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

DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

PIT REMEDIATION IN THE	OIL GON. DIV.
	Telephone: (505) 326-9200
Operator: AMOCO PRODUCTION COMPANY	Telephone:
Farmington, NM 8/401	
JICARILLA HPACHE # 102	, /OE
Versions Unit or Otr/Otr Sec K Sec 4 T 26N R 4W	County
Debudgeton Other BLOW	
Land Type:	
Pit Location: Pit dimensions: length 44',	width <u>47'</u> , depth <u>19</u>
(Attach diagram) Reference: wellhead X , other	
Factors from reference: /50/	
Direction from reference: Degree	es East North X
	West South
Less tha	in 50 feet (20 points)
Depth To Groundwater: 50 feet to Greater to Greater	than 100 feet (10 points) than 100 feet (0 points)
contaminants to seasonal high water elevation of	
groundwater)	an 100 feet (10 points)
Distance to an Ephemeral Stream Greater (Downgradient dry wash greater than	than 100 feet (0 points)
ten feet in width)	an 100 feet (10 points) 6
Downgradient lakes, playas and	than 100 feet (0 points)
livestock or wildlife watering ponds) Wellhead Protection Area:	Yes (20 points) One (10 points)
(Less than 200 feet from a private domestic water source, or: less than	No (o points)
1000 feet from all other water sources)	an 100 feet (20 points)
Distance To Surface water: (Horizontal distance to perennial Greater)	et to 1000 feet (10 points) r than 1000 feet (0 points)
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	
RANKING	

			RJ648 6	810W PIT
				10/1/98
Date Remediation Started: _				
	vation 🔀			1750
Check all appropriate Land	farmed <u>×</u>	Insitu	Bioremediation	
Other				
Remediation Location:	Onsite X Offsite	•		
(i.e. landfarmed onsite, name and location of				
office facility)		2	2	
General Description of Rem	edial Action: Exc	cavation, BEO	ROCK BOTTOM.	
Groundwater Encountered:	No 🔀	Yes Dept	h	
Final Pit: Sample	location see A	ttached Docume	nts	
Closure Sampling: (if multiple samples,			1	
attach sample results and diagram of sample Sample	depth 14	(NORTH SIDEW	pu)	,
locations and depths) Sample	date 9/29	198	Sample time 08	30
Sample	Results			
" Sc	il: Benzene	(ppm) <u>1.6∞</u>	Water: Benzene	(ppb)
	Total BTEX	(ppm) <u>43.350</u>	Toluene	(ppb)
	Field Headspace		Ethylbenze	ene (ppb)
	•	(ppm) <u>(,890</u>	Total Xyle	nes (ppb)
Groundwater Sample:	YesNo	(If yes, at	tach sample results)	
I HEREBY CERTIFY THAT	THE INFORMATI	ON ABOVE IS TRU	E AND COMPLETE	TO THE BEST OF MY
KNOWLEGE AND BELIEF				
	/o7 DD	INTED NAME BI	ıddy D. Shaw	
DATE 10/, SIGNATURE BURLY (/ 98 /	AND OVOUR E	nvironmental Co	ordinator
AFTER REVIEW OF THE F TO THE JICARILLA APAC	HE TRIBE PIT CLO	DSURE ORDINANC	15.	
APPROVED: YES 🔀 N	O (REASON	D)		· · · · · · · · · · · · · · · · · · ·
(CNED. X—C Y	\a Q	DATE: //-	18-98	•

