District I 1625 N French District II				St Energy Mi	ate of l nerals a	New Mex and Natura	ico I Resources	eci	eivei	D Revise	Form C-141 d October 10, 2003
1301 W. Grand <u>District III</u> 1000 Rio Brazo <u>District IV</u> 1220 S St. Fran	s Road, Azte	c, NM 87410		Oil 0 1220	Conserver South	vation Div St. Franc , NM 875	vision is Dr.	apr 2	17 2010 150CC	Submit 2 Copi District Offi	ies to appropriate ice in accordance Rule 116 on back side of form
			Rele	ease Notific							
			1001			OPERA		(al Report	Final Report
		Apache Corp			(Contact Nat	talie Gladden				
		49 Eunice, Nr r Lynch Bty		· · · · · · · · · · · · · · · · · · ·			No. 575-390-41 e Production F				
			(nearest v					aciiity	194		
Surface Ow	ner Sims/	Wallach		Mineral C	Owner S	state of NM			Lease	10 30-025-250	644
						OF REI					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	West Line	County	
Е	1	228	37E	1880'	FNL		760'	FWL		Lea	
			Latitu	de_N32deg 26'		Longitude_ OF REL1		15.04"	, 	WTR	: 51'
Type of Rele	ase Unkno	wn			UKL		Release Unknow	'n	Volume F	Recovered Unk	nown
Source of Re							lour of Occurrenc		and the second s	Hour of Discov	
Was Immedi	ate Notice (Yes 🗌	No 🖾 Not R	equired	If YES, To	Whom?				
By Whom? Was a Water	course Read		Yes 🗌	No		Date and H If YES, Vo	lour Iume Impacting t	he Wate	ercourse.		
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*	•	· · · · · · · · · · · · · · · · · · ·	L					
In 1949 there a lawsuit aga	was an exi inst Marath	on before Ap	h was cov ache purch	n Taken.* ered up by Maratl asing the propert ached is the work	y. Once	we took over	the property the				
				ten.* Soil boring diation proposal				ontamina	ation and fo	ollowing that me	onitoring wells .
I hereby cert regulations a public health should their o or the enviro	ify that the Il operators or the envi operations h nment. In a	information g are required t ronment. The nave failed to	iven above o report ar acceptanc adequately OCD accep	is true and comp id/or file certain r ce of a C-141 repo- investigate and r tance of a C-141	plete to the release no port by the remediate	e best of my otifications au NMOCD m contaminati	knowledge and und perform correct arked as "Final R on that pose a thr	tive acti eport" d eat to gr	ions for rele loes not reli round water	eases which may ieve the operato r, surface water,	y endanger or of liability , human health
Signature:	Just	lie C	Jode	der			OIL CON	SERV	ATION	DIVISION	
Printed Name	l : Natalie (Gladden			I	Approved by	District Shiper Pis	91VME	NTAL E	NGINEËR	
Title: EH&S						Approval Dat	6 20 10	, T		TO SHATTA	FE-GROUNDW
E-mail Addre	ess: natalie.	gladden@apa	checorp.cc	m	(Conditions of	Approval:		۰.	Attached]
Date: 04/	15/10		75-390-418	36				<u></u>		1RP#10.4	1.2498

* Attach Additional Sheets If Necessary



CONSULTING AND REMEDIAL CONSTRUCTION

28 January 2010

Mr. Larry Johnson Environmental Engineer New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240 RECEIVED APR 27 2010 HOBBSOCD

RE: Groundwater tapatets (NJESTIGATION 4.20.10) Apache Corporation, Inc. – Walter Lynch Tank Battery UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E Latitude: N32° 25' 26.50"; Longitude W103° 07' 15.04" Lea County, New Mexico EPI Ref. #240031

Dear Mr. Johnson:

On August 26, 2009 Environmental Plus, Inc., (EPI) on behalf of Apache Corporation advanced four (4) soil borings to delineate subsurface conditions surrounding the Walter Lynch Tank Battery. The soil borings were advanced to respective depths as noted in Appendix I, *Soil Boring Logs* (Ref. *Figure #3* for locations). Soil samples were collected at five (5) feet intervals and analyzed in the field for TPH and Chloride concentrations. Soil samples remitted to an independent laboratory were tested for TPH, BTEX and Chloride concentrations. In noting Table 2, *Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results*, TPH and BTEX concentrations were below New Mexico Oil Conservation Remedial (NMOCD) Threshold Goals of 100 mg/Kg and 50 mg/Kg, respectively, for all soil borings. Both field and laboratory analyses for Chloride concentrations indicated values above NMOCD Remedial Threshold Goals of 250 mg/Kg existed in all soil borings.

In conformance with NMOCD Rules and Regulations, all four (4) well bores were plugged and abandoned (P&A) on August 27, 2009.

From December 8 - 9, 2009 EPI and Straub Corporation assembled at the location to advance three (3) soil borings with conversion to permanent Monitor Wells (i.e., MW-1, MW-2 and MW-3). Monitor Well locations are noted on Figure #4 and soil boring lithology on Appendix II, *Monitor Well Soil Boring Logs*. MW-1 is identified as background source for soil and water sample analytical results as it is located in the groundwater upstream gradient (Ref. Figure #5, *Water Table Contours Map*). Field analyses and laboratory analytical results of soil samples collected for analyses of TPH, BTEX and Chloride concentrations are listed on Table #2. As noted in Table #2, all soil borings soil samples were below NMOCD Remedial Threshold Goals for TPH, BTEX and Chloride concentrations.

Following completion of Monitor Well installation, EPI produced the wells in conformance with accepted practice and NMOCD procedures on December 11, 2009. Water samples were collected, poured into laboratory provided containers, placed in a cooler containing ice and transported to EPI headquarters where they were transferred to a refrigerator. On December 14, 2009 water samples were transported to Cardinal Laboratory in Hobbs, New Mexico for quantification of BTEX, Chloride, Sulfate, pH, TDS and Heavy Metal concentrations.



In reviewing Table #3, *Monitor Well Groundwater Laboratory Analytical Results*, BTEX, Sulfate, pH, and Heavy Metal concentrations were below NMWQCC Standards for all three (3) monitor wells. However, both TDS and Chloride concentrations exceeded these Standards in all three (3) monitor wells. With MW-1 being the background source for comparison, MW-3 nearly duplicates analytical results for TDS and Chloride concentrations (Ref. Figure #5, *Chloride Contours Map*). Hence, it appears MW-2 is representative of an increase in groundwater impacts above NMWQCC Standards for this locale. In acknowledging existence of groundwater impacts in MW-2, EPI and Apache Corporation await directions from the NMOCD to implement the next Remedial Phase. In the interim, all monitor wells will be gauged and groundwater samples collected on a quarterly basis for TDS and Chloride concentrations with laboratory analytical results submitted to the NMOCD.

Should you have concerns, questions or need additional technical information, please contact me at (575) 394-3481 (office), (575) 441-5951 (cellular) or via e-mail at ddominguez@envplus.net. Official communications should be directed to Ms. Natalie Gladden at (575) 394-1503 Ext. 1249 (office), (575) 390-4186 (cellular) or via e-mail at <u>Natalie.gladden@apachecorp.com</u> while correspondence should be addressed to:

Ms. Natalie Gladden Environmental Technician EH & S, Permian Basin Apache Corporation 8 Ellison Lane P.O. Box 1849 Eunice, New Mexico 88231

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominquez Environmental Consultant

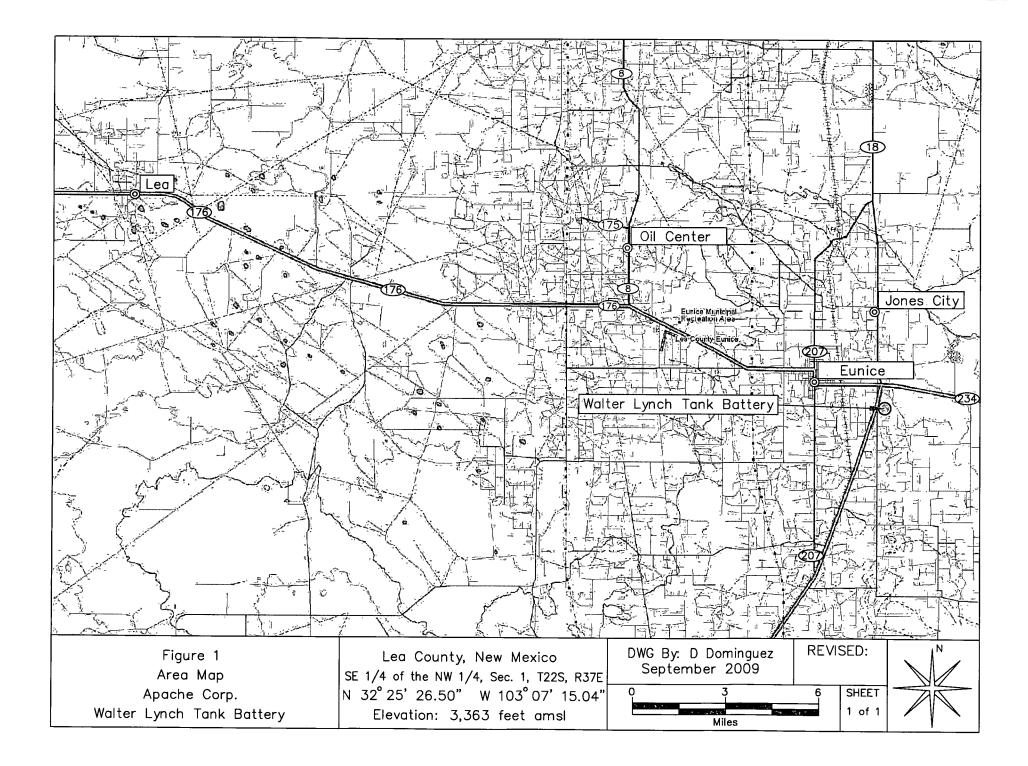
Cc: Ms. Natalie Gladden, Apache Corporation – Eunice Alan J. Kane, Kane Environmental – Houston Cody Miller, EPI - Eunice

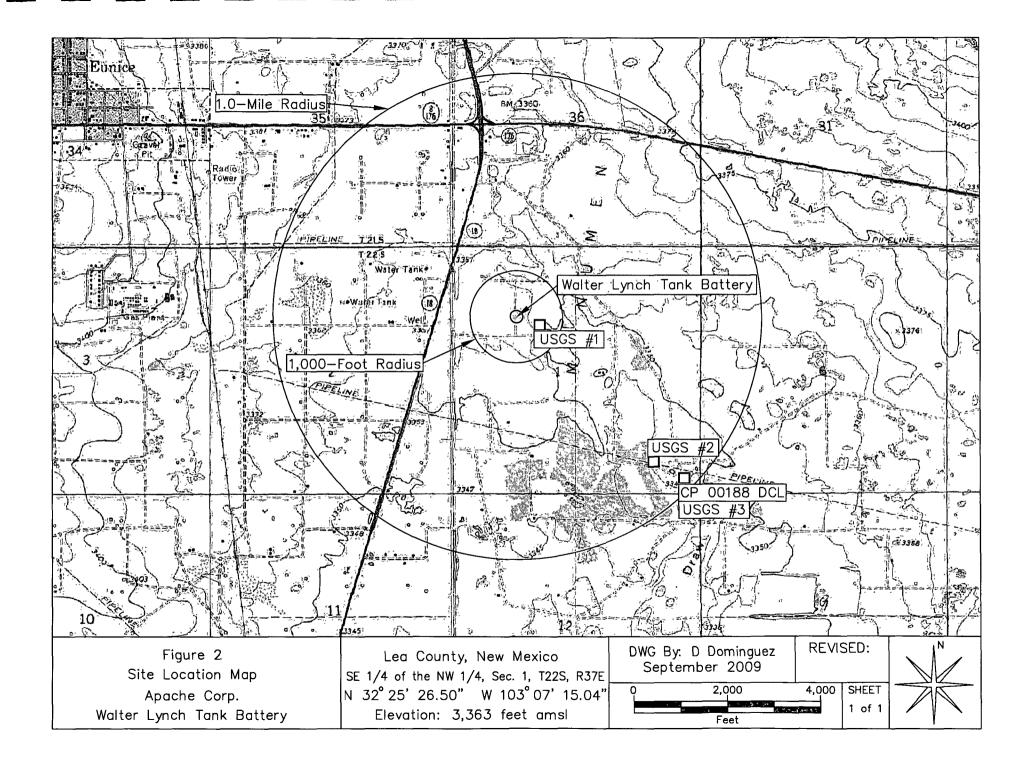
Attachments:

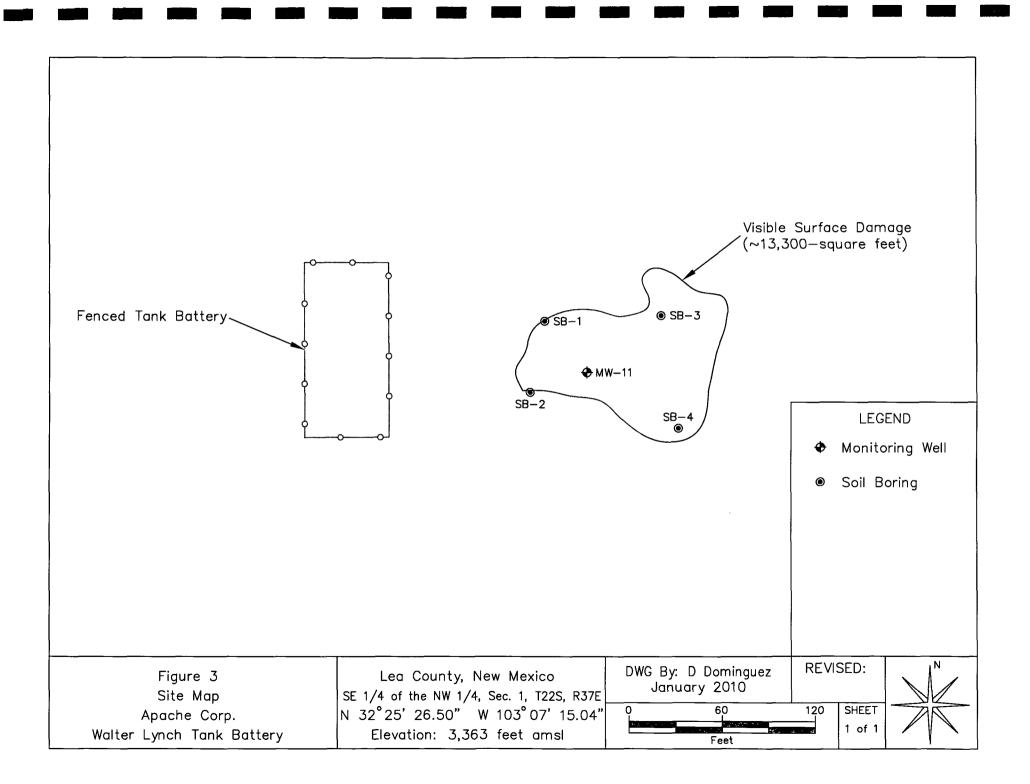
Figure 1 – Area Map

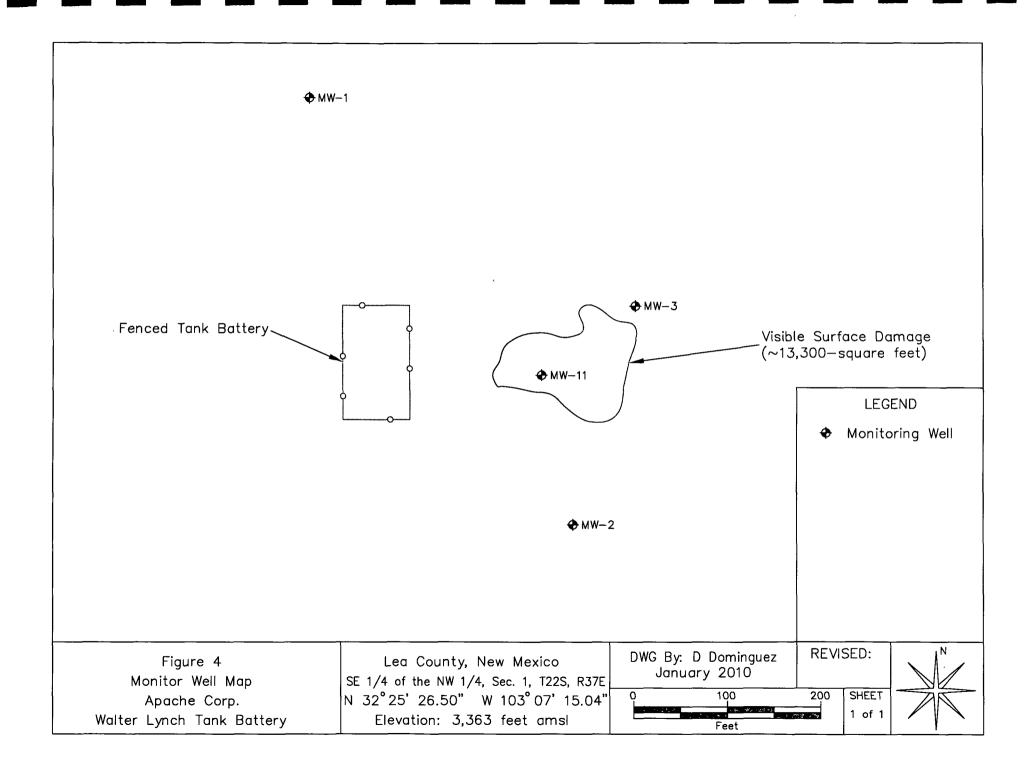
- Figure 2 Site Location Map
- Figure 3 Soil Boring Location Map
- Figure 4 Monitor Well Location Map
- Figure 5 Contours Map (Water Table and Chlorides)
- Table 1 Well Data
- Table 2 Summary of Soil Boring Field Analyses and Laboratory Analytical Results
- Table 3 Monitor Well Groundwater Laboratory Analytical Results
- Appendix I Soil Boring Logs
- Appendix II- Monitor Well Soil Boring Logs
- Appendix III Laboratory Analytical Results

