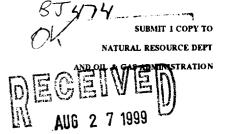
# JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528



### PIT REMEDIATION AND CLOSURE REPORT

Telephone: (505)326-9200 Operator: AMOCO PRODUCTION COMPANY Address: 200 Amoco Court, Farmington, NM 87401 Facility or Well Name: JICARILLA CONTRACT # 155-24 Unit or Otr/Otr Sec M Sec 31 T260 R5W County R10 ARRIGH Location: Separator\_\_\_\_ Dehydrator\_\_\_ Other\_ 845W Pit Type: Land Type: RANGE length NA, width NA, depth NAPit Location: Pit dimensions: (Attach diagram) Reference: wellhead X, other\_\_\_\_\_ Footage from reference: 270' Direction from reference: 32 Degrees \_\_\_\_ East North of South **Depth To Groundwater:** Less than 50 feet (20 points) (Vertical distance from 50 feet to 99 feet (10 points) 20 Greater than 100 feet (0 points) contaminants to seasonal high water elevation of groundwater) Distance to an Ephemeral Stream Less than 100 feet (10 points) 0 Greater than 100 feet (0 points) (Downgradient dry wash greater than ten feet in width) Distance to Nearest Lake, Playa, or Watering Pond Less than 100 feet (10 points) 0 Greater than 100 feet (0 points) (Downgradient lakes, playas and livestock or wildlife watering ponds) Wellhead Protection Area: Yes (20 points) (Less than 200 feet from a private (0 points) domestic water source, or: less than 1000 feet from all other water sources) Less than 100 feet **Distance To SurfaceWater:** (20 points) 100 feet to 1000 feet (10 points) (Horizontal distance to perennial Greater than 1000 feet (0 points) lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) ZO **RANKING SCORE (TOTAL POINTS):** 

F	The second of th	BJ 474	/ BLOW	PTT
Date Remediation Sta	arted:	Date	Completed:	11/20/96
Pemediation Method:	Excavation	Approx	cubic yards _	NA
ck all appropriate .ions)	Landfarmed	Insitu	Bioremediation _	
	Other	2		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	<b>.</b>	ē.		
General Description	of Remedial Action: Excava	tion. No	REMEDIATION	NECESSARY.
Groundwater Encount	tered: No X Yes	Deptl	1	_
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attac	hed Documer	nts	
attach sample results and diagram of sample	Sample depth /4 /	TET HOLE	BOTTOM)	
locations and depths)	Sample date			
	Sample Results			
	-	)	Water: Benze	ne (ppb)
	Total BTEX (ppm)		Toluer	
	Field Headspace (ppm)		Ethylb	penzene (ppb)
	•	32	Total 2	Xylenes (ppb)
Groundwater Sample:	Yes No	(If yes, atta	ch sample result	s)
I HEREBY CERTIFY KNOWLEGE AND BE	THAT THE INFORMATION AI	BOVE IS TRUE	AND COMPLE	TE TO THE BEST OF MY
DATE	11/20/96 , PRINTEI	NAME BU	ddy D. Shaw	
SIGNATURE BLD.	$\frac{11/20/96}{\text{dy }}$ PRINTEI	errer is Env	vironmental	Coordinator
AFTER REVIEW OF	THE PIT CLOSURE INFORMATION APACHE TRIBE PIT CLOSURE	TION, PIT CLO	OSURE IS APPR	
APPROVED: YES X	NO (REASON)			
SIGNED: KIN	Many Complete DAT	E: 1-23	3-97	

