloride levels throughout, except for the area near the roll-off bins (Appendix B).

Prior to the installation of the well head, a liner measuring 94 ft x 140 ft was installed at the site. The liner was installed to inhibit the downward migration of drilling constituents to groundwater. Therefore, the release area over the liner was scraped to 6 inches bgs to remove as much contaminated soil as possible without damaging the liner. The remainder of the release area was also scraped down 6 inches and RECS personnel field tested the bottom and the four walls of each scrape for chlorides. A five point bottom composite from each scraped area off the liner and their representative wall samples were taken to a commercial laboratory for analysis of chlorides (Figure 2). The laboratory results for all samples were below 250 mg/kg. The site was backfilled with clean, imported soil and contoured to the surrounding location. Photo documentation of these activities can be found in Appendix C.

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

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 631-06432 if you have any questions or wish to discuss the site.

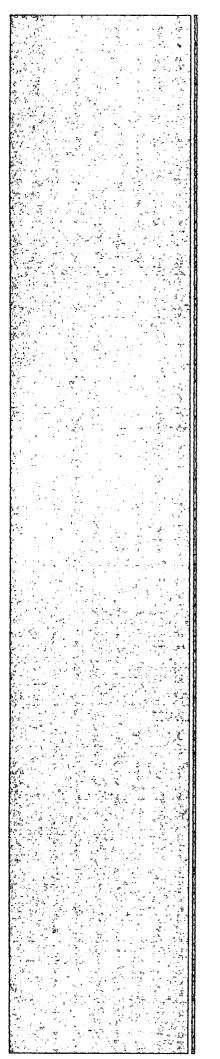
Sincerely,

HCW

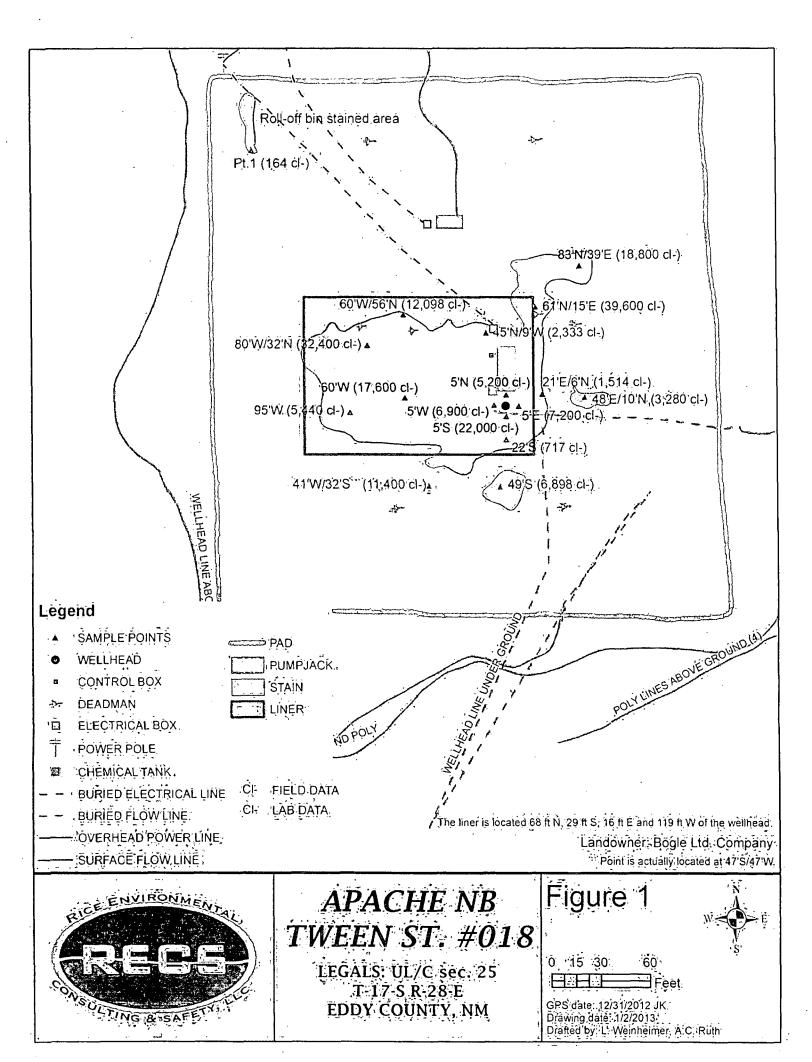
Lara Weinheimer Project Scientist RECS (575) 441-0431