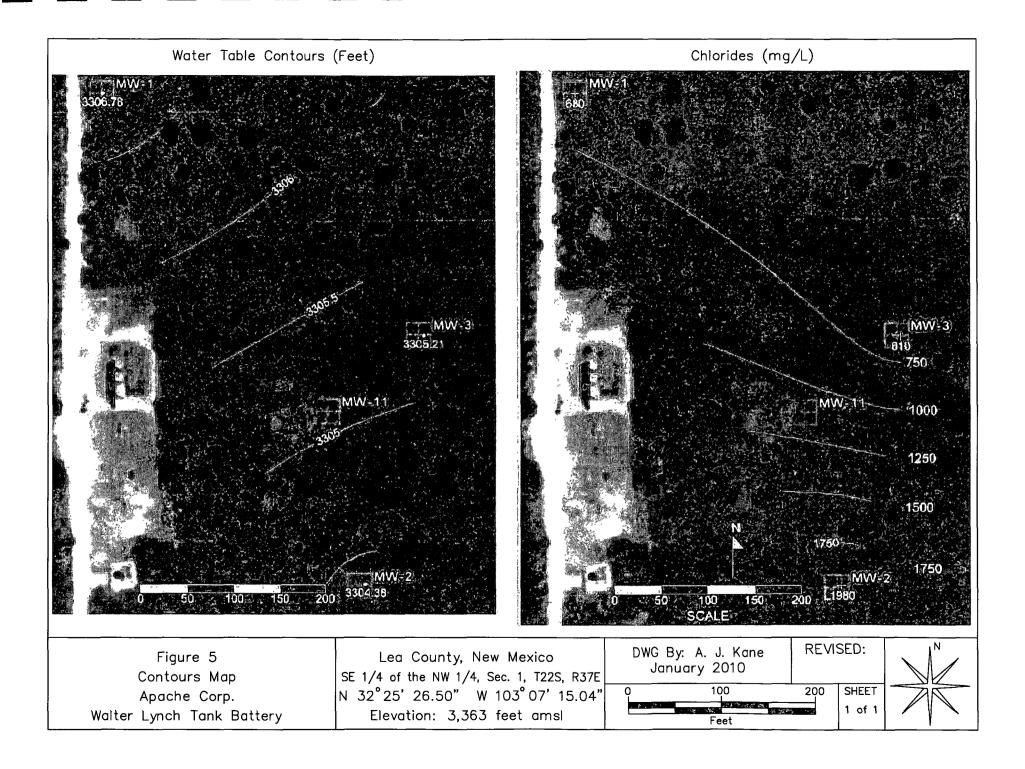
FIGURES











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Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluenc (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-1	5	In sıtu	26-Aug-09	0.5	560	<0.100	<0.100	<0.100	<0.300	<0.600	<10.0	<10 0	<20.0	256
SB-1	10	In sıtu	26-Aug-09	0.2	880	<0.050	<0 050	<0 050	<0.300	<0.450	<10.0	<10.0	<0.20	864
SB-1	15	In sıtu	26-Aug-09	0.3	560	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<0.20	784
SB-1	20	In situ	26-Aug-09	0.2	720	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<0.20	432
SB-1	25	In situ	26-Aug-09	0.1	800	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10.0	<0 20	672
SB-1	30	In sıtu	26-Aug-09	0.0	640	<0.100	<0.100	<0 100	<0.300	<0 600	<10.0	<10.0	<0.20	96
SB-1	35	ln sıtu	26-Aug-09	19.1	1,360	<0,100	<0 100	<0.100	<0.300	<0 600	<10.0	<10 0	<0.20	1,424
SB-1	40	In situ	26-Aug-09	58.1	560	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<0.20	528
SB-1	45	In situ	26-Aug-09	35 1	560	<0.100	<0.100	<0.100	<0.300	<0.600	<10.0	<10.0	<0.20	416
SB-1	50	In situ	26-Aug-09	19.8	400	<0.100	<0 100	<0 100	<0.300	<0.600	<10.0	<10 0	<0 20	256
SB-1	55	In situ	26-Aug-09	1.7	400	<0.100	<0.100	<0.100	<0.300	<0.600	<10.0	<10.0	<0 20	384
SB-1	60	In situ	26-Aug-09	19.1		<0 050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	128

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

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Walter Lynch Tank Battery (EPI Ref.# 240031)

Sample I D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-1	65	In situ	26-Aug-09	58.1		<0.100	<0.100	<0.100	<0.300	<0.600	<10 0	<10.0	<20.0	304
SB-2	5	In situ	26-Aug-09	0.2	400	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	256
SB-2	10	In sıtu	26-Aug-09	0.3	720	<0.100	<0.100	<0.100	<0.300	<0.600	<10 0	12.3	12.3	720
SB-2	15	In situ	26-Aug-09	1.2	1,040	<0.050	<0.050	<0 050	<0.300	<0.450	<10 0	<10.0	<20.0	880
SB-2	20	In situ	26-Aug-09	0.1	960	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	880
SB-2	25	In situ	26-Aug-09	0.1	1,200	<0.100	<0.100	<0 100	<0.300	<0.600	<10.0	<10.0	<20.0	1,310
SB-2	30	In sıtu	26-Aug-09	0.4	720	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	704
SB-2	[•] 35	In situ	26-Aug-09	0.1	720	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	800
SB-2	40	In situ	26-Aug-09	0.0	1,600	<0.050	<0.050	<0.050	<0.300	<0.450	<10 0	<10.0	<20.0	1,860
SB-2	45	In situ	26-Aug-09	0.1	1,600	<0.050	<0.050	<0 050	<0.300	<0.450	<10.0	<10 0	<20.0	416
SB-2	50	In situ	26-Aug-09	0.2	1,600	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	1,790
SB-2	55	In situ	26-Aug-09	00	400	<0.050	<0 050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	96

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

Sample I.D.	Depth (feet)	Sorl Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-2	60	In situ	26-Aug-09	0.0	400	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	144
SB-2	65	In situ	26-Aug-09	0.0		<0 050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	336
SB-3	5	In sıtu	26-Aug-09	0.4	240	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10 0	<20.0	<16
SB-3	10	In situ	26-Aug-09	0.2	240	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	16
SB-3	15	In situ	26-Aug-09	0.1	600	<0.050	<0.050	<0.050	<0 300	<0.450	<10 0	<10.0	<20.0	32
SB-3	20	In sıtu	26-Aug-09	01	640	<0.050	<0.050	<0 050	<0.300	<0.450	<10.0	<10 0	<20.0	176
SB-3	25	In situ	26-Aug-09	0.3	1,200	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	11 8	11.8	1,230
SB-3	30	In situ	26-Aug-09	0.1	800	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	784
SB-3	35	In situ	26-Aug-09	0.3	1,200	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	1,170
SB-3	40	In situ	26-Aug-09	0.1	1,120	<0.050	<0.050	<0 050	<0 300	<0.450	<10.0	<10.0	<20.0	896
SB-3	45	In situ	26-Aug-09	0.2	640	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10.0	<20.0	272
SB-3	50	In situ	26-Aug-09	0.3	560	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	480

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-3	55	In sıtu	26-Aug-09	0.0	400	<0.050	<0.050	<0.050	<0.300	<0 450	<10 0	<10 0	<20.0	240
SB-3	56	In sıtu	26-Aug-09	0.0		<0.050	<0 050	<0 050	<0.300	<0 450	<10.0	<10.0	<20.0	240
SB-4	5	ln situ	26-Aug-09	0.7	240	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	16
SB-4	10	In situ	26-Aug-09	0.3	320	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	11.0	11.0	160
SB-4	15	In situ	26-Aug-09	04	320	<0 050	<0.050	<0.050	<0 300	<0.450	<10 0	<10 0	<20.0	128
SB-4	20	In sıtu	26-Aug-09	0.3	320	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10 0	<20.0	160
SB-4	25	In sıtu	26-Aug-09	0.2	480	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	272
SB-4	30	In situ	26-Aug-09	0.3	480	<0 050	<0.050	<0.050	<0 300	<0.450	<10 0	14.8	14.8	272
SB-4	35	In situ	26-Aug-09	0.3	400	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	304
SB-4	40	In situ	26-Aug-09	03	400	<0.050	<0.050	<0 050	<0.300	<0.450	<10.0	<10.0	<20.0	256
SB-4	45	In situ	26-Aug-09	0.2	400	<0.050	<0.050	<0.050	<0.300	<0 450	<10.0	<10.0	<20.0	304
SB-4	50	In situ	26-Aug-09	0.2	560	<0 050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	560

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (EPI Ref.# 240031)

UL-F (SE1/4 of the NW1/4) of Section 01, T22S, R37E; Lea County, New Mexico

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C10) (mg/Kg)	DRO (>C10-C28) (mg/Kg)	Total Hydrocarbons nC6-nC28 (mg/Kg)	Chloride (mg/Kg)
SB-4	55	In situ	26-Aug-09	0.0		<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	672
SB-4	56	In sıtu	26-Aug-09	0.0		<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	560
MW-1	10	In sıtu	8-Dec-09	0.0	80	<0.050	<0.050	<0.050	<0 300	<0.450	<10.0	<10.0	<20.0	<16
MW-1	60	In sıtu	8-Dec-09	0,0	160	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20 0	64
MW-2	10	In sıtu	* 8-Dec-09	0.00	80	<0.050	<0.050	<0.050	<0 300	<0.450	<10 0	<10.0	<20 0	<16
MW-2	60	In situ	8-Dec-09	0.00	160	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10 0	<20.0	96
MW-3	10	In situ	9-Dec-09	0.00	80	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	16
MW-3	57	In situ	9-Dec-09	0 00	160	<0.050	<0.050	<0.050	<0.300	<0.450	<10.0	<10.0	<20.0	96
NMOCD Remedial Thresholds				100		10				50			100	250

Bolded values are in excess of NMOCD Remediation Threshold Goals

SB = Soil Boring; MW = Monitor Wells

-- = Not Analyzed

Monitor Well Groundwater Laboratory Analytical Results

Apache Corporation

Walter Lynch Tank Battery (NMOCD Ref. #; EPI Ref.# 240031)

Sample I D	Sample Date	TDS	Mercury (mg/L)	Silver (mg/L)	Lead (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Selenium (mg/L)	Chromium (mg/L)	Arsenic (mg/L)	pH (SU)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	Sulfates (mg/L)	Chloride (mg/L)	
MW - 1	11-Dec-09	1,720	<0 0002	<0 01	<0 05	<0 01	<0 01	<0 20	<0 01	<0 10	7.38	<0 001	<0.001	<0.001	<0 003	<0 006	283	680	
MW -2	11-Dec-09	3,680	0 002	<0 01	<0.05	<0 01	<0 01	<0 20	<0.01	<0 10	7 28	<0.001	<0 001	<0 001	<0 003	<0 006	310	1,980	/
MW - 3	11-Dec-09	1,400	0 003	<0 01	<0 05	<0 01	<0 01	<0 20	<0.01	<0 10	7.66	<0 001	<0.001	<0.001	<0 003	<0 006	190	610	-
NMWQCC Remedial	line of the second s	1,000	0 002	0 05	0 05	10	0 01	0 05	0 05	0.1	Between 6 & 9	0 01	0 75	0.75	0 62	100	600	250	

Bolded values are in excess of NMWQCC Remediation Threshold Goals -- = Not Analyzed

APPENDICES

APPENDIX I

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Soil Boring Logs



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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NOI	POD NUME			I TANK BAT	TERY SB-1					OSE FILE NUN	ABER(S)			
GENERAL AND WELL LOCATION	WELL OW			ORATION			<u></u>			PHONE (OPTIC	ONAL)			
Ľ,	WELL OW									CITY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STATE		ZIP
311	P.O. BC			ADDALDO						EUNICE			00	
I.V.	F.U. BC	<u> </u>	49							EUNICE		NM	80	3231
R	WELL				DEGREES	MINU	TES	SECON	DS					
ΓV	LOCATI	ON	LAT	TUDE	32		25	28	.00 N	• ACCURACY	REQUIRED ONE TEN	TH OF A SE	COND	
RA	(FROM G	ips)		GITUDE	103		7	13	.00 W	• DATUM REC	UIRED WGS 84			
EN	No. (00 100				N TO STREET ADDRES					[
1-6					ROAD, 3 MILES									
	(2.5 ACF	χ <u>Ε)</u>		(10 ACRE)	(40 ACRE)		160 ACRE)	T	SECTION		TOWNSHIP		RANGE	
L L	1	4		1/4	1/4		1/4					NORTH		EAST
N.	SUBDIVISI		(F	/4	/4		/•		LOT NUM	RFR	BLOCK NUMBER	окли	UNIT/TRA	
OPTIONAL	565511151	0/11/11/1							201 1101	2211	DECENTION			
0	HYDROGR	ADUICS	UDVE	v				1			MAP NUMBER		TRACT NU	
5.	III DROOM	n ne o	0								MAN NOMBER		1 MACI NO	MOLK
- >			- 44										L	
	LICENSE N			NAME OF LICEN							NAME OF WELL DE			
	WD	147 <u>8</u>		EDWARD B	BRYAN						STRAUB CO	RPORA	ΓΙΟΝ	
ſ	DRILLING	•	D	DRILLING END	ED DEPTH OF COMI		WELL (FT)			LE DEPTH (FT)	DEPTH WATER FIR			
z	8-2	6-09		8-26-09		0				65		N/A	ι	
DRILLING INFORMATION	COMPLET	ED WELI	L IS	ARTESIAN	DRY HOLE		SHALLOW	(UNCO	NFINED)		STATIC WATER LE	VEL IN COM		LL (FT)
OR	DRILLING	E1 1 II D.		🖌 AIR	MUD		ADDITIVES	S SBEC	YEV.		L		********	******
N	DRILLING					ᅳ⊢	CABLE TO			R - SPECIFY				
Sui				<u> </u>						K - SFECIFT		T		
ILL		H (FT)		BORE HOLE		ASING		1		NECTION	INSIDE DIA.		G WALL	SLOT
	FROM	то		DIA. (IN)	M/	ATERL	AL			(CASING)	CASING (IN)		ESS (IN)	SIZE (IN)
Э.	0	65)	5		N/A				N/A	N/A	N	I/A	N/A
												<u> </u>		
												 		
								l			L	1		
	DEPT	H (FT)		THICKNESS	; FC	ORMA	TION DES	CRIPT	'ION OF P	RINCIPAL W	ATER-BEARING S	TRATA		YIELD
VTA	FROM	TC)	(FT)		(INC	LUDE WA	TER-E	BEARING	CAVITIES OI	R FRACTURE ZON	IES)		(GPM)
TR														
GS			4							·				
RIN														
WATER BEARING STRATA	ŕ									-				
R B										,			*****	
VTE	METHOD L	ISED TO	ESTI	MATE YIELD OF W	ATER-BEARING STRA	TA					TOTAL ESTIMATED	WELL YIEL	D (GPM)	
				· · · · · · · · · · · · · · · · · · ·										
*														
	FOR OUT	LINT	DATAS	LICE							WELL DECO			(0)(0.0)
	FOR OSE		<u>NAI</u>	L USE			POD NU	IMBE	2		TRN NUMBE		version 6	(\$/()8)
	I FILE NU	NUDER					LIODING	MOCI	•		L DER NOMBE	45		

