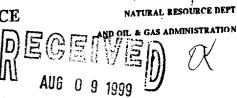
BJ669

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

DULCE, NEW MEXICO 87528



PIT REMEDIATION AND CLOSURE REPORT GOING DIV

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Operator. No	4 87401
Address: 200 Amoco Court, Farmington, NM	
Facility or Well Name: TICARILLA APROHE	# 162 - L
Location: Unit or Qtr/Qtr Sec 6 Sec 9 T26	N R 4W County X10 MIGG817
Pit Type: Separator Dehydrator Other_ &	Low
Land Type:	
Pit Location: Pit dimensions: length/	9', width 26', depth 6'
(Attach diagram) Reference: wellhead X,	other
Footage from reference: 147	<u>, ' </u>
Poolage non-reference: 31	Degrees East North X
Diffection from reference.	Degrees East North <u>×</u> of West South
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
groundwater) Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 points) Greater than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet (10 points) Greater than 100 feet (0 points)
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes (20 points) No (0 points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS):

		BJ669 BLOW PIT
	Date Comple	ted: 10 / 21 / 98
Date Remediation Sta		yards
Remediation Method:	—	
Check all appropriate sections)	Landfarmed Insitu Bioreme	diation
	Other	
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)		
General Description	of Remedial Action: Excavation BEDROCK	2011 01111
Groundwater Encoun	ntered: No X Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents	
attach sample results and diagram of sample locations and depths)	Sample depth $3'$ (ENST SIDEWALL) Sample date $10/25/98$ Sample	time/200
II	Sample Results Soil: Benzene (ppm) 0.425 Wate	r: Benzene (ppb)
		Toluene (ppb)
	Total BTEX (ppm) 10.300	
	Field Headspace (ppm) 109.6	Ethylbenzene (ppb)
	TPH (ppm) <u>135</u>	Total Xylenes (ppb)
Groundwater Sample		
I HEREBY CERTIFY KNOWLEGE AND B	Y THAT THE INFORMATION ABOVE IS TRUE AND BELIEF	COMPLETE TO THE BEST OF MY
DATE	10/21 /98 PRINTED NAME Buddy D	
SIGNATURE BUS	239 OF THE AND THE	mental Coordinator
APPEN DEVIEW OF	F THE PIT CLOSURE INFORMATION, PIT CLOSURE A APACHE TRIBE PIT CLOSURE ORDINANCE.	IS APPROVED IN ACCORDANCE

APPROVED: YES X NO ___ (REASON) _______

SIGNED: \(\text{Let C} \text{Ma} \) DATE: \(\frac{1/-19-9}{9} \)

DATE: 11-18-98

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 87669
FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: TICH - APACHE 102 WELL #: Z PIT: BLOW QUAD/UNIT: G SEC: 9 TWP: ZGN RNG: YW PM: NM CNTY: RA ST: NM	PAGE No: of DATE STARTED:98 DATE FINISHED: ENVIRONMENTAL NV/TEB
EXCAVATION APPROX. 19 FT. x 26 FT. x 6 FT. DEEP. CUBIC DISPOSAL FACILITY: ON-SITE REMEDIATION METHO	YARDAGE: /oo
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY	131W FROM WELLHEAD.
SIDEWALLS - MOSTLY DK. YELL ORANGE SAND PHASING INTO DUSKY RED SI CLAY NOW COHESIVE SUGHTLY MOIST, FIRM TO VERY DETECTED IN EAST SIDEWALL OUT ONLY, NO N OR HE GOOD OBSERVED/DETECTED WIND EXCOUN	THE SOUR TO SILTY STIFF, HE GOOD OTICEOBLE STOINING
BEDROCK (SANDSTONE), OLIVE GRAY JERY HARD, SLIE BEDROCK (CLOSED) FIELD 418.1 CALCULATIONS BOTTOM	
SCALE O FT PIT PERIMETER #A PIT	
OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 4'	BEDLOCK
LAB SAMPLES SAMPLE ANALYSIS TIME ID ANALYSIS TIME Des' TPHIBTEX 1270	BEDNOCK (55)
TRAVEL NOTES: CALLOUT: ONSITE: 10/20/98	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO Sample ID: 2 @ 3' Laboratory Number: E088 Chain of Custody No: 6305 Sample Matrix: Soil Preservative: Cool Condition: Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 10-21-98 10-20-98 10-21-98 10-21-98 10-21-98 8015 TPH
---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	94.0	0.2
Diesel Range (C10 - C28)	41.4	0.1
Total Petroleum Hydrocarbons	135	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Jicarilla Apache #102 - 2 Blow Pit.

