JICARILLA APACHE TRIBE

JUL 1 3 1999

JUL 1 3 1999

JICARILLA APACHE TRIBE

P.O. BOX 507

DULCE, NEW MEXICO 87528

BJ691

COM DITTO

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

The second of th	
DROPHOMION COMPANY	Telephoneysos), 375-277-00
Operator: AMOCO PRODUCTION COMPANY	DEPUTY OIL & GAS INSPECTOR
Address: 200 Amoco Court, Farmington,	NM 87401
Facility or Well Name: TICARILLA A	# 46
Location: Unit or Qtr/Qtr Sec_D Sec_19 T	220 RSW County NO ARRIBA
Pit Type: Separator Dehydrator Other	PRODUCTION TANK FILM DUTCH
Land Type: RAGE	
THE LOCATION.	Z ¹ , width\3', depth 5 ¹
(Attach diagram) Reference: wellhead X	, other
Footage from reference:	
Direction from reference:	25 Degrees East North
	West South X
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
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)
H.	RANKING SCORE (TOTAL POINTS):

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 6297
LOCATION: NAME: JICARILLA A WELL #: 4 E PIT: PROD	DAGE NO: _' of _' DATE STARTED:
EXCAVATION APPROX. 12 FT. x 13 FT. x 5 FT. DEEP. CUBIC DISPOSAL FACILITY: 0N SITE REMEDIATION METHOD LAND USE: PANGE LEASE 51C. A FOR	MATION: DK
SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
BEDROCK RESESSED FIELD 418.1 CALCULATIONS	₽∆
SCALE O FT PIT PERIMETER OVM TIME SAMPLE I.D. LAB No: WEIGHT (g) ml. FREON DIL OVM	PROFILE
RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 2 3' 0.0 2 6 3' 0.0 3 2 2' 0.0 4 2 3' 0.0 5 2 5' 141 5 DIR.	SOROCK (35)

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

Jicarilla A #4E
Unit D, Sec. 19, T26N, R5W
Production Tank Pit
Basin Dakota
Non Vulnerable
> 1000 ft.
> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 5 feet below grade.

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

- Past production fluids were contained locally by a relatively shallow sandstone bedrock located 5
 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at
 a much greater depth below sandstone bedrock.
- 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.
- Well site located within the <u>non-vulnerable area</u> and is approximately 0.06 miles east of the nearest vulnerable area boundary (Albert Canyon wash).

(Refer to <u>Gonzales Mesa Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).</u>

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone 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.



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

	once	ntration	Det. Limit
Condition:	Cool and Intact	Analysis Needed:	1711-410.1
Preservative:	Cool	Date Analyzed:	11-30-98 TPH-418.1
Sample Matrix:	Soil	Date Extracted:	11-30-98
Chain of Custody No:	6297	Date Received:	11-30-98
Sample ID: Laboratory Number:	E227	Date Sampled:	11-28-98
Client:	4 @ 3'	Date Reported:	11-30-98
Oli ak	Blagg / AMOCO	Project #:	04034-10

Total Petroleum	Hydrocarbons
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18.9

(mg/kg)

5.0

(mg/kg)

ND = Parameter not detected at the stated detection limit.

References:

Parameter

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla A #4E Production Tank Pit.

Analyst

Review Stacy W Sendler

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington, N	IM 87401
Desility on Wall Name: JICARILLA A	# 4E
Location: Unit or Qtr/Qtr Sec D Sec 19 T 2	ROW County KIO FACTORIA
Pit Type: Separator X Dehydrator Other	
Land Type: RAAGE	
I IL LACATION.	zs', width 36', depth 4'
(Attach diagram) Reference: wellhead X,	other
Footage from reference:	5 Fact North X
Direction from reference:/	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)
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):

8T691 SEP. PIT

	1/20/98:
Date Remediation St	arted: Date Completed://30/98.
Remediation Method:	Excavation Approx. cubic yards
(Check all appropriate sections)	Landfarmed Insitu Bioremediation
	Other
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	
General Description	of Remedial Action: Excavation, Bradex Reffer
Groundwater Encoun	tered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents
attach sample results and diagram of sample	Sample depth 3' (SOLOTH SIDGWALL)
locations and depths)	Sample date $\frac{11/28/98}{}$ Sample time $\frac{1015}{}$
	Sample Results
ıl.	Soil: Benzene (ppm) 4.530 Water: Benzene (pph)
	Total BTEX (ppm) 53.620 Toluene (ppb)
	Field Headspace (ppm) /3/-1 Ethylhenzene (ppb)
	TPH (ppm) 3,630 Total Xylenes (ppb)
Groundwater Sample	
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY BELIEF
DATE	n/30/98 PRINTED NAME Buddy D. Shaw
SIGNATURE BUS	My Some AND TITLE Environmental Coordinator
ARTER REVIEW OF	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES	X NO_ (REASON) R-A. Attached
SIGNED:	-CM an CODATE: 12-28-98