LOCATION

Ind .			DEPTH		CYLINDER BORE HOLE	OTHER – SPECIFY:	AMOUNT	METH	
SEAL AND PUMP	ANNI	JLAR	FROM	то	DIA (IN)	MATERIAL TYPE AND SIZE	(CUBIC FT)	METH	OD OF EMENT
EAL		. AND L PACK	0	2	5	.5 BAG OF CEMENT			.OAD
5.5	0.0172	DIREK	2	65	5	13 BAGS OF 3/8 PLUG		TOPI	OAD
	DEPT	H (FT)	THICK		L			1	
	FROM	то	(FT		(INCL)	COLOR AND TYPE OF MATERIAL ENCOUNT UDE WATER-BEARING CAVITIES OR FRACT			TER UNG?
	0	7	7	,	Т	AN FINE SAND - CALICHE - SANDS	STONE	🗖 ÝES	
	7	10	3	1		TAN FINE SAND - WITH CLAY		T YES	
	10	20	1(00	T.	AN FINE SAND - SANDSTONE - CA	LICHE	T YES	🗹 N(
	20	27	7			TAN FINE SAND- CAL SANDSTO	NE	🗆 YES	🖸 N(
Ц	27	29	2			RED FINE SAND SANDSTONE		I YES	1 NO
GEOLOGIC LOG OF WELL	29	46	17	7		TAN FINE SAND - SANDSTON		VES	א 🖸
OF	46	50	4			RED FINE SAND - WITH CLAY	•	T YES	
LOG	50	52	2			TAN FINE SAND - CAL. SANDSTO	DNE	T YES	
GIC	52	54	2	2	Т	AN FINE SAND - CALICHE - SANDS	STONE	T YES	1 N
LQ LQ	54	54 65 11 RED FINE SAND - SILTY CLAY							
GEC	TD								
¢،								T YES	א 🗖
								☐ YES	
	ļ							☐ YES	
			<u> </u>					☐ YES	
						······································		☐ YES	
	ļ	<u> </u>						VES	
			ATTACH		AL PAGES AS NI	EEDED TO FULLY DESCRIBE THE GEOLOGIC	CLOG OF THE WELL		
0			METHOD:	BAILE		AIR LIFT OTHER - SPECIFY.			
ONAL INFO	WELL	. TEST				DATA COLLECTED DURING WELL TESTING, AND DRAWDOWN OVER THE TESTING PERI		IME, END T	IME,
INAL	ADDITION	NAL STATE	MENTS OR EXPL	ANATIONS:					<u> </u>
					G WAS PLUG	GED AND ABANDONED UPON CO	MPLETION OF S	AMPLING	
ADDITI									
ST &									
TEST									
7.	<u> </u>								
É.						EST OF HIS OR HER KNOWLEDGE AND BELI D THAT HE OR SHE WILL FILE THIS WELL R			
TUR						ON OF WELL DRILLING:	ECOND WITH THE ST	ATE ENGIN	LEK ANI
SIGNATURE		LO	14			alalog			
-	6	A	SIGNATUR		ED.				
si S		•	STAND BUD		H M	4 7 DATE			

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ION	WALTE	RLYN	IL NUMBER)	BATTE	RY SB-2				OSE FILE NUM	· · ·			
OCAT	WELL OWN		^{ie(S)} RPORATIO	N					PHONE (OPTIC	DNAL)			
WELL LOCATION	WELL OWN P.O. BC		LING ADDRESS								STATE NM	88	ZIP 8231
GENERAL AND	WELL LOCATI (FROM G	ON iPS)	LATITUDE	D	egrees 32 103	MINUTES 25 7		os 00 _N 00 W		REQUIRED ONE TEN	TH OF A SEC	COND	
I. GENE		ION REL			O STREET ADDRES	SEAST OF E	LANDMA	RKS	L				41
L.	(2.5 ACR	LE) (4	(10 ACRE)		(40 ACRE)	(160 ACRE) 1/4		SECTION		TOWNSHIP	NORTH SOUTH	RANGE	EAST
2. OPTIONAL	SUBDIVISI	ON NAMI	E	I	^ر میں اور			LOT NUM	BER	BLOCK NUMBER		UNIT/TRA	
2.0]	HYDROGR	APHIC SU	JRVEY	<u></u>			L_			MAP NUMBER		TRACT NU	MBER
	LICENSE N	UMBER 1478	NAME OF							NAME OF WELL DR			
Ĩ	DRILLING	startei 6-09	D DRILLING		DEPTH OF COM	PLETED WELL (FT	7		e depth (FT) 65	DEPTH WATER FIR	N/A		
RMATIC	COMPLETE	ED WELL	IS [.] ARTE	SIAN	DRY HOLE	SHALLOW	W (UNCON	FINED)		STATIC WATER LE	VEL IN COM		LL (FT)
O INFO	DRILLING			RY			es – speci		R - SPECIFY:				
3. DRILLING INFORMATION		H (FT) TO	BORE	IOLE	(CASING		CONN	VECTION (CASING)	INSIDE DIA. CASING (IN)		G WALL IESS (IN)	SLOT SIZE (IN)
3. DI	0	65				N/A			N/A	N/A	N	/A	N/A
													``````````````````````````````````````
TA	DEPT FROM	H (FT) TO	THICK (FT		FC					ATER-BEARING S R FRACTURE ZON			YIELD (GPM)
4. WATER BEARING STRATA													
VTER BEA	METHOD U	ISED TO I	ESTIMATE YIELD	OF WATE	R-BEARING STRA	TA				TOTAL ESTIMATED	WELL YIEI	.D (GPM)	
			NAL LISE		a dala arang dalam dalam dalam dan dalam dala Mantana dalam d	and a start of the							

FUR USE INTERNAL USE		WELL RECORD & LOG	(Version 6/9/08)					
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LOCATION								

MP	ΤΥΡΕ ΟΙ	FPUMP	SUBMER		□ JET □ CYLINDER	☐ NO PUMP – WELL NOT EQUIPPED ☐ OTHER – SPECIFY:			
SÊAL AND PUMP	ANNI	ILAR	DEPTH	I (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH	OD OF EMENT
ÊAL	SEAL	AND	0	2	5	.5 BAG OF CEMENT T		TOPL	OAD
5. SI	GRAVE	L PACK	2	65	5	13 BAGS OF 3/8 PLUG		TOPL	OAD
÷					<u> </u>				
	DEPT	H (FT)	THICK	NESS	Í	COLOR AND TYPE OF MATERIAL ENCOUNTE	RED	WA	TFR
	FROM	то	(F1		(INCL)	UDE WATER-BEARING CAVITIES OR FRACTU	RE ZONES)	BEAR	
r	0	7	7		т	AN FINE SAND - CALICHE - SANDST	ONE	T YES	NO 🗹
	7	10	3			TAN FINE SAND - WITH CLAY		☐ YES	🗹 NO
	10	28	18	3	T.	AN FINE SAND - SANDSTONE - CAL	ICHE	S YES	🗹 NO
1	28	38	7			TAN FINE SAND - CAL. SANSTON	E	☐ YES	Ø NO
	38	48	10	)		CALICHE - TAN CAL SANDSTON		<b>Y</b> ES	Ø NO
VEĽ	48	65	17	,		RED FINE SAND WITH CLAY		<b>YES</b>	Ø NO
GEOLOGIC LOG OF WELL	TD	65						T YES	
9			(					T YES	D NO
LC.								U YES	□ NO
						annan - In iodhachad Mohann - Frei Sanad Gerrer - Y Sanad Gerra an Anna Sanad Sanad Sanad Sanad Sanad Sanad San		☐ YES	D NO
EOI							······································	□ YES	<b>□</b> NÒ
9								☐ YES	□ NO
								☐ YES	
• •								U YES	
1. se 1								☐ YES	□ NO
	÷							TYES	□ NO
								YES	
ì			ATTACH	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC I	LOG OF THE WELL		
3- 45 -			METHOD	BAILE	R D PUMP	AIR LIFT OTHER – SPECIFY:			<u>-                                    </u>
NAL INFO	WELL	TEST				DATA COLLECTED DURING WELL TESTING, IN AND DRAWDOWN OVER THE TESTING PERIO		ME, END TI	ME,
ÓNA	ADDITION	AL STATE	MENTS OR EXPL	ANATIONS			······	`	
ADDITION					G WAS PLUG	GED AND ABANDONED UPON COM	IPLETION OF SA	MPLING	
& AD									
TEST 6									
7. TE									
÷.,						`	· · · · · · · · · · · · · · · · · ·		
SIGNATURE	CORREC	T RECOR	D OF THE AB	OVE DESCH	RIBED HÒLE ANI	IST OF HIS OR HER KNOWLEDGE AND BELIEF O THAT HE OR SHE WILL FILE THIS WELL REC ON OF WELL DRILLING			
NAT	~	1,				plalaa			
		r_1_	By=			4/5/07			
<b>.</b> 8		<i>ر</i>	SIGNATUR	E OF DRILL	.ER	DATE			
			0			an <u>a anna an ann an Aonai</u> nn an Aonaichte ann an Aonaichte an A			<u> </u>

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F											
NO	POD NUMBER	•	•	TTERY SB-3			OSE FILE NUI	MBER(S)			
GENERAL AND WELL LOCATION	WELL OWNER	• •	•				PHONE (OPTI	ONAL)			
11	WELL OWNER	MAILING	J ADDRESS			·····	CITY		STATE		ZIP
WEL	P.O. BOX	1849					EUNICE		NM	88	3231
ĝ	WELL	T		DEGREES	MINUTES	SECONDS	Τ			<u>`</u>	
ALA	LOCATION	and the second se		32	25	28.00 N			TH OF A SEC	COND	
ENER	(FROM GPS)	LO	NGITUDE	103	7	12.00 W		QUIRED. WGS 84			
<b>ט</b> ד				ON TO STREET ADDRES							
	(2.5 ACRE)		(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTIO	1	TOWNSHIP		RANGE	
AL	1/4		1/4	1/4	1/4						LAST
OPTIONAL	SUBDIVISION	NAME				LOT NU	MBER	BLOCK NUMBER		UNIT/TRA	ст
5.0	HYDROGRAPH	HC SURV	EY			MAP NUMBER TRACT NUMB					
<u> </u>	LICENSE NUM	BER	NAME OF LICE	INSED DRILLER	****			NAME OF WELL DR	ILLING COM	APANY	
, ,	WD14	78	EDWARD				STRAUB CORPORATION				
Ĺ	DRILLING ST		DRILLING END		PLETED WELL (FT)	BORE H	DLE DEPTH (FT)	DEPTH WATER FIR	VNSHIP RANGE LE RANGE LE RANGE LE RANGE VNSHIP RANGE VNIT VNMBER VNIT/TRACT VNMBER VNIMBER VNIMBER VNIMBER TRACT NUMBER TRACT NUMBER TRACT NUMBER VALUE OF WELL DRILLING COMPANY RAUB CORPORATION TH WATER FIRST ENCOUNTERED (FT) N/A TIC WATER LEVEL IN COMPLETED WELL (FT) N/A SIDE DIA CASING WALL SLC ASING (IN) THICKNESS (IN) SIZE N/A		
Z	8-26-	09	8-26-09		0		60		EPTH WATER FIRST ENCOUNTERED (FT)		
DRILLING INFORMATION	COMPLETED	WELL IS [.]	ARTESIAN	DRY HOLE	SHALLOW (	UNCONFINED)					LL (FT)
FOR	DRILLING FLU	лD	🗸 AIR	MUD	ADDITIVES	- SPECIFY		J			
NG ID	DRILLING ME	THOD.	ROTARY	HAMMER	CABLE TOO	L ОП-	ER - SPECIFY.				
	DEPTH (	FT)	BORE HOL	E (	CASING	CON	NECTION	INSIDE DIA	CASING	G WALL	SLOT
DRI	FROM	то	DIA. (IN)	M	ATERIAL	Түрі	CASING)	CASING (IN)			SIZE (IN)
ъ	0	60	5		N/A		N/A	N/A	N	/A	N/A
	DEPTH (	FT)	THICKNES		ORMATION DESC	TRIPTION OF	PRINCIPAL W	ATER-BEARING S	TRATA		YIELD
۲	FROM	TO	(FT)					R FRACTURE ZON			(GPM)
<b>FRA1</b>											
SON											
<b>ARU</b>	·····								······	• • •	
SR BF											
4. WATER BEARING STRATA	METHOD USE	D TO EST	IMATE YIELD OF	WATER-BEARING STRA	NTA			TOTAL ESTIMATED	WELL YIEL	.D (GPM)	
	FOR OSE IN	ITERNA						WELL RECO		(Version 6	/0//)8)
	FILE NUME				POD NU	MBER		TRN NUMBE		(version o	2/00]

LOCATION

•			CT CUDMCC	CIDI C		NO NUMBER WELL NOT COMPARED			
ME	TYPE O	F PUMP:	SUBMER		JET     CYLINDER	OTHER – SPECIFY:			
SEAL AND PUMP	ANNI	JLAR	DEPTH FROM	I (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH	
ML	SEAL	AND	0	2	5	.5 BAG OF CEMENT		TOPL	.OAD
5. SI	GRAVE	L PACK	2	60	5	18 BAGS OF 3/8 PLUG		TOPL	.OAD
	<u> </u>								
	DEPT	H (FT)	тніск	NESS	Í	COLOR AND TYPE OF MATERIAL ENCOUNT	ERED	WA	TER
	FROM	то	(F)	Γ)	(INCLI	JDE WATER-BEARING CAVITIES OR FRACTI	JRE ZONES)	BEAR	
	0	9	9	)	T/	AN FINE SAND - CALICHE - SANDS	TONE	□ YES	🖸 NO
1	9	15	6	i		CALICHE		□ YES	NO NO
	15	41	20	6		TAN FINE SAND - SANDSTONE		☐ YES	🖸 NO
	41	49	8			TAN FINE SAND - CAL. SANSTON	NE	T YES	NO NO
ΓΓ	49	60	1	1		RED FINE SAND - CLAY		☐ YES	🖸 NO
WE	TD	60						☐ YES	D NO
0F				,				T YES	🔲 NO
гõ							· · · · · · · · · · · · · · · · · · ·	T YES	
6. GEOLOGIC LOG OF WELL								<b>VES</b>	
LO DLO								☐ YES	D NO
GEC								☐ YES	D NO
é.								☐ YES	D NÒ
						• • • • • • • • • • • • • • • • • • • •		TYES	D NO
	L				L			T YES	D NO
		L					-	☐ YES	D NO
								☐ YES	
		L	<u> </u>					VES	
			ATTACH	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL		
Q			METHOD:	BAILE		AIR LIFT OTHER - SPECIFY:			
ONAL INFO	WELL	. TEST				ATA COLLECTED DURING WELL TESTING, I AND DRAWDOWN OVER THE TESTING PERIO		ME, END TI	ME,
	ADDITIO	NAL STATEN	HENTS OR EXPL	ANATIONS					
7. TEST & ADDITI	SOIL B	ORING	ONLY- SO	IL BORIN	G WAS PLUG	GED AND ABANDONED UPON CO	MPLETION OF SA	AMPLING	
8. SIGNATURE	CORREC	CT RECOR	D OF THE AB	OVE DESC	RIBED HOLE ANI FTER COMPLETI	IST OF HIS OR HER KNOWLEDGE AND BELIE D THAT HE OR SHE WILL FILE THIS WELL RE ON OF WELL DRILLING. $\frac{9/3/69}{}$ DATE	F, THE FOREGOING I CORD WITH THE ST	S A TRUE A ATE ENGINE	ND EER AND

