# State of New Mexico Energy, Minerals and Natural Resources Department

Submit 1 copy to

Natural Resource Dept.
and Oil & Gas Administration

UK Notesample Headspace

Oil Conservation Division 2040 S. PACHECO Santa Fe, New Mexico 87505

### PIT REMEDIATION AND CLOSURE REPORT

							$f_{col}$			
Operator:	Apache Corporation			Telephon	505-325-0	0318				
Address:	2855 Southside Rive	er Road, Suite	e A, Farming	gton, NM 87	401			* *	JJ –	
Facility or We	ell Name: JAT 360	#1							¥ Ž	
Location:	Unit or Qtr/Qtr Sec	NW/NE	Sec 1	T 22N	R 3W	_County	SANDOV	AL	_	
Pit Type:	Separator:	_Dehydrator		Other	BLOW PI	Т		_		
Land Type:	JIC. TRIBAL								<del></del>	
Pit Location: (Attach diagra	· · · · ·	sions:	Length Length	50'	_Width _Width	35' 35'	Depth Depth	6' 6'	- -	
	Reference:	Wellhead	XXX	Other				_		
	Footage from re	eference:	125'		-					
	Direction from r	eference:	260	Degrees		_East of	North		_	
					X	_West	South	•	_	
Depth To Gre	oundwater:			Less than	50 feet		(20 points	)		
(vertical distance	from			50 feet to	99 feet		(10 points	)	_	
contaminants to				Greater th	an 100 fee	et	( 0 points)	0		
high water elevat groundwater)	tion of									
Distance to a	an Ephemeral Strean	n:		Less than	100 feet		(10 points	)		
		an		Greater th	an 100 fee	et	( 0 points)	0	_	
Distance to I	Nearest Lake, Playa,	or Watering	Pond:	Less than	100 feet		(10 points	)		
		)		Greater th	an 100 fee	et	( 0 points)	0	<del></del>	
Wellhead Pro	otection Area:				Yes		(20 points	)		
· .	•				No		( 0 points)	0	_	
Distance to an Ephemeral Stream:  (Downgradient dry wash greater than Greater than 100 feet (0 points)  (Distance to Nearest Lake, Playa, or Watering Pond:  (Downgradient lakes, playas and Greater than 100 feet (10 points)  (Downgradient lakes, playas and Greater than 100 feet (0 points)  Wellhead Protection Area:  Yes  (20 points)										
	_									
					MINNING	OURE (	TOTAL PO	111(0)	<u> </u>	_

ປate Remediation Start	ed: 11/18/1999		Date Completed:	09/22/2000		
Remediation Method: (Check all appropriate	Excavation		Approx. cubic yards	S		
sections)	Landfarmed		Insitu Bioremediatio	on		<u> </u>
	Other		e 4' below pit bottom	center, compo	site core s	sample
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite		Offsite			
General Description of	Remedial Action:	NONE REQI	UIRED, CONTAMIN	NATION BELO	W CLOSU	RE LIMITS
9/22/00 BA	ACKFILLED AND RESE	EEDED		·		<del></del>
Groundwater Encounte	red: No	xxx	Yes	Depth		_
Closure Sampling: (in multiple samples,	Sample location	Core sample of pit corner	e 4' below pit bottom	center, 4 point	ts composi	ite sample
attach sample results and diagram of sample locations and depths)	Sample depth	CORE SAME	PLE 4' BELOW PIT I	воттом.		
Sample Da		11/18/1999 cc	Sample orner/center	Time	2:15PM, 2	2:30PM
	Benzene		ND/.005 Water:	Benzene	(ppb)	NA
	Total BTEX	(ppm)	ND/.039	Toluene	(ppb)	NA
	Field Headspace	(ppm)	ND/ND Ef	thylbenzene	(ppb)	NA
	TPH	(ppm)	ND/ND To	otal Xylenes	(ppb)	NA
Groundwater Sample:	Yes		No XXX	(If yes attacl	h sample r	esults)
I HEREBY CERTIFY THA KNOWLEDGE AND BEL		ABOVE IS T	RUE AND COMPLI	ETE TO THE E	BEST OF N	ΛŸ
DATE _// ~ 2	22-00	PRINTED NA	4ME	Jeff Cross	**	
SIGNATURE	12-00 1 lwn	AND TITLE		Project Mar	nager	

