

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

BJ646

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
OIL & GAS ADMINISTRATION

Blow-Risk below
SEP-11-1993
RECEIVED
AUG 16 1993

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
DIST. 2
(505) 326-9200

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT # 146 - 22E
Location: Unit or Qtr/Qtr Sec 0 Sec 10 T 25N R 5W County Rio ARriba
Pit Type: Separator Dehydrator Other Blow
Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 48', width 42', depth 16'
Reference: wellhead X, other
Footage from reference: 130'
Direction from reference: 30 Degrees X East of North
 West of 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)	<u>0</u>
Greater than 100 feet	(0 points)	<u> </u>

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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

Distance To Surface Water:

(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)	<u>0</u>

RANKING SCORE (TOTAL POINTS)

Date Remediation Started: _____ Date Completed: 10/1/98
 Remediation Method: Excavation ☒ Approx. cubic yards 450
 (Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
 Other _____

Remediation Location: Onsite ☒ Offsite _____
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation - BEDROCK BOTTOM. RISK ASSESSED.

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents
 Closure Sampling: _____
 (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 10' (SOUTH SIDEWALK)
 Sample date 9/28/98 Sample time 0830

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>6.92017</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>0.9</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 10/1/98 PRINTED NAME Buddy D. Shaw
 SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) R.A. ATTACHED

SIGNED: Ker C M...ll DATE: 12-28-98

3 003922180

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 87646

C.D.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME: JICA. CONTR. 146 WELL #: 22E PIT: BLOW
QUAD/UNIT: D SEC: 10 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: 1120' FUL / 1120' FUL CONTRACTOR: PDSDATE STARTED: 9/28/98

DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: NVEXCAVATION APPROX. 48 FT. x 42 FT. x 16 FT. DEEP. CUBIC YARDAGE: 450DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMLAND USE: RANGE LEASE: JIC 146 FORMATION: DIRFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 130 FT. S30E FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

☐ FIBERGLASS TANK INSTALLED

SIDEWALLS - MOSTLY VERY PALE TO MOD. YELL. ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED/DETECTED w/in excavation, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.

BOTTOM - BEDROCK (SANDSTONE), OLIVE TO LT. GRAY IN COLOR, VERY HARD, STRONG HC ODOR IN OVM SAMPLE.

BEDROCK
BOTTOM

RISK ASSESSED

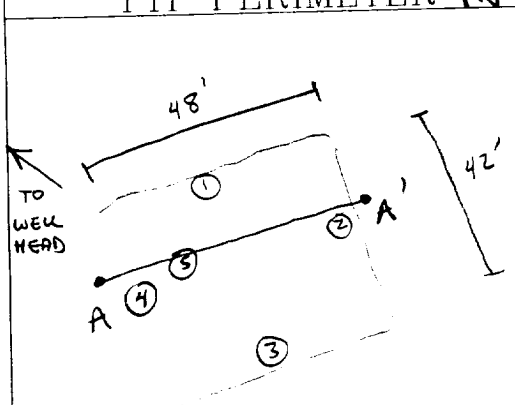
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

0 FT

PIT PERIMETER

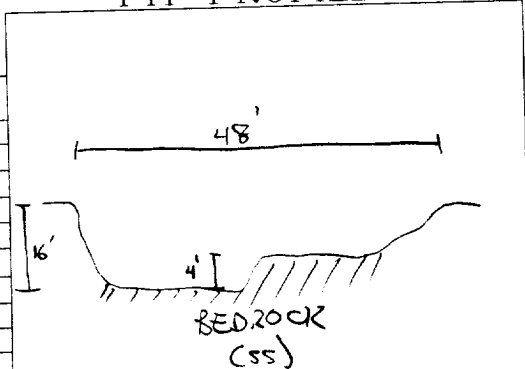
OVM
RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 11'	0.0
2 @ 8'	0.0
3 @ 10'	6.9
4 @ 11'	0.0
5 @ 16'	209.7

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
3 @ 10'	TPH	0830
PASSED		

PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: 9/28/98 - noon

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 146 #22E

Unit D, Sec. 10, 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 sandstone 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 sandstone 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 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 **non-vulnerable area** and is approximately 0.56 miles northeast of the nearest vulnerable area boundary (Gonzales Canyon wash).