LIENT: AMOCO	BLAGG ENGIN P.O. BOX 87, BLOOM	EERING, INC. MFIELD, NM 8	~ 4 4 0	ION NO 8369/
	(505) 63	2-1199	! (.U.C. NG SCI
FIELD REPO	RT: CLOSURE	VERIFICAT		No: _/ of _/
CATION: NAME: SICAR	LA A WELL #: 4 É	PIT: SEP.		rarted: //·28 98 NISHED:
QUAD/UNIT: D SEC: /	7 TWP: 20N RNG: SW F	P+5	ENVIRON SPECIAL	IMENTAL IST:
CAVATION APPROX 2	5 FT x 36 FT x 6	FT. DEEP.	CUBIC YARD	AGE: 150
SPOSAL FACILITY: _G AND USE:	LEASE:	REMEDIATION	METHOD: 22.	N: DK
ID NOTES & REMA	RKS: PIT LOCATED APPRO	XIMATELY 75	FT. N 77%	✓ FROM WELLHEAD
PTH TO GROUNDWATER: >/	NEAREST WATER SOURCE: 2	NEARES	ST SURFACE WATER CHE	CK DNE
OCD PANKING SCORE:	NMOCD THE CLOSURE STDE	ррм	PIT AE	TANK INSTALLED
DIL AND EXCAVAT	TIN DESCRIPTION			LASS TANK INSTALLE
BOTTOM - BEL HC.	ROCK (SANDSTONE) MED. G ODOR DETECTED IN OUM S	DRAY IN COLOR, VI SAMPLE	ery hard	
HC.	ODOR DETECTED IN OUM S	BAMPLE		
HC.	N ASSESSED	FIELD 418.1 CALCUL WEIGHT (g) mL.	ATIONS	READING CALC. ppm
BEDROCK Kis	N ASSESSED	ETEL D. 4181 CALCUL	ATIONS	READING CALC. ppm
BEDROCK RODOM SCALE	N ASSESSED	ETEL D. 4181 CALCUL	ATIONS FREON DILUTION	
BEDROCK KISS BEDROCK BENCH SCALE FT	TIME SAMPLE I.D. LAB N	FIELD 418.1 CALCUL to: WEIGHT (g) mL.	ATIONS FREON DILUTION	READING CALC. ppm
BEDROCK KISS BEDROCK BENCH SCALE FT	TIME SAMPLE I.D. LAB N METER OV RESU	FIELD 418.1 CALCUL IO: WEIGHT (g) mL. M ULTS	ATIONS FREON DILUTION	
BEDROCK BOTIOM SCALE PIT PERIL TO WELLHEAD A TOWNSLEPE O A	TIME SAMPLE I.D. LAB N METER/ OV RESU SAMPLE 1 @ 3	FIELD 418.1 CALCUL Io: WEIGHT (g) mL. M ILTS THE THE TRANSPACE (ppm) W.O.	ATIONS FREON DILUTION PIT PRO	OFILE
BEDROCK BOTIOM SCALE PIT PERII TO WELLHEAD A TOWNSLEPE O A	TIME SAMPLE I.D. LAB N RETERA OV RESU SAMPLE 1 @ 3' 2 @ 3' 4 @ 3' 4 @ 3'	FIELD 418.1 CALCUL IO: WEIGHT (g) mL. M ILTS FIELD HADSPACE PID (Appm.) 119.5 131.1 67.3	ATIONS FREON DILUTION	OFILE
BEDROCK BOTIOM SCALE PIT PERI TO WELLHEAD A DUNSLIPE O A	TIME SAMPLE I.D. LAB N RESU SAMPLE I.D. SAMPLE I.D. LAB N RESU SAMPLE I.D.	FIELD 418.1 CALCUL IO: WEIGHT (g) mL. M ILTS IELD HEADSPACE PID (ppm) 4.0 119.5 731.1	ATIONS FREON DILUTION PIT PRO	OFILE
BEDROCK BONOM SCALE O FT PIT PERI TO WELLHEAD A DUNSLIPE DIR.	TIME SAMPLE I.D. LAB N WETER OV RESU SAMPLE 1 @ 3' 2 @ 3' 3 @ 3' 4 @ 3' 4 @ 3'	FIELD 418.1 CALCUL IO: WEIGHT (g) mL. M ILTS FIELD HADSPACE PID (Appm.) 119.5 131.1 67.3	ATIONS FREON DILUTION PIT PRO 36	OFILE
BEDROCK BOTTOM SCALE OFT PIT PERIL TO WELLHEAD A OWNSLIPE DIR.	TIME SAMPLE I.D. LAB N OV RESU SAMPLE ID 1 @ 3' 2 @ 3' 4 @ 3' 5 @ 6'	FIELD 418.1 CALCUL IO: WEIGHT (g) mL. M ILTS FIELD HADSPACE PID (Appm.) 119.5 131.1 67.3	ATIONS FREON DILUTION PIT PRO	OFILE
BEDZOCK RIS BEDZOCK BETTOM SCALE OFT PIT PERI TO WELLHEAD OWNSLIPE DIR. B	TIME SAMPLE I.D. LAB N WETER OV RESU SAMPLE 10 20 31 40 31 50 LAB SA SAMPLE ID LAB SA SAMPLE ID LAB SA SAMPLE ID LAB SA SAMPLE ID LAB SA	FIELD 418.1 CALCUL IO: WEIGHT (g) mL. M ILTS FIELD HEADSPACE PID (ppm) 4.0 1/3.1 67.3 135.4	ATIONS FREON DILUTION PIT PRO 36	OFILE
BEDROCK RIS BOTTOM SCALE O FT PIT PERI TO WELLHEAD A OWNSLIPE DIR. B A A	TIME SAMPLE I.D. LAB N RESU SAMPLE I.D. LAB N RESU SAMPLE I.D. LAB N RESU SAMPLE I.D. LAB N A B 3' A B	FIELD 418.1 CALCUL IO: WEIGHT (g) mL. M ILTS IELD HADSPACE PID (Appm) 67.3 135.4 MPLES YSIS TIME BIEK 1015	ATIONS FREON DILUTION PIT PRO 36	OFILE

