JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE

**DULCE, NEW MEXICO 87528** 

P.O. BOX 507

OIL CON. DIVIT REMEDIATION AND CLOSURE REPORT DIST. 3

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington,	NM 87401 DEPUTY OIL & GAS INSPECTOR
Facility or Well Name: JICARILLA A	# 5 E AUG 1 3 1999
Location: Unit or Qtr/Qtr Sec Seczo T	ZGN R 5W County RIO ARRIBA
Pit Type: Separator Dehydrator Other	PRODUCTION TANK
Land Type: RANGE	
	1//
110 1200	14', width 16', depth 11'
(Attach diagram)  Reference: wellhead X	, other
Footage from reference:	132
Direction from reference:	-6 Degrees East North
1	West South X
	(20 mainta)
Depth To Groundwater: (Vertical distance from	Less than 50 feet (20 points) 50 feet to 99 feet (10 points)
contaminants to seasonal high water elevation of	Greater than 100 feet (0 points)
groundwater)	40 112
Distance to an Ephemeral Stream	Less than 100 feet (10 points) 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) Greater than 100 feet (0 points)
(Downgradient lakes, playas and livestock or wildlife watering ponds)	Greater than 100 feet ( 6 ps.me)
Wellhead Protection Area:	Yes (20 points) No (0 points)
(Less than 200 feet from a private domestic water source, or: less than	140 (O points)
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)
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Greater than 1000 feet (0 points)
ii	RANKING SCORE (TOTAL POINTS):
	RANKING SCOKE (TOTAL POINTS).

	BICTY PROD. TANK PIT
Date Remediation Started:	Date Completed: 12/2/98
Remediation Method: Excavation $\times$	Approx. cubic yards75
Check all appropriate   Sections)   Landfarmed   ×	Insitu Bioremediation
Remediation Location: Onsite 🔀 O (i.e. landfarmed onsite, name and location of offsite facility)	ffsite
General Description of Remedial Action: _	Excavation, BEDROCK ROTTOM. RISK ASSESSED.
Groundwater Encountered: No _>	Yes Depth
Closure Sampling: (if multiple samples.	Attached Documents
attach sample results and diagram of sample Sample depth	6' (ERST SIDEWALL)
	30/98 Sample time
Sample Results	• • • • • • • • • • • • • • • • • • • •
Soil: Benzene	(ppm) 2.790 Water: Benzene (ppb)
Total BTEX	
	(Fr.,)
	100 (J.P.II.)
ТРН	(ppm) 10,050 Total Xylenes (ppb)
Groundwater Sample: Yes	No (If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION KNOWLEGE AND BELIEF	ATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 12/2/98	PRINTED NAME Buddy D. Shaw  AND TITLE Environmental Coordinator
SIGNATURE Bully D. Show	AND TITLEEnvironmental Coordinator
	NFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE
APPROVED: YES NO (REAS	ON) RA Attacked
	DATE: 12-28-98

