

D10W 85619

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

Non-Vulnerable

Risk-

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
AUG 18 1999

OIL CON. DIV.
DIST. 2
(505) 326-9280

Operator: AMOCO PRODUCTION COMPANY Telephone: _____
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT # 147 - ZE
Location: Unit or Qtr/Qtr Sec I Sec S T 25N R 5W County RIO ARriba
Pit Type: Separator _____ Dehydrator _____ Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length 29', width 20', depth 20'
(Attach diagram) Reference: wellhead X, other _____
Footage from reference: 265'
Direction from reference: 28 Degrees X East of North X
_____ 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)	<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: 9/2/98

Remediation Method: Excavation ☒
 Check all appropriate sections) Landfarmed ☒
 Other _____

Approx. cubic yards 200

In situ Bioremediation _____

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

Onsite ☒ Offsite _____

General Description of Remedial Action: Excavation

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 21' (PIT BOTTOM)

Sample date 9/2/98 Sample time 1215

Sample Results

Soil: Benzene (ppm) _____

Water: Benzene (ppb) _____

Total BTEX (ppm) _____

Toluene (ppb) _____

Field Headspace (ppm) 31.9

Ethylbenzene (ppb) _____

TPH (ppm) 236

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 9/2/98 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: Kerr C. Mann DATE: 10-1-98

30039 22085

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ619</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICA. CONTR. 147</u> WELL #: <u>ZE</u> PIT: <u>BLOW</u>		DATE STARTED: <u>9/2/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>I SEC: 5 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>1450' FSL / 1190' FEL</u> CONTRACTOR: <u>P+S</u>		

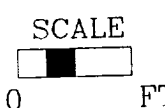
EXCAVATION APPROX. <u>29</u> FT. x <u>20</u> FT. x <u>20</u> FT. DEEP.	CUBIC YARDAGE: <u>200</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JIC 147</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>265</u> FT. <u>N28E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>
NMOCB RANKING SCORE: <u>0</u>	NMOCB TPH CLOSURE STD: <u>5000</u> PPM

CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

SOIL MOSTLY DR. YELL. ORANGE SILTY SAND COHESIVE, SLIGHTLY MOIST DENSE TO VERY DENSE, NO APPARENT STAINING OBSERVED W/IN EXCAVATION, NO APPARENT HC ODOR DETECTED W/IN EXCAVATION, SLIGHT HC ODOR IN PIT BOTTOM OVM SAMPLE, PIT BOTTOM - OLIVE GRAY SAND W/ GRAVEL.

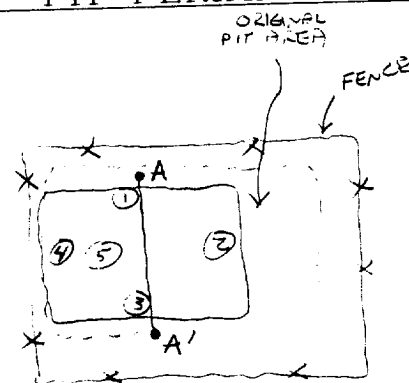
CLOSED



SCALE
0 FT

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1215	⑤ e 21'	TPH-2823	5	20	1:1	59	236
"	"	DUALGATE	5	20	1:1	55	220

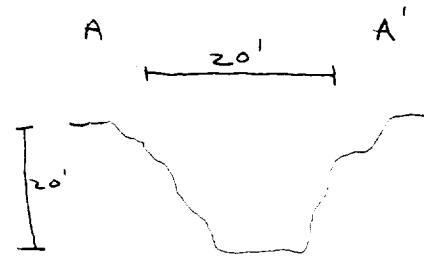
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 14'	0.0
2 @ 15'	0.0
3 @ 15'	0.0
4 @ 16'	0.0
5 @ 21'	31.9

PIT PROFILE



LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES:	CALLOUT: _____	ONSITE: <u>9/2/98 - MORN. / AFTER.</u>
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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	Project #:	
Sample ID:	5 @ 21'	Date Analyzed:	09-02-98
Project Location:	Jicarilla Contract # 147 - 2E	Date Reported:	09-02-98
Laboratory Number:	TPH-2023	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	240	20

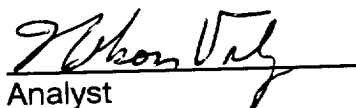
ND = Not Detectable at stated detection limits.

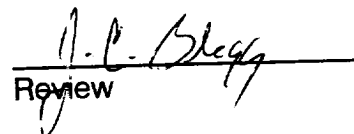
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	236	220	7.02

*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 - BJ619


Analyst


Review

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:

Sample ID:

Project Location:

Laboratory Number:

Amoco

5 @ 21'

Jicarilla Contract # 147 - 2E

TPH-2023

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

09-02-98

09-02-98

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

59 mg/kg

TPH Result:

236.0 mg/kg

Reported TPH Result:

240 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.