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z			L NUMBER)					OSE FILE N	UMBER(S)			
VII0	WELL OWN							PHONE (OP	TIONAL)			
GENERAL AND WELL LOCATION	APACHE	E COF	RPORATION									
1 T T			ING ADDRESS					СГТҮ		STATE		ZIP
WE	P.O. BO	X 184	9					EUNICE		NM	88	3231
AND	WELL	Į.		DEGREES	MINUT			* ACCLÍP A	CY REQUIRED ONE TEN	1711 05 4 65	COND	
RAL	LOCATIC (FROM G	PS)	LATITUDE	32			27.00 N		EQUIRED WGS 84	nn of k 36	COND	
ENE	DESCRIPTI		LONGITUDE	103	S AND (		12.00 W	<u> </u>				
1 C				ROAD, 3 MILES								
· · ·	(2.5 ACR	E)	(10 ACRE)	(40 ACRE)	(	160 ACRE)	SECTION		TOWNSHIP		RANGE	EASI
IAE	1/2		1/4	1/4		i⁄4						west
OPTIONAL	SUBDIVISIO	ON NAME					LOT NUN	4BER	BLOCK NUMBER		UNIT/TRA	СТ
do	HYDROGRA	APHIC SU	RVEY						MAP NUMBER		TRACT NI	MBER
	LICENSE N	UMBER	NAME OF LICE	NSED DRILLER					NAME OF WELL DE	RILLING COM	IPANY	
	WD1		EDWARD	فالرواب المستقار والمتراجع والمراجع والمراجع				HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT)				
Ĺ.	8-26-09 8-26-09 0					BOREHO	LE DEPTH (FT 60	) DEPTH WATER FI	IST ENCOUN			
DRILLING INFORMATION									STATIC WATER LE			L (FT)
MA	COMPLETE	D WELL	IS: ARTESIAN	DRY HOLE		SHALLOW (UN	CONFINED)	N/A				
NFOI	DRILLING I	FLUID	🗸 AIR			ADDITIVES - S	PECIFY.					
I DN	DRILLING	METHOD	ROTARY	HAMMER		CABLE TOOL	П отн	ER - SPECIFY				
ILLU	DEPT	<u> </u>	BORE HOL					NECTION (CASING)	INSIDE DIA. CASING (IN)	1	G WALL IESS (IN)	SLOT SIZE (IN)
3. DR	FROM 0		DIA. (IN)		ATERIA N/A	·····		N/A	N/A		1235 (1)() 1/A	N/A
										ļ`		
										<u> </u>		
×	DEPTI FROM	H (FT) TO	THICKNES (FT)	S FO					WATER-BEARING S OR FRACTURE ZON			YIELD (GPM)
RAT	FROM			····					OKT KACTOKE ZOT			(0111)
GST			`									
RIN										······································		
BEA												
TER	METHOD U	SED TO F	STIMATE VIELD OF	WATER-BEARING STRA					TOTAL ESTIMATE		D (GPM)	
4. WATER BEARING STRATA											(Us (VI)	
	ron ore	INTER							151pt F 6 9 9 9			(2 (2 2)
and the second	FOR OSE		NAL USE			POD NUM	BER		TRN NUMBE		(Version 6	19/08)
	LOCATION PAGE 1 OF 2											

MP	TYPE O	f PUMP [,]			☐ JET ☐ CYLINDER	□ NO PUMP – WELL NOT EQUIPPED □ OTHER – SPECIFY:			
SEAL AND PUMP		11 AD	DEPTH		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)		OD OF EMENT
AL	SEAL	ULAR , AND	0	2	5	.5 BAG OF CEMENT	1	ТОРІ	OAD
5. SF	GRAVE	L PACK	2	60	5	18 BAGS OF 3/8 PLUG		TOPI	OAD
	DEPT	H (FT)	THICK	NESS		COLOR AND TYPE OF MATERIAL ENCOUNT	ERED	WA	TER
	FROM	то	) (F1	Г)	(INCL)	UDE WATER-BEARING CAVITIES OR FRACT	URE ZONES)	BEAF	UNG?
	0	9	9			TAN FINE SAND - SANDSTONE		<b>VES</b>	🗹 NO
	9	25	10	6	Т	AN FINE SAND - CALICHE - SANDS	TONE	T YES	🗹 NO
	25	34	9	l		TAN FINE SAND - SANDSTON		S YES	🗹 NO
	34	50	10	ô		AN FINE SAND - CALICHE SANDS	TONE	C YES	🛛 NO
сL	50	60	1(	כ		<b>RED FINE SAND - WITH CLAY</b>		T YES	🗹 NO
GEOLOGIC LOG OF WELL	TD	60						D YES	🗆 NO
OF								T YES	DN 🔲
000			,					S YES	ÓИ 🔲
1CI						· · · · · · · · · · · · · · · · · · ·		S YES	D NO
EQ								🖸 YES	🗆 NO
GEO								D YES	
è								S YES	D NO
								T YES	D NO
								T YES	
								TYES	
								YES	🗖 NO
								T YES	D NO
			ATTACH	ADDITION	AL PAGES AS NE	EEDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL		
	1		METHOD			AIR LIFT OTHER - SPECIFY			· · · · · · · · · · · · · · · · · · ·
ONAL INFO	WELI	L TEST	TEST RESU AND A TAE	LTS - ATTA BLE SHOWI	CH A COPY OF E	DATA COLLECTED DURING WELL TESTING, AND DRAWDOWN OVER THE TESTING PERI	INCLUDING START 1 OD.	TIME, END T	IME,
7. TEST & ADDITION/	1		MENTS OR EXPL		G WAS PLUG	GED AND ABANDONED UPON CO	MPLETION OF S	AMPLING	
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER A THE PERMIT POLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: SIGNATURE OF DRILLER								ND EER AND	

•

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FOR USE INTERNAL USE		WELL KELUKD & LUU	(version or mos)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2

## **APPENDIX II**

**Monitor Well Soil Boring Logs** 

ζ.



## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

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		BER (WELL					OSE FILE NU	MBER(S)			
NOL			CH TANK BATT	ERY MW-1							
CAT							PHONE (OPT)	ONAL)			
ΓO			ING ADDRESS		<u></u>		CITY		STATE		ZIP
GENERAL AND WELL LOCATION	P.O. B						EUNICE		NM	88	3231
A ON	WEL	. T		DEGREES	MINUTES SEC	ONDS		······			
VLA	LOCAT		LATITUDE	32	25	31.00 N	• ACCURACY	REQUIRED ONE TEN	ITH OF A SEC	COND	
VER	(FROM (		ONGITUDE	103	7	16.00 ^w	* DATUM RE	QUIRED WGS 84			
GEI					SS AND COMMON LANI						
1.	APACH	IE SITE	- DRINKARD R	OAD 3 MILES	EAST OF EUN	CE NM, I	LEA CO				
	(2 5 AC	RE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP		RANGE	
IAL		1/4	4	1/4	1/4						WEST
OPTIONAL	SUBDIVIS	ION NAME				LOT NUM	IBER	BLOCK NUMBER		UNIT/TRA	ст
	HYDROGR	APHIC SUR	RVEY					MAP NUMBER		TRACT NU	IMBER
2.											
	LICENSE N	NUMBER	NAME OF LICENS	ED DRILLER				NAME OF WELL DR	ILLING COM	IPANY	
	WD	1478	EDWARD B	RYAN				STRAUB CO	RPORAT	ION	
	DRILLING		DRILLING ENDED	DEPTH OF COM	PLETED WELL (FT)	1	LE DEPTH (FT)	DEPTH WATER FIR			
NOI	12-	-8-09	12-8-09	<u> </u>	65	1	65	STATIC WATER I E	NORTH       RANGE         SOUTH       WEST         UNIT/TRACT       WEST         TRACT NUMBER       TRACT NUMBER         RILLING COMPANY       RPORATION         RST ENCOUNTERED (FT)       SUEL IN COMPLETED WELL (FT)         VEL IN COMPLETED WELL (FT)       N/A         CASING WALL       SLOT         THICKNESS (IN)       SIZE (IN)         0.154       0.10         0.154       RISER         STRATA       YIELD		L (FT)
RMAT	COMPLETED WELL IS ARTESIAN DRY HOLE SHALLOW (UNCONFINED										
				MUD	ADDITIVES - SI	ECIFY	· · · · · · · · · · · · · · · · · · ·				
NFO	Z DRILLING FLUID AIR MUD ADDITIVES - SPECIFY						HER - SPECIFY				
NG INFO	DRILLING DRILLING		V AIR	HAMMER	CABLE TOOL	ОТНЕ	R - SPECIFY				
ILLING INFO	DRILLING DEPT	method fH (FT)	BORE HOLE		CASING	CON	NECTION	INSIDE DIA.			
DRILLING INFORMATION	DRILLING DEPT FROM	METHOD FH (FT) TO	BORE HOLE DIA. (IN)	HAMMER C M/	CASING ATERIAL	CONI	VECTION (CASING)	CASING (IN)	THICKN	ESS (IN)	SIZE (IN)
3. DRILLING INFO	DRILLING DEPT FROM 65	METHOD TH (FT) TO 45	BORE HOLE DIA. (IN) 5	HAMMER C M/ SCH 40	CASING ATERIAL .010 SCREEN	CONI	VECTION (CASING) FJ	CASING (IN) 2	THICKN	ESS (IN) 54	SIZE (IN) 0.10
	DRILLING DEPT FROM	METHOD FH (FT) TO	BORE HOLE DIA. (IN)	HAMMER C M/ SCH 40	CASING ATERIAL	CONI	VECTION (CASING)	CASING (IN)	THICKN	ESS (IN) 54	SIZE (IN)
	DRILLING DEPT FROM 65	METHOD TH (FT) TO 45	BORE HOLE DIA. (IN) 5	HAMMER C M/ SCH 40	CASING ATERIAL .010 SCREEN	CONI	VECTION (CASING) FJ	CASING (IN) 2	THICKN	ESS (IN) 54	SIZE (IN) 0.10
3.	DRILLING DEPT FROM 65 45 DEPT	METHOD TH (FT) TO 45 +43 TH (FT)	ROTARY       BORE HOLE       DIA. (IN)       5       5       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>HAMMER C M/ SCH 40 SCH 40</td><td>CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI</td><td>CONI TYPE</td><td>NECTION (CASING) FJ FJ RINCIPAL W</td><td>CASING (IN) 2 2 ATER-BEARING S</td><td>THICKN 0.1 0.1 TRATA</td><td>ESS (IN) 54</td><td>SIZE (IN) 0.10 RISER YIELD</td></t<>	HAMMER C M/ SCH 40 SCH 40	CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S	THICKN 0.1 0.1 TRATA	ESS (IN) 54	SIZE (IN) 0.10 RISER YIELD
A 3.	DRILLING DEPT FROM 65 45	METHOD TH (FT) TO 45 +43 TH (FT)	BORE HOLE DIA. (IN) 5 5	HAMMER C M/ SCH 40 SCH 40	CASING ATERIAL .010 SCREEN ) PVC RISER	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S	THICKN 0.1 0.1 TRATA	ESS (IN) 54	SIZE (IN) 0.10 RISER
A 3.	DRILLING DEPT FROM 65 45 DEPT	METHOD TH (FT) TO 45 +43 TH (FT)	ROTARY       BORE HOLE       DIA. (IN)       5       5       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>HAMMER C M/ SCH 40 SCH 40</td><td>CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI</td><td>CONI TYPE</td><td>NECTION (CASING) FJ FJ RINCIPAL W</td><td>CASING (IN) 2 2 ATER-BEARING S</td><td>THICKN 0.1 0.1 TRATA</td><td>ESS (IN) 54</td><td>SIZE (IN) 0.10 RISER YIELD</td></t<>	HAMMER C M/ SCH 40 SCH 40	CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S	THICKN 0.1 0.1 TRATA	ESS (IN) 54	SIZE (IN) 0.10 RISER YIELD
A 3.	DRILLING DEPT FROM 65 45 DEPT	METHOD TH (FT) TO 45 +43 TH (FT)	ROTARY       BORE HOLE       DIA. (IN)       5       5       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>HAMMER C M/ SCH 40 SCH 40</td><td>CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI</td><td>CONI TYPE</td><td>NECTION (CASING) FJ FJ RINCIPAL W</td><td>CASING (IN) 2 2 ATER-BEARING S</td><td>THICKN 0.1 0.1 TRATA</td><td>ESS (IN) 54</td><td>SIZE (IN) 0.10 RISER YIELD</td></t<>	HAMMER C M/ SCH 40 SCH 40	CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S	THICKN 0.1 0.1 TRATA	ESS (IN) 54	SIZE (IN) 0.10 RISER YIELD
A 3.	DRILLING DEPT FROM 65 45 DEPT	METHOD TH (FT) TO 45 +43 TH (FT)	ROTARY       BORE HOLE       DIA. (IN)       5       5       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>HAMMER C M/ SCH 40 SCH 40</td><td>CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI</td><td>CONI TYPE</td><td>NECTION (CASING) FJ FJ RINCIPAL W</td><td>CASING (IN) 2 2 ATER-BEARING S</td><td>THICKN 0.1 0.1 TRATA</td><td>ESS (IN) 54</td><td>SIZE (IN) 0.10 RISER YIELD</td></t<>	HAMMER C M/ SCH 40 SCH 40	CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S	THICKN 0.1 0.1 TRATA	ESS (IN) 54	SIZE (IN) 0.10 RISER YIELD
A 3.	DRILLING DEPT FROM 65 45 DEPT	METHOD TH (FT) TO 45 +43 TH (FT)	ROTARY       BORE HOLE       DIA. (IN)       5       5       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>HAMMER C M/ SCH 40 SCH 40</td><td>CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI</td><td>CONI TYPE</td><td>NECTION (CASING) FJ FJ RINCIPAL W</td><td>CASING (IN) 2 2 ATER-BEARING S</td><td>THICKN 0.1 0.1 TRATA</td><td>ESS (IN) 54</td><td>SIZE (IN) 0.10 RISER YIELD</td></t<>	HAMMER C M/ SCH 40 SCH 40	CASING ATERIAL .010 SCREEN ) PVC RISER DRMATION DESCRI	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S	THICKN 0.1 0.1 TRATA	ESS (IN) 54	SIZE (IN) 0.10 RISER YIELD
A 3.	DRILLING DEPI FROM 65 45 DEPI FROM	METHOD TH (FT) TO 45 +43 H (FT) TO TO	ROTARY       BORE HOLE       DIA. (IN)       5       5       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>HAMMER C M/ SCH 40 SCH 40 SCH 40 FC</td><td>CASING ATERIAL .010 SCREEN ) PVC RISER ) PVC RISER ) PVC RISER (INCLUDE WATE)</td><td>CONI TYPE</td><td>NECTION (CASING) FJ FJ RINCIPAL W</td><td>CASING (IN) 2 2 ATER-BEARING S</td><td>THICKN 0.1 0.1 TRATA ES)</td><td>ESS (IN) 54 54</td><td>SIZE (IN) 0.10 RISER YIELD</td></t<>	HAMMER C M/ SCH 40 SCH 40 SCH 40 FC	CASING ATERIAL .010 SCREEN ) PVC RISER ) PVC RISER ) PVC RISER (INCLUDE WATE)	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S	THICKN 0.1 0.1 TRATA ES)	ESS (IN) 54 54	SIZE (IN) 0.10 RISER YIELD
3.	DRILLING DEPI FROM 65 45 DEPI FROM	METHOD TH (FT) TO 45 +43 H (FT) TO TO	ROTARY       BORE HOLE       DIA. (IN)       5       5       -       THICKNESS (FT)	HAMMER C M/ SCH 40 SCH 40 SCH 40 FC	CASING ATERIAL .010 SCREEN ) PVC RISER ) PVC RISER ) PVC RISER (INCLUDE WATE)	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S R FRACTURE ZON	THICKN 0.1 0.1 TRATA ES)	ESS (IN) 54 54	SIZE (IN) 0.10 RISER YIELD
A 3.	DRILLING DEPT FROM 65 45 DEPT FROM METHOD U	METHOD TH (FT) TO 45 +43 H (FT) TO USED TO ES	ROTARY         BORE HOLE         DIA. (IN)         5         5         7         THICKNESS (FT)         STIMATE YIELD OF WA	HAMMER C M/ SCH 40 SCH 40 SCH 40 FC	CASING ATERIAL .010 SCREEN ) PVC RISER ) PVC RISER ) PVC RISER (INCLUDE WATE)	CONI TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S R FRACTURE ZON TOTAL ESTIMATED	THICKN 0.1 0.1 TRATA ES) WELL YIEL	ESS (IN) 54 54 54 0 0 0 0 (GPM)	SIZE (IN) 0.10 RISER YIELD (GPM)
A 3.	DRILLING DEPT FROM 65 45 DEPT FROM METHOD U	METHOD TH (FT) TO 45 +43 H (FT) TO USED TO ES E INTERN	ROTARY         BORE HOLE         DIA. (IN)         5         5         7         THICKNESS (FT)         STIMATE YIELD OF WA	HAMMER C M/ SCH 40 SCH 40 SCH 40 FC	CASING ATERIAL .010 SCREEN ) PVC RISER ) PVC RISER ) PVC RISER (INCLUDE WATE)	CONN TYPE	NECTION (CASING) FJ FJ RINCIPAL W	CASING (IN) 2 2 ATER-BEARING S R FRACTURE ZON	THICKN 0.1 0.1 TRATA ES)	ESS (IN) 54 54 54 0 0 0 0 (GPM)	SIZE (IN) 0.10 RISER YIELD (GPM)

