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

0100

PIT REMEDIATION AND CLOSURE REPORT

<u>PIT REMEDIATION AN</u>	CHOREN CONTRACTOR CONT
W/AN - vu (nevabl	e proctical extent GOW DITTO
	Telephone: (505)326-9200
Operator: AMOCO PRODUCTION COMPANY	
Address: 200 Amoco Court, Farmington, N	М 87401
Jearing Co,	JEACT #146-10E
Location: Unit or Qtr/Qtr Sec_ \(\frac{\xi}{2}\) Sec_ \(\frac{9}{2}\) T\(\frac{2}{2}\)	SN R5W County RID ARRIBA
Location: Unit or Qtr/Qtr Sec Sec	
Pit Type: Separator Dehydrator Other	BLOW
Land Type: RANGE	1
Land Type:	
Pit Location: Pit dimensions: length_	45', width_ 45'_, depth_ 14'
III IA/Caliviii	other
Reference: Weilhead,	<u></u>
Footage from reference: 25	4 Degrees × East North ×
Direction from reference:	of
1	West South
	Less than 50 feet (20 points)
Depth To Groundwater:	50 feet to 99 feet (10 points)
(Vertical distance from contaminants to seasonal	Greater than 100 feet (0 points)
high water elevation of groundwater)	
Distance to an Ephemeral Stream	Less than 100 feet (10 points) Greater than 100 feet (0 points)
(Downgradient dry wash greater than	Greater than 100 feet (0 points)
ten feet in width)	Less than 100 feet (10 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and	Greater than 100 feet (0 points)
livestock or wildlife watering ponds)	Yes (20 points)
Wellhead Protection Area:	Yes (20 points) 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:	100 feet to 1000 feet (10 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet (0 points)
irrigation canals and ditches)	
	RANKING SCORE (TOTAL POINTS):

		87623	BLOW PIT
		Q. Judda	9/4/98
Date Remediation Sta	rted:	Approx. cubic yards	400
emediation Method:	Excavation	Approx. come jum.	
_heck all appropriate sections)	Landfarmed		
	Other		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite		
General Description	of Remedial Action: <u>Exc</u>	avacion	
Groundwater Encoun	tered: No X	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample locationsee At Sample depth	(рп вопот)	1030
	Sample Results Soil: Benzene Total BTEX Field Headspace	(ppm) Water: Ber (ppm) To (ppm) Ett	nzene (ppb) luene (ppb) nylbenzene (ppb) al Xylenes (ppb)
Groundwater Sampl		(If yes, attach sample re	
I HEREBY CERTIF KNOWLEGE AND I	Y THAT THE INFORMATION SELIEF	ON ABOVE IS TRUE AND COMI	PLETE TO THE BEST OF M
DATE	9/4/98 PR	INTED NAME Buddy D. Sh	aw al Coordinator
SIGNATURE (Sub	Ily D. Shaw	AND TITLE ENVIRONMENT	PROVED IN ACCORDANCE
TO THE JICARILL	A APACHE TRIBETTI OF		
APPROVED: YES	X NO (REASON	n)	· · · · · · · · · · · · · · · · · · ·
SIGNED:	= C Maull	DATE:	