CLIENT: AMOCO	BLAGG ENGI P.O. BOX 87, BLO (505) 6	NEERING, INC. OMFIELD, NM 874 32-1199	13   LOCATION NO: <u>BJ679</u>   C.O.C. NO: <u>6417</u>
LOCATION: NAME: J.CA.  QUAD/UNIT: J SEC: 20	CT: CLOSURE  R WELL #: 58  TWP: 26-3 RNG: 5  (1413 FCL CONTRACTOR	PIT: PROD.  PM: NM CNTY: RA ST:N	DATE STARTED: 11/30/98
DISPOSAL FACILITY:	60 - 517 E	REMEDIATION ME	BIC YARDAGE: 75  THOD: LANDFARM  FORMATION: DK  SZGW FROM WELLHEAD.
DEPTH TO GROUNDWATER: >/3  NMOCD RANKING SCORE: 0  SOIL AND EXCAVATION	NEAREST WATER SOURCE:  NMOCD TPH CLOSURE STD:  ND DESCRIPTION:	>1000 NEAREST SU 5000 PPM	RFACE WATER: >/000  CHECK DNE:  PIT ABANDONED  STEEL TANK INSTALLED  FIBERGLASS TANK INSTALLED
PR. YELL. ORAN REMAINING SIL MOIST FIRM DOOL (HE DOOL ALL DUM SAMPL	GE JAND (NORTH SI DEWALLS, NON COHES TO DENSE, DAKKER ALSO DETECTED WIN ES EXCEPT NORTH CR (SHALE) OWLE GA DOWN SAM	SIDEUALL.	
SCALE  O FT  PIT PERIM	TIME SAMPLE I.D. LAB 0930  ETER AN	VM ULTS  FIELD HEADSPACE PIO (ppm)	NS NN DILUTION READING CALC. ppm PIT PROFILE  A
	1 @ 7' 2 @ 6' 3 @ 6' 4 @ 6' 5 @ 11'  LAB S  SAMPLE AN DE6' TP	D.0 588 509 486 369 AMPLES ALTSIS TIME HISTEX 0930 PASSED	BEDROCK (sk)
TRAVEL NOTES: CALLOUT	:	ONSITE:	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla A #5E
Unit J, Sec. 20, 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 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 0.46 miles northwest of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to 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).

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.



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

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 6'	Date Reported:	12-02-98
Laboratory Number:	E237	Date Sampled:	11-30-98
Chain of Custody No:	6412	Date Received:	12-02-98
Sample Matrix:	Soil	Date Extracted:	12-02-98
Preservative:	Cool	Date Analyzed:	12-02-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	
Gasoline Range (C5 - C10)	5,750	0.2	
Diesel Range (C10 - C28)	4,300	0.1	
Total Petroleum Hydrocarbons	10,050	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 #5E Production Tank Pit.

Analyst A. Ogjewen

Stacy W Sendler



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 2 @ 6' E237 6412 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 12-02-98 11-30-98 12-02-98 12-02-98 12-02-98 BTEX
---	--	---	--

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
_	2,790	8.8
Benzene	3,370	8.4
Toluene Ethylhonzene	3,440	7.6
Ethylbenzene p,m-Xylene	16,150	10.8
o-Xylene	8,330	5.2
Total BTEX	34,080	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	101 % 101 %

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 #5E Production Tank Pit.

Analyst L. Ogice

Stacy W Sendler
Review

# **CHAIN OF CUSTODY RECORD**

	1 1 1 1 1	Cool - Ica/Blue Ice			-0615	(505) 632-0615				
	ntact	Received Intact		7401	ghway 64 Mexico 8	5796 U.S. Highway 64 Farmington New Mexico 87401				
N N/A	۲									
ot	Sample Receipt	Sa		3	5	FOVIROTECH IO		9112	- 2119	8.9 COC'S
				gnature)	Received by: (Signature)	Rec			ature)	Relinquished by: (Signature)
				gnature)	Received by: (Signature)				iture)	Relinquished by: (Signature)
Time 8 02/5	Date /2.2.98			gnature)	Received by: (Signature)	Date Time Rec			iture)	Relinquished by (Signature)
2000	PRESERU	PRE		<u> </u>	~	2011	E237	0930	0560 B4/05/11	(30 (2)
				7.F (80 87 (80	Con	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
				15) EX Z1)	o. of tainer	-10	04034-10		`	NTV
8	Remarks			)	8	- 1	Client No.			Sampler:
		AMETERS	ANALYSIS / PARAMETERS			TICARILLA A #5E	JICAKILLA		moco	BLAGG AMOCO
					+	parolina talk o	Project I ocation			Client / Project Name

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

8J679 .. SUBMIT 1 COPY TO NATURAL RESOURCE DEPTAND OIL & GAS ADMINISTRATIO:

# PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington, NM	87401
Facility or Well Name: JICARILLA A	# 5E
Location: Unit or Qtr/Qtr Sec_ T Sec_ ZO T Z&A	
Pit Type: Separator Nehydrator Other	
Land Type: <u>RANG</u> €	
Pit Location: Pit dimensions: length 36	', widthZ  ', depth(3 '
I It Document	her
Footage from reference: 120	
Direction from reference:	Degrees East North
	West South
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)
	ANKING SCORE (TOTAL POINTS):