(Refer to Lapis Point 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 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.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO
Sample ID: 3 @ 10'
Laboratory Number: E003
Chain of Custody No: 6280
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

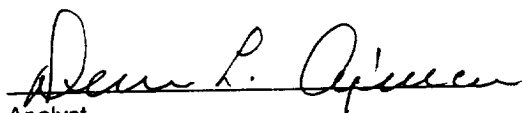
Project #: 04034-10
Date Reported: 10-01-98
Date Sampled: 09-28-98
Date Received: 09-30-98
Date Extracted: 09-30-98
Date Analyzed: 09-30-98
Analysis Requested: 8015 TPH

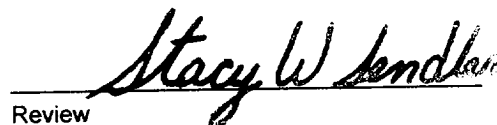
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.9	0.1
Total Petroleum Hydrocarbons	0.9	0.2

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 - 22E Blow Pit.


Analyst


Review

BJ648

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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, NM 87401
Facility or Well Name: JICARILLA CONTRACT #146-22E
Location: Unit or Qtr/Qtr Sec D Sec 10 T 25N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 21', width 26', depth 7'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 177'
Direction from reference: 59 Degrees ☐ East of North ☐
☒ West of 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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>
Distance To Surface Water: (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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 10/1/98

Remediation Method: Excavation ☒ Approx. cubic yards 100
Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. BEDROCK BOTTOM.

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 4' (EAST SIDEWALL)

Sample date 9/28/98 Sample time 0930

Sample Results

Soil: Benzene	(ppm)	<u>0.135</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>0.949</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>676</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>2.4</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 10/1/98 PRINTED NAME Buddy D. Shaw

SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____

SIGNED: Ken C Mandle DATE: 12-28-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ646</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>TICA CONTR. 146</u> WELL #: <u>22E</u> PIT: <u>SEP</u> QUAD/UNIT: <u>D</u> SEC: <u>10</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1120' FM / 1120' FWH</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>9/28/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>21</u> FT. x <u>26</u> FT. x <u>7</u> FT. DEEP.	CUBIC YARDAGE: <u>100</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JIC 146</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>177</u> FT. <u>559W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMOC RANKING SCORE: <u>0</u> NMOC TPH CLOSURE STD: <u>5000</u> PPM
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SOIL AND EXCAVATION DESCRIPTION:

SIDEWALLS - MOD. YELL. BROWN TO DK. OLIVE GRAY SAND, BEDROCK ON SW & NORTH SIDEWALL 3' TO 4' BELOW GRADE, NON COHESIVE, SLIGHTLY MOIST, NW & SOUTH SIDEWALL OUM SAMPLE COLLECTED FROM BEDROCK STRONG HC ODOR IN EAST SIDEWALL (DK. OLIVE GRAY) OUM SAMPLE, NO APPARENT HC ODOR DETECTED W/IN EXCAVATION, EAST SIDEWALL CONTAINED SMALL QUANTITY OF STAINING.

BOTTOM - BEDROCK (SANDSTONE), OLIVE TO MED. GRAY IN COLOR, VERY HARD, STRONG HC ODOR IN OUM SAMPLE.

CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

☐ FIBERGLASS TANK INSTALLED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

PIT PERIMETER

PIT PROFILE

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	0.0
2 @ 4'	6.76
3 @ 3'	0.0 R
4 @ 4'	0.0
5 @ 7'	6.12 R

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
② @ 4'	TPH (BTEX)	0.930
Both PASSED		

TRAVEL NOTES: _____ CALLOUT: _____

ONSITE: 9/28/98 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

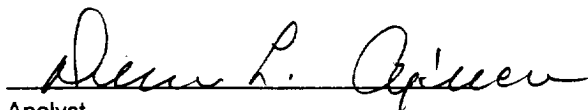
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 4'	Date Reported:	10-01-98
Laboratory Number:	E004	Date Sampled:	09-28-98
Chain of Custody No:	6280	Date Received:	09-30-98
Sample Matrix:	Soil	Date Extracted:	09-30-98
Preservative:	Cool	Date Analyzed:	09-30-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

