

1510W
BT 671 SEP-04
SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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

AUG 1999
OIL & GAS
DIST. 3
VED
DIV.

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 APACHE # 102-12

Location: Unit or Qtr/Qtr Sec 6 Sec 9 T 26N R 4W County RIO ARriba

Pit Type: Separator Dehydrator Other BLOW

Land Type: RANGE

Pit Location: Pit dimensions: length 30', width 36', depth 19'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 205'

Direction from reference: 90 Degrees East of North X
X 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

8J671

Blow PIT

Date Remediation Started: _____ Date Completed: 10/22/98

Remediation Method: Excavation ☒ Approx. cubic yards 600
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite ☒ JICA. AP. 102-2 (6-9-26-4)
(i.e. landfarmed onsite, name and location of offsite facility) (APPROX. 100 c.y.)

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 15' (EAST SIDEWALL)

Sample date 10/21/98 RV Sample time 0955

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>22.4</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>ND</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 10/2/98 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) Sample Date ?

SIGNED: K. C. Mamm DATE: 12-31-99

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ571</u> C.D.C. NO: <u>6320</u>																																
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>TEARILLA APACHE 102</u> WELL #: <u>12</u> PIT: <u>BLOW</u> QUAD/UNIT: <u>G</u> SEC: <u>9</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NH</u> QTR/FOOTAGE: <u>SW/4 NE/4</u> CONTRACTOR: <u>PAUL</u>		DATE STARTED: <u>10/18/98</u> DATE FINISHED: <u>10/21/98</u> ENVIRONMENTAL SPECIALIST: <u>JCS</u>																																
EXCAVATION APPROX. <u>30</u> FT. x <u>36</u> FT. x <u>19'</u> FT. DEEP. CUBIC YARDAGE: <u>600</u> DISPOSAL FACILITY: <u>ON SITE / TICA. AP. 102-2</u> REMEDIATION METHOD: <u>LANDFARM</u> LAND USE: <u>RANGE</u> LEASE: <u>FEDERAL LSE 102</u> FORMATION: _____																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>205</u> FT. <u>N90°W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u> NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:																																		
<p>UNCONSOLIDATED CLAY, DARK YELLOW BROWN, FROM Ground Surface to 15' depth. Dry to moist, cohesive, Non consolidated.</p> <p>H+ Bedrock from 15' - 19', Dry, CLAYSTONE, HARD.</p> <p>MINOR HC ODOR ON North, West & Bottom samples. No HC odor on South or East samples.</p>																																		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><u>BEDROCK BOTTOM</u></p> <p><u>CLOSED</u></p> <p>SCALE</p> <p>0 FT</p> </div> <div style="width: 60%;"> <p>FIELD 418.1 CALCULATIONS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</th> <th>LAB No:</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> </div>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																								
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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 #:	04034-10
Sample ID:	Blow E @ 15'	Date Reported:	10-22-98
Laboratory Number:	E089	Date Sampled:	10-21-98
Chain of Custody No:	6360	Date Received:	10-22-98
Sample Matrix:	Soil	Date Extracted:	10-22-98
Preservative:	Cool	Date Analyzed:	10-22-98
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: Jica. Apa. 102 - 12.


Analyst


Review

8J671

SUBMIT 1 COPY TO
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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 APACHE #102-12
Location: Unit or Qtr/Qtr Sec 6 Sec 9 T 26N R 4W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: (Attach diagram) Pit dimensions: length 36', width 24', depth 15'
Reference: wellhead ☒, other ☐
Footage from reference: 156'
Direction from reference: 35 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: 10/22/98

Remediation Method: Excavation ☒ Approx. cubic yards 300
 (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 14' (WEST SIDEWALL)
 Sample date 10/18/98 9U Sample time 1025

Sample Results

Soil: Benzene	(ppm)	<u>0.0555</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>2.720</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>351</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>6.6</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 10/22/98 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: [Signature] DATE: 3-31-99