236

220

7.02

Comments:

*****Max Characters*****

Comments:

Blow Pit - BJ619

Date Remediation Started: _____ Date Completed: 9/9/98

Remediation Method: Excavation ☒ Approx. cubic yards 400
 (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

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. 4 FT. COMPOSITE
COLLECTED FROM SIDEWALLS FOR LAB ANALYSIS (TPH & BTEX) ALSO.
 Sample depth 26' (PIT BOTTOM)
 Sample date 9/2/98 Sample time 1300

Sample Results PIT BOTTOM

Soil: Benzene	(ppm)	<u>0.973</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>54.380</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>827</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>559</u>	Total Xylenes	(ppb)	_____

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


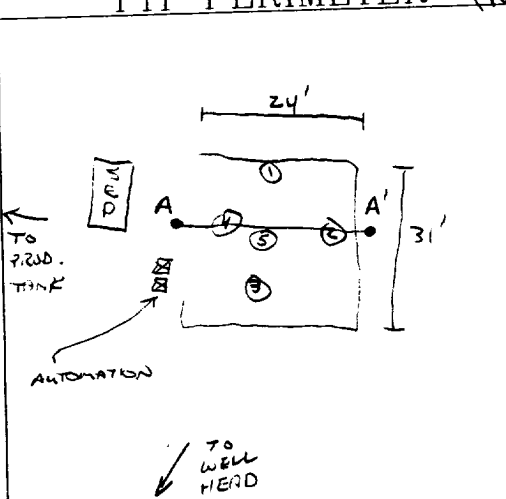
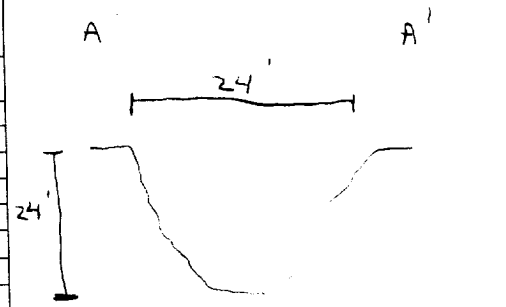
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9/9/98 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) conditional closure

SIGNED: Ken C. M... DATE: 10-1-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8J619</u> C.D.C. NO: <u>6050</u>																																								
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SOIL AND EXCAVATION DESCRIPTION:																																										
<p>SOIL TYPE RANGED FROM SAND TO CLAY (CLAY MOSTLY OBSERVED IN WEST SIDEWALL), OK, YELL. BROWN TO MED. GRAY NOW COHESIVE TO HIGHLY PLASTIC, FIRM TO VERY STIFF, STAINING OBSERVED IN SOUTHWEST CORNER & WEST SIDEWALL (BOTTOM HALF OF EXCAVATION), NO APPARENT HC ODOR DETECTED W/IN EXCAVATION, STRONG HC ODOR IN SOUTH, WEST SIDEWALLS & PIT BOTTOM, PIT BOTTOM CONSISTED OF MED. GRAY SAND W/ STRONG HC ODOR</p> <p style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;">JICALLILA - CONDITIONAL OCD - RISK ASSESSED</p>																																										
FIELD 418.1 CALCULATIONS																																										
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TRAVEL NOTES: CALLOUT: _____																																										
ONSITE: <u>9/2/98 - AFTER</u>																																										

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 147 #2E

Unit I, Sec. 5, 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 (26 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:

1. 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 **non-vulnerable area** and is approximately 1.04 miles north 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 vertical impact to groundwater is very unlikely. 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: 5 @ 26'
Laboratory Number: D901
Chain of Custody No: 6050
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

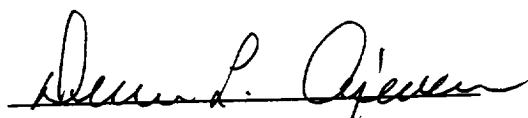
Project #: 04034-10
Date Reported: 09-09-98
Date Sampled: 09-02-98
Date Received: 09-04-98
Date Extracted: 09-09-98
Date Analyzed: 09-09-98
Analysis Requested: 8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	518	0.2
Diesel Range (C10 - C28)	41.4	0.1
Total Petroleum Hydrocarbons	559	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 - 2E Separator Pit. Grab Sample.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

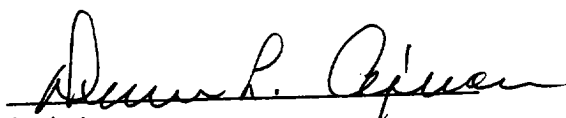
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	09-09-98
Laboratory Number:	D902	Date Sampled:	09-02-98
Chain of Custody No:	6050	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-09-98
Preservative:	Cool	Date Analyzed:	09-09-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	30.0	0.2
Diesel Range (C10 - C28)	1.5	0.1
Total Petroleum Hydrocarbons	31.5	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 - 2E Separator Pit.
4 Pt. Composite of Sidewalls.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 26'	Date Reported:	09-09-98
Laboratory Number:	D901	Date Sampled:	09-02-98
Chain of Custody:	6050	Date Received:	09-04-98
Sample Matrix:	Soil	Date Analyzed:	09-09-98
Preservative:	Cool	Date Extracted:	09-09-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	973	8.8
Toluene	8,880	8.4
Ethylbenzene	5,050	7.6
p,m-Xylene	27,780	10.8
o-Xylene	11,700	5.2
Total BTEX	54,380	