Analyst

Stacy W Sendler
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / Amoco 2 @ 3' E088 6305 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 10-21-98 10-20-98 10-21-98 10-21-98 10-21-98 BTEX
---	--	---	--

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
<u>.</u>	425	8.8
Benzene Toluene	2,700	8.4
Ethylbenzene	449	7.6
p,m-Xylene	5,180	10.8
o-Xylene	1,550	5.2
Total BTEX	10,300	

ND - Parameter not detected at the stated detection limit.

Surrogate Recove	ries: Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	96 %

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments: Jicarilla Apache #102 - 2 Blow Pit.

Analyst A. Oferce

Stacy W Sendler

CHAIN OF CUSTODY RECORD

	7	Cool - Ice/Blue Ice	Mexico 6/401	Farmington, New Mexico 6/401				
`	1	Received Intact	ghway 64	5796 U.S. Highway 64				
z	~					که _{قرا} مرددها		le coc
	ceipt	Sample Receipt	CH IDC					
			Received by: (Signature)	Rec			Relinquished by: (Signature)	Relinquist
			Received by: (Signature)	Aec			Relinquished by: (Signature)	Relinquish
09:00		10 21.48	Mistai Wester	0900	7		Helinquistration of Congression	Kelinquisi
Time	ē	Date	Received by: (Signature)	Date Time Rec			A by (Gianatura)	
7007	57	MESELV.	- < <	2016	F088	1200 spala		(2)
				Sample Matrix	Lab Number	ple Sample e Time	Sample No./ Sample Identification Date	Sam
		TO INCIDENT	lo. of stainers of the stainer	04034-10	Client No.		768	Sampler:
	\$			APRICHE # 102-2	JICARILLA AR	0	BLAGE/ Amoco	Bu
		METERS	ANALYSIS / PARAMETERS	8000 PTT	Project Location		ject Name	Client / Project Name

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

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION	COMPANY	Telephone: (505) 326-9200			
Address: 200 Amoco Court,	Farmington,	NM 87401			
Facility or Well Name: JICARILLA	AFACHE 102 -	2			
Location: Unit or Qtr/Qtr Sec 5	Sec9 T_2	CAN RAW County RIO ARRIBA			
Land Type: EANGE					
Date Remediation Started: 10 20 Remediation Method: Landfarmed Composted		Date Completed: 5/17/99 Approx. cubic yards Zoo			
Other					
9pth To Groundwater:	(pts.) \bigcirc	Final Closure Sampling:			
Distance to an Ephemeral Stream	(pts.)	Sampling Date: <u>5.13.99</u> Time: <u>0925</u>			
Distance to Nearest Lake, Playa, or Watering Pond Wellhead Protection Area: Distance To SurfaceWater:	(pts.)	Sample Results: Field Headspace (ppm) 2.8 TPH (ppm) 1.3 Method (8015) Other			
RANKING SCORE (TOTAL POINTS):O					
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF					
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator					
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES NO (REASON)					
SIGNED: YES NO	\bigcirc	: 6-18-99			