			87679	SEP. PIT
Date Remediation Sta	nrted:		e Completed:	
Remediation Method:	Excavation		ox. cubic yards	
heck all appropriate sections)	Landfarmed X	Insitu	Bioremediation	
,	Other			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)			2	
General Description of	of Remedial Action: Ex	cavation. BE	DROCK BOTTOM	
Groundwater Encount	tered: No ×	Yes De	pth	
Closure Sampling:	Sample location see A			
attach sample results and diagram of sample Sample depth 9' (NORTH SIDEWALL)				
locations and depths)	Sample date	/98	Sample time/	
11	Sample Results	(ppm) <u>0.249</u>	Water: Benzene	(ppb)
	Soil: Benzene	(ppm) 6.840	Toluene	(ppb)
	Total BTEX			
		(ppm) 1/2./	•	lenes (ppb)
	ТРН	(bbw) 3,580	Total Ay	ienes (ppo)
Groundwater Sample	: Yes No	(If yes,	attach sample results)	
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATI	ON ABOVE IS TR	UE AND COMPLETI	E TO THE BEST OF MY
DATE			Buddy D. Shaw	
SIGNATURE Sud		A(1) 1111313	Environmental C	
AFTER REVIEW OF TO THE JICARILLA	THE PIT CLOSURE INFO APACHE TRIBE PIT CL	DRMATION, PIT ( OSURE ORDINAN	CLOSURE IS APPRO CE.	VED IN ACCORDANC
APPROVED: YES	NO (REASON	N)		<u>;</u>
SIGNED:	Chlarke	DATE: 12	-28-95	

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413	LOCATION NO: 87679 C.O.C. NO: 6307
(505) 632-1199	
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: of
LOCATION: NAME: JICA. A WELL #: 5E PIT: SEP	DATE STARTED:
QUAD/UNIT: J SEC: 20 TWP: 262 RNG: 5W PM:NM CNTY: RA ST:NM	ENNADONIMENTAL
DTR/FOUTAGE:/SO'FIL/1616'FEL CONTRACTOR: P+5	SPECIALIST: NV
EXCAVATION APPROX. 36 FT. x 21 FT. x 13 FT. DEEP. CUBIC	
DISTOSAL TACILITY.	D: <u>LANDERK</u>
LAND USE: RANGE LEASE: JIC P FOR	
FIELD NOTES & REMARKS: PIT LECATED APPREXIMATELY 120 FT. 5	FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >100' NEAREST SURFAC	, CHELK DIVE
	FIT ABANDONED  STEEL TANK INSTALLED
	CIRCOCLASS TANK INSTALLED
SIDEWAUS-DK. YELL, ORANGE SAND NON COHESTUE SUBHTLY MOIST FIR	WE STRINING OBSTRUCT
ON NORTH SIDEWALL BE). Z'-7' BELOW ORING IN MOSTLY CE  OK. YELL. BROWN CLOY BOTTOM 6' OF SIDEWALLS HE DOOR  of SOUTH SIDEWALL DUM SAMPLES:	DETECTED IN NORTH
1301701-1 - BEWROCK (SHALE) LT. GROY, HARD, HE ODOR DETECT	
,	
BEDITOR GOSED FIELD 418.1 CALCULATIONS	
TIME SAMPLE I.D. LAB No: WEIGHT (g) ml. FREON DI	LUTION READING CALC. ppm
SCALE	
O FT	
DIT DEDIMETED 11 OVM PIT	PROFILE
RESULTS  SAMPLE FIELD HEADSPACE	
WELL T SEP TO (Ppm) A  1 & 9' 112-1  2 & 9' 0.0	z.! A
1A 3 @ 8' 77.6	
5 C /3 / 99.6 T - T-	
(3) 21' (13) 1 13' 13' 13' 13' 13' 13' 13' 13' 13' 1	
	Jan 11
A' LAR SAMPLES TAKED	SE), co CK
SAMPLE ANALYSIS TIME INTERVAL	
De 9' TOH BTEX 1045	
(BOTH POSSED)	
·	
TRAVEL NOTES: CALLOUT: ONSITE:	



# EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #: Date Reported: Date Sampled: Date Received:	04034-10
Sample ID:	1 @ 9'		11-23-98
Laboratory Number:	E200		11-19-98
Chain of Custody No:	6307		11-20-98
Sample Matrix: Preservative: Condition:	Soil Cool Cool and Intact	Date Extracted: Date Analyzed: Analysis Requested:	11-23-98 11-23-98 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,950	0.2
Diesel Range (C10 - C28)	1,330	0.1
Total Petroleum Hydrocarbons	3,280	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 #5E Separator Pit.

Meer L. afecce

Stacy W Sendler
Review



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Preservative: Cool Date Extracted. P1-23-30  Condition: Cool & Intact Analysis Requested: BTEX	Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative:	Blagg / AMOCO 1 @ 9' E200 6307 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	04034-10 11-23-98 11-19-98 11-20-98 11-23-98 11-23-98 BTEX
--	--	--	---	--

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	249 1,010 859 4,160 565	8.8 8.4 7.6 10.8 5.2
Total BTEX	6,840	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	95 % 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 A #5E Separator Pit.

Analyst L. Ogieren

Stacy W Sendler
Review

# CHAIN OF CUSTODY RECORD

7	Cool - Ice/Blue Ice	.0615	Fairillilyton, New Mexico 67401 (505) 632-0615				
7	Received Intact	hway 64	5796 U.S. Highway 64				
Y N NA					,		7
Receipt	Sample Receipt	CHINC	FOVIDOTECH IO		6306- 6309		5,85,00
		Received by: (Signature)	Rece			Relinquished by: (Signature)	Relinquished
		Received by: (Signature)	Rece		}	Relinquished by: (Signature)	Relinquished
250	11.	Macanda by (Digitamin)	11/20/98 0749 K	<i>I</i>		Relinquished by: (Signature)	Relinquished
Date Time		har (Gionativa)	Time				
- COOL	MESBEV.	- < <	2017	E 200	1/19/98 1045	9	(i) (e)
		10 Cor 11 (8.0 87)	Sample Matrix	Lab Number	Sample Time	e No./ Sample cation Date	Sample No./
		lo. of ntainer	10	04034-10		NAN	
Remarks	R	) )		Client No.		,	Sampler:
			A #5E	JICARILL 1		6/ Amoco	bises/
	METERS	ANALYSIS / PARAMETERS	SEPARATOR PIT	Project Location		ot Name	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	<b>Telephone:</b> (505) 326-9200				
Address: 200 Amoco Court,	Farmington,	NM 87401				
Facility or Well Name: 51 CARILLA	A 5E					
Location: Unit or Qtr/Qtr Sec_ 3	Sec 20 T 2	County RIO ARRIBA				
Land Type: RANGE						
Date Remediation Started: // 30.98 Date Completed: 6/4/99						
Remediation Method: Landfarmed		Approx. cubic yards 375				
Composted		,				
Other						
Pepth To Groundwater: (pts.) _o Final Closure Sampling:						
Distance to an Ephemeral Stream (pts.) o Sampling Date: 6299 Time: 1350						
Distance to Nearest Lake, Playa, or Watering Pond (pts.) Sample Results:						
Wellhead Protection Area: (pts.) • Field Headspace (ppm) 34.8						
Distance To SurfaceWater: (pts.) TPH (ppm) 97.8 Method (50/5)						
RANKING SCORE (TOTAL POINTS):						
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF						
DATE  6/4/99  PRINTED NAME  Buddy D. Shaw  SIGNATURE  Buddy D. Shaw  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	APPROVED: YES NO (REASON)					
SIGNED. Las Ma	DATE:	6-18-99				

