BT606 SUBMIT 1 COPY TO

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 Separation of the separation of th

DULCE, NEW MEXICO 87528

DECENVED N AUG 1 8 1000

PIT REMEDIATION AND CLOSURE REPORT

	911 CON DIV.
Operator: AMOCO PRODUCTION COMPANY	Telephone: (50B) 326 39200
	VM 87401
Address: 200 Amoco Court, Farmington, N	- 1147 - 7E
Facility or Well Name: JICARILLA CONTRAC	217 1/20140
Location: Unit or Qtr/Qtr Sec C Sec 8 T	
Pit Type: Separator Dehydrator Other	BLOW
I It Docution	45', width_ 48', depth_ 16'
Footage from reference: 16	
Direction from reference: 3	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)
n ·	RANKING SCORE (TOTAL POINTS):

		87606	BLOW PIT
Date Remediation St	arted:		81798
emediation Method:	Excavation ×		s
Check all appropriate () sections)	Landfarmed ×	Insitu Bioremediatio	n
,	Other		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite		
General Description (of Remedial Action: Excavation	1. BEDROCK OF	211017C: KI3K 1/33E33EV
Groundwater Encoun	tered: No <u>×</u> Yes	Depth	
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample location see Attached e 10' (oum = 0.0) Sample depth 16' (PIT Sample date 8 17 98	вопот)	PH - NORTH SIDEWALL 10 45
	Sample Results		
}	Soil: Benzene (ppm)	Water: Be	enzene (ppb)
	Total BTEX (ppm)		oluene (ppb)
	Field Headspace (ppm) 3		hylbenzene (ppb)
	TPH (ppm)	<i>NO</i> Tot	tal Xylenes (ppb)
Groundwater Sample:	Yes No (If	yes, attach sample re	sults)
I HEREBY CERTIFY KNOWLEGE AND BE	THAT THE INFORMATION ABOVE LIEF	IS TRUE AND COMP	LETE TO THE BEST OF MY
DATE	8/17/98 PRINTED NAM	ME Buddy D. Sha	aw
SIGNATURE BLD.	ly S. Show AND TITLE	·	al Coordinator
AFTER REVIEW OF	THE PIT CLOSURE INFORMATION APACHE TRIBE PIT CLOSURE ORI	, PIT CLOSURE IS AP	
APPROVED: YES 🔀	NO (REASON)		· ·
SIGNED:	Man DATE.	9-9-98	

3003922341 LOCATION ND: 87606 BLAGG ENGINEERING, INC. CLIENT: AMOCO P.O. BOX 87, BLOOMFIELD, NM 87413 C.D.C. ND: ____ (505) 632-1199FIELD REPORT: CLOSURE VERIFICATION PAGE NO: 1 of _ DATE STARTED: 8/17/98 LOCATION: NAME: JICA. CONTR. 147 WELL #: 7E PIT: BLOW DATE FINISHED: QUAD/UNIT: C SEC: 8 TWP: ZSN RNG: 5W PM: NM CNTY: RA ST: NM FNVIRONMENTAL 642 OTR/FOOTAGE: 800 FNL 1620 FWL CONTRACTOR: EXCAVATION APPROX. 45 FT. x 48 FT. x 16 FT. DEEP. CUBIC YARDAGE: 1000 DISPOSAL FACILITY: DW-5/17E REMEDIATION METHOD: LANDFARM LAND USE: LEASE: De 147 FORMATION: FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 165 FT. NIE FROM WELLHEAD. DEPTH TO GROUNDWATER: 7/00 NEAREST WATER SOURCE: >/000 NEAREST SURFACE WATER: >/000 CHECK DNE NMOCD RANKING SCORE: __ NMOCD TPH CLOSURE STD: _5000 PPM PIT ABANDONED SOIL AND EXCAVATION DESCRIPTION: _____ STEEL TANK INSTALLED ___ FIBERGLASS TANK INSTALLED SIDEWALLS - DK. YELL BROWN SILTY SAND TO SATY CLAY NON COHESIVE TO SLIGHTLY MASTIC SLIGHTLY MOIST, FIRM TO VERY STIFT NO APPARENT STAINING OR HC ODOR OBSERVED DETECTED WIN EXCAUSION NO APPARENT HE ODOR DETECTED IN ANY OF THE DUM TAMPLES. BOTTOM - IT TO DLIVE GRAY BEORDER (SHINE) VERY HARD, STRING HE ODOR RISK ASSESSED REDLOCK FIELD 418.1 CALCULATIONS MOTTOR |WEIGHT (g) |mL. FREON | DILUTION | READING | CALC. ppm SAMPLE I.D. LAB No: TIME 2 De10' ZO SCALE TPH- 2013 1045 PIT PERIMETER 70 PIT PROFILE OVM RESULTS ~ SAMPLE درياه 0.0 SLOPE DIRECTION 0.0 CA 1 48' LAB SAMPLES ساقالا HEAD

TRAVEL NOTES: CALLOUT: 8/12/98 - MORN. ONSITE: 8/17/98 - MORN.