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO: 6282
(505) 632-1199
FIELD REPORT: CLOSURE VERIFICATION PAGE NO: of LOCATION: NAME: JICA . AP. 102 WELL #: 10E PIT: BLOW DATE STARTED: 9/29/98 QUAD/UNIT: K SEC: 4 TWP: ZGN RNG: 4W PM: NM CNTY: LAP ST: NM ENVIRONMENTAL SPECIALIST: NV
OTP (FULL AGE: 170) FSL (1530 FW - CONTRACTOR: PCS
EXCAVATION APPROX. 44 FT. x 47 FT. x 9 FT. DEEP. CUBIC YARDAGE: 1750 DISPOSAL FACILITY: 00-5115 REMEDIATION METHOD: LANDFORM LAND USE: RANGE LEASE: JIC 102 FORMATION: DK
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150 FT. N68W FROM WELLHEAD. DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000' NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM SOIL AND EXCAVATION DESCRIPTION: TIBERGLASS TANK INSTALLED FIBERGLASS TANK INSTALLED
SOEWARY - SOUTH SOEWARE DUTKY RED LT. GRAY CURY FROM 9' TO PIT BOTTOM, NORTH OF EAST SIDEWARDS CONSISTED OF MOSTRY OK. YELL. SHAKE TO AK. YELL. BROWN STAND NON CONTESTIVE SLIGHTLY MUST, FIRM; WEST FIDEWARD CONSISTED OF OK. YELL. SHAKE TO DR. YELL. BROWN SAND Q TOP HALF, DUSKY RED LT. GAY CLAY @ BOTTOM HALF, STAININE WAS DESERVED PREDOMINATELY WIND MIDDLE 13 OF SIDEWARD STRING HE ODER IN GAST, SOUTH, I WEST SIDEWARD DUM SAMPLES.
BEDROX CLOSED BEDROX FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATION READING CALC. ppm SCALE SCALE
O FT PIT PERIMETER OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) SAMPLE FIELD HEADSPACE PID (ppm)
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LAB SAMPLES SAMPLE ANALYSIS TIME ID EIR' TPH BTEX 0830
(BOH) PASSO)



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO 1 @ 14' E006 6282 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	04034-10 10-01-98 09-29-98 09-30-98 09-30-98
Preservative: Condition:	Cool and Intact	Date Analyzed: Analysis Requested:	8015 TPH

Parameter	oncentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,330	0.2
Diesel Range (C10 - C28)	561	0.1
Total Petroleum Hydrocarbons	1,890	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 - 10E Blow Pit.

Analyst

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 14 '	Date Reported:	10-01-98
Laboratory Number:	E006	Date Sampled:	09-29-98
Chain of Custody:	6282	Date Received:	09-30-98
Sample Matrix:	Soil	Date Analyzed:	09-30-98
Preservative:	Cool	Date Extracted:	09-30-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,600	8.8
Toluene	8,980	8.4
Ethylbenzene	3,520	7.6
p,m-Xylene	20,050	10.8
o-Xylene	9,200	5.2
Total BTEX	43,350	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recov	ery/
	Trifluorotoluene	99	%
	Bromofluorobenzene	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 Apache #102 - 10E Blow Pit.

Analyst P. Ogecen

Review Stacy W Sendler

CHAIN OF CUSTODY RECORD

	\neq	Cool - Ice/Blue Ice	0615	Fairiiiig(oii, New Mexico 0770)			
	1	Received Intact C	hway 64	5796 U.S. Highway 64			
¥	z						
	eipt	Sample Receipt	CHICC	FOVIDOTECH IO		> 6283	20 COC'S 6280
			Received by: (Signature)	Rece			Relinquished by: (Signature)
			Received by: (Signature)	Rece		0	Relinquished by: (Signature)
C209	1	9-3098	Received by: (Signature)	Date Time Recei		61	Relinquished by (Signature)
	-						
8	B	Mester.	\ < <	2017	E006	98 0830	() @ 14' p/29/98
)		Sample Matrix	Lab Number	ole Sample B Time	Sample No./ Sample Identification Date
			o. of tainers	61-70	01-7-8070		Sample: NTV
	द्ध	Remarks		THORE THE IDE	Client No.	,	Sampler:
		WETERS	ANALYSIS / PARAMETERS	Brow PIT	_	•	Client / Project Name