i

### JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P. O. BOX 507 DULCE, NEW MEXICO 87528

Submit 1 copy to Natural Resource Dept. and Oil & Gas Administration

### PIT REMEDIATION AND CLOSURE REPORT

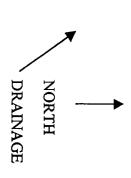
Operator:	APA	CHE CORPORA	TION .		Telephone	55	05-32	5-0318		
Address:	2855	SOUTH SIDE R	IVER ROAL	) FARMIN	IGTON N.	M. 874	401			
Facility or We	ell Na	me:	JAT 360#	1						
Location:	Unit	or Qtr/Qtr Sec	NW/NE	SEC 1	T 22N	R 3V	N	County	SANDOVAL	•
Pit Type:	Sepa	arator:	Dehydrato	<u> </u>	Other	BLO	W PIT			
Land Type:		JIC. TRIBA	AL.	·						
Pit Location: (Attach diagra	am)	Pit Dimensions:	Length Wellhead	50'	Width	3	5'	Depth	6'	
		Footage from ref		125' 240 <sup>6</sup>	Degrees	_		East of	North _	
							<u>X_</u>	West	South _	
Depth To Gr (vertical distance contaminants to s high water elevation groundwater)	from season				Less than 50 feet to 9 Greater tha	99 fee	t		(20 points)_ (10 points)_ ( 0 points)_	0
(Downgradier	nt dry								(10 points) _ ( 0 points) _	0
• • • • • • • • • • • • • • • • • • •										
		istand river	e to perennial s, streams, creeks	5,		Less than 100 feet to Greater tha	1000 an 100	feet 00 feet		(20 points) _ (10 points) _
					RANKING	SCOF	KE (TO	JIAL POIN	NTS) _	0

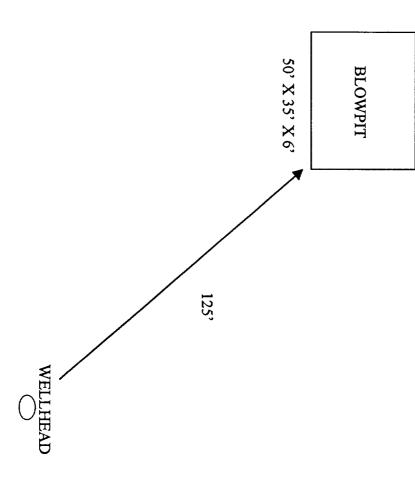
Date Remed	iation Sta	rted: 11/1	18/99	Date Complet	ed: <u>9</u> -	22-00	
Remediation		Excava	tion	Approx. cubic	yards		
(Check all ap sections)	ргорпате	Landfar	med	Insitu Bioreme	ediation		
		Other	4' below	pit bottom come	bottom center,corrs.	nposite core	sample
Remediation (i.e. landfarm name and loc offsite facility	ed onsite, cation of	: О	nsite XX	Offsite			***************************************
General Des	cription of	Remedial Action Eleganed tamibuting	:. 9-22	00 Backt	Allpit and	Resces.	
	Non	Elegained,	Pit TOBE B	Back filled a	NO Resced	led.	
Groundwate	Con r Encount	tamiDutino 'i ered:	Below Clo No xxx	sure Limit Yes_	S Dep	ih	-
Final Pit: Closure Sam (in multiple sa	amples,	Sample location		ple 4' below pit I om corners.	oottom center,4po	int composite	e sample
	of sample	Sample depth	CORE SA	AMPLE 4' BELO	W PIT BOTTOM.		
locations and	Sample D		11/18/9	9Sa	mple Ti <u>me;</u>	2:15Pm,2:30F	<sup>o</sup> m
	Sample re	suits	cor	mers/center			j
	Soil:	Benzene	(ppm)	ND/.005 W	ater: Benzene	(ppb)	NA
		Total BTEX	(ppm)	ND/.039	Toluene	(ppb)	NA
		Field Headspace	(ppm)	ND/ND	Ethylbenzene	(ppb)	<u>NA</u>
		TPH	(ppm)	NO/NO	Total Xylenes	(ppb)	NA
Groundwate	r Sample:		Yes	No	XXX (If yes att	ach sample r	esults)
I HEREBY CE KNOWLEDGI	RTIFY THE AND BE	IAT THE INFORM	ATION ABOVE	IS TRUE AND	COMPLETE TO	THE BEST C	OF MY
DATE .	9-29	K-2000 Ji.	PRINTED	NAME	JEFF CF	≀oss	
SIGNATURE		- 2000 Ji.	AND TITE	.E	PROJEC	T MANAGER	R
AFTER REVI	EW OF TH	E PIT CLOSURE I HE TRIBE PIT CLO	INFORMATIO	N, PIT CLOSUR			ANCE TO
APPROVED:	YES	<u> </u>	NO	_(REASON)			
SIGNED:	Ko	=CMo		DATE:	11-9-0	10	