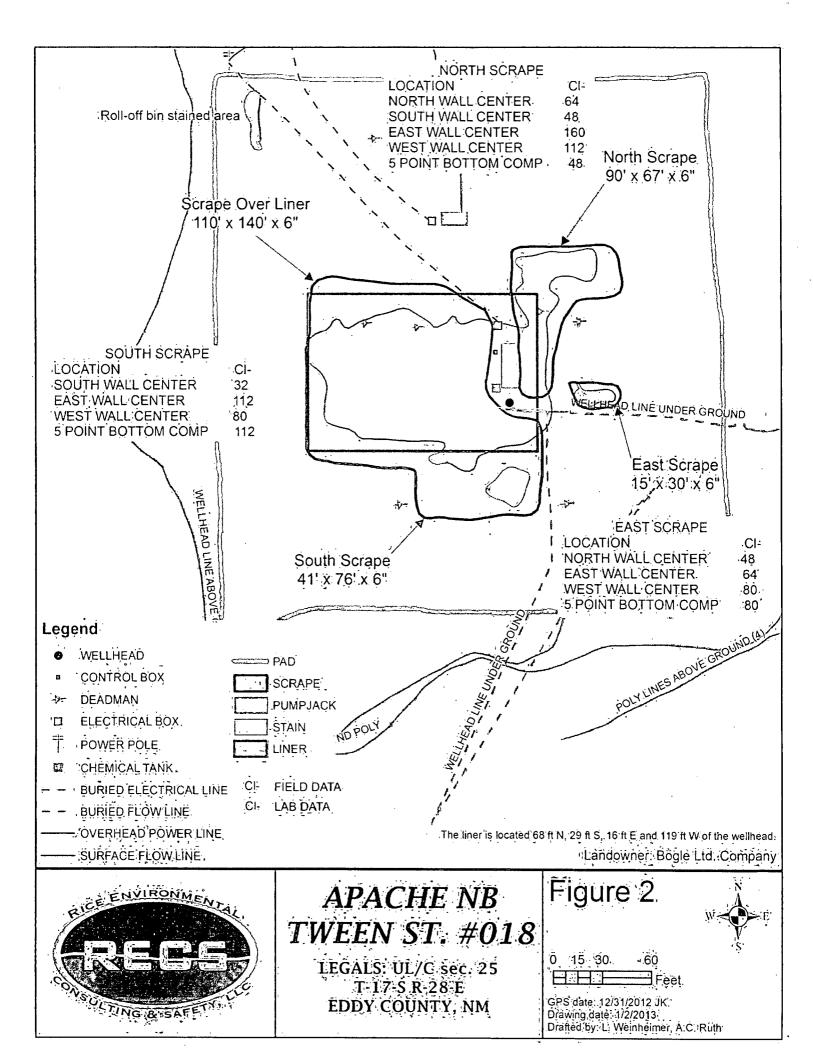
Attachments:

Figure 1 – Initial Sampling Data Figure 2 – Final Sampling Data Appendix A – Initial C-141 Appendix B – Laboratory Analysis Appendix C – Photo Documentation Appendix D – Final C-141



Figures





# Appendix A Initial C-141

District 1 1625 N. French District 11 1301 W. Grand						New Mex and Natura	ico 1 Resources			Rev		orm C-141 ober 10, 2003
District III 1000 Rio Brazos District IV 1220 S St Fran	s Road, Azteo	c, NM 87410		1220	) Soutł	vation Div St. Franc	is Dr.		Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form			accordance
			Rela			e, NM 875	orrective A	otion				
nMLB 120	83 - 10-7	0	KCK		catio	•			7	Devent		
		pache Corpo	ration	813		OPERAT	talie Gladden	₽		al Report		Final Report
		9 Eunice, NI					No. 575-390-41	86				
Facility Nar						Facility Typ						
Surface Ow	ner unkno	own		Mineral	Owner	State		 	Lease N	No. 30-015	-39070	
				LOC	ATIO	N OF RE	LEASE	<u></u>		,		
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/We	st Line	County	· · ·	· · · · · ·
с	25	175	28E	550'	FNL		2310'	FWL		Eddy		
			La	titude		Longitud	le					
						OF REL						
Type of Rele	ase Drillin	g mud and bri	ne water			· · · · · · · · · · · · · · · · · · ·	Release 5-10bbl	ls	Volume I	Recovered 0		
Source of Re	elcase Over	flow of bins				Date and F 2/25/2012	lour of Occurrent	1		Hour of Dis	covery	
Was Immedi	ate Notice (					If YES, To		RL	Same			
			Yes 🖄	No 🗌 Not R	equired		teking Bro				· · · · · · · · · · · · · · · · · · ·	
By Whom? N Was a Water						Date and H	lour 2/27/12 9am	the Water	00000			<u>_</u>
			Yes 🗵				lour 2/27/12 9am olume Impacting	the water	RE	CEIV	ED	
If a Waterco	urse was Irr	pacted, Descr	ibe Fully.	•						AR 132		
			·							CD AR		
		em and Reme				· · · · · · · · · · · · · · · · · · ·	<u> </u>					
Qmax system	n overflowe	d causing the	overflow	oins to overflow.								
									•			
		and Cleanup										
No recovery	of fluids to	ok place. Loc	ation will	be remediated to	NMUC	D Standards.						
regulations a public health should their or the enviro	all operators tor the envi operations honment. In a	are required to ironment. The nave failed to	to report and e acceptane adequately DCD accept	nd/or file certain ce of a C-141 rep investigate and	release r ort by th remedia	notifications a ne NMOCD m te contaminat	knowledge and a nd perform corre- narked as "Final R ion that pose a the ve the operator of	ctive actio Report" doo reat to grou	ns for rel es not rel und wate	leases which lieve the ope	may end rator of l ater, hum	langer liability an health
7		-	$\bigcap$	Λ · ·	,		OIL CON	SERVA	TION	DIVISIO	<u>)N</u>	
Signature	-bra	alu	G	ladde		Approved by	Signed By	Mile sor:	e Bres	and ster	<b></b>	
Printed Nam	ie: Natalie	Jadden									<u> </u>	
Title: EHS E	Environmen	tal Tech				Approval Da	MAR 2 3 20	012 <sub>E</sub> ;	xpiration	Date:		••••••••••••••••••••••••••••••••••••••
E-mail Addr Date: 2/27/1		gladden@ap: Phone: 57				Conditions o Remediat	OCD R	ules &		Attached		
* Attach Addi				~	Gu PF	idelines. SI	JBMIT REMED OT LATER THA -3/2012			IRP.	- 100	65