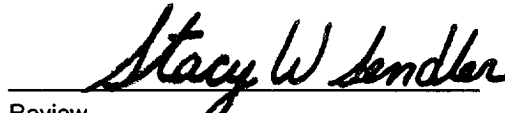
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.3	0.2
Diesel Range (C10 - C28)	1.1	0.1
Total Petroleum Hydrocarbons	2.4	0.2

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 - 22E Separator Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 4'	Date Reported:	10-01-98
Laboratory Number:	E004	Date Sampled:	09-28-98
Chain of Custody:	6280	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	135	8.8
Toluene	93.3	8.4
Ethylbenzene	40.3	7.6
p,m-Xylene	354	10.8
o-Xylene	326	5.2
Total BTEX	949	

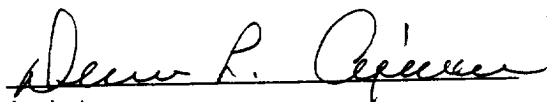
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	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 Contract #146 - 22E Separator Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

6280

Client / Project Name BRS- Amoco			Project Location TEAPULA CONTRACT #146-22E			ANALYSIS / PARAMETERS					
Sampler: NTV			Client No. 04034-10			No. of Containers			Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix		TPH (8015)	BTEX (8021)				
③ @ 10'	9/28/98	0830	E003	SOIL	1	✓					Blow pit
② @ 4'	9/28/98	0930	E004	SOIL	1	✓	✓				SEPARATE PIT
											BOTH SAMPLES
											PRESENT. - COOL
Relinquished by: (Signature) <i>Steven V. J.</i>			Date 9/30/98	Time 0700	Received by: (Signature) <i>Albert R. Ogle</i>	Date 9.30.98			Time 0700		
Relinquished by: (Signature)			Received by: (Signature)								
Relinquished by: (Signature)			Received by: (Signature)								
<p>29 COC'S 6280 → 6283</p> <p>ENVIROTECH INC.</p> <p>5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615</p>											
Sample Receipt											
Received Intact						Y N N/A					
Cool - Ice/Blue Ice						Y N N/A					

35646

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NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>AMOCO PRODUCTION COMPANY</u> Telephone: <u>(505) 326-9200</u>	
Address: <u>200 Amoco Court, Farmington, NM 87401</u>	
Facility or Well Name: <u>JICARILLA CONTRACT 146-22E</u>	
Location: Unit or Qtr/Qtr Sec <u>D</u> Sec <u>10</u> T <u>25N</u> R <u>5W</u> County <u>RIO ARriba</u>	
Land Type: <u>RANGE</u>	
Date Remediation Started: <u>9-28-98</u> Date Completed: <u>4/21/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>550</u>	
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) <u>0</u>	Sampling Date: <u>4-19-99</u> Time: <u>1300</u>
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>	Sample Results:
Wellhead Protection Area: (pts.) <u>0</u>	Field Headspace (ppm) <u>185.6</u>
Distance To Surface Water: (pts.) <u>0</u>	TPH (ppm) <u>1060</u> Method <u>BTEX (8021)</u>
RANKING SCORE (TOTAL POINTS): <u>0</u>	Other <u>BENZENE = 0.027 ppm</u>
<u>TOT. BTEX = 4.660 ppm</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>4/21/99</u>	PRINTED NAME <u>Buddy D. Shaw</u>
SIGNATURE <u>Buddy D. Shaw</u>	AND TITLE <u>Environmental Coordinator</u>
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.	
APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
SIGNED: _____ DATE: _____	

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B5CAL</u> C.D.C. NO: <u>6896</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>JICARILLA CONTRACT 146</u> WELL #: <u>22E</u>	PITS: <u>SEP, BLOW</u>	DATE STARTED: <u>4.19.99</u>
QUAD/UNIT <u>D</u> SEC: <u>10</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		DATE FINISHED: _____
STAKEFOOTAGE <u>SW/4 NW/4</u>	CONTRACTOR: <u>P+S</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>