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla A #4E

Unit D, Sec. 19, T26N, R5W Separator Pit

Basin Dakota Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 6 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 sandstone bedrock located 6 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone 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 0.06 miles east of the nearest vulnerable area boundary (Albert Canyon wash).

(Refer to <u>Gonzales Mesa Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).</u>

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone 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.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 11-30-98 11-28-98 11-30-98 11-30-98 11-30-98 8015 TPH
	Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,810	0.2
Diesel Range (C10 - C28)	816	0.1
Total Petroleum Hydrocarbons	3,630	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 #4E Separator Pit.

Analyst P. Oglice

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO 3 @ 3'	Project #: Date Reported:	04034-10 11-30-98
Sample ID:	E228	Date Sampled:	11-28-98
Laboratory Number: Chain of Custody:	6297	Date Received:	11-30-98
Sample Matrix:	Soil	Date Analyzed:	11-30-98
Preservative:	Cool	Date Extracted:	11-30- 9 8
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	4,530	8.8
Toluene	5,040	8.4
	3,920	7.6
Ethylbenzene	26,080	10.8
p,m-Xylene o-Xylene	14,050	5.2
Total BTEX	53,620	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	96 % 96 %

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.

Jicarilla A #4E Separator Pit. Comments:

Stacy W Sendler

CHAIN OF CUSTODY RECORD

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

SUBMIT 1 COPY TO

NATURAL RESOURCE DEP1

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: 512ARILLA	1 A 4E	
Location: Unit or Qtr/Qtr Sec	Sec_ ⁾⁹ T_2	GN REW County RIO ARRIGA
Land Type: RANGE		
Date Remediation Started:// 2	898	Date Completed: 6/4/99
Remediation Method: Landfarmed		Approx. cubic yards
Composted		
Other		
Depth To Groundwater:	(pts.) _ 0	Final Closure Sampling:
Distance to an Ephemeral Stream	(pts.)	Sampling Date: 6.2.99 Time: 0910
Distance to Nearest Lake, Playa, or Watering Pond	(pts.)	Sample Results: Field Headspace (ppm) 427
Wellhead Protection Area:	(pts.)	TPH (ppm) 325 Method 8021
Distance To SurfaceWater:	(pts.)	Other BENZENE 0.0582 PPM
RANKING SCORE (TOTAL POIN	TS): <u>0</u>	TOT. BIEX 4.200 ppm
I HEREBY CERTIFY THAT THE INFO KNOWLEGE AND BELIEF	RMATION ABOVE	IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 6/4/99	, PRINTED N	AME Buddy D. Shaw
SIGNATURE Bully J. S	haw	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REME ACCORDANCE TO THE JICARILLA	DIATION INFORM APACHE TRIBE PIT	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.
APPROVED: YES X NO	(REASON)	<u> </u>
signed: La CMe	DATE:	6-18-99