# Appendix B Laboratory Analysis



March 05, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: N B TWEEN #018

Enclosed are the results of analyses for samples received by the laboratory on 02/29/12 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="http://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Analytical Results For:

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

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: 5' NORTH (H200531-01)

BTEX 8021B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49	
Toluene*	<0.050	0.050	03/02/2012	ND	2.09	· 104	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/02/2012	ND	2.14	107	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/02/2012	ND	6.70	112	6.00	3.07	

Surrogate: 4-Bromofluorobenzene (PIL 110% 64.4-134

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	03/01/2012	ND	432	108	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS		<u> </u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	178	89.1	200	. 20.0	
DRO >C10-C28	742	10.0	03/02/2012	ND	189	94.4	200	1.15	
Surrogate: 1-Chlorooctane	96.8	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	120	% 57.6-15	8						

**Cardinal Laboratories** 

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chank's exclusive ramedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential or cansequential or cansequential and according to the service shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential or cansequential arcansequential and according to the service of the service of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez Di Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 10.



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

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: 5' EAST (H200531-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49	
Toluene*	<0.050	0.050	03/02/2012	<sup>.</sup> ND	2.09	104	2.00	2.67	
Ethylbenzene*	<0.050	0.050	03/02/2012	ND	2.14	107	2.00	2.88	
Total Xylenes*	<0.150	0.150	03/02/2012	ND	6.70	112	6.00	3.07	
Surrogate: 4-Bromofluorobenzene (PIL	116 9	64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	03/01/2012	ND	432	108	400	7.69	
ТРН 8015М	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	178	89.1	200	20.0	
DRO >C10-C28	366	10.0	03/02/2012	· ND	189	94.4	200	1.15	
Surrogate: 1-Chlorooctane	94.6	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	103 9	% 57.6-15	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

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

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: 5' SOUTH (H200531-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49	
Toluene*	<0.050	0.050	03/02/2012	ND	2.09	104	2.00	2.67	
Ethylbenzene*	0.080	0.050	03/02/2012	ND	2.14	107	2.00	2.88	
Total Xylenes*	0.378	0.150	03/02/2012	ND	6.70	112	6.00	3.07	
Surrogate: 4-Bromofluorobenzene (PIL	107 9	64.4-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	03/01/2012	ND	432	108	400	7.69	
трн 8015м	mg/	/kg	Analyze	d By: MS			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.7	10.0	03/02/2012	ND	178	89.1	200	20.0	
DRO >C10-C28	1870	10.0	03/02/2012	ND	189	94.4	200	1.15	
Surrogate: 1-Chlorooctane	95.6	% 55.5-15	54						<u></u>
Surrogate: 1-Chlorooctadecane	87.7	% 57.6-15							

### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptons, loss of use, or loss of profits incurred by Cardinal which are subsidiaries, affiliates or successors arising out of 'or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 writen approval of Cardinal Line to the sample cardinal.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 10



### PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Analytical Results For:

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

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: 5' WEST (H200531-04)

BTEX 8021B	ˈmg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49	
Toluene*	<0.050	0.050	03/02/2012	ND	2.09	104	2.00	2.67	
Ethylbenzene*	0.225	0.050	03/02/2012	ND	2.14	107	2.00	2.88	
Total Xylenes*	1.04	0.150	03/02/2012	ND	6.70	112	6.00	3.07	
Surrogate: 4-Bromofluorobenzene (PIL	121 \$	64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6900	16.0	03/01/2012	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	73.5	10.0	03/02/2012	ND	178	89.1	200	20.0	
DRO >C10-C28	11900	10.0	03/02/2012	ND	189	94.4	200	1.15	
Surrogate: 1-Chlorooctane	120 \$	55.5-15	4		·				
Surrogate: 1-Chlorooctadecane	97.8	57.6-15	8						

### Sample ID: 48' EAST / 10' NORTH (H200531-05)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	03/01/2012	ND	432	108	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

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

Celeg Di Kune

Celey D. Keene; Lab Director/Quality Manager



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

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: 80' WEST / 32' NORTH (H200531-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32400	16.0	03/01/2012	ND	432	108	400	0.00	

### Sample ID: 41' WEST / 32' SOUTH (H200531-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze				. <u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS-	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	03/01/2012	ND	432	108	400	0.00	

### Sample ID: 61' NORTH / 15' EAST (H200531-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	. Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39600	16.0	03/01/2012	ND	432	108	400	0.00	

### Sample ID: 60' WEST (H200531-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	03/01/2012	ND	432	108	400	0.00	

### Sample ID: 83' NORTH / 39' EAST (H200531-10)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	03/01/2012	ND	432	108	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: 95' WEST (H200531-11)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/01/2012	ND	432	108	400	0.00	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

- Page 7 of 10



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit	
RPD	Relative Percent Difference	
**	Samples not received at proper temperature of 6°C or below.	
***	Insufficient time to reach temperature.	
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C	
	Samples reported on an as received basis (wet) unless otherwise noted on report	