	BLA P.O. BOX	87, B		IELD, N		LOCATION N	o: <b>85474</b>
FIELD REPOR'	Γ: CLO	OSUF	RE VE	ERIFIC	ATION	PAGE No: _	<u>/</u> of/_
LOCATION: NAME: JEARILL						DATE STARTED: DATE FINISHED:	f
QUAD/UNIT: M SEC: 31					RA ST: NM	ENVIRONMENTAL SPECIALIST:	
OTR/FOOTAGE: 5W(4 5	w/4	CONTRA	ACTOR:	765		SPECIALIST:	NV
EXCAVATION APPROX							
DISPOSAL FACILITY:	00 - 2	ME	R	EMEDIATIO	N METHO	D: CLOSE	45 IS
LAND USE: RASSE		LEASE:	Л <del>А</del> .	50NTR.#1	<b>55</b> FOI	RMATION: CI	K MU
FIELD NOTES & REMARK	(S: PIT LE	CATED	APPR[]XIM	ATELY Z	ס FT'	532W FROM	1 WELLHEAD.
DEPTH TO GROUNDWATER: <50	NEAREST W	ATER SOU	RCE: >1	5 00 ' NE	AREST SURFAC	E WATER: 2/	000'_ VE:
NMOCD RANKING SCORE: 20			STD: 10	OPPM		PIT ABANDONEI	 D
SOIL AND EXCAVATION					1	_ STEEL TANK IN	
	tole cons				` -	_ FIBERGLASS TA	
DK. YELL	OPET IL	5A~C	NON.	- COHESIV	E SLIGHT	APPARENT	FIRM,
STRININ	6 0R 0	DOR O	BSERVE	D WIN	TEST HOL	ë OR SURA	2011/01/16
	EA. No						
(C1.05TO							
1		,	FIFI	D 418.1 CAL	CULATIONS		
	TIME SAME	PLE I.D.	LAB No:	WEIGHT (g)	mL. FREON D	ILUTION READING	CALC. ppm
SCALE	0900 86	214' 7	PH -1856	5	20	1:1 8	3.2
0 FT			OVM		DITT	DDOEILI	<u>.</u>
PIT PERIME	TER N	<u>R</u>	RESULTS		PII	PROFILI	
TO A WELL HEAD		SAMPLE 10	FIELD HE	ADSFACE (ppm)			
HERD 30	4	2					
	_	3					
17	HOLE	5 <b>@</b> /4'	0.0	>	NO	T	
					API	PLICABLE	
60' RAMP (5)	OPIGINAL	•	_				
	OPT AREA						
	)	LA	B SAMPLI				
11	′	ID ID	ANALYSIS	TIME			
PIT BOTTOM							
6' BELOW GROWND							
SURFACE					7 7 -		
TRAVEL NOTES: CALLOUT:	11/15/96		40	ISITE:	120/96		<del></del>

### BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

### FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

**AMOCO** 

Project #:

Sample ID:

5 @ 14'

Date Analyzed:

11-20-96

Project Location: Laboratory Number:

Date Reported:

11-20-96

Jicarilla Contract 155 - 24

TPH-1856

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	32	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
4640	4400	5.31

<sup>\*</sup>Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Blow Pit - BJ474

Mehon Tel

### BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:

\*\*\*\*\*\*\*

Client:

**AMOCO** 

Project #:

Sample ID:

5 @ 14'

Jicarilla Contract 155 - 24

Date Analyzed: Date Reported: 11 - 20 - 9611 - 20 - 96

Project Location: Laboratory Number:

TPH-1856

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

8 mg/kg

**TPH Result:** 

32.0 mg/kg

Reported TPH Result:

32 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff. \_\_\_\_

4640

4400

5.31

Comments:

Comments:

Blow Pit - BJ474

BJ474

# 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: JICARIUA CO				
Location: Unit or Qtr/Qtr Sec_M Sec_31_	TZEN R SW County RID ARRISA			
Land Type: RANGE				
Date Remediation Started: 11 12 96				
Remediation Method: Landfarmed 🔀	Approx. cubic yards 2,000			
Composted				
Other (MATERIAL ORK	MARLY FROM JICARILA CONTRACT 147-6)			
oth To Groundwater: (pts.) 20	Final Closure Sampling:			
Distance to an Ephemeral Stream (pts.)	Sampling Date: 8 19 97 Time: 1240			
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results:			
	Field Headspace (ppm) 207			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TPH (ppm) <u>9.3</u> Method <u>8015</u>			
Distance To SurfaceWater: (pts.)O	Other			
RANKING SCORE (TOTAL POINTS): 40				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF				
DATE 8/25/97 PRINTED NAME Buddy D. Shaw				
SIGNATURE Bully D. Show 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 X NO (REASON)				
SIGNED: Xw. (. Manl DATE: 9,2-97				