LP I	TYPE O	F PUMP [.]			□ JET □ CYLINDER	□ NO PUMP – WELL NOT EQUIPPED □ OTHER – SPECIFY:			
SEAL AND PUMP			DEPTH	I (FT)	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH	
NLA.		JLAR AND	FROM 65		5	6 BAGS OF 20/40 SAND	(000011)	TOPL	
		L PACK	40	2	5	7 BAGS OF 3/8 HOLEPLUG		TOPL	
Ϋ́.			2	0	5	1 BAG OF CEMENT		TOPL	.OAD
	DEPT	H (FT)	THICK	NESS		COLOR AND TYPE OF MATERIAL ENCOUNTE		WA	TED
	FROM	то	(FT			JDE WATER-BEARING CAVITIES OR FRACTU		BEAR	
	0	3	3			TAN FINE SAND		T YES	ON 🖸
	3	13	10	)		TAN FINE SAND - SANDSTONE		T YES	🖸 NO
	13	22	9		T	AN FINE SAND - SANDSTONE - CAL		T YES	🛛 NO
	22 `	28	6			TAN FINE SAND - SANDSTONE		T YES	🗹 NO
T	28	30	2			(DENCE) SANDSTONE - TAN SAN	D	T YES	🛛 NO
MEI	30	53	23	3		TAN FINE SAND - SANDSTONE		VES 🛛	🗹 NO
OF	53	56	3			RED FINE SAND - SILTY RED CLA	Y	T YES	<b>О</b> и 🖸
E0G	56	58	2			RED SANDY CLAY		YES	D NO
	58	60	2		R	ED FINE SAND - CLAY - WITH P GRA	AVEL	TYES	□ NO
ΓO	60	65	5			YES			
GEOLOGIC LOG OF WELL	TD	65						□ YES	□ NO
ė.								☐ YES	□ NO
				<u></u>			· · · · · · · · · · · · · · · · · · ·	🗆 YES	□ NO
							/د.+	T YES	□ NO
								TYES	□ NO
							ин. ₁₁₁₁₋₁₁₁ , 1111. ₁₁	□ YES	□ NO
							· · · · · · · · · · · · · · · · · · ·	☐ YES	□ NO
			ATTACH	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC L	OG OF THE WELL		
•			METHOD:	BAILE	R 🗌 PUMP	AIR LIFT OTHER - SPECIFY:			
ONAL INFO	WELL	TEST				ATA COLLECTED DURING WELL TESTING, IN		ME, END TI	ME,
(AL			AND A TAB	LE SHOWIN	IG DISCHARGE /	AND DRAWDOWN OVER THE TESTING PERIO	D.		
			MENTS OR EXPL						
7. TEST & ADDIT	2X2 PA	U - 4X4	HIGH RISE	-R					
& A]									
EST									
7. T									
RE	THE UNI	DERSIGNI T RECOR	ED HEREBY C	ERTIFIES T	HAT, TO THE BE LIBED HOLE AND	ST OF HIS OR HER KNOWLEDGE AND BELIEF D THAT HE OR SHE WILL FILE THIS WELL REC DN OF WELL DRILLING:	, THE FOREGOING IS ORD WITH THE STA	A TRUE A	ND ER AND
ATU	THE PER	MIT HOL	DER WITHIN	20 DAYS AI	TER COMPLETI	ON OF WELL DRILLING:			
SIGNATURE	4	1_1	4			2 100 000			
8. SI		1-04	SIGNATUR	E OF DRILL	ER	DATE			
		1				2 CALL			

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FOR OSE INTERNAL USE		WELL RECORD & LOG	(Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2



LOCATION

## WELL RECORD & LOG

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·												
NO		•	LL NUMBER) NCH TANK B	ATTERY MW-2			OSE FILE NUI	MBER(S)				
<b>GENERAL AND WELL LOCATION</b>	WELL OW		AE(S) RPORATION		2,0 ^{,0,0} 1111,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,		PHONE (OPTI	ONAL)				
Ę	WELL OW		LING ADDRESS				CITY	······································	STATE		ZIP	
I.I.										00		
WE	P.O. B0	JX 104	+9				EUNICE		NM	00	3231	
0		. 1		DEGREES	MINUTES	SECONDS						
AP	WEL			32	25	25.00 _N		REQUIRED ONE TEN	THOF A SEC			
AL	LOCAT	L	LATITUDE	J2	2.5			-		01.15		
ER	(FROM (	GPS)	LONGITUDE	103	7	13.00 ^W	* DATUM REG	QUIRED WGS 84				
EN	DESCRIPT	TOMBEL	ATING WELL LOCA	TION TO STREET ADDR	ESS AND COMMONIL	ANIDAAADE'E	1					
1. G				D ROAD 3 MILE			EA CO					
	(2 5 AC	RE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP		RANGE		
					1							
AI		4	1/4	1/4	1/4				SOUTH			
ĝ	SUBDIVIS	ON NAM	E			LOT NUM	BER	BLOCK NUMBER		UNIT/TRA	ст	
OPTIONAL												
5.0	HYDROGR	APHIC SI	URVEY			I		MAP NUMBER		TRACT NL	IMBER	
~												
	LICENSE N			CENSED DRILLER				NAME OF WELL DR				
	WD1478 EDWARD BRYAN							STRAUB COF	RPORAT	ION		
	DRILLING	STARTE	D DRILLING E	NDED DEPTH OF COM	APLETED WELL (FT)	BORE HO	E DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNT	ERED (FT)		
7	12-	8-09	12-8-0	09	70		70			NORTH EAST SOUTH EAST UNIT/TRACT TRACT NUMBER UNIT/TRACT TRACT NUMBER		
õ								STATIC WATER LEY	/FLIN COMP	I FTFD WFI		
AT	COMPLETED WELL IS ARTESIAN DRY HOLE					(UNCONFINED)		BIANC WATER DE		SOUTH WEST UNIT/TRACT TRACT NUMBER LING COMPANY PORATION T ENCOUNTERED (FT) EL IN COMPLETED WELL (FT) N/A		
RM												
FO	DRILLING	FLUID	🗹 AIR	MUD	ADDITIVES	- SPECIFY						
3. DRILLING INFORMATION	DRILLING	METHOD	. V ROTAR	Y HAMMER	CABLE TOC	л. 🗌 отне	R – SPECIFY					
N	למזת	H (FT)	BORE HO		CASING		(CORION)					
		· · ·			IATERIAL		IECTION (CASING)	INSIDE DIA. CASING (IN)	THICKN		SLOT SIZE (IN)	
DR	FROM	то		·			. ,					
Э.	70	45			010 SCREEN		FJ	2	0.1		0.10	
	45	+43	3 5	SCH 4	0 PVC RISER		FJ	2	0.1	54	RISER	
									F	1		
							· · · · · · · · · · · · · · · · · · ·					
<u></u>	DEDI											
		H (FT)	THICKN	ESS F				ATER-BEARING S			YIELD	
ATA	DEPT FROM	H (FT) TO		ESS F				ATER-BEARING S R FRACTURE ZON			YIELD (GPM)	
				ESS F							YIELD (GPM)	
				ESS F							YIELD (GPM)	
				ESS F							YIELD (GPM)	
				ESS F							YIELD (GPM)	
				ESS F							YIELD (GPM)	
				ESS F							YIELD (GPM)	
	FROM	то	(FT)	ESS F	(INCLUDE WA				ES)	) (GPM)	YIELD (GPM)	
	FROM	то	(FT)		(INCLUDE WA			R FRACTURE ZON	ES)		YIELD (GPM)	
4. WATER BEARING STRATA	FROM	то	(FT)		(INCLUDE WA			R FRACTURE ZON	ES)		YIELD (GPM)	
	FROM	TO JSED TO	(FT)		(INCLUDE WA			R FRACTURE ZON	ES)	) (GPM)	YIELD (GPM)	
	FROM	TO JSED TO	(FT)		(INCLUDE WA	TER-BEARING		R FRACTURE ZON	ES) WELL YIELF		(GPM)	

PAGE 1 OF 2

MP	TYPE OF PUMP		SUBMERSIBLE     JET     NO PUMP - WELL NOT EQUIPPED       TURBINE     CYLINDER     OTHER - SPECIFY:								
SEAL AND PUMP	ANNULAR		DEPTH (FT) FROM TO		BORE HOLE DIA. (IN)			METHOD OF PLACEMENT			
AL	SEAL	AND	70	40	5	7 BAGS OF 20/40 SAND		TOPL	OAD		
5. SE	GRAVE	L PACK	40	2	5	20 BAGS OF 3/8 HOLEPLUG		TOPL	OAD		
			2	0	5	1 BAG OF CEMENT	-	TOPL	.OAD		
	DEPT	H (FT)	THICK	NESS	ſ	COLOR AND TYPE OF MATERIAL ENCOUNTERED					
	FROM	то	(FT)		(INCL)	BEARING?					
	0	26	26		ТТ	AN FINE SAND - SANDSTONE - CAL	ICHE	□ YES	🗹 NO		
	26 34		8			CALICHE - TAN FINE SAND		T YES	0א 🖸		
	34 62 28		3	Т	AN FINE SAND - SANDSTONE - CAL	ICHE	☐ YES	🗹 NO			
	62	64	2			TAN FINE SAND - SANDSTONE	L	T YES	🛛 NO		
E	64	70	6			RED FINE SAND - CLAY		T YES	I NO		
WEI	TD	70						T YES			
OF								T YES	0 א		
10G								T YES	DN 🗌		
SIC								T YES	ОИ 🗌		
GEOLOGIC LOG OF WELL						i		TYES	🛛 NO		
GEO								T YES	□ NO		
6.9								TYES	□ NO		
								☐ YES	D NO		
							٠	T YES	NO 🗌		
								🗆 YES			
								T YES			
								T YES	D NO		
			ATTACH	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC I	.OG OF THE WELL				
0			METHOD [,]	BAILE	R 🗌 PUMP	AIR LIFT OTHER - SPECIFY:					
NAL INFO	WELL	TEST				ATA COLLECTED DURING WELL TESTING, IN AND DRAWDOWN OVER THE TESTING PERIO		ME, END TI	ME,		
NAL			I		O DISCHARGE /	AND DRAWDOWN OVER THE TESTING PERIO	U.	<u> </u>			
			STATEMENTS OR EXPLANATIONS • 4X4 HIGH RISER								
& ADDITIC	27217	0-474	THOI THOL								
& A											
7. TEST						1					
L.7											
	TUCIN		D UEPERV C	COTICICO 7							
JRE	CORREC	TRECOR	D OF THE AB	OVE DESCR	RIBED HOLE AND	ST OF HIS OR HER KNOWLEDGE AND BELIEF D THAT HE OR SHE WILL FILE THIS WELL REC ON OF WELL DRILLING:	, THE FOREGOING IS	TE ENGINE	ER AND		
IATU	THE PER	MITHOL	DER WITHHY	20 DAYS AI	TER COMPLETI	ON OF WELL DRILLING:					
8. SIGNATURE		24~	\$ Dr	<u> </u>		12/19/04					
90 ¹			SIGNATUR	E OF DRILL	ER						
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FOR OSE INTERNAL USE	WELL RECORD & LOC	WELL RECORD & LOG (Version 6/9/08)		
FILE NUMBER	POD NUMBER	TRN NUMBER		
LOCATION			PAGE 2 OF 2	



LOCATION

## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) WALTER LYNCH TANK BATTERY MW-3									OSE FILE NUMBER(S)				
		WELL OWNER NAME(S) APACHE CORPORATION									PHONE (OPTIONAL)			
1	WELL OW	NER MA	ILING	ADDRESS		<u></u>				CITY		STATE		ZIP
ELI	P.O. BC	X 18	49							EUNICE NM 8			3231	
ă.														
ĝ	WEL	L		DEGREES MINUTES SECONDS										
ΓY	LOCAT		LATITUDE			32 25 2		25.00	) N	* ACCURACY	REQUIRED ONE TEN	ITH OF A SEC	COND	
RA	(FROM (	JPS)						DATUM REQUIRED WGS 84						
NE			LON	GITUDE		103 7 13.00 W								
GE	DESCRIPT	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS												
1.	APACHE SITE- DRINKARD ROAD 3 MILES EAST OF EUNICE NM, LEA CO													
	(2 5 AC	RE)		(10 ACRE)	(4(	0 ACRE)	(160 ACRE)	SE	CTION	······	TOWNSHIP		RANGE	
		14		1/4		1/4	1/4							EAST
NA	74 SUBDIVISION NAME		16		· · · · ·				T NUM	BED	BLOCK NUMBER	SOUTH	UNIT/TRA	WEST
LIO	00001110	0101010								JER .			Gittinitia	
2. OPTIONAL										·				
2.	HYDROGR	APHIC S	UKVE	ΞY							MAP NUMBER		TRACT NI	JMBER
	LICENSE N	UMBER		NAME OF LICE	INSED DI	RILLER				NAME OF WELL DRILLING COMPANY				
	WD	1478		EDWARD BRYAN						STRAUB CORPORATION				
	DRILLING STARTED			DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE HO					LE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT)					
	12-8-09		~	12-8-09		69			69					
NO NO								STATIC WATER LEVEL IN COMPLETED WELL (FT)				1 (27)		
AT	COMPLETED WELL IS ARTESIAN				, Г	DRY HOLE SHALLOW (UNCONFINED)				N/A			чь (r i )	
RM								Uncom						
FO	DRILLING FLUID.					MUD ADDITIVES - SPECIFY								
DRILLING INFORMATION	DRILLING METHOD.		ROTARY		HAMMER CABLE TOOL		ı.	OTHER SPECIFY						
Ň	DEPTH (FT)					CASING						1		
ILI		<u>`</u>		BORE HOL DIA. (IN)		CASING MATERIAL			CONNECTION TYPE (CASING)		INSIDE DIA CASING (IN)	CASINO	i WALL ESS (IN)	SLOT SIZE (IN)
DB	FROM													
3	69	49		5		SCH 40 .010 SCREEN				FJ	2		54	0.10
	49	+4;	3	5		SCH 40	40 PVC RISER			FJ	2	0.1	54	RISER
												<u> </u>		
	DEPTH (FT) THICKNESS FORMATION DESCRIPTION OF P									PRINCIPAL WATER-BEARING STRATA YIELD				
TA			(FT)		(INCLUDE WATER-BEARING				CAVITIES OF	R FRACTURE ZON	ES)		(GPM)	
RA														
LS 1						··					••••••			
N.													~~~~	
AR														
BE														
ER														
4. WATER BEARING STRAT	METHOD I	JSED TO	ESTI	MATE YIELD OF	WATER-E	BEARING STRA	ſA				TOTAL ESTIMATED	WELL YIEL	D (GPM)	
*														
1														
	FOR OUT	. 1867120		HEE							WELL DECO		M	0/00
I	FOR OSE		UNAL	. 036			POD MU	MREP			WELL RECO		version 6/	9/08)
	FILE NUMBER POD NUMBER TRN NUMBER													