**Cardinal Laboratories** 

\*=Accredited Analyte -

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

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 10



## of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101(Éast Mörlandi Höbbs, NM: 88240:) . (505) 393-2326: EAX: (505) 393-2476:

Company Name	(505) 393-2326: FAX: (505) 393-2			Star BI	LL.TO						ANA	LYSIS	SinRE	QUE	ST.			*****
Project Manage	Tarole Jako Stas		······································	P.O.,#:;		· · · · · ·			1:	1		•	ŀ	1.	1	Ì.		;
Address:				Company:			[							ī		·		
City:	State:	Zip:	· ·	Attin:						l					. 			
Phone #		• •		Address:												l		
Project.#:		hēf:		City:	999-1		;	×.		l				1				
Project Namel .	NB Then # 018-			Státes	Zipi	·		N.					ľ				1	
Project Location	<u> </u>		······································	Phone #::				$ \langle \gamma  $										
	Delisten Harres			Fax:#:			<b>.</b>	$\left  \cdot \right $	$\mathbf{x}$						ļ			
FOR LAB USE ONLY :			- MATRIX	PRESERV	SAMPLING	<u>}</u>	, ;	ign:										
Lab I.D. 1120053	Şāmplê I.D.	(G)RVB'OR-(C)OMR # CONTAINERS:	skounowniek WASTEWATER Soit	OTHER: AGID/BASE ICE(COOL QTHER:	DATE.	ŢĨMĒ.		HAL	S VY						. 4	1	<i>w</i> .	
	33N	6.7			0-924941		1	.1			· - i		•		· .		· .	
	5.A.	G I		1 . í.	997491	105	1.1		ķ/			• ·	:					
¥3	575				11-37-12-11		¢		1		e Implications				· - 1			
	SUN	$-\mathcal{C}[1]$			1991-929		3/	.U	1.10				Ì.	<u>.</u>			·	-
5	41875 10 N		V		Antonio alla successione and a succession of the	20	, v) 				· ·		. <u></u>					
	<u> </u>		= =	<u></u>	Announcements and and a sub-	30		<u></u>	<u> </u>			<u> </u>	<u>.</u>			•		
	UM 158.	- 0				40				-1	<u></u>					*		
	le CF Wal-	1271	7.5		初初步了	106	· id	÷		··		 ,	·	1		, , ,		
	6210 4675				0.02.01	76	J.		<u> </u>								ĺ	·:

PLEABE NOTE: (channy and Dampiger, Contrainty half which mud cheming eronandy for any stain animal wrenter based in spanned to that, which is stated as a second any other cause with the stated in the stated and by the state of the stated in the stated of the stated in the stated of the stated of

,	The second state of the period of the period of the second state of the	
ŧ	Relinguished By - // Quareh y PReceived By	Phone Result: +Ei Yes- Ei No: Add Phone #:
	12/12	Fax Result: :D'Yes' D'No iAdd'Eax.#:
	Tink: Time	REMARKS:
	1 July and the second	I STATISTIC LASSAN STORAGE TOPOLOGICATION
	Reimquished By:	Natarks:
		The second se
المتبعيد	A action of the there is a factor of the state of the sta	Toma to a star water there the Martin Carl Charles
	CONTRACTOR ONES CONCERNED	Zandine mite-resilion Blakererias-resilion
	"Delivered By:: (Circle One)	him der E-nice-ees dam, Cheintrimmerne-205, com
		14 San Der Warden Star Best (UBM A (COMPANIE) COMPANIE )
'	Sampler UPS - Bus - Other:	
5		
	and the second s	

Triçardınal cannot accept verbal, changes? Please lax written changes to 505-393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ZOFZ