3003922179 LOCATION NO: 87623 BLAGG ENGINEERING, INC. CLIENT: AMOCO P.O. BOX 87, BLOOMFIELD, NM 87413 C. []. C. N[]: _____ (505) 632-1199 FIELD REPORT: CLOSURE VERIFICATION PAGE No: __ of __! DATE STARTED: 9/4/98 LOCATION: NAME: JICA CONTR. 146 WELL #: 10€ PIT: BLOW DATE FINISHED: _ QUAD/UNIT: E SEC: 9 TWP: 250 RNG: 50 PM: NM CNTY: RA ST:NM ENVIRONMENTAL QTR/FOOTAGE: 1520 FAL 1030 FWL CONTRACTOR: PAS SPECIALIST: _ EXCAVATION APPROX. 45 FT. x 45 FT. x 14 FT. DEEP. CUBIC YARDAGE: 400 DISPOSAL FACILITY: 60 - 51TE REMEDIATION METHOD: LANDFRRY LAND USE: RANGE LEASE: JIC 146 FORMATION: DK FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY _ 255 FT. NOTE FROM WELLHEAD. DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000 NEAREST SURFACE VATER: >1000' NMOCD RANKING SCORE: D NMOCD TPH CLOSURE STD: 5000 PPM ✓ PIT ABANDONED ___ STEEL TANK INSTALLED SDIL AND EXCAVATION DESCRIPTION: ____ FIBERGLASS TANK INSTALLED ENTIRE EXCAUATION CONSISTED OF DK. YELL DRANGE JAND, NON COHESIVE, ELIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HE ODOR OBSERVED DETECTED WITH EXCAUATION, NO APPARENT HE DOOR IN ANY OF THE DUM SAMPLES. FIELD 418.1 CALCULATIONS WEIGHT (9) mL. FREON DILUTION READING CALC. ppm CLOSED LAB No: SAMPLE I.D. TIME ND (3)@16' TPH - 2029 1030 SCALE FT PIT PERIMETER N A' OVM SUPE SUPE RESULTS DEEPEST AREA DIRECTION OF EXCAUATION FIELD HEADSPACE PID (ppm) SAMPLE 0.0 10 0 0.0 3 ¥ 70 بالعان HEAD LAB SAMPLES 45' ____ ONSITE: 9/4/98 -moln. TRAVEL NOTES: CALLOUT: _____

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

Sample ID: Project Location: 5 @ 16'

Jicarilla Contract # 146 - 10E

Project Location: JIC Laboratory Number: TP

TPH-2029

Project #:

Date Analyzed:

09-04-98 09-04-98

Date Reported: Sample Matrix:

Soil

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

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
236	220	7.02

^{*}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 - BJ623

Analyst

Review

BLAGG ENGINEERING, INC.

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

Field TPH-Worksheet

Sample ID: Date Analyzed: 09-04-98
Project Location: Jicarilla Contract # 146 - 10E Date Reported: 09-04-98

Project #:

Laboratory Number: TPH-2029 Sample Matrix: Soil

Sample Weight: 5.00 grams Volume Freon: 20.00 mL

Dilution Factor: 1 (unitless)
TPH Reading: 4 mg/kg

TPH Result:

Reported TPH Result:

Actual Detection Limit:

Reported Detection Limit:

16.0 mg/kg

16 mg/kg

20.0 mg/kg

QA/QC: Original Duplicate %
TPH mg/kg TPH mg/kg Diff.
----- 236 220 7.02

Comments: Blow Pit - BJ623

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

8J6Z3 ... SUBMIT I COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephone: (50	5)326-9200
Address: 200 Amoco Court, Farmington, N	IM 87401	
	RACT # 146-10E	
Facility or Well Name:	Pin ARRI	R A
Location: Unit or Otr/Otr Sec E Sec 9 T	250 RSW County No	0.,
Other Other		
Pit Type: Separator Denydrator (71161		
Land Type: LANGE		
	~8', w idth74', de	
(Attach diagram) Reference: wellhead X,	other	
Footage from reference:	17'	
Direction from reference: 3	3 Degrees Past of	orth
Direction from references	West S	outh <u>×</u>
	(2)) mainta)
Depth To Groundwater: (Vertical distance from	50 feet to 00 feet (10) points)) points)) points)
contaminants to seasonal high water elevation of		
groundwater) Distance to an Ephemeral Stream	Less than 100 feet (1 Greater than 100 feet (1	0 points)
(Downgradient dry wash greater than	Greater than 100 to	·
ten feet in width) Distance to Nearest Lake, Playa, or Watering Pond	Less than 100 feet (1) Greater than 100 feet (0 points)
(Downgradient lakes, playas and livestock or wildlife watering ponds)		20 points)
Wellhead Protection Area:	Yes (² No (20 points)
(Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)		20 mainte)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	100 feet to 1000 feet	20 points) 10 points) 0 points)
III III Januari Santa Sa	RANKING SCORE (TOTAL P	OINTS):
	KANKING SCORE (TOTAL)	