BJ 648

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

TRADUCTION COMPANY	Telephone:	(505)326-9200	-
Operator: AMOCO PRODUCTION COMPANY			
Address: 200 Amoco Court, Farmington,	NM 87401		
THORNIA APPORTE # 102 - 102			
Facility or Well Name:	r ZEN R 4W County RIO	9RR1 8A	
Location: Unit or Qtr/Qtr Sec Sec			
Pit Type: Separator X Dehydrator Other_			_
Land Type:			
Land Type: RANGE		·	
Dit Location: Pit dimensions: length_	33', width 20'	, depth	
Pit Location: Pit dimensions: length_ (Attach diagram) P. Samper, wellhead X			:
Reference: wellhead X	_, other		
Footage from reference:	150'		
Direction from reference:	Degrees X East of	NorthX_	
Breenan	West	South	
		(20 inta)	:=:=:
Depth To Groundwater:	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)	
(Vertical distance from Greater than 100 feet (O points)			
contaminants to seasonal high water elevation of			
groundwater)	Less than 100 feet	(10 points) >	
Distance to an Ephemeral Stream	Greater than 100 feet	(0 points)	_
(Downgradient dry wash greater than			
Distance to Nearest Lake, Playa, or Watering Pon	d Less than 100 feet	(10 points) > (0 points)	
Il (Downgradient lakes, Diayas and	Greater than 100 feet	(0)/0000	_
livestock or wildlife watering ponds)	Yes	(20 points)	
Wellhead Protection Area:	No	(0 points)	
(Less than 200 feet from a private domestic water source, or: less than			
1000 feet from all other water sources)	Less than 100 feet	(20 points)	
Distance To SurfaceWater: (Horizontal distance to perennial	100 feet to 1000 feet	(10 points) (0 points)	:
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(Openius)	_
irrigation canals and ditches)		_	
	TOTAL	T DOINTC).	

BJ648 SER. PIL

		Date Completed:	9/29/98
Date Remediation St	arted:		
Remediation Method:	Excavation	Approx. cubic yards	
Check all appropriate (a sections)	Landfarmed 🔀	Insitu Bioremediation	
	Other		
Remediation Location	onsite X Offsite		
(i.e. landfarmed onsite,			
name and location of offsite facility)			
General Description	of Remedial Action: Excavation.	EXCRUPTION MOSTLY	BEDROCK,
THEREFORE	NO THE ANALYSIS WAS COND	HETED. BISK ASSESS	ED.
	ntered: No X Yes		
Final Pit:	Sample locationsee Attached D	ocuments	
Closure Sampling: (if multiple samples,			
attach sample results and diagram of sample	Sample depth 7' South	SIDEURLE)	
locations and depths)	Sample date 9/29/98	Sample time	0930
	Sample Results		
и	Soil: Benzene (ppm)	Water: Benzene	(ppb)
	Total BTEX (ppm)		(ppb)
	Field Headspace (ppm) 75		zene (ppb)
			• •
	TPH (ppm)		ienes (pps)
Groundwater Sample	: Yes No _X (If	yes, attach sample results)	
I HERERY CERTIFY	THAT THE INFORMATION ABOVE 1	IS TRUE AND COMPLETI	E TO THE BEST OF MY
KNOWLEGE AND B	ELIEF	•	
D A COPE	9/29/98 PRINTED NAM	r Buddy D. Shaw	
\mathcal{P}		Environmental C	oordinator
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFORMATION, APACHE TRIBE PIT CLOSURE ORD	INANCE.	VED IN ACCORDANCE
APPROVED: YES 2	\times no _ (reason) ${\sim}$ ${\sim}$	Attached	
CNED:	CMall DATE:	11-18-98	· · · · · · · · · · · · · · · · · · ·
SIGNED:		<u> </u>	

CLIENT: AMOCO P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 57648
FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: JICA. AP. 102 WELL #: 10E PIT: SEP QUAD/UNIT: K SEC: 4 TWP: Z60 RNG: 40 PM: NM CNTY: RA ST: NM QTR/FOOTAGE: 1700 FSL 1530 FWL CONTRACTOR: PLS	PAGE No: of DATE STARTED:9/29/98 DATE FINISHED: ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 33 FT. x 70 FT. x 12 FT. DEEP. CUBIC DISPOSAL FACILITY: 00-51TE REMEDIATION METHOL LAND USE: 40-50E LEASE: JIC 107 FOR	RMATION: DK OLOE FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM SOIL AND EXCAVATION DESCRIPTION: EXCAVATION CONTISTED OF MOSTLY DUSKY RED/ IT. GR SOFT NEAR GROUND SURFACE TO VERY HARD C PIT BOTH STAINING OBSERVED OR HE ODOR OFFECTED W/N EXCAVA ODOR IN NORTH, SONTH, IT WEST SIDEWALL DUM SAMPLES	PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED BEDROCK SHALE)
EXCAURTION PIECE ASSESSED FIELD 418.1 CALCULATIONS BEDREX TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON D	
SCALE O FT PIT PERIMETER N OVM RESULTS A TANK SAMPLE FIELD HEADSPACE PID (ppm) PIT PERIMETER N OVM RESULTS A	PROFILE A'
2 @ 6' 31.0 3 @ 7' 754 4 @ 7' 702 5 @ 11' 12.9	3'IF IG
TRAVEL NOTES: CALLOUT: ACTION AT TO LAB SAMPLES SAMPLE ANALYSIS TIME ID ANALYSIS TIME ONSITE: 9/29/98-	·morn.