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85671</u> C.D.C. NO: <u>6360</u>																																								
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>JICARILLA APACHE 102</u> WELL #: <u>12</u> PIT: <u>SEP</u> QUAD/UNIT: <u>G SEC: 9</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>SW/4 NE/4</u> CONTRACTOR: <u>PAUL</u>		DATE STARTED: <u>10/19/94</u> DATE FINISHED: <u>10/21/95</u> ENVIRONMENTAL SPECIALIST: <u>JLS</u>																																								
EXCAVATION APPROX. <u>36</u> FT. x <u>24</u> FT. x <u>15</u> FT. DEEP. CUBIC YARDAGE: <u>300</u> DISPOSAL FACILITY: <u>ON SITE</u> REMEDIATION METHOD: <u>LANDFARM</u> LAND USE: <u>RANGE</u> LEASE: <u>FED. LSE 102</u> FORMATION: _____																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>156'</u> FT. <u>S35°W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u> NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION: UNCONSOLIDATED CLAY, DARK YELLOW ORANGE FROM GROUND SURFACE TO 14' DEPTH. DRY TO MOIST, COHESIVE, NON CONSOLIDATED. MINOR HC STAIN ON WEST WALL FROM 3'-10' DEPTH. BEDROCK FROM 14' TO 15' TO, DRY CLAYSTONE, HARD. MINOR HC ODOR ON ALL SAMPLES.																																										
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TRAVEL NOTES: CALLOUT: _____ ONSITE: _____																																										

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

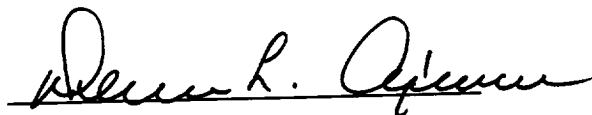
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	Separator W @ 14'	Date Reported:	10-22-98
Laboratory Number:	E090	Date Sampled:	10-21-98
Chain of Custody No:	6360	Date Received:	10-22-98
Sample Matrix:	Soil	Date Extracted:	10-22-98
Preservative:	Cool	Date Analyzed:	10-22-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.2	0.2
Diesel Range (C10 - C28)	3.4	0.1
Total Petroleum Hydrocarbons	6.6	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: Jica. Apa. 102 - 12.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Amoco	Project #:	04034-10
Sample ID:	Separator W @ 14'	Date Reported:	10-22-98
Laboratory Number:	E090	Date Sampled:	10-21-98
Chain of Custody:	6360	Date Received:	10-22-98
Sample Matrix:	Soil	Date Analyzed:	10-22-98
Preservative:	Cool	Date Extracted:	10-22-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	55.5	8.8
Toluene	567	8.4
Ethylbenzene	393	7.6
p,m-Xylene	1,090	10.8
o-Xylene	613	5.2
Total BTEX	2,720	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	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: Jica. Apa. 102 - 12.


Analyst


Review

6360

Ref Doc's 6360-6363

**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: <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 APACHE 102-12</u>		
Location: Unit or Qtr/Qtr Sec <u>6</u> Sec <u>9</u> T <u>26N</u> R <u>4W</u> County <u>RIO ARriba</u>		
Land Type: <u>RANGE</u>		
Date Remediation Started: <u>10-21-98</u>		Date Completed: <u>5/17/99</u>
Remediation Method: Landfarmed <input checked="" type="checkbox"/>		Approx. cubic yards <u>800</u>
Composted <input type="checkbox"/>		
Other <input type="checkbox"/>		
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>5-13-99</u> Time: <u>1130</u> Sample Results: Field Headspace (ppm) <u>36.8</u> TPH (ppm) <u>21.7</u> Method <u>TPH (6015)</u> Other <input type="checkbox"/>
Distance to an Ephemeral Stream (pts.) <u>0</u>		
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		
Wellhead Protection Area: (pts.) <u>0</u>		
Distance To Surface Water: (pts.) <u>0</u>		
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 <u>5/17/99</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 checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____		
SIGNED: <u>K. C. Mann</u>		DATE: <u>6-18-99</u>