CLIENT: A	MOCO	BL	AGG I	ENGINE	ERING	, INC		LOCATIO	INI NI∏:	85/0/09
		P.O. E		BLOOM		NM 87			C. ND:	
				605) 632		<u>-</u>				
FIELD	REPORT	: LAND	FARM/	COMPOS	ST PILE	E CLOS	SURE	VERI	FICAT	MOI
LDCATION: <u>n</u>	IAME: JICAR	LA APACHE	102 WELL	. #: 2	PITS: 82	low		DATE STAR' DATE FINIS		
		9 TWP: 20				Y: Ra s'	T: NM }	ENVIRONME SPECIALIST:		
		NE/4	CONTR	ACTOR: P+S				SPECIALIST		:1-3
SO'L REME		YSTEM: 🔑	ALINERAL	4	∆ DD'	ROX. CU	IRIC Y	ARDAGE:	. Zo	5
	USE:	_	ANGE			DEPTH				
						DB1 111				
FIELD NOTE			REST WATER	SOURCE: 2	1000	_ NEAREST	SURFACE	WATER:	-1000	· '
NMECD RANKING										
DK. YE	LLOWISH B	REOWN SAND	D, NON CO	HESIVE, SU	JOHTLY MC	IST FIRE	M. THE			
	MONNE STA	11111K1, NIO "-10" COL	HC ODOR	E DE LECTE	D SAMPLI	U CO DE	,,,,			
	ALULIS.	(Cursi	_			А	ppro».	100 c		
							1977L 71			
		(203		ELD 418.1 C	ALCULATIO					
	SAMP. TIME	SAMPLE I.D.	FII	ELD 418.1 C WEIGHT (g)		NS				
	SAMP. TIME		FII			NS				
	SAMP. TIME		FII			NS				
•	SAMP. TIME		FII			NS				
SKET		SAMPLE I.D.	FII LAB No:			NS				
SKET			FII LAB No:	WEIGHT (g)		NS				
SKET		SAMPLE I.D.	FII LAB No:	WEIGHT (g)	mL. FREON	NS UNITION	READING	G CALC. p	ppm	
		PLE LOCA	FII LAB No:	WEIGHT (g)	DVM RES	SULTS	I READING		ppm	
	CH/SAM	SAMPLE I.D.	LAB NO:	WEIGHT (g)	OVM RES	NS UNITION	READING	LAB SA	AMPLI	ES
	CH/SAM	PLE LOCA	LAB NO:	WEIGHT (g)	DVM RES	SULTS O HEADSPACE PID (ppm)	I READING	LAB SA	AMPLI	ES RESULTS
	CH/SAM	PLE LOCA	LAB NO:	WEIGHT (g)	DVM RES	SULTS O HEADSPACE PID (ppm)	I READING	LAB SA	AMPLI	ES RESULTS
	CH/SAM	PLE LOCA	LAB NO:	WEIGHT (g)	DVM RES	SULTS O HEADSPACE PID (ppm)	I READING	LAB SA	AMPLI	ES RESULTS
	CH/SAM	PLE LOCA	LAB NO:	WEIGHT (g)	DVM RES	SULTS O HEADSPACE PID (ppm)	I READING	LAB SA	AMPLI	ES RESULTS
	CH/SAM	PLE LOCA	LAB NO:	WEIGHT (g)	DVM RES	SULTS O HEADSPACE PID (ppm)	I READING	LAB SA	AMPLI	ES RESULTS

TRAVEL NOTES:

CALLOUT: _N/A

ONSITE: 5.13.99

FT



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO LF - 1 F248 6925 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 05-17-99 05-13-99 05-14-99 05-17-99 05-17-99 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.3	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	1.3	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Jicarilla Apache 102 - 2 Landfarm. 5 Pt. Composite.

Alexa L. afecca

Suy W

CHAIN OF CUSTODY RECORD

			Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)						LF-1 5.13.99 0925	Sample No./ Sample Sample Identification Date Time	Sampler: REP	Client / Project Name <i>BLA伝伝/AMOCO</i>
											Shot.	Lab Number	Client No.	Project Location CANDFARY JICARILLA APACHE 10
5796 U.S. Highway 64 Farmington, New Mexico 87401		EOVIDOTECH IO	Re	Re	5.4.99 7:25	!					SOIL	Sample Matrix	403410	CANDFADY APACHE 102.2
lighway 64 / Mexico 87401 2-0615	<u>-</u>		Received by: (Signature)	Received by: (Signature)	Heceived by: (Signature)						7		o. of tainers	AN
Received Intact Cool - Ice/Blue Ice		Sample Receipt			extraction 57				2007	SAMPLE	SPT. COMPOSITE		Re	ANALYSIS / PARAMETERS
22	Y N N/A	Receipt			9	Date Time				SAMPLE POBLEPIE	(POSITE		Remarks	