		RJ623	SEP. PIT
		D. A. Completed	9/9/98
Date Remediation Star	Excavation	Approx. cubic yar	ds <u>400</u>
Check all appropriate sections)	Landfarmed 🔀		ion
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) General Description of	Other Offsite Onsite Offsite Remedial Action:Excavation		
Groundwater Encount	ered: No X Yes	Depth	
Closure Sampling:	Sample location see Attached		
attach sample results and diagram of sample locations and depths)	Sample depthZ7 (PIT	Sample ti	me
	Sample Results Soil: Benzene (ppm) = Total BTEX (ppm) = Total BTEX		Benzene (ppb) Toluene (ppb)
	Field Headspace (ppm) Z TPH (ppm) 3	54.9	Ethylbenzene (ppb) Total Xylenes (ppb)
Groundwater Sample	Yes No (If yes, attach sample	e results)
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION ABOV	E IS TRUE AND CO	OMPLETE TO THE BEST OF M
SIGNATURE BLO	19/98 PRINTED NA	E Environme	ental Coordinator
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFORMATIO APACHE TRIBE PIT CLOSURE OF	N, PIT CLOSURE IS RDINANCE.	S APPROVED IN ACCORDANC
APPROVED: YES ∠	NO (REASON)Cor	ditional	Closer
laranon V —	C Mall DATE:	10 - 1 - 98	<u> </u>

P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO:
FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: JICA. CONTR. 146 WELL #: 106 PIT: 56P QUAD/UNIT: E SEC: 9 TWP: Z5N RNG: 5W PM: NM CNTY: RA ST: NM QIR/FOOTAGE: 1520 FAL (1030 FWL CONTRACTOR: P&S	PAGE No:l _ ofl DATE STARTED:9/4/98 DATE FINISHED: ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 28 FT. x 24 FT. x 25 FT. DEEP. CUBIC DISPOSAL FACILITY: 0N-SITE REMEDIATION METHOL LAND USE: RANGE LEASE: JC H6 FOR	RMATION: <u>PR</u> 533€ FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: NEAREST WATER SOURCE: VALUE STD: SOOD PPM	PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
SAMPLE OLIVE GIVEY IN COLOR.	LE PIT BOTTON SUM
SCALE OFT PIT PERIMETER FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATIONS WEIGHT (g) ML. FREON [G] PIT PERIMETER PIT	PROFILE
OVM RESULTS PRECTION A PRESCRICTION A PRESCRICTION SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 19	24' A'
LAB SAMPLES SAMPLE ANALYSIS TIME SEZT TOPH RTEX H3D TPH - PASSED TOT, ETEX - TRUED	
TRAVEL NOTES: CALLOUT: ONSITE: 9/4/98 -m	orn.

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 146 #10E

Unit E, Sec. 9, T25N, R5W

Separator Pit Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent (27 ft. below grade) and for safety concerns (underground piping and surface equipment).

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

- Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
- 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 0.40 miles north of the nearest vulnerable area boundary (Gonzales Canyon wash).

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

Based upon the information given, we conclude that the subsurface vertical impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.



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 5 @ 27' D906 6195 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 09-09-98 09-04-98 09-04-98 09-09-98 09-09-98 8015 TPH
Parameter		oncentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C	:10)	1,870	0.2
Diesel Range (C10 - C		791	0.1
Total Petroleum Hydro		2,660	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 Contract #146 - 10E Separator Pit.

