DULCE, NEW MEXICO 87528

JICARILLA APACHE TRIBE ECEIVENTRONMENTAL PROTECTION OFFICE TO SUBMIT I COPY TO P.O. BOX 507

DEPUTY OIL & GAS INSPECTOR ISTRATION

AUG 1 3 1999

OIL GOIN. DIV.
DIST. 3 PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephone	e: (505)326=9200
Address: 200 Amoco Court, Farmington, M	NM 87401	
Facility or Well Name: TICARILLA A # 3	3	
Location: Unit or Qtr/Qtr Sec_/? Sec_/? T_Z	GN R 5W County RIO A	HEELK H
Pit Type: Separator Other Other		
Land Type: RANGE		
Pit Location: Pit dimensions: length	1	
Direction from reference: 31	Degrees X East	North
	West	
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) (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 No	(20 points) (0 points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, trigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)
-	RANKING SCORE (TOTAL	POINTS):

Date Remediation Sta	rted:	Date Completed:	11/30 98.
Remediation Method:	Excavation 🔀	Approx. cubic yards	630
(Check all appropriate sections)	Landfarmed ×	Insitu Bioremediation	
Scennsy	Other		
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) General Description of	~~~		
Groundwater Encount	ered: No Yes	Depth	
Closure Sampling:	Sample location <u>see Attache</u>		
attach sample results and diagram of sample	Sample depth14 (en	ST SIDEWALL)	
locations and depths)	Sample date 11/28/98	Sample time	0905
	Sample Results		
ıí	•	NO Water: Be	nzene (ppb)
	Total BTEX (ppm)	1.780 To	luene (ppb)
	Field Headspace (ppm)	<i>164.8</i> Et	hylbenzene (ppb)
			ral Xylenes (ppb)
Groundwater Sample:	Yes NoX	(If yes, attach sample re	esults)
I HEREBY CERTIFY KNOWLEGE AND BI	THAT THE INFORMATION ABO	VE IS TRUE AND COMP	LETE TO THE BEST OF MY
DATE	30 98 PRINTED N	IAME Buddy D. Sh	a w
SIGNATURE BUD.	ly S. Shaw AND TIT	- • •	al Coordinator
AFTER REVIEW OF	THE PIT CLOSURE INFORMATION APACHE TRIBE PIT CLOSURE OF	ON, PIT CLOSURE IS AI ORDINANCE.	PPROVED IN ACCORDANCE
APPROVED: YES 🔎	NO (REASON)	· · · · · · · · · · · · · · · · · · ·	<u> </u>
SIGNED:	Men DATE:	12-24-9	8

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: <u>6316</u>
FIELD REPORT: CLOSURE VERIFICATION	PACE No: / of /
QUAD/UNIT: A SEC: 19 TWP: 20N RNG: 5N PM: NM CNTY: RA ST:NM	DATE STARTED: // 28 .98 DATE FINISHED:
QTR/FOOTAGE: 900 N/990 E CONTRACTOR: P+5	ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 34 FT. x 28 FT. x 20 FT. DEEP. CUBIC DISPOSAL FACILITY: ON SITE REMEDIATION METHOD LAND USE: RANGE LEASE: SIC. A FOR	1
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 127' FT. 3	
SOIL AND EXCAVATION DESCRIPTION:	WATER: > /060° CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HARD, HE OFFICE BEDROCK (SHALE), MED. GRAY IN COLOR, HE OFFICE BEDROCK (SHALE), M	
O FT PIT PERIMETER AN PIT	PROFILE
OVM RESULTS SAMPLE FIELT: HEADSPACE FIELD: PID (ppm) 1	28:



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Oli I	Place / AMOCO	Project #:	04034-10
Client:	Blagg / AMOCO	•	11-30-98
Sample ID:	2 @ 14'	Date Reported:	
Laboratory Number:	E225	Date Sampled:	11-28-98
Chain of Custody No:	6316	Date Received:	11-30-98
Sample Matrix:	Soil	Date Extracted:	11-30-98
Preservative:	Cool	Date Analyzed:	11-30-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.8	0.2
Diesel Range (C10 - C28)	4.5	0.1
Total Petroleum Hydrocarbons	7.3	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 A #3 Separator Pit.

Analyst P. Offeren

Stacy W Sendler
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 14'	Date Reported:	11-30-98
Laboratory Number:	E225	Date Sampled:	11-28-98
Chain of Custody:	6316	Date Received:	11-30-98
Sample Matrix:	Soil	Date Analyzed:	11-30-98
Preservative:	Cool	Date Extracted:	11-30-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	8.8	
Toluene	54.2	8.4	
Ethylbenzene	199	7.6	
p,m-Xylene	1,060	10.8	
o-Xylene	467	5.2	
Total BTEX	1,780		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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 A #3 Separator Pit.