PAGE 1 OF 2

MP	TYPE OF PUMP.			SUBMERSIBLE     JET     NO PUMP - WELL NOT EQUIPPED       TURBINE     CYLINDER     OTHER - SPECIFY:				anna a tha ann an Air a		
SEAL AND PUMP	ANNULAR		DEPTH (FT) FROM TO		BORE HOLE DIA. (IN)	MATERIAL EVREAND SIZE 1			OD OF MENT	
<b>AL</b>	SEAL	AND	69	40	5	7 BAGS OF 20/40 SAND	-	TOPL	.OAD	
5. SF	GRAVE	L PACK	40	2	5	8 BAGS OF 3/8 HOLEPLUG		TOPL	OAD	
	2 0				5	1 BAG OF CEMENT		TOPL	.OAD	
	DEPT	H (FT) -	ТНІСК	NESS		COLOR AND TYPE OF MATERIAL ENCOUNTERED				
	FROM	то	(FT)			(INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				
	0	3	3			TAN FINE SAND		T YES	🗹 NO	
	3 5 2 SANDSTONE - TAN FINE SAND			🗖 YES	🛛 NO					
5 14		9		TAN FINE SAND - SANDSTONE - CALICHE		T YES	NO 🖸			
	14 27 13			TAN FINE SAND - SANDSTONE		TYES	🗹 NO			
1	27	53	28	3		CALICHE TAN SANDSTONE		🗆 YES	🖉 NO	
NEL	53	60	7			RED FINE SAND - WITH CLAY		☐ YES	☑ NO	
OF.	60	69	9		·····	RED SILTY CLAY		U YES	🛛 NO	
90	TD			T YES	□ NO					
IC I										
GEOLOGIC LOG OF WELL										
EOI										
9.9				аналан,						
						······				
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						EDED TO FULLY DESCRIBE THE GEOLOGIC L				
<u> </u>			r			······································				
2	MICL I	TEOT	METHOD:	BAILE		AIR LIFT OTHER - SPECIFY.				
DNAL INFO	WELL	IESI	TEST RESUL AND A TAB	LTS - ATTA LE SHOWIN	CH A COPY OF D IG DISCHARGE #	ATA COLLECTED DURING WELL TESTING, IN NND DRAWDOWN OVER THE TESTING PERIOI	CLUDING START TI D.	ME, END TI	ME,	
	ADDITION	AL STATEM	IENTS OR EXPLA	NATIONS						
7. TEST & ADDITI	2X2 PA	D - 4X4	HIGH RISE	R						
<b>VD</b>										
ST &										
TES										
7.										
	THE UNI	DERSIGNE	ED HEREBY C	ERTIFIES T	HAT, TO THE BE	ST OF HIS OR HER KNOWLEDGE AND BELIEF	THE FOREGOING IS	A TRUE AT	ND D	
SIGNATURE	CORREC	T RECOR	<b>D</b> OF THE ABO	OVE DESCR	LIBED HOLE AND	THAT HE OR SHE WILL FILE THIS WELL REC	ORD WITH THE STA	TE ENGINE	ER AND	
LVN		Al	. 11							
SIG		<u></u>	Agr	<u> </u>		12/19/09				
જં		T	SIGNATURI	OF DRILL	ER	/ DATE				

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FOR OSE INTERNAL USE	WELL RECORD & LOO	WELL RECORD & LOG (Version 6/9/08)			
FILE NUMBER	POD NUMBER	TRN NUMBER	······································		
LOCATION			PAGE 2 OF 2		

### **APPENDIX III**

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## Laboratory Analytical Results

Laboratory Analytical Results and Chain-of-Custody Forms are contained on a CD attached at end of Report



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

September 8, 2009

Roger Boone Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

Re: Apache Corporation (240031)

Enclosed are the results of analyses for sample number H18099, received by the laboratory on 08/27/09 at 10:45 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 16 (includes Chain of Custody)

Sincerely, Celey D/Keene

Laboratory Director



Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6ºC Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	08/30/09	08/30/09	08/30/09	08/30/09
H18099-1 SB-1 (5')	<0.100	<0.100	<0.100	< 0.300
H18099-2 SB-1 (10')	< 0.050	<0.050	<0.050	< 0.300
H18099-3 SB-1 (15')	<0.050	<0.050	<0.050	<0.300
H18099-4 SB-1 (20')	<0.050	<0.050	<0.050	<0.300
H18099-5 SB-1 (25')	< 0.050	<0.050	<0.050	<0.300
H18099-6 SB-1 (30')	<0.100	<0.100	<0.100	<0.300
H18099-7 SB-1 (35')	<0.100	<0.100	<0.100	<0.300
H18099-8 SB-1 (40')	<0.050	<0.050	<0.050	<0.300
H18099-9 SB-1 (45')	<0.100	<0.100	<0.100	<0.300
H18099-10 SB-1 (50')	<0.100	<0.100	<0.100	<0.300
Quality Control	0.044	0.044	0.043	0.128
True Value QC	0.050	0.050	0.050	0.150
% Recovery	88.0	88.0	86.0	85.3
Relative Percent Difference	4.1	6.2	5.0	4.8

METHODS: SW846-8021B. Reported on wet weight. TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

lene Chemist

## H18099 BTEX EPI

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Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6^oC Sample Received By: ML Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	08/31/09	08/31/09	08/31/09	08/31/09
H18099-11 SB-1 (55')	<0.100	<0.100	<0.100	<0.300
H18099-12 SB-1 (60')	<0.050	<0.050	<0.050	<0.300
H18099-13 SB-1 (65')	<0.100	<0.100	<0.100	<0.300
H18099-14 SB-2 (5')	< 0.050	<0.050	<0.050	<0.300
H18099-15 SB-2 (10')	<0.100	<0.100	<0.100	<0.300
H18099-16 SB-2 (15')	<0.050	<0.050	<0.050	<0.300
H18099-17 SB-2 (20')	<0.050	<0.050	< 0.050	<0.300
H18099-18 SB-2 (25')	<0.100	<0.100	<0.100	<0.300
H18099-19 SB-2 (30')	<0.050	<0.050	<0.050	<0.300
H18099-20 SB-2 (35')	<0.050	<0.050	<0.050	<0.300
Quality Control	0.051	0.056	0.053	0.155
True Value QC	0.050	0.050	0.050	0.150
% Recovery	102	112	106	103
Relative Percent Difference	3.4	5.1	3.6	2.4

METHODS: SW846-8021B. Reported on wet weight. TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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09/08/09

Date

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Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6^oC Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	09/03/09	09/03/09	09/03/09	09/03/09
H18099-21 SB-2 (40')	<0.050	<0.050	<0.050	< 0.300
H18099-22 SB-2 (45')	<0.050	<0.050	<0.050	<0.300
H18099-23 SB-2 (50')	<0.050	<0.050	<0.050	<0.300
H18099-24 SB-2 (55')	< 0.050	<0.050	<0.050	<0.300
H18099-25 SB-2 (60')	< 0.050	<0.050	<0.050	<0.300
H18099-26 SB-2 (65')	<0.050	<0.050	<0.050	<0.300
H18099-27 SB-3 (5')	<0.050	<0.050	<0.050	<0.300
H18099-28 SB-3 (10')	<0.050	<0.050	<0.050	<0.300
H18099-29 SB-3 (15')	<0.050	<0.050	<0.050	<0.300
H18099-30 SB-3 (20')	<0.050	<0.050	<0.050	<0.300
Quality Control	0.053	0.043	0.045	0.151
True Value QC	0.050	0.050	0.050	0.150
% Recovery	106	86.0	90.0	101
Relative Percent Difference	1.2	<1.0	2.8	1.4

METHODS: SW846-8021B. Reported on wet weight. TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6^oC Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	09/03/09	09/03/09	09/03/09	09/03/09
H18099-31 SB-3 (25')	<0.050	<0.050	< 0.050	< 0.300
H18099-32 SB-3 (30')	<0.050	<0.050	< 0.050	< 0.300
H18099-33 SB-3 (35')	<0.050	<0.050	<0.050	<0.300
H18099-34 SB-3 (40')	<0.050	<0.050	<0.050	<0.300
H18099-35 SB-3 (45')	<0.050	<0.050	<0.050	<0.300
H18099-36 SB-3 (50')	<0.050	<0.050	<0.050	<0.300
H18099-37 SB-3 (55')	<0.050	<0.050	<0.050	<0.300
H18099-38 SB-3 (56')	<0.050	<0.050	<0.050	<0.300
H18099-39 SB-4 (5')	<0.050	<0.050	<0.050	<0.300
H18099-40 SB-4 (10')	<0.050	<0.050	<0.050	<0.300
Quality Control	0.050	0.053	0.049	0.157
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	106	98.0	105
Relative Percent Difference	<1.0	<1.0	1.3	<1.0

METHODS: SW846-8021B. Reported on wet weight. TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6⁰C Sample Received By: ML Analyzed By: ZL

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	BENZENE			
	Bar bas I William Som I W Saw	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	09/03/09	09/03/09	09/03/09	09/03/09
H18099-41 SB-4 (15')	<0.050	<0.050	<0.050	<0.300
H18099-42 SB-4 (20')	<0.050	<0.050	<0.050	<0.300
H18099-43 SB-4 (25')	< 0.050	<0.050	<0.050	<0.300
H18099-44 SB-4 (30')	<0.050	<0.050	<0.050	<0.300
H18099-45 SB-4 (35')	< 0.050	<0.050	<0.050	<0.300
H18099-46 SB-4 (40')	<0.050	<0.050	<0.050	<0.300
H18099-47 SB-4 (45')	< 0.050	<0.050	<0.050	<0.300
H18099-48 SB-4 (50')	<0.050	<0.050	<0.050	<0.300
H18099-49 SB-4 (55')	<0.050	<0.050	<0.050	<0.300
H18099-50 SB-4 (56')	< 0.050	<0.050	<0.050	<0.300
Quality Control	0.050	0.053	0.049	0.157
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	106	98.0	105
Relative Percent Difference	<1.0	<1.0	1.3	<1.0

METHODS: SW846-8021B. Reported on wet weight. TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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#### H18099 BTEX EPI

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Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6⁰C Sample Received By: ML Analyzed By: AB/HM/CK

	GRO	DRO	
	(C ₆ -C ₁₀ )	(>C ₁₀ -C ₂₈ )	Cl*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS D	ATE	08/28/09	08/28/09	08/27/09
H18099-1	SB-1 (5')	<10.0	<10.0	256
H18099-2	SB-1 (10')	<10.0	<10.0	864
H18099-3	SB-1 (15')	<10.0	<10.0	784
H18099-4	SB-1 (20')	<10.0	<10.0	432
H18099-5	SB-1 (25')	<10.0	<10.0	672
H18099-6	SB-1 (30')	<10.0	<10.0	96
H18099-7	SB-1 (35')	<10.0	<10.0	1,424
H18099-8	SB-1 (40')	<10.0	<10.0	528
H18099-9	SB-1 (45')	<10.0	<10.0	416
H18099-10	SB-1 (50')	<10.0	<10.0	256
Quality Contr	ol	510	453	490
True Value Q	C	500	500	500
% Recovery		102	90.6	98.0
<b>Relative Perc</b>	ent Difference	1.1	3.8	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight. Not accredited for GRO/DRO and Chloride.

llill Chemist

#### H18099TCL EPI

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 subsidianes, affiliates or successors arising out of or related to the performance of 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.



Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6^oC Sample Received By: ML Analyzed By: AB/HM/CK

	GRO	DRO	
	(C ₆ -C ₁₀ )	(>C ₁₀ -C ₂₈ )	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	09/01/09	09/01/09	08/27/09
H18099-11 SB-1 (55')	<10.0	<10.0	384
H18099-12 SB-1 (60')	<10.0	<10.0	128
H18099-13 SB-1 (65')	<10.0	<10.0	304
H18099-14 SB-2 (5')	<10.0	<10.0	256
H18099-15 SB-2 (10')	<10.0	12.3	720
H18099-16 SB-2 (15')	<10.0	<10.0	880
H18099-17 SB-2 (20')	<10.0	<10.0	880
H18099-18 SB-2 (25')	<10.0	<10.0	1,310
H18099-19 SB-2 (30')	<10.0	<10.0	704
H18099-20 SB-2 (35)	<10.0	<10.0	800
Quality Control	556	506	500
True Value QC	500	500	_500
% Recovery	111	101	100
Relative Percent Difference	4.8	5.9	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight. Not accredited for GRO/DRO and Chloride.

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	GRO	DRO	
	(C ₆ -C ₁₀ )	(>C ₁₀ -C ₂₈ )	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	09	9/01/09	09/01/09	08/28/09
H18099-21 SB-2 (40	)	<10.0	<10.0	1,860
H18099-22 SB-2 (45	)	<10.0	<10.0	416
H18099-23 SB-2 (50	)	<10.0	<10.0	1,790
H18099-24 SB-2 (55	)	<10.0	<10.0	96
H18099-25 SB-2 (60	)	<10.0	<10.0	144
H18099-26 SB-2 (65	)	<10.0	<10.0	336
H18099-27 SB-3 (5')		<10.0	<10.0	< 16
H18099-28 SB-3 (10	)	<10.0	<10.0	16
H18099-29 SB-3 (15	)	<10.0	<10.0	32
H18099-30 SB-3 (20	)	<10.0	<10.0	1.76
Quality Control		490	439	490
True Value QC		500	500	500
% Recovery		98.0	87.8	98.0
Relative Percent Differe	ice	0.5	0.6	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight. Not accredited for GRO/DRO and Chloride.

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Receiving Date: 08/27/09 Reporting Date: 09/08/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SECT. 01, T22S, R37E

Sampling Date: 08/26/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6^UC Sample Received By: ML Analyzed By: AB/HM/CK

LAB NUMBER SAMPLE ID         (m           ANALYSIS DATE         09/0           H18099-31         SB-3 (25')           H18099-32         SB-3 (30')           H18099-33         SB-3 (35')	g/kg) 03/09 <10.0 <10.0 <10.0	(>C ₁₀ -C ₂₈ ) (mg/kg) 09/03/09 11.8 <10.0 <10.0	Cl* (mg/kg) 08/28/09 1,230 784
ANALYSIS DATE       09/0         H18099-31       SB-3 (25')         H18099-32       SB-3 (30')         H18099-33       SB-3 (35')	03/09 <10.0 <10.0 <10.0	09/03/09 11.8 <10.0	08/28/09 1,230 784
H18099-31         SB-3 (25')            H18099-32         SB-3 (30')            H18099-33         SB-3 (35')	<10.0 <10.0 <10.0	11.8 <10.0	1,230 784
H18099-31         SB-3 (25')            H18099-32         SB-3 (30')            H18099-33         SB-3 (35')	<10.0 <10.0	<10.0	784
H18099-33 SB-3 (35') <	<10.0		1
		<10.0	
H18099-34 SB-3 (40')	40.0		1,170
	<10.0	<10.0	896
H18099-35 SB-3 (45') <	<10.0	<10.0	272
H18099-36 SB-3 (50') <	<10.0	<10.0	480
H18099-37 SB-3 (55')	<10.0	<10.0	240
H18099-38 SB-3 (56') <	<10.0	<10.0	240
H18099-39 SB-4 (5') <	<10.0	<10.0	16
H18099-40 SB-4 (10')	<10.0	11.0	160
Quality Control	445	464	490
True Value QC	500	500	500
% Recovery	89.0	92.8	98.0
Relative Percent Difference	5.2	8.4	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 wiv aqueous extracts. Reported on wet weight. Not accredited for, GRO/DRO and Chloride.

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	GRO	DRO	
	(C ₆ -C ₁₀ )	(>C ₁₀ -C ₂₈ )	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
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ANALYSIS DATE	09/05/09	09/05/09	08/28/09
H18099-41 SB-4 (15')	<10.0	<10.0	128
H18099-42 SB-4 (20')	<10.0	<10.0	160
H18099-43 SB-4 (25')	<10.0	<10.0	272
H18099-44 SB-4 (30')	<10.0	14.8	272
H18099-45 SB-4 (35')	<10.0	<10.0	304
H18099-46 SB-4 (40')	<10.0	<10.0	256
H18099-47 SB-4 (45')	<10.0	<10.0	304
H18099-48 SB-4 (50')	<10.0	<10.0	560
H18099-49 SB-4 (55')	<10.0	<10.0	672
H18099-50 SB-4 (56')	<1.0.0.	<10.0	560
· · · · · · · · · · · · · · · · · · ·			
Quality Control	455	423	490
True Value QC	500	500	500
% Recovery	91.0	84.6	98.0
Relative Percent Difference	2.4	3.9	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight. Not accredited for GRO/DRO and Chloride.