Aleen P. Cejuen

Review Stary W Sandhan



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

	Blagg / AMOCO	Project #:	04034-10
Client:	5 @ 27'	Date Reported:	09-09-98
Sample ID:	D906	Date Sampled:	09-04-98
_aboratory Number:	6195	Date Received:	09-04-98
Chain of Custody:	Soil	Date Analyzed:	09-09-98
Sample Matrix:	Cool	Date Extracted:	09-09-98
Preservative: Condition:	Cool & Intact	Analysis Requested:	BTEX
			Det.
	Conc	entration	Limit
Parameter		/Kg)	(ug/Kg)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene		245 6,580 6,370 37,080 21,850	8.8 8.4 7.6 10.8 5.2
Total BTEX		72,120	
ND - Parameter not detected at	the stated detection limit.		
Surrogate Recoveries:		Po	ercent Recovery
	Trifluorotoluene		99 %

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

Trifluorotoluene

Bromofluorobenzene

December 1996.

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

USEPA, December 1996.

Comments:

Jicarilla Contract #146 10E Separator Pit.

Stacy W Sendler

99 %

CHAIN OF CUSTODY RECORD

Cool - Ice/Blue Ice /		(505) 632-0615			
Received Intact		5796 U.S. Highway 64			
۲ ۷			(-	۲
Sample Receipt	IIIC	FOVIDOTECH IO	199	1050,6194, 6195	ROCX 5
-	Received by: (Signature)	Received b		nature)	Relinquished by: (Signature)
	Received by: (Signature)	Received by		nature)	Relinquished by: (Signature)
94.96 1435	Received by: (Signature)	9/4/98 /435 Received by		(Monature)	Relinquished by: (Mgrature)
-					
					-
	100 A	1			
RESERV COOL	4 7	2012	7006	9/4/08 1130	(5)@ 27'
	TH (80)	,	Lab Number	Sample Sample Date Time	Sample No./
Remarks	7H 5)	o. of tainers	Client No.		Sampler: MTV
	ANALYSIS / PAHAMETERS	CONTRACT # 146-10E	JICARUMA (Amoco	SLAGG / Amoco
		SEPARATOR PIT	Project Location		Client / Project Name

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: SICARIUA	CONTRACT 14	10-10E			
Location: Unit or Qtr/Qtr Sec E	Sec T	PSN RSW County PIO AREIBA			
Land Type:					
Date Remediation Started: 94	 98	Date Completed: 5/7/99			
Remediation Method: Landfarmed		Approx. cubic yards 800			
Composted					
Other					
epth To Groundwater:	(pts.) _ 0	Final Closure Sampling:			
Distance to an Ephemeral Stream	(pts.)	Sampling Date: <u>5.6.99</u> Time: <u>1135</u>			
Distance to Nearest Lake, Playa,		Sample Results:			
or Watering Pond	(pts.)	Field Headspace (ppm) 224.2 (8015)			
Wellhead Protection Area:	(pts.)	TPH (ppm) $\frac{2640}{(802!)}$ Method $\frac{87E \times (802!)}{(802!)}$			
Distance To SurfaceWater:	(pts.)	Other BENZENE = 0.101 ppm			
RANKING SCORE (TOTAL POINTS): O TOT. BTEX = 3.480 PPM					
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF					
DATE 5/7/99	. PRINTED N	IAME Buddy D. Shaw			
SIGNATURE Bully S. S					
AFTER REVIEW OF THE SOIL REME ACCORDANCE TO THE JICARILLA	DIATION INFORM APACHE TRIBE PI	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.			
APPROVED: YES NO	(REASON)				
SIGNED:	DATE				

