

BT642 OK

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

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
DEPUTY OIL & GAS INSPECTOR

RECEIVED
JUL 13 1999

AUG 13 1999

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

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA A #4
Location: Unit or Qtr/Qtr Sec K Sec 19 T26N R5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 35', width 35', depth 25'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 114'
Direction from reference: 89 Degrees ☒ East of 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)	0
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)	0
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)	0
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)	0
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)	0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 11/30/98

Remediation Method: Excavation ☒ Approx. cubic yards 1050
 (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: Sample location see Attached Documents

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

Sample depth 19' (EAST SIDEWALK)

Sample date 11/28/98 Sample time 1115

Sample Results

Soil: Benzene	(ppm)	<u>0.101</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>3.090</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>166.3</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>6.8</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 11/30/98 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. M... DATE: 12-28-98

08062

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85692</u> C.O.C. NO: <u>6317</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>JICAPILLA</u> A WELL #: <u>4</u> PIT: <u>SEP</u> QUAD/UNIT: <u>K SEC: 19 TWP: 26N RNG: 5W PM: NM CNTY: RA ST NM</u> QTR/FOOTAGE: <u>1850.FSL/1850.FWL</u> CONTRACTOR: <u>P4S</u>	DATE STARTED: <u>11 28 98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NIV</u>
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EXCAVATION APPROX. <u>35</u> FT. x <u>35</u> FT. x <u>25</u> FT. DEEP.	CUBIC YARDAGE: <u>1050</u>
DISPOSAL FACILITY: <u>ON SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>	
LAND USE: <u>RANGE</u> LEASE: <u>JIC.A</u> FORMATION: <u>DIC</u>	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>114</u> FT. <u>N 89° E</u> FROM WELLHEAD DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMOC RANKING SCOPE: <u>0</u> NMOC TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:
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CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

SIDEWALL - TOP HALF CONSISTS OF DK YELL ORANGE SAND, BOTTOM HALF CONSISTS OF DK YELL BROWN TO OLIVE GRAY SILTY SAND TO SILT CLAY, COMES W/ SLIGHTLY MOIST TO MOIST FIRM TO VERY STIFF STAINING, OBSERVED BET 17' - PIT BOTTOM THROUGHOUT ALL SIDEWALLS, NO ODOOR DETECTED W/IN EXCAVATION, AND IN ALL OVM SAMPLES

 BOTTOM - BEDROCK (SHALE) DUBBY RED/LT GRAY IN COLOR, VERY HARD, NO APPARENT HC ODOOR IN OVM SAMPLE

RED ROCK BOTTOM

CLOSED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PIT (ppm)
1 @ 18'	51.7
2 @ 19'	146.3
3 @ 19'	108.7
4 @ 20'	123.3
5 @ 25'	8.6

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
2 @ 19	TPH/BTEX	1115

BOTH PASSED

TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

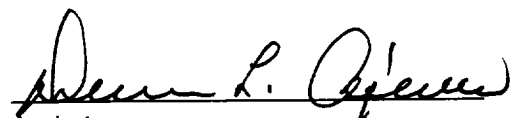
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 19'	Date Reported:	11-30-98
Laboratory Number:	E226	Date Sampled:	11-28-98
Chain of Custody No:	6317	Date Received:	11-30-98
Sample Matrix:	Soil	Date Extracted:	11-30-98
Preservative:	Cool	Date Analyzed:	11-30-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

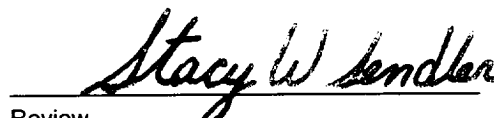
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.9	0.2
Diesel Range (C10 - C28)	2.9	0.1
Total Petroleum Hydrocarbons	6.8	0.2

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 #4 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 @ 19'	Date Reported:	11-30-98
Laboratory Number:	E226	Date Sampled:	11-28-98
Chain of Custody:	6317	Date Received:	11-30-98
Sample Matrix:	Soil	Date Analyzed:	11-30-98
Preservative:	Cool	Date Extracted:	11-30-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	101	8.8
Toluene	581	8.4
Ethylbenzene	381	7.6
p,m-Xylene	1,280	10.8
o-Xylene	746	5.2
Total BTEX	3,090	

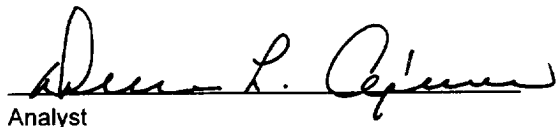
ND - Parameter not detected at the stated detection limit.