Analyst P. Officer

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

Remarks PRESERV. — Lant Date Time Sample Receipt N N N N N N N N N N N N N

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 P	RODUCTION	COMPANY	Telephone : (505) 326-9200	
Address: 200 Amod	co Court,	Farmington,	NM 87401	
Facility or Well Name	- JICARIL	LA A.3		
Location: Unit or Qt	r/Qtr SecA	Sec_ <u>19</u> T_	200 R5W County RIO ARRIBA	
Land Type: &A ~ C				
Date Remediation Start	ted: // 28	98	Date Completed:	
Remediation Method:	Landfarmed		Approx. cubic yards 620	
	Composted		•	
	Other			
Depth To Groundwater	r:	(pts.)o	Final Closure Sampling:	
Distance to an Epheme	ral Stream	(pts.)	Sampling Date: 6 199 Time: 1140	
Distance to Nearest La or Watering Pond	ke, Playa,	(pts.)	Sample Results:	
Wellhead Protection A	rea:	(pts.)	Field Headspace (ppm) 40.4	
Distance To SurfaceWa	iter:	(pts.)	TPH (ppm) 127 Method (80:5) Other	
RANKING SCORE (TOTAL POINTS):				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF				
DATE 6/2/99 PRINTED NAME Buddy D. Shaw				
SIGNATURE Bully J. 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 NO (REASON)				
SIGNED: 6-18-79				

P.O. BOX 87, BLO	NEERING, INC. OMFIELD, NM 87413 632-1199	LOCATION NO: 8569 0 C.O.C. NO: <u>7655</u>
FIELD REPORT: LANDFARM/COM	POST PILE CLOSURE	VERIFICATION
QUAD/UNIT: A SEC: 19 TWP: 200 RNG: 5W		DATE STARTED: 6 1 99 DATE FINISHED:
STRIFTED TAGE: NE/4 NE/4 CONTRACTOR:	_	ENVIRONMENTAL REP
ED _ REMEDIATION: REMEDIATION SYSTEM: LANDFARM	روعی APPROX. CUBIC Y	ARDAGE: <u>630</u>
LAND USE: RANGE	_ LIFT DEPTH (ft):	
	DESOUD PPM LESIVE, SLIGHTLY MOIST, F N LANDFARM AREA LSEE S RANGE FROM 6"-10". COL	IRM EXETCH BELOW) LECTED
SKETCH/SAMPLE LOCATIONS		
TOU STAINED AREAS	OVM RESULTS SAMPLE FIELD HEADSPACE ID LF-1 40.4 SCALE O FT	LAB SAMPLES ANALYSIS TIME RESULTS TPA (BOIS) 1/40 127
TRAVEL NOTES: CALLOUT: >	ONSITE: _ 6 . 1 . 9 9	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-02-99
Laboratory Number:	F445	Date Sampled:	06-01-99
Chain of Custody No:	7055	Date Received:	06-02-99
Sample Matrix:	Soil	Date Extracted:	06-02-99
Preservative:	Cool	Date Analyzed:	06-02-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	15.6	0.2
Diesel Range (C10 - C28)	111	0.1
Total Petroleum Hydrocarbons	127	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 A - 3 Landfarm. 5 Pt. Composite.

Analyst P. General

Stacy W Sendler

CHAIN OF CUSTODY RECORD

Client / Project Name **BAGG AMOCO Sampler:	8		Project Location LAUDIAL A. S. Clical No.	Awaraem 1 A. 3			ANALY	ANALYSIS / PARAMETERS			
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. Conta	TPH (8013					
12-1	6.1.99	1140	FHYS	Soil		1		75	PT. COMPOSITE	35/18	
								50,	SAHRE PRESERE	1	8
									0000		
Relinquished by: (dignature)				Date Time 6:2.99 7:15	Received by: (Signature)	gnature)	2	-	Date	Time	1 *
Relinquished by: (Signature)					Received by: (Signature)	gnature)					
Relinquished by: (Signature)					Received by: (Signature)	gnature)					
				ENVIROTECH IN	TECH	5		Sa	Sample Receipt		
				5796 U.S	5796 U.S. Highway 64			Received Intact	ntact	2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
				(505) 632-0615	(505) 632-0615	Ş		Cool - Ice/Blue Ice	ге <u>с</u> е	\	