Page 10 of 10

ARDINAL LABORATORIES

	101 East Marland, Hobbs, NM 882 (505) 393-2326 FAX (505) 393-24	24Ò 176	211 (32	11 B .5) 6	eect 73-7	1W0 001	od, . FÁ	Ab X (	ller 325	ne, 1 5)67	ГХ '3-7	79603 7020													
Company Name	Apache											LTO						ANAI	YSI	RE	QUE	ST			
Project Manage	· Mutalic gladder							P.0	. #:																
Address:	~							Con	npa	ný:								S							
City:	State: NM	Zip:		-	_			Attr	1:									6							
Phone #:	Fax #:							Address:							-u						, I				
Project #:	Project Owner	:						City	:						Σ		Т	SIF					i		
Pròject Name:	MB THEO DOIS							Stat	ė:			Zip:		ĕ	2	$\mathbf{x}$		Cations/Anions							
Project Location								Pho	ne	#:				Chlorides	TPH 8015	μ	l s	ati	TDS					, I	
Sampler Name:	Datstan Harris			_	_			Fax	#:					말		BTEX	Texas TPH								
FOR LAR USE ONLY					MĄ	TRI	( 	!	RE	SER	V.	SAMPL	NG	Ō	ā		Te	fe							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER		-	SLUDGE	HER	D/BASE:	ICE / COOL	нек.	-	-		┣━			Complete							
<u>HZOD531</u>		<u>ē</u>	0 3	й О	SOIL	đ	15	5	<u>S</u>	<u>u</u> j	3	DATE	TIME.		<u> </u>					- ·					
<u> </u>	9.5 N	$\leq$	<u> </u>	<u> </u>	10	1			_			9.97.19	1:55	<u>.</u>	·	· 									
									_		_ -								****						
			_	_ -												-								-1361-0-1407-0	
				<u>-</u>  -			-									<b></b>		·					********		
					-	+					÷												·····		
	· · · · · · · · · · · · · · · · · · ·				-			-	÷			· · · · · · · · · · · · · · · · · · ·				<del></del>									
								-	-f							<del></del>									
					1	-	<u> </u>		-		-1								,				~		-
			-			Ì									*****				·····		*******		, <b>1</b> , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
linalyses. All claims includio service, 'In no event shall Ci	nt Domages, Gardingi's liability and chent's eichesive remerty far a 19 thése for negligièries and nav, other cauté whatsouver shalt ber aquad be l'able for incidental or conservential damages, heliolog 31 but vi aizanteu to the fortemanne at services bereautier by C	icenued v without i	vəlver Imitati	l untess on, bus	njadu i Iness ki	n witir temupt	ig ànd Ionst, h	nceivi su of u	hơ bý sac: o	Càrdin 1460 (	al wo I prá	tim 30 days abe Ms incarrentity o	t completión of th l'ent, its subsidiu	ie upplica nics	r1+3,										
Relinguished B	Time:	Rec	eivı ستنسب	ed B	<u>۷:</u> 		<	<u>}</u>					Phone Res Fax Result REMARKS	t: 5:	Cl Ye	s [2]	No	Add'l	Fax #:						
Relinquished B	0416-110 Tine:05	Rec	eive N	od B	V: /	š	Ń	email results NatalieGladden@usa.apachecorp.com																	
•	- Bus - Other:	<u>v/]s</u>		C	mple ol. Yes	Inta	ct 🖌			HEC	CKE	D BY:	Zcond hcond											com	
	· · · · · · · · · · · · · · · · · · ·		1		No	Ŀ	No	. 1	(	1/1	$\gamma^{\gamma}$	· .													

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393 2475

### **N**CARDINAL Laboratories

January 03, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: N B TWEEN STATE #018

Enclosed are the results of analyses for samples received by the laboratory on 12/31/12 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="http://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/31/2012	Sampling Date:	12/28/2012
Reported:	01/03/2013	Sampling Type:	Soil
Project Name:	N B TWEEN STATE #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Hope S. Moreno
Project Location:	NOT GIVEN		

### Sample ID: S SCRAPE - S WALL CENTER (H203120-01)

Chloride, SM4500Cl-B mg/kg		/kg	Analyze	d By: DW	- 10-11				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: S SCRAPE - E WALL CENTER (H203120-02)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: DW					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: S SCRAPE - W WALL CENTER (H203120-03)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: DW					
Analyte	Result .	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/03/2013	ND	432	· 108	400	3.64	

### Sample ID: S SCRAPE - 5 PT. BTTM (H203120-04)

Chloride, SM4500Cl-B m		/kg Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/03/2013	ND	432	108	400	3,64	٠

### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatooever shall be detend waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples lientified above. This report shall not be reproduced except in full with written approval of Cardinal Lientarian.

Celey B. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



APACHE -	EUNICE
NATALIE G	ILADDEN
P. O. BOX	1849
EUNICE N	4, 88231
Fax To:	394-2425

Received:	12/31/2012	Sampling Date:	12/31/2012
Reported:	. 01/03/2013	Sampling Type:	Soil
Project Name:	N B TWEEN STATE #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Hope S. Moreno
Project Location:	NOT GIVEN		

### Sample ID: N SCRAPE - N WALL CENTER (H203120-05)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloriđe	64.0	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: N SCRAPE - S WALL CENTER (H203120-06)

Chloride, \$M4500Cl-B mg/kg			Analyzed By: DW					<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: N SCRAPE - E WALL CENTER (H203120-07)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: N SCRAPE - W WALL CENTER (H203120-08)

Chloride, SM4500Cl-B m		/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: N SCRAPE - 5 PT. BTTM (H203120-09)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	. 48.0	16.0	01/03/2013	ND	432	108	400	3.64	

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dam is based upon any of the above stated resons or otherwise. Results relate only to the sample identified above. This report shill not be reproduced except in full with writen approximations.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7



	APACHE -	EUNICE		
	NATALIE	GLADDEN		
	P. O. BOX	1849		
	EUNICE N	IM, 88231		
	Fax To:	394-2425		
Received:	12/31/2012		Sampling Date:	12/31/2012
Reported:	01/03/2013		Sampling Type:	Soil
Project Name:	N B TWEEN STATE #018		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Hope S. Moreno
Project Location:	NOT GIVEN	•		

### Sample ID: E SCRAPE - N WALL CENTER (H203120-10)

Chloride, SM4500Cl-B mg/kg			Analyzed By: DW			······································			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: E SCRAPE - E WALL CENTER (H203120-11)

Chloride, SM4500Cl-B	/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: E SCRAPE - W WALL CENTER (H203120-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW	<u>.</u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/03/2013	ND	432	108	400	3.64	

### Sample ID: E SCRAPE - 5 PT. BTTM (H203120-13)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: DW			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/03/2013	ND	432	108	400	3.64	
					•				

#### Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7



### **Notes and Definitions**

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

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

 \*\*\*
 Insufficient time to reach temperature.