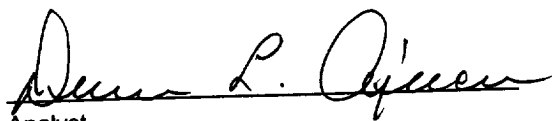
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	98 %

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 - 2E Separator Pit. Grab Sample.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	09-09-98
Laboratory Number:	D902	Date Sampled:	09-02-98
Chain of Custody:	6050	Date Received:	09-04-98
Sample Matrix:	Soil	Date Analyzed:	09-09-98
Preservative:	Cool	Date Extracted:	09-09-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	149	8.8
Toluene	654	8.4
Ethylbenzene	129	7.6
p,m-Xylene	1,720	10.8
o-Xylene	489	5.2
Total BTEX	3,140	

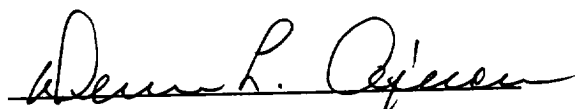
ND - Parameter not detected at the stated detection limit.


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 #147 - 2E Separator Pit.
4 Pt. Composite of Sidewalls.


Analyst


Review

6050

229 Cdc's 6050, 6194, 6195

BJ619

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 CONTRACT 147 - 2E
Location: Unit or Qtr/Qtr Sec 1 Sec 5 T25N R5W County EIO ARIZONA
Land Type: _____

Date Remediation Started: 9.2.98 Date Completed: 5/4/99
Remediation Method: Landfarmed ☒ Approx. cubic yards 600
Composted ☐
Other _____

Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>5.3.99</u>	Time: <u>1150</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>0.0</u>	
Distance To Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>ND</u>	Method <u>TPH (80.5)</u>
		Other _____	
RANKING SCORE (TOTAL POINTS): <u>0</u>			

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

DATE 5/4/99 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 _____ (REASON) _____

SIGNED: _____ DATE: _____

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B5619</u> C.O.C. NO: <u>6906</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA CONTRACT 147 WELL # 2E</u> PITS: <u>SEP. BLOW</u>	DATE STARTED: <u>5.3.99</u>
QUAD/UNIT: <u>1</u> SEC: <u>5</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>NE/4 SE/4</u> CONTRACTOR: <u>P+S</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>6000</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>1.5-2</u>

FIELD NOTES & REMARKS:

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

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

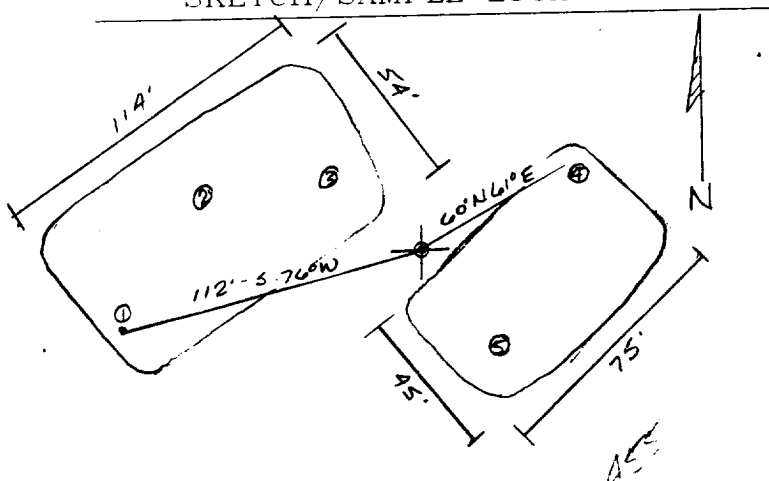
DK. YELLOWISH ORANGE SAND. NON COHESIVE, SLIGHTLY MOIST, FIRM.
NO APPARENT STAINING. NO HC ODOR DETECTED. SAMPLING DEPTHS
RANGE FROM 6"-18". COLLECTED A 5PT. COMPOSITE SAMPLE FOR
LAB ANALYSIS

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

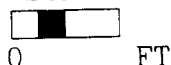


OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	1150	ND

SCALE



TRAVEL NOTES: CALLOUT: NA ONSITE: 5.3.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

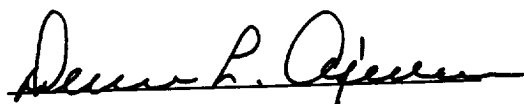
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-04-99
Laboratory Number:	F120	Date Sampled:	05-03-99
Chain of Custody No:	6906	Date Received:	05-04-99
Sample Matrix:	Soil	Date Extracted:	05-04-99
Preservative:	Cool	Date Analyzed:	05-04-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

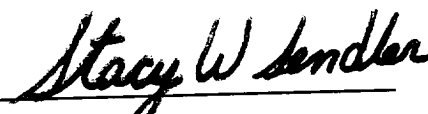
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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 - 2E Landfarm. 5 Pt. Composite.


Analyst


Review

6906

[illegible]