## Pit Impact Rating Sheet

Well Name:  Well Location:  NW/NE SEC 1 T 22 N R 3 W  Number of Pits at Location:  Pit Number and Usage:  Estimated Elevation:  Estimated Groundwater Elevation:  Vulnerable Area: YES Fluid in Pits:  Water:  % Oil:  Visual Soil Contamination:  Highly Contamination/Satureated Soils:  Unsatureated Contamination:  Odor or PID Reading):  ND  Suspected Groundwater Contamination:  Reason for Suspicion:	
RATING:	
Depth to Groundwater:  < 50' 50' - 99' > 10 Rating  Wellhead Protection Area:  < 1000' from water source, or  < 200' from a domestic source?  < 200' from a Momestic source?  No Rating	20 0 0
Distance to Surface Water:  < 200' horizontal feet 200' - 1000' horizontal feet 300' - 100' horizontal feet 300' - 100' horizontal feet 300' - 100' horizontal feet 300' horizontal feet	ridth  10 0 0 10 0 10 0
FINAL SOIL REMEDIATION STANDARDS:  TPH: 5000 ppm Benzene: 10 ppm BTEX: 50 ppm	0
KNOWN ANALYSIS:	
Soil: TPH: NO ppm Benzene: .005 ppm BTEX: .039 Groundwater: TPH: NA ppm Benzene: NA ppm BTEX: NA	ppm ppm
PROBABLE SOIL REMEDIATION TECHNIQUE: Bioremediation: On-Site	
Composting:	
Disposal: Facility Name Thermal Desorption: Soil Venting: Other:	

JAT 360 # 1 NW/NE (B) SEC 1 T22N R3W SANDOVAL, COUNTY N.M.