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

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

### **Cardinal Laboratories**

### \*=Accredited Analyte

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

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ARDINAL LABORATORIES

101 East Marland, Hobbs; NM	88240.	2111 Beechwood, Abliene.	TX 79603
		بسيهديدهم أراده والعادي والمعاد	2. 2

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

Company Name	Apache Corp		Man BILL TO	Ball'Alex	÷		-	ANA	LYSI	S RE	QUES	ST			
Project Manage	V Natalie Gladden		P.O. #:			ŀ		:							
Äddress:			Cómpany:					S					1		
City:	Staté::	-Zip:	Attn:					l o							
Phone #:	(Fax #:	ويتعربه بالا والقوانية ، وفي الا والموانية ، ووجار ، ووجار ، ووجار ، والقوان في معرو ، وقوت ، القوان المارة ال	Address:	مور 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10				L L							
Pròject#:	Project Owne		City:	-	,	Σ	-	Ξ S							
Project Name:	N B Trees St	1-0.18	Staté: Zip:		Chlorides	15	$\times$	exas TPH: e Cations/Anions							
Project Locations			Phone #:		Di ici	801	BTEX	ati	TDS				.		
Sampler Name:	1 Kounstance		Fax #F		ЫG	Ť									
FOR LADUSE ONLY	/ Sample I.D.	(G)RA9 OR (C)OMP: # CONTAINERS # CONTAINERS # CONDWATER WASTEWATER SOIL OIL: SLUDGE SLUDGE	PRESERV. SAMP	JNG TIME	0	HdL	ŀ	Complete	-						
11233120-1	S. Surge S. Jenillinte	311.	127810	1:25											
2	E. E. Wall crite	SIL.		2:30	<u></u>										
3	La Rus I Cart.			2:35	<u> </u>						i			·	
	5 st-Battom	34		1:40	~				-			-			
	H. Semin Hunilcolr			9:00					-						
<u> </u>	J Gillallaste			7:10					-	· ·		-			
	F. Isu/t Confe			19:15	~				•						[
ėj į	5 Stat Salation	E I I		0:30		[			·						
														·	
anitries, Al dains Recuth	d Damages, Cardenal's behilty and sherit's exclusive remedy to a grave for reconcision and any other carse which ever objection without the flattle for institution or conservicential damages; including my fact of an relation to the containance of cardees thereards by to a status of the cardinal sector and the container of the sector of the sector of the sector of the cardinal sector and the contain sector of the sector of the sector of the sector of the contain sector of the sector of	kennul walved usines made in wildig in without imitation, historica interruptions,	of received by Continual wight 30 days at lose of use; or tess of profits invurred by	er complotion of the client; its subsidial	o erpkaal: iza	ł¢									
Relinquished B	Date: 12/3//1.2 Time: 4:3:0	Received By:		Phone Res Fax Result REMARKS	:	□ Yes □ Yes:	12 No 12 No		Phone: Fax#:	#:					
Relinquished By	/: Date:	Received By:		email r	esuli	s									
Tinc:								phecorp.com							
Delivered By: (Circle One) Sample Condi			ion CHECKED BY:	Zcond											
	- Buš - Other:	Cool, Intact Ýes Ýres No No	/(Initials)	hconde jkampla					Inheii	ner@	)rice-	ecs.	com		

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

CHAIN-OF CUSTODY AND ANALYSIS REQUEST

1

TROINALUABORATORIES 101/East Martand, Hobbs, NM 88240. 2111/Beechwood, Abilene, TX 79603

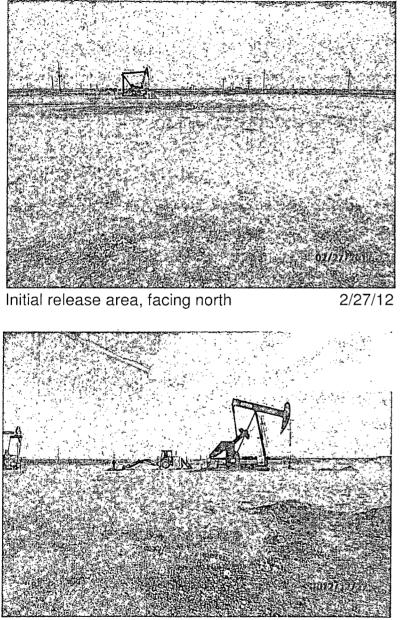
Company Name: AnaclineCom.	BILLTOL	ANALYSIS REQUEST
Project Manager: Natalie Gladden.	P:O. #.,	
Address	Compânÿ:	
City': State:	Attni	
Fax #:	Address:	
Project # + IProject Owner:5	City	
Project Name Al Ver Personan State	Ø. State: Zip:	
Project Location	Phone #1	
Sanipler Name	5 Fax#:	Chlörides BrEX Fexas TPH TDS
TRIRLed INFERIOR WOOD HOLES Samplê I.D.		Chlórides TPH 8015 M Tèxas TPH Complèté Cations/Anions TDS
		<u>en andre de de de de antre de de</u>
1202 fra 12 12 ASprapa Al-UNITAND 11 1	2-1-1-1-12-11-104.00	
11 7 3 Barrold 5 1. 1	8 1 1 1 1 1 7. 40+05 8 1 1 1 1 1 2 - 10 1/0	
$\frac{12}{13} = \frac{12}{12} = \frac{1}{12} = \frac{1}{12$	171 TH 3 70 15	
		┷┟╔╧┷╍╴┟┯╍╍┶╴┟┶┉┉┙┧╪╌┉╗╢═╍╍┶╸┢┷╦╍╍╿╼╍╍╍┥┢╍╺┶┅┥┥╍╌╌╸┧┯╍╼╼┤╺╍╍╍╸
	A A REPAIR AND A	
ીમ દકિવાદ મળા છે. આ બેલા આ બેલા આ બેલા છે. આ બેલા કે બિલીએ કે તેલે બેલ્યાને કરતો કરેલા દાવા પ્રતાલ પણ દુર્વામાં પ્રતિવૃત્તક, બંધ વિદ્વાર્થી તેન્દ્રીના છે. મેં બેલા આ બેલું વિદ્વાર આવી આ બેલા બેલા બેલા બેલા બેલા બેલા બેલા આ અ કિલ્મેપ્ટર, તેને બેલુ કે દેશ કે વાર્તે આ બેલા બેલા બેલા બેલા બેલા બેલા બેલા બેલા	ទាម៉ាស់វីម៉េលធ្វើកើរ, ស្រែរ៉ា ស្ថិ លេះត្រូវ ស្ថិន សា ស្ទីសំខែ អាចនៃវាន់រ៉ា សូវ ស្មើការ, នៃទាំងដូវដូវី ក៏ស្ថានជនម្នាស់វីម៉ាង ដែលនាក់ស្ថា លេខាតុ ការមន្ត្រីវៀននាំដល់នៅនឹងនោះ សោទនាយនាសំនាំងដែរសំ	
Relinquished By:	Fax Result	
Relinquistied By: Time:	: inaitalie	rësulls: e:gladden@apachecorp.com;
PDelivered By: (Circle One) sampler - UPS - Bus - Other	hcond	der@rice=ecs.com; Bbaker@rice=ecs.com; ler@rice=ecs:com; Lweinheimer@rice=ecs.com; lain@rice=ecs.com;