CLIENT: AMOCO BLAGG ENGINE P.O. BOX 87. BLOOMI (505) 632	FIELD, NM 87413
FIELD REPORT: LANDFARM/COMPOS	T PILE CLOSURE VERIFICATION
LOCATION: NAME: JICARINA CONTR. 155 WELL #: 24	PITS: TEP BLOW DATE STARTED: 8/19/97  DATE FINISHED:
QUAD/UNIT: M SEC: 31 TWP: 260 RNG: 500 PM3 OTE/FOUTAGE: 5014 5014 CONTRACTOR: 1	ENVIRONMENTAL SPECIALIST: NV
SOIL REMEDIATION:	
REMEDIATION SYSTEM: ANDTREMED	APPROX. CUBIC YARDAGE: 2000
LAND USE: RANGE	LIFT DEPTH (ft): /2 ~ 2 Y'
FIELD NOTES & REMARKS:  DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE:	NEAREST SURFACE WATER: <1000
	$\mu^{-1} = \tau^{-1} = \tau^{-1}$
MATERIAL ORIGINALLY FROM J	CARILLA CONTENCT 147-6 (P3/2605)
ALL SAMPLE PTS. CONTRINED	BLACK DISCOLORATION SOIL MOSTLY PLASTIC SUGHT MOIST TO MOIST FILM OBSERVED IN OVER SAMPLE. 5 PT.
COMPOSTIE COLLECTED FOR LAB	ANALYSIS.
CLOSED FIELD 418.1 CA	
SAMP. TIME SAMPLE I.D. LAB No: WEIGHT (g)	mL. FREON DILUTION READING CALC. ppm
SKETCH/SAMPLE LOCATIONS N	
1 A) perkuntian	LAD GAMPLES
$ \mathcal{D} $	VM RESULTS LAB SAMPLES  SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS
R A west	F-1 207 (F-1 (R)(5)/240 9.3
3 (260,547W)	LF- Z (5521) 1440 44.2 ppb
3 - rem	TOT. BITEX SIT Apple
(4)	
105/10/	
(3)	
	SCALE
SAMPLE DT. DESIGNATION OF	FT
	ONSITE: 8/19/97



### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Amoco	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	08-20-97
Laboratory Number:	B887	Date Sampled:	08-19-97
Chain of Custody No:	5388	Date Received:	08-19-97
Sample Matrix:	Soil	Date Extracted:	08-19-97
Preservative:	Cool	Date Analyzed:	08-20-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.8	0.2
Diesel Range (C10 - C28)	8.5	0.1
Total Petroleum Hydrocarbons	9.3	0.2

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, July 1992.

Comments:

Jicarilla Contract 155-24 Landfarm. 5 pt. Composite.

Analyst

Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative:	Blagg / AMOCO LF - 2 E048 6290 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted:	04034-10 10-09-98 10-08-98 10-09-98 10-09-98 BTEX
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	44.2	8.8
Toluene	73.3	8.4
Ethylbenzene	66.5	7.6
p,m-Xylene	207	10.8
o-Xylene	123	5.2
Total BTEX	514	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	99 % 99 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

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

USEPA, December 1996.

Comments:

Jicarilla Contract #155 - 24 Landfarm 5 Pt. Composite.

Alexander Review Review

# CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	LANOFARM	ANALYSIS / PARAMETERS	METERS
BLAGG/Amoco	JICALILLA CONTRACT	TRACT #155-24		
Sampler:	Client No.		rs	Remarks
STN	04034-10	01-4	o. of taine	
· ·	Lab Number	Sample Matrix	N Con 870 (80	
1 = 7	NAC	2007	~	5 AT. ComposiTE
10 0 10	$\dashv$			
				PRESERY - COOL
-				
Relinquished by: (Signature)		Date Time Re	Received by: (Signature)	Date Time
Relinquished by: (Signature)			Received by: (Signature)	
Relinquished by: (Signature)		Re	Received by: (Signature)	
720 coc's 6288 - 6291	291	ENVIROTECH IN	CH INC.	Sample Receipt
		5796 U.S. Highway 64	ighway 64	Received Intact
		Farmington, New Mexico 87401 (505) 632-0615	2-0615	Cool - Ice/Blue Ice