METER RUN

# APACHE CORPORATION/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

JAT 360 # 1

LOCATION

PITC	OUNT	1	-						
	START				FINISH	***	·	1	
DIMEN	SIONS								
	L	W	D			L	W	D	CU YDS
Pit 1	50'	35'	6'	Pit 1			ļ	<u> </u>	
Pit 2				Pit 2			ļ		
Pit 3				Pit 3		<u> </u>			
DATE:	a	† ·	Pit 2 @	Pit 3 @	Date:	a =	Pit 1 @	Pit 2 @	Pit 3 @
	Center	ND	ļ.,,,,,		1	Center		ļ <u>.</u>	
P	NW Corner	ND			P	NW Corner			
1	NE Corner	ND				NE Corner			
D	SW Corner	ND			D	SW Corner			
	SE Corner	ND	<u> </u>			SE Corner			<u> </u>
NOTE	PIT SHOWS	NO VISIABLE	STAINING	, OVERGROWN	WITH SA	AGEBRUSH.			
ļ									
				4' BELOW PIT	BOTTOM	CENTER , P	D READIND N	ID.	
		STAINING O							
				CORE SAMPLE		W PIT BOTTO	M CORNERS	S	
	PID READING	GS ND. WITH	NO VISIABL	E STAINING OF	RODOR.				
		<u> </u>							
								-	
						-			
	DATE	11/18/99		SOIL SAMPL	ING				
		Pit 1 @ 10'	Pit 2 @	Pit 3 @	ANALYS	IS RESULTS		PER LAB	Assaigai
	Center	ND			PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner	ND			NO	SIDE\BTM	SIDE\BTM		
- 1	NE Corner	ND			1	NO/ND	ND/.039	J.C.	11/18/99
D	SW Corner	ND			2				
	SE Corner	ND			3				
				RE-SAMPLE	<u> </u>	•		<u> </u>	
DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYS	IS RESULTS		PER LAB	
	Center				PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner				NO	SIDE\BTM	SIDE\BTM		
	NE Corner		<u> </u>		1				
D	SW Corner				2	1			
	SE Corner			· · · · · · · · · · · · · · · · · · ·	3				
	·	<u> </u>	<del> </del>	RE-SAMPLE	· · · · · · · · · · · · · · · · · · ·				
DATE:	****	Pit 1 @	Pit 2 @	Pit 3 @	ANAL YS	IS RESULTS		PER LAB	
	Center			<del>                                     </del>	PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner			+	NO	SIDE\BTM	SIDE\BTM	VVIIVEGG	DVIE
i	NE Corner	<del> </del>		<del>                                     </del>	1	CIDEIDIN	CIDE (D I IVI		
D	SW Corner	<del> </del>	l	<del> </del>	2		<del> </del>		
"	SE Corner		l	<del>-  </del>	3		ļ		
	OL COME	<u> </u>	I		<u> </u>	L	<u> </u>	L	



## **ASSAIGAI ANALYTICAL** LABORATORIES, INC.

7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 462-2558

**APACHE CORPORATION** attn: JEFF CROSS 2855 SOUTHSIDE RIVER RD STE A **FARMINGTON, NM 87401-7947** 

Explanation of codes
analyte detected in Method Blank
result is estimated
analyzed out of hold time
tentatively identified compound
subcontracted
see footnote

Assaigai Analytical Laboratories, Inc.

## Certificate of Analysis

Client:

**APACHE CORPORATION** 

Project: 9911220

JIC. PIT REMEDIATION

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID	JAT360#1 P	IT SIDES		Sample SOIL Matrix				mple llected	11/18/9 14:15:0
QC Group	Run Sequence	CAS#	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911220-01	Α	SW846 5030A	/8021B Purgeable VOCs by G	C/PID					
X99379	XG.1999.995-10	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-10	100-41-4	Ethylbenzene	ND	mg / Kg	1 1	0.005	1	11/24/99
X99379	XG.1999.995-10	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-10		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99379	XG.1999.995-10	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99
9911220-01	A	SW846 ME/80	15A Diesel Range Organics b	v GC/FID			•		
X99385	XG.1999.1002-6	[	Diesel Range Organics	ND	mg / Kg	T	25		11/30/99

Client Sample ID	JAT360#PIT	CENTER		Sample SO Matrix	IL			mple llected	11/18/99 14:30:00
QC Group	Run Sequence	CAS#	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911220-0	2A	SW846 5030A/80	21B Purgeable VOCs by (	GC/PID					
X99355	XG.1999.993-6	71-43-2	Benzene	0.005	mg / Kg	1	0.005	1	11/23/99
X99355	XG.1999.993-6	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/23/99
X99355	XG.1999.993-6	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/23/99
X99355	XG.1999.993-6		p/m-Xylenes	0.011	mg / Kg	1	0.01	1	11/23/99
X99355	XG.1999.993-6	108-88-3	Toluene	0.023	mg / Kg	1	0.005	1	11/23/99

Page 1 of 2

Client Reports

2.0

Report Date

12/2/99 3:34:09 PM



#### Assaigai Analytical Laboratories, Inc.

## Certificate of Analysis

Client:

**APACHE CORPORATION** 

Project: 9911220 JIC. PIT REMEDIATION

9911220-02	A	SW846 ME/8015A Diesel Range Organics by	y GC/FID			
X99385	XG.1999.1002-7	Diesel Range Organics	ND	mg / Kg	1	25 11/30/99

\*\*\* Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. \*\*\*

\*\*\* ND = Not detected: less than the sample specific Detection Limit. Results relate only to the items tested. \*\*\*

footnote

Sample was received with headspace.

memo

Please note that the cooler was received at a temperature greater than 4 degrees C.