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Company Name	Environmental Plus	, Inc	3.							Rei	mit	Invo	olce To:	19 (J. 1997)			A	NAL	YS	IS R	EQ	UES	ST.	
EPI Project Mana	ger Roger Boone											<u></u>												Τ
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Client Company	Apache Corporation					1			Attr				lie Gladden											
Facility Name	Walter Lynch Tank	Batt	ery			1			Euro				1849 exico 88231											
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Project Reference	e 240031					1																		
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Ť			Γ			MA	TRIX			PR	ESE	RV.	SAMPLI	NG	1									
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP	# CONTAINERS	<b>GROUND WATER</b>	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4")	рН	TCLP	OTHER >>>	РАН		
1+18099- 1	SB-1 (5')	G	1	T	T	X			1	İ	X		26-Aug-09	9:02	X	X	X	Î	Î	Î	Î			
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4	SB-1 (20')	G	1			X					X		26-Aug-09	9:07	X	X	X							
5	SB-1 (25')	G	1		Ι	X		Ī	1	Γ	X		26-Aug-09	9:12	X	X	X	Ι	Τ	Τ	Γ			Τ
6	SB-1 (30')	G	1	Ι		X		Γ	Ι		X		26-Aug-09	9:17	X	X	X	1	Γ	Γ	Γ			
7	SB-1 (35')	G	1			X					X		26-Aug-09	9:20	X	X	X	I						Γ
8	SB-1 (40')	G	1		Γ	X					X		26-Aug-09	9:21	X	X	X.							
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10	SB-1 (50')	G	1			X					X		26-Aug-09	10:05	X	X	X							
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Facility Name	Walter	Lynch Tank I	Batte	ery			l		F	Funi				exico 88231		.										
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LAB I.D.	SAMPLE	E I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	<b>GROUND WATER</b>	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4")	Hq	TCLP	OTHER >>>	РАН			
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14	SB-2 (5')	·	G	1			Χ					Υ <b>Χ</b>		26-Aug-09	11:16	X	X	X								
15	SB-2 (10')		G	1			X					X		26-Aug-09	11:18	X	X	X								$\Box$
16	SB-2 (15')		G	1			X					X		26-Aug-09	11:28	X	X	X								
17	SB-2 (20')		G	1			X					X		26-Aug-09	11:31	X		X								
18	SB-2 (25')		G	1			X					X		26-Aug-09	11:45	X	X	X								
19	SB-2 (30')		G	COLUMN TWO IS NOT			X					Х		26-Aug-09	11:53	X	X	X								
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Page 2 of 5

## Environmental Plus, Inc. 2100 Avenue O, Eunice, NM 88231 (575) 394-3481 FAX: (575) 394-2601 Compose Name

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H18099- 21	SB-2 (40')			G	1,			X					X		26-Aug-09	12:54	X	X	X							
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25	SB-2 (60')			G	1			X					X		26-Aug-09	14:00	X	X	Χ							
26	SB-2 (65')		,	G	1			X					Х		26-Aug-09	14:15	X	Х	Х							
	SB-3 (5')			G	1			Χ					X.		26-Aug-09	14:55	X	X	Х							
28	SB-3 (10')			G	1			Х		-			X		26-Aug-09	15:02	X	X	X		<u> </u>					$\square$
	SB-3 (15')			G	1			X					Χ.		26-Aug-09	15:07	X	X	X		L					Щ
30	SB-3 (20')			G	1.			X				L	X		26-Aug-09	15:11	X	X	X		L	L		L		
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# Chain of Custody Form

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	er Roger Bo P.O. BOX Eunice N 575-394-3 Apache Co Walter Ly UL-F, Sec 240031 Roger Bo	er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 3           575-394-3481 / 575-33           Apache Corporation           Walter Lynch Tank B           UL-F, Sect. 01, T22S, 240031           Roger Boone/Kirt Ty           SAMPLE I.D.           B-4 (15')           B-4 (20')           B-4 (20')           B-4 (20')           B-4 (30')           B-4 (35')           B-4 (55')           B-5 (5)           B-6 (5)           Ø           Ø           Ø </td <td>er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 882           575-394-3481 / 575-394-2           Apache Corporation           Walter Lynch Tank Batte           UL-F, Sect. 01, T22S, R3           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           SAMPLE I.D.           G           B-4 (15')           B-4 (20')           B-4 (30')           B-4 (35')           B-4 (35')           B-4 (40')           B-4 (55')           B-4 (56')           G           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-5 (50)           B-6 (50)           B-7 (2009)           Time (0.36)           8</td> <td>P.O. BOX 1558         Eunice New Mexico 88231         575-394-3481 / 575-394-260°         Apache Corporation         Walter Lynch Tank Battery         UL-F, Sect. 01, T22S, R37E         240031         Roger Boone/Kirt Tyree         SAMPLE I.D.         94         95         8-4 (15')         8-4 (20')         8-4 (20')         94         97         94         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97</td> <td>er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           W0(0)           W0(15)           B-4 (15')           B-4 (20')           B-4 (20')           B-4 (30')           B-4 (30')           B-4 (30')           B-4 (40')           B-4 (55')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-5 (10)           B-6 (200)</td> <td>er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           add WO(C)           B-4 (15')           B-4 (20')           B-4 (20')           B-4 (20')           B-4 (20')           B-4 (30')           B-4 (40')           B-4 (55')           B-4 (56')           B-4 (56')           B-5 (56')           B-6 (56')           B-7 (2009           Received By:           8/27/2009           Received By:           8/27/2009</td> <td>er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo           G1           SAMPLE I.D.           awo           G1           SAMPLE I.D.           awo           B-4 (15')           G1           S4 (20')           G1           S4 (25')           G1           S4 (25')           G1           S4 (35')           G1           S4 (40')           G1           S4 (40')           G1           S4 (55')           G1           S4 (55')           G1           S4 (55')           G1           S4 (55')           G1           S4 (56')           Sample Cool &amp; Intact           Kes           Sample Cool &amp; Intact           Yes</td> <td>er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           O           B-4 (15')           B-4 (20')           B-4 (25')           B-4 (25')           B-4 (35')           B-4 (35')           B-4 (40')           B-4 (55')           G           <td< td=""><td>er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo(2)           g           WIL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo(2)           g           B-4 (15')           G           B-4 (20')           G           B-4 (35')           G           B-4 (35')           G           B-4 (35')           G           B-4 (35')           G           B-4 (55')           G</td><td>er         Roger Boone           P.O. BOX 1558         Eunice New Mexico 88231           575-394-3481 / 575-394-2601         Apache Corporation           Apache Corporation         Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E         240031           Roger Boone/Kirt Tyree         MATRIX           SAMPLE I.D.         Super Boone/Kirt Tyree           B-4 (15')         G         1           B-4 (20')         G         1         X           B-4 (30')         G         1         X           B-4 (30')         G         1         X           B-4 (40')         G         1         X           B-4 (55')         G         1         X      <t< td=""><td>erRoger BooneP.O. BOX 1558Eunice New Mexico 88231575-394-3481 / 575-394-2601Apache CorporationApache CorporationWalter Lynch Tank BatteryUL-F, Sect. 01, T22S, R37EEunice,240031Roger Boone/Kirt TyreeSAMPLE I.D.$\stackrel{div}{UU}_{UO}(2)$B4 (15')GB-4 (15')GB-4 (20')GB-4 (20')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (55')GB-4 (56')GB-4 (55')GB-3 (55')GB-4 (56')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')G&lt;</td><td>er         Roger Boone           P.O. BOX 1558         Apache           Eunice New Mexico 88231         Apache           575-394-3481 / 575-394-2601         Apache           Apache Corporation         P.O.           Walter Lynch Tank Battery         Eunice, New           UL-F, Sect. 01, T22S, R37E         240031           Roger Boone/Kirt Tyree         MATRIX         PRESE           SAMPLE I.D.         MATRIX         PRESE           SAMPLE 1.D.         Super Solution           B4 (15')         G 1         X           B4 (20')         G 1         X           B4 (20')         G 1         X           B4 (30')         G 1         X           B4 (35')         G 1         X           B4 (56')         </td></t<></td></td<></td>	er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 882           575-394-3481 / 575-394-2           Apache Corporation           Walter Lynch Tank Batte           UL-F, Sect. 01, T22S, R3           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           SAMPLE I.D.           G           B-4 (15')           B-4 (20')           B-4 (30')           B-4 (35')           B-4 (35')           B-4 (40')           B-4 (55')           B-4 (56')           G           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-5 (50)           B-6 (50)           B-7 (2009)           Time (0.36)           8	P.O. BOX 1558         Eunice New Mexico 88231         575-394-3481 / 575-394-260°         Apache Corporation         Walter Lynch Tank Battery         UL-F, Sect. 01, T22S, R37E         240031         Roger Boone/Kirt Tyree         SAMPLE I.D.         94         95         8-4 (15')         8-4 (20')         8-4 (20')         94         97         94         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97	er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           W0(0)           W0(15)           B-4 (15')           B-4 (20')           B-4 (20')           B-4 (30')           B-4 (30')           B-4 (30')           B-4 (40')           B-4 (55')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-4 (56')           B-5 (10)           B-6 (200)	er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           add WO(C)           B-4 (15')           B-4 (20')           B-4 (20')           B-4 (20')           B-4 (20')           B-4 (30')           B-4 (40')           B-4 (55')           B-4 (56')           B-4 (56')           B-5 (56')           B-6 (56')           B-7 (2009           Received By:           8/27/2009           Received By:           8/27/2009	er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo           G1           SAMPLE I.D.           awo           G1           SAMPLE I.D.           awo           B-4 (15')           G1           S4 (20')           G1           S4 (25')           G1           S4 (25')           G1           S4 (35')           G1           S4 (40')           G1           S4 (40')           G1           S4 (55')           G1           S4 (55')           G1           S4 (55')           G1           S4 (55')           G1           S4 (56')           Sample Cool & Intact           Kes           Sample Cool & Intact           Yes	er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           O           B-4 (15')           B-4 (20')           B-4 (25')           B-4 (25')           B-4 (35')           B-4 (35')           B-4 (40')           B-4 (55')           G           B-4 (55')           G <td< td=""><td>er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo(2)           g           WIL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo(2)           g           B-4 (15')           G           B-4 (20')           G           B-4 (35')           G           B-4 (35')           G           B-4 (35')           G           B-4 (35')           G           B-4 (55')           G</td><td>er         Roger Boone           P.O. BOX 1558         Eunice New Mexico 88231           575-394-3481 / 575-394-2601         Apache Corporation           Apache Corporation         Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E         240031           Roger Boone/Kirt Tyree         MATRIX           SAMPLE I.D.         Super Boone/Kirt Tyree           B-4 (15')         G         1           B-4 (20')         G         1         X           B-4 (30')         G         1         X           B-4 (30')         G         1         X           B-4 (40')         G         1         X           B-4 (55')         G         1         X      <t< td=""><td>erRoger BooneP.O. BOX 1558Eunice New Mexico 88231575-394-3481 / 575-394-2601Apache CorporationApache CorporationWalter Lynch Tank BatteryUL-F, Sect. 01, T22S, R37EEunice,240031Roger Boone/Kirt TyreeSAMPLE I.D.$\stackrel{div}{UU}_{UO}(2)$B4 (15')GB-4 (15')GB-4 (20')GB-4 (20')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (55')GB-4 (56')GB-4 (55')GB-3 (55')GB-4 (56')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')G&lt;</td><td>er         Roger Boone           P.O. BOX 1558         Apache           Eunice New Mexico 88231         Apache           575-394-3481 / 575-394-2601         Apache           Apache Corporation         P.O.           Walter Lynch Tank Battery         Eunice, New           UL-F, Sect. 01, T22S, R37E         240031           Roger Boone/Kirt Tyree         MATRIX         PRESE           SAMPLE I.D.         MATRIX         PRESE           SAMPLE 1.D.         Super Solution           B4 (15')         G 1         X           B4 (20')         G 1         X           B4 (20')         G 1         X           B4 (30')         G 1         X           B4 (35')         G 1         X           B4 (56')         </td></t<></td></td<>	er         Roger Boone           P.O. BOX 1558           Eunice New Mexico 88231           575-394-3481 / 575-394-2601           Apache Corporation           Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo(2)           g           WIL-F, Sect. 01, T22S, R37E           240031           Roger Boone/Kirt Tyree           SAMPLE I.D.           awo(2)           g           B-4 (15')           G           B-4 (20')           G           B-4 (35')           G           B-4 (35')           G           B-4 (35')           G           B-4 (35')           G           B-4 (55')           G	er         Roger Boone           P.O. BOX 1558         Eunice New Mexico 88231           575-394-3481 / 575-394-2601         Apache Corporation           Apache Corporation         Walter Lynch Tank Battery           UL-F, Sect. 01, T22S, R37E         240031           Roger Boone/Kirt Tyree         MATRIX           SAMPLE I.D.         Super Boone/Kirt Tyree           B-4 (15')         G         1           B-4 (20')         G         1         X           B-4 (30')         G         1         X           B-4 (30')         G         1         X           B-4 (40')         G         1         X           B-4 (55')         G         1         X <t< td=""><td>erRoger BooneP.O. BOX 1558Eunice New Mexico 88231575-394-3481 / 575-394-2601Apache CorporationApache CorporationWalter Lynch Tank BatteryUL-F, Sect. 01, T22S, R37EEunice,240031Roger Boone/Kirt TyreeSAMPLE I.D.$\stackrel{div}{UU}_{UO}(2)$B4 (15')GB-4 (15')GB-4 (20')GB-4 (20')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (55')GB-4 (56')GB-4 (55')GB-3 (55')GB-4 (56')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')G&lt;</td><td>er         Roger Boone           P.O. BOX 1558         Apache           Eunice New Mexico 88231         Apache           575-394-3481 / 575-394-2601         Apache           Apache Corporation         P.O.           Walter Lynch Tank Battery         Eunice, New           UL-F, Sect. 01, T22S, R37E         240031           Roger Boone/Kirt Tyree         MATRIX         PRESE           SAMPLE I.D.         MATRIX         PRESE           SAMPLE 1.D.         Super Solution           B4 (15')         G 1         X           B4 (20')         G 1         X           B4 (20')         G 1         X           B4 (30')         G 1         X           B4 (35')         G 1         X           B4 (56')         </td></t<>	erRoger BooneP.O. BOX 1558Eunice New Mexico 88231575-394-3481 / 575-394-2601Apache CorporationApache CorporationWalter Lynch Tank BatteryUL-F, Sect. 01, T22S, R37EEunice,240031Roger Boone/Kirt TyreeSAMPLE I.D. $\stackrel{div}{UU}_{UO}(2)$ B4 (15')GB-4 (15')GB-4 (20')GB-4 (20')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (30')GB-4 (55')GB-4 (56')GB-4 (55')GB-3 (55')GB-4 (56')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (55')GB-3 (56')GB-3 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')GB-4 (56')G<	er         Roger Boone           P.O. BOX 1558         Apache           Eunice New Mexico 88231         Apache           575-394-3481 / 575-394-2601         Apache           Apache Corporation         P.O.           Walter Lynch Tank Battery         Eunice, New           UL-F, Sect. 01, T22S, R37E         240031           Roger Boone/Kirt Tyree         MATRIX         PRESE           SAMPLE I.D.         MATRIX         PRESE           SAMPLE 1.D.         Super Solution           B4 (15')         G 1         X           B4 (20')         G 1         X           B4 (20')         G 1         X           B4 (30')         G 1         X           B4 (35')         G 1         X           B4 (56')												

6°C # 260

# Page 5 of 5



December 18, 2009

Roger Boone Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

Re: Apache Corporation (240031)

Enclosed are the results of analyses for sample number H18846, received by the laboratory on 12/10/09 at 9:30 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely, Čeley D./Keene

Laboratory Director

This report conforms with NELAP requirements.



Receiving Date: 12/10/09 Reporting Date: 12/17/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SEC. 01, T 22 S, R 37 E Sampling Date: 12/08/09 & 12/09/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3°C Sample Received By: ML Analyzed By: AB/HM

	GRO	DRO	
	(C ₆ -C ₁₀ )	(>C ₁₀ -C ₂₈ )	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	<u>(mg/kg)</u>	(mg/kg)
ANALYSIS DATE	12/16/09	12/16/09	12/10/09
H18846-1 MW-1 (10')	<10.0	<10.0	< 16
H18846-2 MW-1 (60')	<10.0	<10.0	64
H18846-3 MW-2 (10')	<10.0	<10.0	< 16
H18846-4 MW-2 (60')	<10.0	<10.0	96
H18846-5 MW-3 (10')	<10.0	<10.0	16
H18846-6 MW-3 (57')	<10.0	<10.0	96
Quality Control	462	446	500
True Value QC	500	500	500
% Recovery	92.4	89.2	100
Relative Percent Difference	6.0	13.2	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight. Not accredited for GRO/DRO and Chloride.

Chemist

ististor Date

#### H18846 TCL EPI

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 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.