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

COALONE NAME THAN A COMPOST PILE CLOSURE VERIFICATION

TIELD REPORT. LANDPARM/COMPOST FILE CLO	SORE VERIFICATION
LOCATION: NAME: JICARILLA A WELL #: 5E PITS: SEP, PROD.	DATE STARTED: 6 2 99  DATE FINISHED:
QUAD/UNIT: J SEC: 20 TWP: 26N RNG: 5W PM: NM CNTY: RA S  DIR/FOOTAGE: NW/4 SE/4 CONTRACTOR: P+5	ENVIRONMENTAL SPECIALIST: REP
SOL REMEDIATION:	
REMEDIATION SYSTEM: <u>LANDFAEM</u> APPROX. CU	UBIC YARDAGE: 375

FIELD NOTES & REMARKS:

LAND USE:

DEFTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCO RANKING SCORE: \_O NMOCO TPH CLOSURE STD: 5000 PPM

RANGE

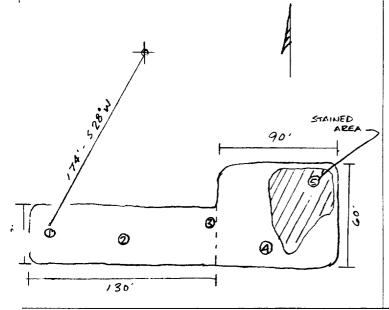
DK. YELLOWISH BROWN-ORANGE SAND, NON COHESIVE, SLIGHTLY HOIST, FIRM.
LARGE AREA OF STAINING OBSERVED IN LANDFARM AREA (SEE SKETCH BELOW)
HC ODOR DETECTED IN SAMPLING PTS (148), SAMPLING DEPTHS RANGE
FROM 6"-10" COLLECTED A SPT. COMPOSITÉ SAMPLE FOR LAB ANALYSIS

Crozed

FIELD	418.1	CALCULATIONS	S

							1200					
SAMP. TIME	SAMPLE	I.D.	LAB	No:	WEIGHT	(g)	mL.	FREON	DILUTION	READING	CALC.	ppm
											<u> </u>	
											<u> </u>	

# SKETCH/SAMPLE LOCATIONS



OVM RESULTS L	AB S	SAMPLES
---------------	------	---------

LIFT DEPTH (ft):

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	34.8	LF.1	7PH (8015)	1350	97.8
					ļ
					: 



TRAVEL NOTES:

CALLOUT: NA

ONSITE: 6 . 2 99



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

Client:	Blagg / AMOÇO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-04-99
Laboratory Number:	F452	Date Sampled:	06-02-99
Chain of Custody No:	7062	Date Received:	06-03-99
Sample Matrix:	Soil	Date Extracted:	06-03-99
Preservative:	Cool	Date Analyzed:	06-04-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	13.5	0.2
Diesel Range (C10 - C28)	84.3	0.1
Total Petroleum Hydrocarbons	97.8	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 - 5E Landfarm. 5 Pt. Composite.

Deur L. Ofener

Stacy W Sendler

# CHAIN OF CUSTODY RECORD

<u> </u>	Cool - Ice/Blue Ice	-0615	(505) 632-0615				
-	Received Intact	ghway 64 Mexico 87401	5796 U.S. Highway 64 Farmington, New Mexico 87401				
Y N/A							
ceipt	Sample Receipt	CHINC	ENVIROTECH IC				
		Received by: (Signature)	Rece			ure)	Relinquished by: (Signature)
		Received by: (Signature)	Rece			ure)	Relinquished by: (Signature)
.3.99 <i>830</i>	(.3.9	Heceived by: (Signature)	Date Time Hece			ure)	Heinquisped W (Signature)
-	7		4				
	con						
SAME TRESONE	SAME 1						
	-						
POSITE	SPT. COMPOSITE	_	5016	H52-	1350	6799	15-1
		Cor Cor	Sample Matrix	Lab Number	Sample Time	Sample Date	Identification
			7,0	014504			100
Remarks	Ren	ners	5	Cilent No.			Description.
			70	Client No.			Sampler:
	AMETERS	ANALYSIS / PARAMETERS	A . KE	SICAPILLA		000	BLAGG/AMOCO
			ANDFARM	Project Location LANDFARM			Client / Project Name