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 147 #7E

Unit C. Sec. 8, T25N, R5W

Blow 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 16 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 16 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 0.70 miles northwest of the nearest vulnerable area boundary (Gonzales Canyon wash).

(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 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.

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

Jicarilla Contract # 147 - 7E

Client:

AMOCO

Sample ID:

Project #:

1 @ 10'

Date Analyzed: Date Reported: 08 - 17 - 9808-17-98

Project Location: Laboratory Number:

TPH-2013

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 Duplicate % TPH mg/kg TPH mg/kg *Diff. - -- -228 244 6.78

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments: Blow Pit - BJ606

^{*}Administrative Acceptance limits set at 30%.

BLAGG ENGINEERING, INC.

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

Field TPH-Worksheet

Max Characters:

Client:

AMOCO

1 @ 10'

Project #:

Sample ID: Project Location:

Jicarilla Contract # 147 - 7E

Date Analyzed: Date Reported:

08-17-98

Laboratory Number:

TPH-2013

08-17-98

Sample Matrix:

Soil

Sample Weight:

Volume Freon:

5.00 grams 20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

5 mg/kg

TPH Result:

20.0 mg/kg

Reported TPH Result:

20 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original TPH mg/kg

Duplicate TPH mg/kg

% Diff.

228

244

6.78

Comments:

Comments:

Blow Pit - BJ606

BJ606

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

	(505) 226 0200								
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200								
Address: 200 Amoco Court, Farmington,	NM 87401								
	WTRACT # 147 - 7E								
racility of Well Name.									
Location: Unit or Qtr/Qtr Sec C Sec 8 T ZSN R 5W County Liz ARRIBA									
Pit Type: Separator X Dchydrator Other									
Land Type: LANGE									
Land Type.									
Pit Location: Pit dimensions: length_	フら', width_ ヌヱ', depth_ ヱヱ'								
(Attach diagram)	_, other								
Footage from reference:	180								
Direction from reference:	60 Degrees \times East North \times								
	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, 'rrigation canals and ditches)	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)								
1 · · ·	RANKING SCORE (TOTAL POINTS):								

85606 SEP. PIT

	Date Completed: 8/19/98
Date Remediation Started:	Approx. cubic yards600
Remediation Method: Excavation	
sections) Landfarmed	Insitu Bioremediation
Other	
Remediation Location: Onsite Offsite _ (i.e. landfarmed onsite, name and location of offsite facility)	
	ration, Beplock Bottom.
Groundwater Encountered: No X Y	/es Depth
Final Pit: Sample location see Atta Closure Sampling: (if multiple samples,	
attach sample results and diagram of sample Sample depth	WEST SIDEWALL)
locations and depths) Sample date	Sample time 1200
Sample Results	
•	pm) 1.550 Water: Benzene (ppb)
Total BTEX (p	
Field Headspace (p	
li de la companya de	om) 4,500 Total Xylenes (ppb)
Groundwater Sample: Yes No _×	(If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION KNOWLEGE AND BELIEF	ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
	TED NAME Buddy D. Shaw
SIGNATURE BUlly D. Show AND	TITLE Environmental Coordinator
AFTER REVIEW OF THE PIT CLOSURE INFORM TO THE JICARILLA APACHE TRIBE PIT CLOSU	MATION, PIT CLOSURE IS APPROVED IN ACCORDANCE URE ORDINANCE.
APPROVED: YES X NO (REASON) _	<u>. </u>
SIGNED: Low Mand D	ATE: <u>9-9-98</u>