CLIENT: <u>AMOCO</u>	BLAGG : P.O. BOX 87		FIELD, 1					8569 · 7058
FIELD REPORT:	LANDFARM/	COMPOS	ST PILE	CLOS	JRE '	VERIF	ICAT	ION
QUAD/UNIT: D SEC:	LA A WELL 9 TWP: 26N RNG:	_ #: 4E 5w PM:	PITS: SE	PROD.	NM D	ATE STARTE ATE FINISH NVIRONMEN PECIALIST:	ED: <u>4</u>	2 92
SOIL REMEDIATION:	CONTR	ACTOR.						1
REMEDIATION SYS	STEM: LANDFAR	k.1	APPR	OX. CUE	BIC YAI	RDAGE:	_17	<u>u</u>
LAND USE:	RANGE		LIFT	DEPTH	(ft):		_	
FELD NOTES & REMA	RKS:				-			
DEFTH TO GROUNDWATER: 21	00 NEAREST WATER	SOURCE: ≥	1000	NEAREST S	URFACE	WATER: <u></u>	100	0'
NMSSI RANKING SCOREC	NMOCD TPH CLO	SURE STD: 50	000 PPM					
SAMPLING DEPTHS A SAMPLE FOR LAS	3 ANALYSIS. CLOSED	(ELD 418.1 C	ALCULATION	2			·	
SAMP. TIME S	SAMPLE I.D. LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. PI	pm	
						 		
					·			
SUPPLIED AND	U.D. LOCATIONS							
SKEICH/ SAMP	LE LOCATIONS		OVM RES	ULTS HEADSPACE (ppm)	SAMPLE ID	AB SA	MPL TIME	ES
T	27.	2	.F. 1 4	27 /	Fil	(8015)	0910	325
		\rightarrow $\mid \mid$			73	BENZENE TOT, STEX	"	58.2 ppb
®		>				101, 61EA		
		/				İ		1
		;						

TRAVEL NOTES: CALLOUT: _______ ONSITE: _______ ONSITE: ________

SCALE 0

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 F448 7058 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 06-04-99 06-02-99 06-03-99 06-03-99 06-04-99 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	203	0.2
Diesel Range (C10 - C28)	122	0.1
Total Petroleum Hydrocarbons	325	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 - 4E Landfarm. 5 Pt. Composite.

Deur L. Gener

Review Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

		5	403410
Client:	Blagg / AMOCO	Project #:	
Sample ID:	LF - 1	Date Reported:	06-04-99
Laboratory Number:	F448	Date Sampled:	06-02-99
Chain of Custody:	7058	Date Received:	06-03-99
Sample Matrix:	Soil	Date Analyzed:	06-04-99
Preservative:	Cool	Date Extracted:	06-03-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	58.2	8.8
Toluene	763	8.4
Ethylbenzene	492	7.6
p,m-Xylene	2,300	10.8
o-Xylene	591	5.2
Total BTEX	4,200	

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 A - 4E Landfarm.

5 Pt. Composite

Deur L. Geen

Stacy W Sendler

CHAIN OF CUSTODY RECORD

	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (\$ignature)					LF-1 629 0910	Sample No./ Sample Sample Identification Date Time	REP		Client / Project Name R) A(A) / AMOCO
								8443	Lab Number	403 41 D	TI CAR	Project Location 4
ENVIROTECH INC 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615	Re		Date Time Re			- Additional to		5012	Sample Matrix)	Project Location CANDFARM T. CAPULA A AE
Highway 64 W Mexico 87401 92-0615	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)					7 7				ANALYSIS / PARAMETERS
Sample Receipt Y N N/A Received Intact			6.3.99 8:30	-		7007	SAMPLE PRESERVE	SPT. COMPOSITE		- Tanana		IAMETERS