Sample Condition Cont, Intact Pres 2 yes C. Nor No. - L CHECKED BY: f Cardinal cannot accupit verbal changes. Please lax written changes to 505:393-2476

# Appendix C Photo Documentation

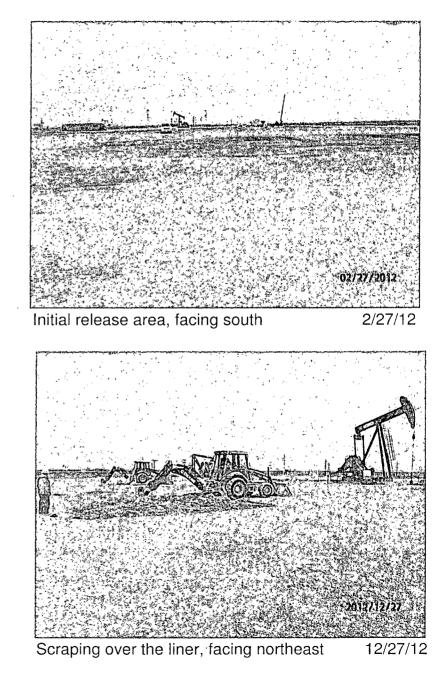
## Apache NB Tween #18

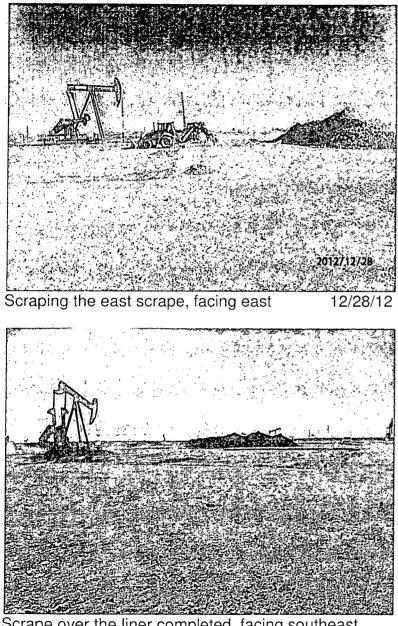
Unit Letter C, Section 25, T17S, R28E



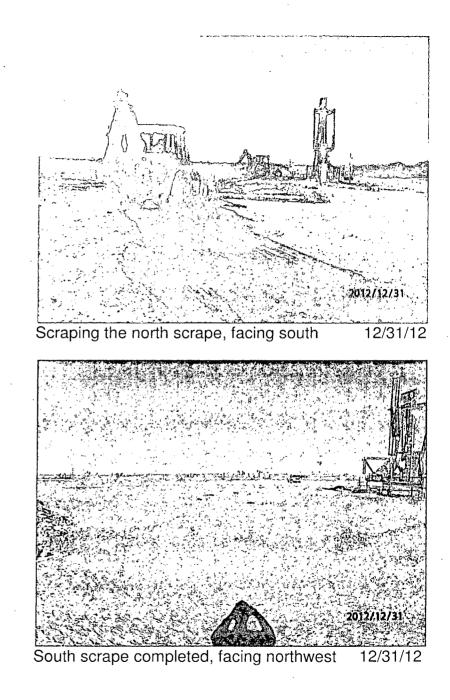
Spotting the liner, facing northeast

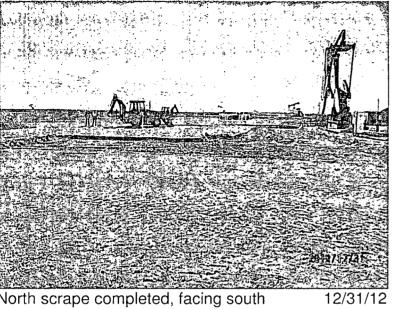
12/27/12



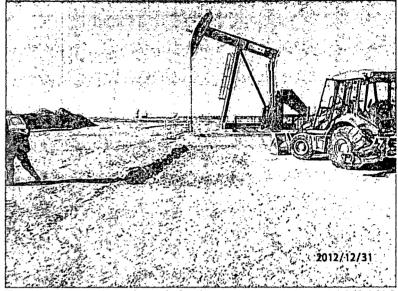


Scrape over the liner completed, facing southeast 12/31/12



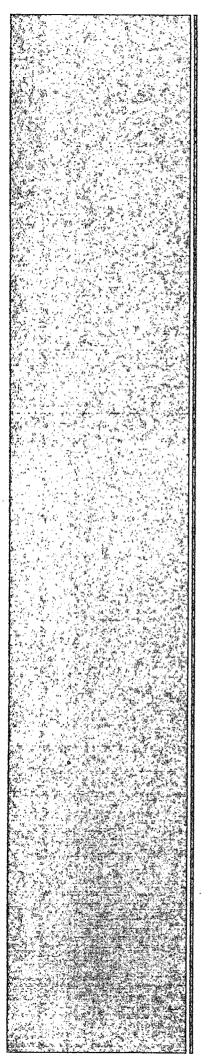


North scrape completed, facing south



East scrape completed, facing east

12/31/12



# Appendix D Final C-141

### 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

1220 S. St. Fran	icis Dr., Sant	a Fe, INIVI 8750	J	Sa	anta F	<u>e, NM 875</u>	505				_	side of form
			Rel	ease Notific	catio	n and Co	orrective A	ction	1	a <u>traditiona</u> ( <u>s</u> tane )		
						<b>OPERA</b>	TOR		🔲 Initi	al Report	$\bowtie$	Final Report
		Apache Cor				Contact Br						
		19, Eunice, N	M 8823	1			No. (575) 394-	1503				
Facility Nat	me NB T	ween #18				Facility Typ	e New drill					
Surface Ow	ner Bogl	e Ltd Compa	any	Mineral C	Owner	State	5-3907	0				
					ATIO	N OF REJ	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/	West Line	County		
С	25	175	28E	550'	FN	L	2310'		FWL	Eddy		
			La	titude		Longitud	le					
	,			NAT	URE	OF REL	EASE					
Type of Rele		ling mud and	brine wate	er		Volume of	Release 5-10 ba	arrels	Volume F	Recovered	0 ·	
Source of Re	elease Over	rflow of bins				Date and H 2/25/2012	lour of Occurrenc	e	Date and Same	Hour of Dis	covery	
Was Immedi	ate Notice (		Yes 🛛	No 🗌 Not Re	equired	If YES, To Geoffrey L			L			
By Whom?	Natalie Glad	dden				Date and H	lour 2/27/2012	9:00 an	n			
Was a Water	course Read		Yes 🛛	No		If YES, Vo	lume Impacting t	he Wat	ercourse.			
If a Watercon	Irse was Im	nacted Descr	ibe Fully *	· · · · · · · · · · · · · · · · · · ·		L		· · · · · · · ·				