	LOCATION NO: 87606
P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. ND: <u>6045</u>
FIELD REPORT: CLOSURE VERIFICATION	
LOCATION: NAME: JICA. CONTR. 147 WELL #: 7E PIT: SEP.	DATE STARTED: 8/17/98 DATE FINISHED:
QUAD/UNIT: C SEC: 8 TWP: ZSN RNG: SW PM: NM CNTY: RA ST: NM QTR/FOOTAGE: 800 FNL 1620 FNL CONTRACTOR: PAS	ENVIRONMENTAL NV SPECIALIST:
EXCAVATION APPROX. 26 FT. x 32 FT. x 22 FT. DEEP. CUBIC	YARDAGE: 600
DISPOSAL FACILITY: 3N-SITE REMEDIATION METHOD LAND USE: RANGE LEASE: JIC 147 FOR	D: LANDFARM.
FIELD NOTES & REMARKS! DIT LOCATED APPROXIMATELY 180 FT. N	60E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 / NEAREST WATER SOURCE: \$ 1000 / NEAREST SURFACE	CHECK ONE:
	PIT ABANDONED STEEL TANK INSTALLED
SIDEWALLS - MOSTLY MOD. TO ONSKY YELL. BROWN SILTY CLAY TO	FIBERGLASS TANK INSTALLED
HIGHLY PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STI	FF, STAINING EVIDENT
HE DOOR WIND EXCOUNTION & ALL OUT TAMPLE	5.
BOTTOM - MED. GLAY SEDLOCK (THATE) VERY HARD, SLIGHT H	e ooor in our
BEDROCK RISE FIELD 418.1 CALCULATIONS BOITOM	LUTION BEADING CALC DOM
TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DI	EUTION READING CALC. PPIN
O FT	
PIT PERIMETER IN PIT	PROFILE
DOWN A SLOPE FORECTION 26 RESULTS	26' A
SAMPLE FIELD PID (PPM) 1 2 16 S 7 0	T.
A (32) 32 16' 824 4 (6' 902	122
5 C ZZ' 31.0	85020=12
HEAD BY TOWATION	
LAB SAMPLES	
SAMPLE ANALYSIS TIME DELLA TOPH BTEX (200	
TPH - PASSED	
TRAVEL NOTES: CALLOUT: 8/12/98 - MOLN. ONSITE: 8/17/98 - M	いたん 、

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 147 #7E Unit C, Sec. 8, T25N, R5W

Separtor 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 22 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 22 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 0.70 miles northwest of the nearest vulnerable area boundary (Gonzales Canyon wash).

(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:	4 @ 16'	Date Reported:	08-19-98
Laboratory Number:	D814	Date Sampled:	08-17-98
Chain of Custody No:	6045	Date Received:	08-18-98
Sample Matrix:	Soil	Date Extracted:	08-19-98
Preservative:	Cool	Date Analyzed:	08-19-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	oncentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3,480	0.2
Diesel Range (C10 - C28)	1,020	0.1
Total Petroleum Hydrocarbons	4,500	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 #147 - 7E Separator Pit.

Analyst

Stacy W Sendler



EPA METHOD 8021 IC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	4 @ 16'	Date Reported:	08-19-98
Laboratory Number:	D814	Date Sampled:	08-17-98
Chain of Custody:	6045	Date Received:	08-18-98
Sample Matrix:	Soil	Date Analyzed:	08-19-98
Preservative:	Cool	Date Extracted:	08-19-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	:
Benzene	1,580	17.5	
Toluene	41,220	16.7	
Ethylbenzene	1,280	15.2	
p,m-Xylene	94,550	21.6	
o-Xylene	31,540	10.4	
Total BTEX	170,170		

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 Contract #147 - 7E Separator Pit.

Review

CHAIN OF CUSTODY RECORD

(505) 632-0615	5796 U.S. Highway 64 Farmington New Mexico 874		Pal COC'S 6045- 6048 ENVIROTECH I		9) (Date Time 8/18/18 1443					 (4) E/6 8/17/98 1200 D814 5012	Sample No./ Sample Sample Lab Number Sample Matrix	NIN	Client No.	Amoco TicARILLA CO	Client / Project Name Project Location SEPARATOR PIT
615	way 64 exico 87401		HINC.	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)					/ / /		o. of cainers H 1/5) EX 2 ()		ANALYSIS / PARAMETERS	
Cool - Ice/Blue Ice	Received Intact	≺ z	Sample Receipt			P.16.57 14143		-			RESERV COOL				RAMETERS	

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 PRODUCTION COMPANY	Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington,	NM 87401
Facility or Well Name: SICABILLA CONTRACT	147·7E
Location: Unit or Qtr/Qtr Sec 6 Sec 8 T2	25N R5W County PIO ARRIBA
Land Type: PANGE	
Date Remediation Started: 8.17.98	Date Completed:
Remediation Method: Landfarmed	Approx. cubic yards 1600
Composted	
Other	
epth To Groundwater: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.)	Sampling Date: 4 7 99 Time: 0970
Distance to Nearest Lake, Playa, or Watering Pond (pts.) Wellhead Protection Area: (pts.) Distance To SurfaceWater: (pts.) RANKING SCORE (TOTAL POINTS):	Sample Results: Field Headspace (ppm) 72.5 (F-1) TPH (ppm) 51.7 Method 8015 Other MULTIPLE SAMPLES - SEE ATTICHED FORM
I HEREBY CERTIFY THAT THE INFORMATION ABOVE	
the signature Bully A. Shaw	IAME Buddy D. Shaw AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REMEDIATION INFORM ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.
APPROVED: YES NO (REASON)	
SIGNED: DATE:	