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>83671</u> C.O.C. NO: <u>4927</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA APACHE 102</u> WELL #: <u>12</u> PITS: <u>SEP, BLOW</u>	DATE STARTED: <u>5.13.99</u> DATE FINISHED: _____
QUAD/UNIT: <u>G</u> SEC: <u>9</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>REP.</u>
QTR/FOOTAGE: <u>SW/4 NE/4</u> CONTRACTOR: <u>R+S</u>	

SOIL REMEDIATION:

 REMEDIATION SYSTEM: LANDFARM

 APPROX. CUBIC YARDAGE: 800

 LAND USE: RANGE

 LIFT DEPTH (ft): 1'

FIELD NOTES & REMARKS:

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

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

DK. YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.
 LARGE AREA OF STAINING OBSERVED IN LANDFARMS 2+3. (SEE SKETCH BELOW)
 HC ODOR DETECTED IN SAMPLING PTS. ② + ④ SAMPLING DEPTHS RANGE FROM
 6" - 10" COLLECTED A 5PT COMPOSITE SAMPLE FOR LAB ANALYSIS.

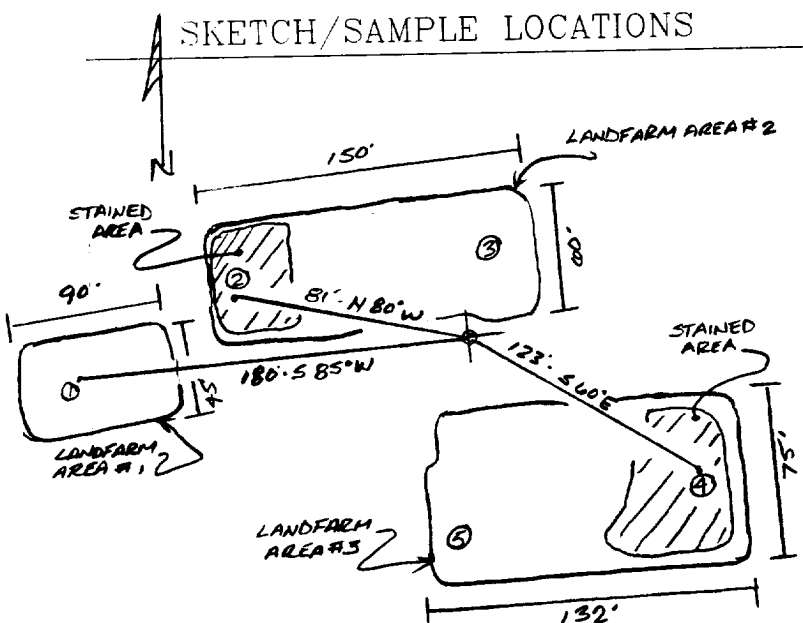
CLOSED

APPROX. 100 C.Y. DISPOSED
 TO JICA. AP. 102-Z

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	36.8	LF-1	TPH (8015)	1130	21.7

SCALE

0 FT

TRAVEL NOTES:

 CALLOUT: N/A

 ONSITE: 5.13.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO
Sample ID: LF - 1
Laboratory Number: F250
Chain of Custody No: 6927
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

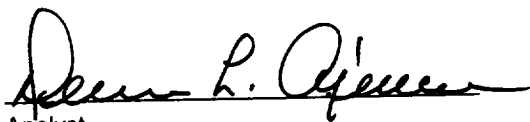
Project #: 403410
Date Reported: 05-17-99
Date Sampled: 05-13-99
Date Received: 05-14-99
Date Extracted: 05-17-99
Date Analyzed: 05-17-99
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.1	0.2
Diesel Range (C10 - C28)	19.6	0.1
Total Petroleum Hydrocarbons	21.7	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 Apache 102 - 12 Landfarm. 5 Pt. Composite.


Analyst


Review

6927

[illegible]