	1150 Wu5 111	puotou, Dosor										
Describe Cau Qmax system				n Taken.* bins to overflow.								
were taken t the roll-off t damaging th four walls o samples wer	to a comme bins. The r bine liner. The f each scra re taken to	ercial labora release area he remainder pe for chlori a commercia	tory for a over the l r of the re des. A fi al laborat	en.* Surface sar nalysis. Labora iner was scraped lease area was a ve point bottom ory for analysis soil and contou	tory res d to 6 in also scr compo of chlo	sults showed aches bgs to aped down 6 osite from ea rides. The l	elevated chlori remove as muc inches and RE ch scraped area aboratory result	ide leve h conta CS per off the ts for a	els through aminated so sonnel fiel e liner and ll samples	out, except oil as possi d tested the their repre- were below	t for th ble with e botto sentati	e area near thout om and the ve wall
regulations al public health should their o	l operators a or the envir perations ha ment. In ac	are required to onment. The ave failed to a ddition, NMO	o report an acceptance dequately CD accept	is true and compl d/or file certain re e of a C-141 report investigate and re ance of a C-141 r	elease no rt by the mediate	otifications an NMOCD ma contamination	d perform correct rked as "Final Re on that pose a thre	tive acti port" d eat to gr	ons for rele oes not relie ound water,	ases which r eve the opera surface wat	may end ator of l ter, hum	danger liability nan health
• •	ا همانين ويسقعه الله . د	يد. بيكتونه.	N. S.				OIL CONS	SERV	ATION	DIVISIO	<u>N</u>	
Signature:	Bruce	Baher										
Printed Name	: Bruce Ba	iker	···		A	Approved by I	District Superviso	or:				
Title: Enviror	nmental Tec	:h			A	Approval Date	: <u> </u>	E	expiration D	Date:		
E-mail Addres	ss: larry.b	aker@apache	corp.com		C	Conditions of .	Approval:			Attached		
Date: 10	-21-1	3	Phone:	(575) 394-1503								

\* Attach Additional Sheets If Necessary