ASSAIGAI APA O Chain of Custody Record ANALYTICAL 12/27 11/33/49

CABORATORIES, INC.

Record Control of Custody Record

ANALYTICAL 12/27

LABORATORIES, INC.

Record Manager Contact 12/2 Charter 12/2 C

ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8964

3332 WEDGEWODD EL PASO, TEXAS 79925 (915) 593-6000

				7	- bood		To the second	n con	**					200		28
Client	Client Abacke Colostation			Project	Droient Manager Control of the Contr	The state of the s		4			To Take	127 LOS AL	EASTGA AMOS, N (505)	127 EASTGATE DRIVE; 212-C 32 LOS ALAMOS, NEW MEXICO 87544 (505) 662-2558 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7544	3.4
Address	Addition 1845 South Side River River Ris 576 4" Tologhum III	123.5	76 4"	Telen		25.0				2.3	Harry Willer	in it				
Cinc/State Zi	Clark State 20 1 8740	1 87	10)	E N	2.0	4.0.5	The state of the s					A Same				for a
Project Name	Project Name / Number And Control of Annual Samplers: (S)	edlat.	3	Samo			S									
				996		2	AND AND CAME OF A STATE OF A STAT	<b>V</b>		16						
		AND CACASE								1						
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sample Type		447	Call Action of the Control of the Co									-)Æ.
	TAL STUDIES OF STUDIES	65:81-11	215 516	ي رو	482 WASS	A COMME TO A COMME	7.4	×	<b>&gt;</b>	1		20 20 20 20 20 20 20 20 20 20 20 20 20 2	73			
	1.10 3 60 a Old Hostory 11.10.59	11.19.99	3.00 G.C	2,00	405 W 1455	Pada Car		X	×			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.0		of the second	8.2
A To	2.	A section of the sect					COLUMN TO THE PARTY OF THE PART	in the second		18 m	0 30 M	静	3			
3		Transporter to				5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2.2		Flack Lines	4,	44.00				<u>.</u> F:
		Secretary.			The state of the s	THE PARTY OF THE P	A TO ME		臺		Y.,	10.8	4.3			
					**************************************	10.00			543	44	3.5		1			
		A SAME			The Manual Anna		*	1		1 th	40	120				
				Towns 1		1000	A STATE OF THE STATE OF	3#		1.18 and 51	3.4.1 3.4.1	· · · · · · · · · · · · · · · · · · ·	19			
		Section 1		13.0 × 编 2.0 × 编						1877 1873	#.5°	14	7 9	and more resident	2.2	
			The Land							e Par		3.0	200	THE STATE OF THE PARTY.	A Load of the Control	¥₹ Tv
		and the party					TANKET CO.	10.1	12 14 14			<b>*</b>	4			
		1		-			marae s	1.5	4		3		4.87	Section 1997		
Reindüüline (b.)	Date Received by:		eived by:			Relinquished by:	8.3			Det	1					
The second second	The Time	82.4	Printed			Printed	inted	1			3					e i statu.
17.7		(t 3). is	Company Reason			Company	is toodamatical lines	表表		<u> </u>			Company			in a seed of
	The left fall and the second s			14, 11, 18			A TEMP SALE	000	4		After analysis, semples are to be	, sample	S are to			
Shoot and the second		V4.55 WAY 23.45	A A A A A A A A A A A A A A A A A A A				を記する			14	] Ĺ	Dispose	60 6	nonal feet		
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Salah Kara			1000000	SEASON CONTRACTOR	Sept.		-¥  -  -	] } }	Stored (.	Stored (30 days max)	00		