BLAGG ENGINEERING, INC. SLIENT: Amoco LOCATION NO: 85623 P.O. BOX 87, BLOOMFIELD, NM 87413 C.B.C. NO: (A10) (505) 632-1199LANDFARM/COMPOST PILE CLOSURE VERIFICATION FIELD REPORT: DATE STARTED: 54.99 NAME JICAPILLA CONTRACT AWELL #: 10E PITS: SEP, BLOW DATE FINISHED: _ QUAD/UNIT E SEC: 9 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM ENVIRONMENTAL REP STRIFESTAGE SW/4 NW/4 CONTRACTOR: PAS JUL REMEDIATION: APPROX. CUBIC YARDAGE: 800 REMEDIATION SYSTEM: LANDFARM LIFT DEPTH (ft): 1.5-2 RANGE LAND USE: _ FELD NOTES & REMARKS: DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000 T NMCIT PANNING SCORE O NMOCD TPH CLOSURE STD 5000 PPM LT. YELLOWISH BROWN SAND, NON CONESIVE, SLIGHTLY MOIST, FIRM CARGE AREA OF STANIALS OBSERVED IN LANDFARM AREA # 2 (SEE SKETCH BELOW) HC ODOR DETECTED IN SAMPLING POINT Q. SAMPLING DEPTHS RANGE FROM 4" - 18" COLLECTED A SIFT. COMPOSITE SAMPLE FOR LAB ANALYSIS NOTE: SOME SOIL WAS MOVED+LANDFARMED TO THE JICABILA CONTRACT 146-7 FIELD 418.1 CALCULATIONS WEIGHT (0) ML. FREON DILUTION READING CALC. ppm SAMP. TIME WELL HEAD SKETCH/SAMPLE LOCATIONS 45' LAB SAMPLES OVM RESULTS FIELD HEADSPACE PID (ppm) ANALYSIS RÉSULTS SAMPLE SAMPLE 2640 2F.1 (8015) 1/35 224.2 101 PPB BENZENE TOT. STEX " 3480 PPB LANDFARM AREAT 2 SCALE

TRAVEL NOTES:

CALLOUT: NA

ONSITE: <u>5.6.99</u>



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Amoco	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-07-99
Laboratory Number:	F167	Date Sampled:	05-06-99
Chain of Custody No:	6910	Date Received:	05-07-99
Sample Matrix:	Soil	Date Extracted:	05-07-99
Preservative:	Cool	Date Analyzed:	05-07-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)		
Gasoline Range (C5 - C10)	607	0.2		
Diesel Range (C10 - C28)	2,030	0.1		
Total Petroleum Hydrocarbons	2,640	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 Contract 146 - 10E Landfarm. 5 Pt. Composite.

Alexander Oferen

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix:	Blagg / CONOCO LF - 1 F167 6910 Soil	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted:	403410 05-07-99 05-06-99 05-07-99 05-07-99
Preservative: Condition:	Cool Cool & Intact	Date Extracted: Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)				
Benzene	101	8.8				
Toluene	124	8.4				
Ethylbenzene	266	7.6				
p,m-Xylene	2,140	10.8				
o-Xylene	854	5.2				
Total BTEX	3,480					

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery					
	Trifluorotoluene	95 %					
	Bromofluorobenzene	95 %					

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 146 - 10E Landfarm. 5 Pt. Composite.

Aleen R. Ogenen

Stacy W Sendler

		Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)						25/1 5.647/1/35		Sample No./ Sample Sample Identification Date Time	Sampler:	BLAGE/AMOCO 3	
				I.A.						1	7, 1	Lab Number	Client No. 54034 • 10	CARILLACO	Project Location LANDFARM
5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615	ENVIROTECH INC	Rece	Rece	Date Time Rece						3010		Sample Matrix	4.10	SICARILLA CONTRACT 146. DE	awfach
hway 64 Mexico 87401 -0615	CH INC.	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)						,			o. of tainers		ANALYSIS
	Sample Receipt			5.7.99 7:15	-			Cool	SAMPLE POESERIA		SEL VALLEY LE		Remarks		ANALYSIS / PARAMETERS