Well Name:
Well Site location:
Pit Type:
Producing Formation:
Pit Category:
Horizonal Distance to Surface Water:
Vicinity Groundwater Depth:

Jicarilla Apache 102 #10E Unit K, Sec. 4, T26N, R4W Separator Pit Basin Dakota Non Vulnerable > 1000 ft. > 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered shale bedrock at 11 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Past production fluids were contained locally by a relatively shallow shale bedrock located 11 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale bedrock.
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 0.90 miles south southeast of the nearest vulnerable area boundary (Jaramillo Canyon wash).

(Refer to <u>Vigas Canyon Quadrangle</u>, New <u>Mexico</u> - Rio Arriba County, 7.5 Minute Series (<u>Topographic</u>), photorevised 1982, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

BJ48 SUBMIT 1 COPY TO NATURAL RESOURCE DEPI

AND OIL & GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION C	COMPANY	Telephone: (505) 326-9200							
Address: 200 Amoco Court, Farmington, NM 87401									
Facility or Well Name: <u>ろにABLL</u>	Facility or Well Name: JICAPILLA APACHE 102 - 10E								
Location: Unit or Qtr/Qtr Sec	Sec4 T	BN R4W County RO AKRIBA							
Land Type: RANGÉ									
		, /							
Date Remediation Started: 9 - 29	98	Date Completed:4/19/99							
Remediation Method: Landfarmed	<u></u>	Approx. cubic yards 2,550							
Composted									
Other									
epth To Groundwater:	(pts.)	Final Closure Sampling:							
Distance to an Ephemeral Stream	(pts.)	Sampling Date: 4-1599 Time: 1010							
Distance to Nearest Lake, Playa,	(ntn) 0	Sample Results: (LF-1)							
or Watering Pond	(pts.) <u>0</u>	Field Headspace (ppm) ZO3.3							
Wellhead Protection Area:	(pts.)	TPH (ppm) 34.0 Method 8015							
Distance To SurfaceWater:	(pts.)	Other BENZENE = 0.522 ppm							
RANKING SCORE (TOTAL POINTS): 0 Tot. 87EX 6.590 ppm									
		E IS TRUE AND COMPLETE TO THE BEST OF MY							
DATE 4/19/99	PRINTED N	IAME 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 X NO X	(REASON)								
,	\bigcap								
SIGNED: Le C'Man	DATE	6-18-99							