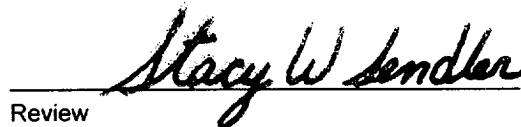
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

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 A #4 Separator Pit.


Analyst


Review

6317

[illegible]

83674

**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: JICARILLA A-4

Location: Unit or Qtr/Qtr Sec K Sec 19 T 26N R 5W County RIO ARriba

Land Type: RANGE

Date Remediation Started: 11-28-98

Date Completed: 6/2/99

Remediation Method: Landfarmed ☒

Approx. cubic yards 1050

Composted ☐

Other ☐

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 6-1-99 Time: 1400

Sample Results:

Field Headspace (ppm) 27.8

TPH (ppm) 8.1 Method TPH (8015)

Other ☐

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

DATE 6/2/99 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 ☐ (REASON) _____

SIGNED: K. C. M... DATE: 6-18-99

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>83672</u> C.O.C. NO: <u>7057</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA</u> A WELL #: <u>4</u> PITS: <u>SEP</u>	DATE STARTED: <u>6.1.99</u>
QUAD/UNIT: <u>K</u> SEC: <u>19</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____
STR/FOOTAGE: <u>NE/4 SW/4</u> CONTRACTOR: <u>P+S</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 1050

LAND USE: RANGE

LIFT DEPTH (ft): 2.5'

FIELD NOTES & REMARKS:

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

NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM

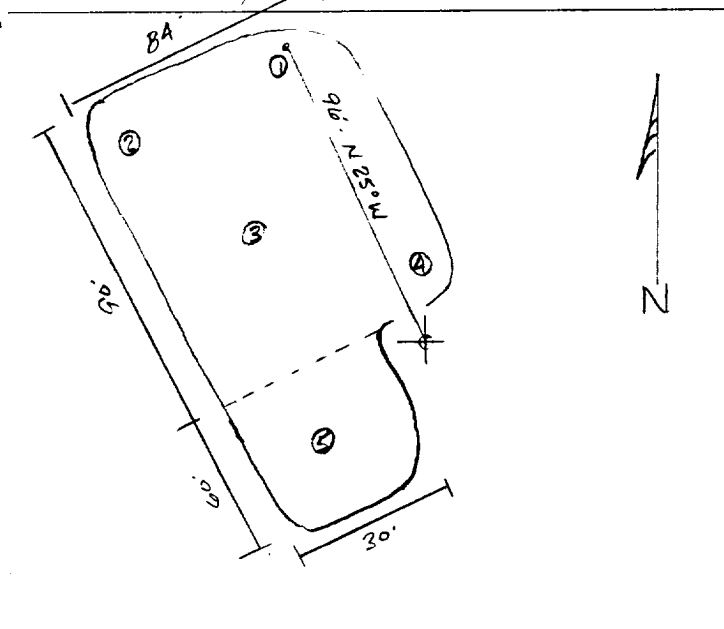
DK 'YELLOWISH BROWN' SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.
NO APPARENT STAINING HC ODOOR DETECTED IN SAMPLING PT. ①.
SAMPLING DEPTHS RANGE FROM 6" - 24" COLLECTED A 5PT. COMPOSITE
SAMPLE FOR LAB ANALYSIS.

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	27.8	LF-1	TPH (8015)	1400	8.1

SCALE

0 1 FT

TRAVEL NOTES:

CALLOUT: NA

ONSITE: 6.1.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

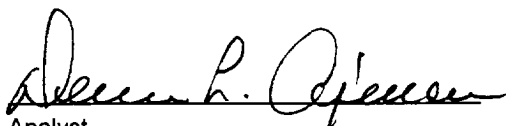
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-02-99
Laboratory Number:	F447	Date Sampled:	06-01-99
Chain of Custody No:	7057	Date Received:	06-02-99
Sample Matrix:	Soil	Date Extracted:	06-02-99
Preservative:	Cool	Date Analyzed:	06-02-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

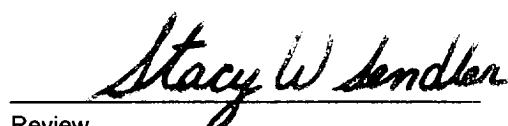
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.4	0.2
Diesel Range (C10 - C28)	4.7	0.1
Total Petroleum Hydrocarbons	8.1	0.2

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 - 4 Landfarm. 5 Pt. Composite.


Analyst


Review

7057

ENVIROTECH INC.