Receiving Date: 12/10/09 Reporting Date: 12/11/09 Project Owner: APACHE CORPORATION (240031) Project Name: WALTER LYNCH TANK BATTERY Project Location: UL-F, SEC. 01, T22S, R37E

Sampling Date: 12/08/09 & 12/09/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3 °C Sample Received By: ML Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	12/10/09	12/10/09	12/10/09	12/10/09
H18846-1 MW-1 (10')	<0.050	<0.050	<0.050	<0.300
H18846-2 MW-1 (60')	<0.050	<0.050	<0.050	<0.300
H18846-3 MW-2 (10')	<0.050	<0.050	<0.050	<0.300
H18846-4 MW-2 (60')	<0.050	<0.050	<0.050	<0.300
H18846-5 MW-3 (10')	<0.050	<0.050	<0.050	<0.300
H18846-6 MW-3 (57')	<0.050	<0.050	<0.050	<0.300
Quality Control	0.054	0.048	0.047	0.141
True Value QC	0.050	0.050	0.050	0.150
% Recovery	108	96.0	94.0	94.0
Relative Percent Difference	<1.0	<1.0	<1.0	<1.0

METHODS: SW846-8021B. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Nune Chemist

12/18/09

Date

#### H18846 BTEX EPI

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, toss of use, or loss of profits incurred by client, its subsidiaries. affiliates or successors arising out of or related to the performance of 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.

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Company Name	Environmental Plus	. Inc				1220	- <b>1</b> 4			Re	nit	Inve	olce To:	Tableta		1	A	NAL	YS	IS R	EQ	UES	ST	
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-2 21	MW-1-(60')	G	1			X					X		08-Dec-09	11:20	X	X	X							
	MW-2 (10')	G	1			X					X		08-Dec-09	14:00	X	X	X							
	MW-2 (60')	G	1			X					X		08-Dec-09	15:00	X		X							
	MW-3 (10')	G	1			X					X		09-Dec-09	9:17	X		X							
-6 61	MW-3 (57')	G	1			X					X		09-Dec-09	9:49	X	X	X			L	L		<u> </u>	
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Page 1 of 1



December 23, 2009

Roger Boone Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

Re: Apache Corporation (240031)

Enclosed are the results of analyses for sample number H18872, received by the laboratory on 12/14/09 at 2:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely. Celey D. Keene

Laboratory Director

This report conforms with NELAP requirements.



Receiving Date: 12/14/09 Reporting Date: 12/23/09 Project Owner: 240031 (APACHE) Project Name: WALTER LYNCH TB Project Location: UL-F, SEC. 01, T 22 S, R 37 E Sampling Date: 12/11/09 Sample Type: WATER Sample Condition: COOL & INTACT @ 2.5°C Sample Received By: ML Analyzed By: JM

#### TCLP RCRA METALS

LAB NO. SAMPLE ID	As (mg/L)	Ag (mg/L)	Ba (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Hg (mg/L)	Se (mg/L)
ANALYSIS DATE:	12/23/09	12/23/09	12/23/09	12/23/09	12/23/09	12/23/09	12/17/09	12/23/09
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H18822-1 MW-1A	<0.10	< 0.01	< 0.01	< 0.01	<0,01	<0.05	<0.0002	<0.20
H18822-3 MW-2A	<0.10	< 0.01	<0.01	< 0.01	< 0.01	<0.05	0.0002	<0.20
H18822-5 MW-3A	<0.10	<0.01	<0.01	<0.01	<0.01	<0.05	0.0003	<0.20
Quality Control	5.04	0.52	2.49	2.50	2.58	5.19	0.0020	10.2
True Value QC	5.00	0.50	2.50	2.50	2.50	5.00	0.0020	10.0
% Recovery	101	104.	100	100	103	104	100	102
Relative Standard Deviation	1.7	0.2	0.5	<0.1	1.0	0.2	9.5	0.2

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12/23/09

#### H18872TM EPI

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Receiving Date: 12/14/09 Reporting Date: 12/18/09 Project Number: 240031 (APACHE) Project Name: WALTER LYNCH TB Project Location: UL-F, SEC. 01, T 22 S, R 37 E Sampling Date: 12/11/09 Sample Type: WATER Sample Condition: COOL & INTACT @ 2.5°C Sample Received By: ML Analyzed By: HM

CI_	SO₄	TDS	pН
(mg/L)	(mg/L)	(mg/L)	(s.u.)

Analysis Date:	12/16/09	12/16/09	12/16/09	12/16/09
H18872-1 MW-1A	680	283	1,720	7.38
H18872-3 MW-2A	1,980	310	3,680	7.28
H18872-5 MW-3A	610	190	1,400	7.66
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Quality Control	500	38.8	NR	7.02
True Value QC	500	40.0	NR	7.02
% Recovery	100	97.1	NR	100
Relative Percent Difference	< 0.1	1.8	1.8	0.1
METHOD: Standard Methods, EPA	4500-CIB	375.4	160.1	150.1

Not accredited for Chloride, Sulfate, TDS AND pH.

Chemis

12/23/09

H18872 EPI

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 daims, including those for negligence and any other cause whatsoever shall be deemed walved 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

LAB NO. SAMPLE ID



Receiving Date: 12/14/09 Reporting Date: 12/18/09 Project Number: APACHE CORPORATION(240031) Project Name: WALTER LYNCH TB Project Location: UL-F, SEC.01, T 22 S, R 37 E Sampling Date: 12/11/09 Sample Type: WATER Sample Condition: COOL & INTACT @ 2.5°C Sample Received By: ML Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DAT		12/17/09	12/17/09	12/17/09	12/17/09
H18872-2	MW-1V	<0.001	<0.001	<0.001	<0.003
H18872-4	MW-2V	< 0.001	<0.001	<0.001	<0.003
H18872-6	MW-3V	<0.001	<0.001	<0.001	<0.003
Quality Control		0.050	0.047	0.047	0.144
True Value QC		0.050	0.050	0.050	0.150
% Recovery		100	94.0	94.0	96.0
<b>Relative Percent</b>	Difference	6.9	8.3	7.5	8.2

METHOD: EPA SW-846 8021 B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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12/23/09

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Environme	ental Plus, Inc.																<u>C</u>	ha	<u>in c</u>	<u>of (</u>	Cus	toc	dy F	- Fori
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Company Name	Environmental Plus	. Inc	<u>.</u>			2-10 			6.8	Rer	nit	Invo	ice To:		100			VAL	YS	SF	EQ	UES	ST -	
EPI Project Manager Roger Boone									NET COPY	Link Solini	5.9-5-5 A	ine ogs der elser e	an in the Charleston and the		N. CANDER	ANALYSIS REQUEST								
Mailing Address P.O. BOX 1558																								
City, State, Zip Eunice New Mexico 88231												_												
EPI Phone#/Fax# 575-394-3481 / 575-394-2601													poration											
Client Company Apache Corporation									Attr				lie Gladden											
Facility Name Walter Lynch TB						1					-		1849								5			
Location	UL-F, Sec. 01, T 22	S, R	37	Ε		1		Ľ	=un	ice,	-Ive	VV IVI	exico 88231								5			
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EPI Sampler Name	Kirt Tyree					1										Í.,					Aet		Ц,	
		Ι.	Τ	Τ		MA	TRIX	(		PR	ESE	RV.	SAMPLI	NG	1		CHLORIDES (CI)				AA	РАН	ž	
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	<b>GROUND WATER</b>	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	BTEX 8021B TPH 8015M		SULFATES (SO4=)	Hd	Conductivity	OTHER >>>TDS (EPA Method 150.1)		Heavy Metals (TCLP Method)	
H18872-1 1MV	V-1A	G	2	X							X		11-Dec-09	8:47			X	X	X		X		X	
-2 2 MV	N-1V		4	X						X	X		11-Dec-09	8:47	Х									
-3 3 MV	N-2A	G		X							X		11-Dec-09	11:26			X	X	X		X		X	
-U 4 MV	N-2V	G		X		L				X	X		11-Dec-09	11:26	X		L							
-5 5 MV	V-3A	G		X							X	Ļ	11-Dec-09	14:45		Ļ	X	X	X		X		X	
-(0 6 MV	V-3V	G	4	X					L	X	X		11-Dec-09	14:45	X	ŀ.						L		
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ampler Relinquished:	12/14/09		elved	By:		77							E-mail res	sults to: n	atali	e.gla	dde	n@a	pac	hecc	orp.c	om		
Kut Ly	nce Time 0000		a	st	7	Kc	507	hf	<i>r</i>		NO	TE: /	A = Amber Bottle	s and $V = V$	/ials									
Alinguished by: J	02l 12/14/09	Rec	eived	By: (	tab sta	aff) A	Ł	B	Ń	F														
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Page 1 of 1

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Appendix IV

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Field Measurement/Observation Log

Environmental Plus, Inc P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-3481 (575) 394-2601 (fax)				Field	Page No _1 of _1								
		СО	MPANY: Apa	iche Corpora	orporation PROJECT NAME Tank Battery			er Lynch		6, 7 & 8	PROJECT NUMBE	R: EPI Ref. #240031	
PROJECT MANAGER: Roger Boone					FIELD TEC	CHNICIAN: I	Kurt Tyree					DATE: 12/11/09	COMMENTS
		DEPTH TO WATER (ft)	HEIGHT WATER COLUMN (ft)	PSH THICKNESS (ft)	WELL FACTOR 2"=0.163 4"=0.653 6"=1.469	CALC. WELL VOLUME (gal)	# OF WELL VOLUMES PURGED	TOTAL PURGED (gal)	Temp ( ⁸ C)	pEt	Cond (µs)	TIME/DATE WELL SAMPLED/GAUGED (circle one)	SAMPLE CHARACTERISTICS (odor, color, sheen, e(c.)
69.10		55.83	13.27		0.163	2.16	6.48	>8				12/11/09 @ 8:47 am	Cloudy with sand settling out
72.45		57.83	14.62		0.163	2.38	7.14	>8				12/11/09 @ 11:26 am	Cloudy with sand settling out
69.83		55.15	14.68		0 163	2.39	7.17	>8			••	12/11/09 @ 14.45 pm	Cloudy with sand settling out
	MANAGER: TOTAL WELL DEPTII (#) 69.10 72.45	P O Ba 2100 Av Eunice, N (575) 33 (575) 394 MANAGER: Roger Boon TOTAL WELL DEPTH (II) PRODUCT (II) 69.10 72.45	P O Box 1558           2100 Avenue O           Eunice, NM 88231           (575) 394-3481           (575) 394-3481           (575) 394-3481           (575) 394-2601 (fax) MANAGER: Roger Boone TOTAL WELL DEPTH (H) DEPTH TO PRODUCT (ft) MATER (ft) 69.10  55.83 72.45  57.83	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-3481         CO           (575) 394-3481 (575) 394-2601 (fax)         CO           MANAGER: Roger Boone         DEPTH TO PRODUCT (fi)         DEPTH TO WATER (ft)         HEIGHT WATER COLUMN (ff)           69.10          55.83         13.27           72.45          57.83         14.62	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-3481         COMPANY: Apa           MANAGER: Roger Boone         DEPTH TO PRODUCT (ft)         DEPTH TO WATER (ft)         HEIGHT WATER (ft)         PSH THICKNESS (ft)           69.10          55.83         13.27            72.45          57.83         14.62	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-3481         COMPANY: Apache Corpora           MANAGER: Roger Boone         FIELD TEC           TOTAL WELL DEPTH (tt)         DEPTH TO PRODUCT (ft)         DEPTH TO WATER (ft)         HEIGHT WATER (ft)         PSH THICKNESS (ft)         WELL FACTOR 2"=0.163 4"=0.653 6"=1.469           69.10          55.83         13.27          0.163           72.45          57.83         14.62          0.163	P O Box 1558 2100 Avenue 0 Eunice, NM 88231 (575) 394-3481       COMPANY: Apache Corporation         MANAGER: Roger Boone       FIELD TECHNICIAN: I         MANAGER: Roger Boone       HEIGHT WATER (ft)       Well WATER (ft)       Keight Water (ft)       Well Water (ft)       Column (ft)       Column (ft)       Column (ft)       Column Column (ft)       Column (ft)       Column (ft)	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-3481       PROJECT I COMPANY: Apache Corporation       PROJECT I Tank Batter         MANAGER: Roger Boone       FIELD TECHNICIAN: Kurt Tyree         TOTAL WELL DEPTH (H)       DEPTH TO PRODUCT (ft)       DEPTH TO WATER (ft)       HEIGHT WATER (ft)       PSH COLUMN (ft)       WELL FACTOR 2"=0.163 6"=1.469       CALC. WELL VOLUME (gal)       # OF WELL VOLUMES PURGED         69.10        55.83       13.27        0.163       2.16       6.48         72.45        57.83       14.62        0.163       2.38       7.14	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-3481 (575) 394-2601 (fax)       COMPANY: Apache Corporation       PROJECT NAME: Walt Tank Battery         MANAGER: Roger Boone       FIELD TECHNICIAN: Kurt Tyree         TOTAL WELL DEPTH (ii)       DEPTH TO PRODUCT (fi)       DEPTH TO WATER (fi)       HEIGHT WATER COLUMN (fi)       PSH THICKNESS (fi)       WELL FACTOR 2"=0.163 4"=0.653 6"=1.469       # OF WELL VOLUME (gal)       # OF WELL VOLUMES PURGED       TOTAL PURGED (gal)         69.10        55.83       13.27        0.163       2.16       6.48       >8         72.45        57.83       14.62        0.163       2.38       7.14       >8	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-3481       COMPANY: Apache Corporation       PROJECT NAME: Walter Lynch Tank Battery         MANAGER: Roger Boone       FIELD TECHNICIAN: Kurt Tyree         TOTAL WELL DEPTH (h)       DEPTH TO PRODUCT (h)       DEPTH TO WATER (h)       HEIGHT WATER (h)       PSH COLUMN (h)       PSH THICKNESS (h)       CALC. WELL S ² "=0.163 4"=0.653 6"=1.469       #OF WELL VOLUME (gal)       TOTAL PURGED (gal)       Temp (°C)         69.10        55.83       13.27        0.163       2.16       6.48       >8          72.45        57.83       14.62        0.163       2.38       7.14       >8	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-2601 (fax)       COMPANY: Apache Corporation       PROJECT NAME: Walter Lynch Nos. 4, 5, Tank Battery         MANAGER: Roger Boone       FIELD TECHNICIAN: Kurt Tyree         TOTAL WELL DEPTH (n)       DEPTH TO PRODUCT (ft)       DEPTH TO WATER (ft)       HEIGHT WATER (ft)       PSH (ft)       WELL FACTOR 4"=0.653 6"=1.469       CALC. WELL VOLUME (gal)       # OF WELL VOLUMES PURGED (gal)       Temp (°C)       pH         69.10        55.83       13.27        0.163       2.16       6.48       >8           72.45        57.83       14.62        0.163       2.38       7.14       >8	P O Box 1558 2100 Avenue O Eunice, NM 88231 (575) 394-2601 (fax)       COMPANY: Apache Corporation       PROJECT NAME: Walter Lynch Nos. 4, 5, 6, 7 & 8 Tank Battery         MANAGER: Roger Boone       FIELD TECHNICIAN: Kurt Tyree         TOTAL WELL DEPTH (tr)       DEPTH TO PRODUCT (ft)       DEPTH TO WATER (tr)       HEIGHT WATER (tr)       PSH COLUMN (tr)       WELL FACTOR 0''''''''''''''''''''''''''''''''''''	P O Box 1558 2100 Avenue O Euroce, NM 88231 (575) 394-2601 (fax)       COMPANY: Apache Corporation       PROJECT NAME: Walter Lynch Nos. 4, 5, 6, 7 & 8 Tank Battery       PROJECT NUMBE         MANAGER: Roger Boone       FIELD TECHNICIAN: Kurt Tyree       DATE: 12/11/09         TOTAL WELL DEPTH TO DEPTH TO DEPTH TO       DEPTH TO WATER (ft)       HEIGHT WATER (ft)       PSH THICKNESS (ft)       VELL PSH THICKNESS (ft)       CALC. WELL VOLUME (gal)       # OF WELL VOLUME (gal)       TotAL VOLUME (gal)       TotAL VOLUME (gal)       Temp (fc)       pH       Cond (µs)       THME/DATE WELL SAMPLED/GAUGED (circle one)         69.10        55.83       13.27        0.163       2.16       6.48       >8         12/11/09 @ 8:47 am         72.45        57.83       14.62        0.163       2.38       7.14       >8         12/11/09 @ 11:26 am

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