REMEDIAL ACTION:

REMEDIAL SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 550

LAND USE: RANGE

LIFT DEPTH (ft): 2'

FIELD NOTES & REMARKS:

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

NMDCD PAVING SCORE 0 NMDCD TPH CLOSURE STD: 5000 PPM

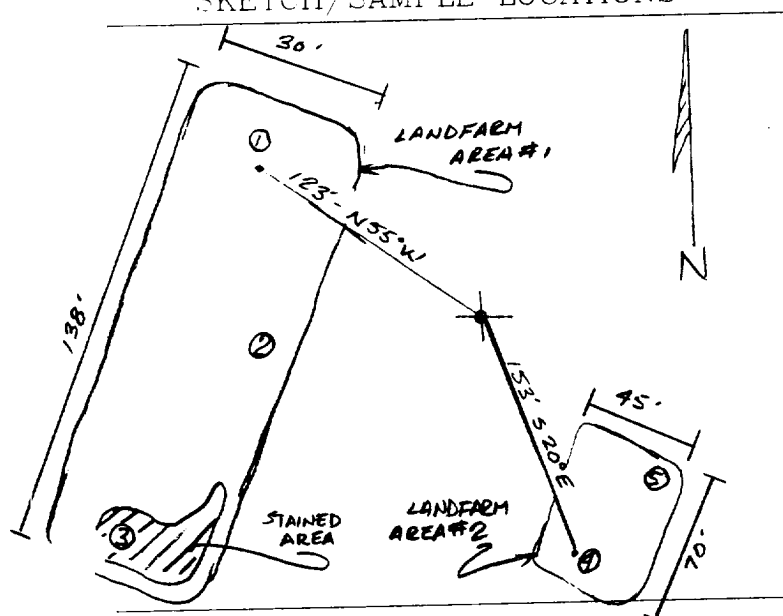
DR. YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.
SMALL AREA OF STAINING OBSERVED IN LF AREA #1. (SEE SKETCH BELOW)
NO HC ODDOR DETECTED SAMPLING DEPTHS RANGE FROM 6"-18"
COLLECTED A SPT. COMPOSITE SAMPLE FOR LAB. ANALYSIS

CLOSED

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC	ppm

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	185.6	LF-1	TPH (5015)	1300	1060
		"	BENZENE	"	27 ppb
		"	TOT. BTEX	"	4660 ppb

SCALE



TRAVEL NOTES:

CALLOUT:

ONSITE:

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-21-99
Laboratory Number:	F062	Date Sampled:	04-19-99
Chain of Custody No:	6896	Date Received:	04-20-99
Sample Matrix:	Soil	Date Extracted:	04-21-99
Preservative:	Cool	Date Analyzed:	04-21-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

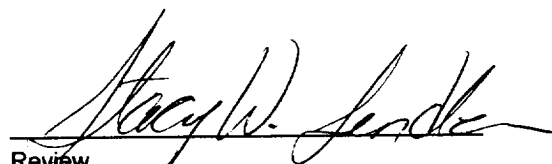
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	185	0.2
Diesel Range (C10 - C28)	877	0.1
Total Petroleum Hydrocarbons	1,060	0.2

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 - 22E Landfarm. 5 Pt. Composite.


Analyst


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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-21-99
Laboratory Number:	F062	Date Sampled:	04-19-99
Chain of Custody:	6896	Date Received:	04-20-99
Sample Matrix:	Soil	Date Analyzed:	04-21-99
Preservative:	Cool	Date Extracted:	04-21-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	27	8.8
Toluene	320	8.4
Ethylbenzene	409	7.6
p,m-Xylene	2,290	10.8
o-Xylene	1,610	5.2
Total BTEX	4,660	

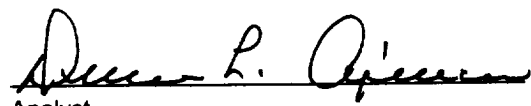
ND - Parameter not detected at the stated detection limit.

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 Contract 146 - 22E Landfarm. 5 Pt. Composite.


Analyst


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