DIAGG ENGINEEDING INC
SLIENT AMOCO BLAGG ENGINEERING, INC. LOCATION NO. ESCAS
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199 C.U.C. NO. 2051
FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION
DATE STARTED: 4.15.49 NAME SICARILLA APACHE 102 WELL #: 10E PITS: SEP, BLOW DATE STARTED: 4.15.49 DATE FINISHED:
QUADAUNIT: K SEC: 4 TWP: 2600 RNG: 4N PM: NIM CNTY: PA ST: NIM ENVIRONMENTAL SPECIALIST: PEP
SIL REMEDIATION:
REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 2,550
LAND USE: RANGE LIFT DEPTH (ft):
FELT NOTES & REMARKS:
TEFT TO GROUNDWATER: 2/00 NEAREST WATER SOURCE: 2/000 NEAREST SURFACE WATER: 2/000 NEAREST SURFACE WATE
MOST RAMKING SCORE - NMOCD THE CLOSURE STDE 5000 PPM From 102-4
NO APPARENT STAINING, SOME HC ODOR DETECTED IN SAMPLING PTS.
B. D. B IN LANDFARM AREA " I. SAMPLING DEPTHS RANGE FROM 6"- 18". TOOK SPT. COMPOSITE SAMPLES FROM BOTH LENDFARM AREAS FOR
TOOK SPT. COMPOSITE SEPTECES PROM BOTT THE TOTAL STATE OF THE SEPTECES PROM BOTT THE TOTAL STATE OF THE SEPTECES PROM BOTT THE TOTAL STATE OF THE SEPTECES PROM BOTT THE SEPTECES PROM
CLOSED)
FIELD 418.1 CALCULATIONS
SAMP. TIME SAMPLE I.D. LAB No: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm
SKETCH/SAMPLE LOCATIONS
LANDFARM PREAMIN 7 30
OVM RESULTS LAB SAMPLES
SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS ID TPH COME
\sim 1 1 1 1 1 1 1 1 1 1
27. 203.3 27 (8015) 170 522 p.b. (8015) 170 522 p.b. (8015) 170 522 p.b. (8015) 170 6590 ppb
LF-Z (80%) 1010 /Z.Z
9 / 1 / ()
The Constraint of the Constrai
AREA#2
SCALE
TRAVEL NOTES: CALLOUT: WAS ONSITE: 4.15.99



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 F049 6887 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 04-19-99 04-15-99 04-16-99 04-19-99 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	16.0	0.2
Diesel Range (C10 - C28)	18.0	0.1
Total Petroleum Hydrocarbons	34.0	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 - 10E Landfarm. 5 Pt. Composite.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix:	Blagg / AMOCO LF - 2 F050 6887 Soil	Project #: Date Reported: Date Sampled: Date Received: Date Extracted:	403410 04-19-99 04-15-99 04-16-99 04-16-99
Preservative: Condition:	Cool Cool and Intact	Date Analyzed: Analysis Requested:	04-19-99 8015 TPH

Parameter Gasoline Range (C5 - C10) Diesel Range (C10 - C28)	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.5	0.2
Diesel Range (C10 - C28)	7.7	0.1
Total Petroleum Hydrocarbons	12.2	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 - 10E Landfarm. 5 Pt. Composite.

holen L. Ceferen

Review Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody:	Blagg / AMOCO LF - 1 F049 6887	Project #: Date Reported: Date Sampled: Date Received:	403410 04-19-99 04-15-99 04-16-99
Sample Matrix:	Soil	Date Analyzed:	04-19-99
Preservative: Condition:	Cool & Intact	Date Extracted: Analysis Requested:	04-16-99 BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)		
Benzene	522	8.8		
Toluene	2,130	8.4		
Ethylbenzene	462	7.6		
p,m-Xylene	2,090	10.8		
o-Xylene	1,390	5.2		
Total BTEX	6,590			

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery			
	Trifluorotoluene	100 %			
	Bromofluorobenzene	100 %			

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 Apache 102 - 10E Landfarm. 5 Pt. Composite.

Cer

CHAIN OF CUSTODY RECORD

				Relinquished by: (Signature)		Relinquished by (Signature)						15-2 4.1597 1010	LF-1 4.1591 0940	Sample No./ Sample Sample Identification Date Time	Sampler: REP	Client / Project Name BLALIS / AMOCO
					!							Toso	Phot o	He Lab Number	Client No. の 403 4-10	Project Location CANDFARY SKAPULA APACHE 107
Farmington, New Mexico 67401	5796 U.S. Highway 64		EOVIDOTECH IOC	R	Re	Date Time Re				·		2011	5010	Sample Matrix	-10	Project Location CANDFARY SKAPILLA APACHE 102-10E
v Mexico 8740 i 32-0615	lighway 64		ICH DC	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)						_	7 7		lo. of ntainers	ANALYSIS / PARAMETERS
Cool - Ice/Blue Ice	Received Intact	≺	Sample Receipt			4.16.99 8	-			2001	SAMRES PRESERVE		SPILATION		nellans	
		- X				8:10					01/2			\		