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

C.O.C. NO: 6878

(500)				
FIELD REPORT: LANDFARM/COMP	OST PILE	CLOSURE	VERIFICA	TION
LOCATION: NAME: SKARILLA CONTRACT 147 WELL #: 7E	PITS: SE	P., BLOW	DATE STARTED:	1
QUAD/UNIT: C SEC: 8 TWP: 25N RNG 5W	PM: NM CNTY:	RA ST:NM	ENVIRONMENTAL SPECIALIST:	
OTR/FOOTAGE: NE/4 NW/4 CONTRACTOR:	P45		SPECIALIST:	<u> </u>
SOIL REMEDIATION:				_
REMEDIATION SYSTEM: LANDFARM	APPR(OX. CUBIC Y	ARDAGE: 169	
LAND USE: RANGE	LIFT	DEPTH (ft):	<u>/-1.5</u>	
FIELD NOTES & REMARKS:			> 40	^
DEPTH TO GROUNDWATER: 2/00 NEAREST WATER SOURCE	> 1000	NEAREST SURFACE	WATER: _ > 10	00
NMOCD RANKING SCORE:O NMOCD TPH CLOSURE STD. MODERATE YELLOWISH BROWN SAND, NON COHESING NO APPARENT STAINING, NO HC ODOR DETECTED. FROM G"-18" TOOK TWO SPT. COMPOSITE SAN	E, BLIGHTLY M SAMPLING DE APLES FOR L	evths range AB ANALYSIS		
	(g) mL. FREON	DILUTION READIN	G CALC. ppm	
SAMP. TIME SAMPLE I.D. LAB No: WEIGHT	(g) ML. TREON	DICOTION (KENOW		
			_	
CATEGORY (CAMPIEL LOCATIONS				
SKETCH/SAMPLE LOCATIONS				
ANDFARM AREA #2	OVM RESU	JLTS	LAB SAMPI	ÆS
		HEADSPACE SAMPLE	ANALYSIS TIME	RESULTS
LANDFARM 10 0 0		2.5 LF.1	(ACIE) DAIS	51.7
N S S S S S S S S S S S S S S S S S S S	LF-2 8	3.9 LF.2	(BOIS) 0930	7.0
	<u> </u>			
				<u> </u>
				·
0 310				
	SCALE 0 F7	L .		
TRAVEL NOTES: CALLOUT: ~/A	ONSITE: 4	7 99		



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	4 03410
Sample ID:	LF - 1	Date Reported:	04-09-99
Laboratory Number:	E984	Date Sampled:	04-07-99
Chain of Custody No:	6878	Date Received:	04-08-99
Sample Matrix:	Soil	Date Extracted:	04-08-99
Preservative:	Cool	Date Analyzed:	04-09-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	10.5	0.2
Diesel Range (C10 - C28)	41.2	0.1
Total Petroleum Hydrocarbons	51.7	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 147 - 7E Landfarm. 5 Pt. Composite.

Stacy W Sendler



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 2	Date Reported:	04-09-99
Laboratory Number:	E985	Date Sampled:	04-07-99
Chain of Custody No:	6878	Date Received:	04-08-99
Sample Matrix:	Soil	Date Extracted:	04-08-99
Preservative:	Cool	Date Analyzed:	04-09-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.2	0.2
Diesel Range (C10 - C28)	3.8	0.1
Total Petroleum Hydrocarbons	7.0	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 Contract 147 - 7E Landfarm.

5 Pt. Composite.

Analyst

Stacy W Sendler

Client / Project Name	7	1				
BLACK / AHOCO	i roject Localion Costo)	- OM COM		ANALYSIS	ANALYSIS / BABAMETERS	
Sampler:	Client No	Client No.	IE			
REP	Cubic No.		ers		Remarks	S)
\dashv	1.000		/			
Identification Date Time	Lab Number	Sample	No Cont			
CF-1 47.99 0915	436.7	SOIL	Y			
					SPI. COMOSITE	176
LF-2 4.7.99 0930	586-3	5016	7			
					SAMPLES PERSONAL	TENS
					Cool	
						İ
Relinquished by (Signature)		1				
Moura	4.8	48.99 7:40 H	Heceived by: (Signature)	5	Date	Time
Helinquished by: (Signature)		R	Received by: (Signature)	· Charac	Ø.F.77	740
Relinquished by: (Signature)		Re	Received by: (Signature)			
			- V. (vigilaturo)			<u> </u>
		ENVIROTECH IN	CHINC		Sample Receipt	
	I	5796 U.S. Highway 64			~	Z
	_	Farmington, New Mexico 87401	Mexico 87401		Received Intact	
					Cool - Ice/Blue Ice	