

Blow-on
BT698
SEP - OK

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**

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
AUG 27 1999

OIL CON. DIV.
(505) 326-9200
DIST. 3

Operator: AMOCO PRODUCTION COMPANY **Telephone:** _____

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA CONTRACT # 155-16

Location: Unit or Qtr/Qtr Sec E Sec 30 T 26N R 5W County RIO ARriba

Pit Type: Separator _____ Dehydrator _____ Other Blow

Land Type: RANGE

Pit Location: Pit dimensions: length 38', width 35', depth 4'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 400'

Direction from reference: 68 Degrees _____ East of North X
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 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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 12/1/98

Remediation Method: Excavation ☒ Approx. cubic yards 175
 (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. ENTIRE EXCAVATION CONSISTED OF BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

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 4' (PIT BOTTOM)

Sample date 12/1/98 Sample time 1420

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>13.8</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>NA</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 12/1/98 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: Kenn C Marshall DATE: 12-28-98

06321

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85698</u> C.D.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>JKA CONTR. 155</u> WELL #: <u>16</u> PIT: <u>BLW</u> QUAD/UNIT: <u>E</u> SEC: <u>30</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1850' FWL</u> <u>790' FWL</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>12/1/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>38</u> FT. x <u>35</u> FT. x <u>4</u> FT. DEEP.	CUBIC YARDAGE: <u>175</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JIC 155</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>400</u> FT. <u>N68W</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:
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CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

ENTIRE EXCAVATION CONSISTED OF BEDROCK (SHALE), VERY PALE ORANGE TO MED. GRAY (PREDOMINATELY @ PIT BOTTOM) IN COLOR, FRIABLE @ SIDEWALLS TO VERY HARD @ PIT BOTTOM, UNABLE TO DISCERN STAINING WITH EXCAVATION NO APPARENT HC ODOR WITH EXCAVATION, DIESEL OR PARAFFIN TYPE ODOR FROM PIT BOTTOM DURN SAMPLE, ALL SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

ENTIRE EXCAVATION BEDROCK

CLOSED

SCALE

 0 FT

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1420							

PIT PERIMETER

↑ N

PIT PROFILE

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 2'	0.0
2 @ 2'	0.0
3 @ 2'	0.0
4 @ 2'	0.0
5 @ 4'	13.8

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528**

87698

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

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 # 155 - 16
Location: Unit or Qtr/Qtr Sec E Sec 30 T 26N R 5W County RIO ARriba
Pit Type: Separator X Dehydrator Other
Land Type: RANGE

Pit Location: (Attach diagram) Pit dimensions: length 33', width 42', depth 15'
Reference: wellhead X, other
Footage from reference: 160'
Direction from reference: 89 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) 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

8J698

SEP. PIT

Date Remediation Started: _____ Date Completed: 12 / 2 / 98Remediation Method: Excavation ☒
(Check all appropriate sections) Landfarmed ☒Approx. cubic yards 675

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 DocumentsSample depth 10' (NORTH SIDEWALK)Sample date 12/1/98 Sample time 1315

Sample Results

Soil: Benzene	(ppm)	<u>0.254</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>21.600</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>736</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>3,600</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 12/2/98 PRINTED NAME Buddy D. ShawSIGNATURE 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: 12-28-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8J698</u> C.O.C. NO: <u>646</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>JICA - CONTR.</u> 155 WELL #: <u>16</u> PIT: <u>SEP.</u> QUAD/UNIT: <u>E</u> SEC: <u>30</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1850'FWL</u> <u>790'FWL</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>12/1/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>33</u> FT. x <u>42</u> FT. x <u>15</u> FT. DEEP. CUBIC YARDAGE: <u>675</u> DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFORM</u> LAND USE: <u>RANGE</u> LEASE: <u>JIC 155</u> FORMATION: <u>DK</u>
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FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>160</u> FT. <u>589E</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 <u>SOIL AND EXCAVATION DESCRIPTION:</u>	CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED
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SIDEWALLS - DK. YELL. ORANGE TO BROWN SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM TO STIFF NO NOTICEABLE STAINING, HC ODOR DETECTED w/in EXCAVATION, STRONG HC ODOR IN ALL OVM SAMPLES EXCEPT EAST SIDEWALL.

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

BEDROCK BOTTOM

SCALE

0 FT

CLOSED

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 @ 10'	736
2 @ 9'	0.0
3 @ 9'	726
4 @ 9'	326
5 @ 15'	335

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① @ 10'	TPH/BTEX	1315
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
Sample ID: 1 @ 10'
Laboratory Number: E242
Chain of Custody No: 6416
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

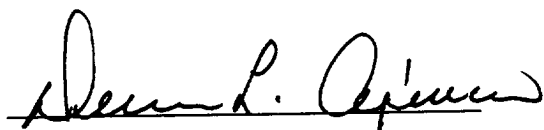
Project #: 04034-10
Date Reported: 12-02-98
Date Sampled: 12-01-98
Date Received: 12-02-98
Date Extracted: 12-02-98
Date Analyzed: 12-02-98
Analysis Requested: 8015 TPH

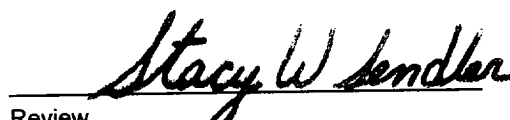
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,860	0.2
Diesel Range (C10 - C28)	1,740	0.1
Total Petroleum Hydrocarbons	3,600	0.2

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 #155 - 16 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:	1 @ 10'	Date Reported:	12-02-98
Laboratory Number:	E242	Date Sampled:	12-01-98
Chain of Custody:	6416	Date Received:	12-02-98
Sample Matrix:	Soil	Date Analyzed:	12-02-98
Preservative:	Cool	Date Extracted:	12-02-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	254	8.8
Toluene	2,470	8.4
Ethylbenzene	1,700	7.6
p,m-Xylene	11,950	10.8
o-Xylene	5,230	5.2
Total BTEX	21,600	

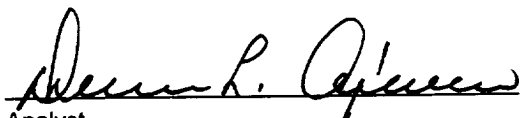
ND - Parameter not detected at the stated detection limit.


Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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 #155 - 16 Separator Pit.


Analyst


Review

6416

[illegible]

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 155-16

Location: Unit or Qtr/Qtr Sec D Sec 30 T 26N R 5W County BLA AIRIBA

Land Type: RANGE

Date Remediation Started: 12-1-98

Date Completed: 6/8/99

Remediation Method: Landfarmed ✓

Approx. cubic yards 850

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: 6-7-99 Time: 1115

Sample Results:

Field Headspace (ppm) 181.2

TPH (ppm) 468 Method 8015/8021

Other BENZENE 0.128 ppm

TOT. BTEX 2.680 ppm

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

DATE 6/8/99 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>83698</u> C.D.C. NO: <u>7065</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA CONTRACT</u> ISS WELL #: <u>16</u> PITS: <u>SEP, BLOW</u>	DATE STARTED: <u>6-7-99</u> DATE FINISHED: _____
QUAD/UNIT: <u>E</u> SEC: <u>30</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>
QTR/FOOTAGE: <u>SW/4 NW/4</u> CONTRACTOR: <u>P+S</u>	

SOIL REMEDIATION:

 REMEDIATION SYSTEM: LANDFARM

 APPROX. CUBIC YARDAGE: ⁸⁵⁰ 850

 LAND USE: RANGE

 LIFT DEPTH (ft): 1'

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

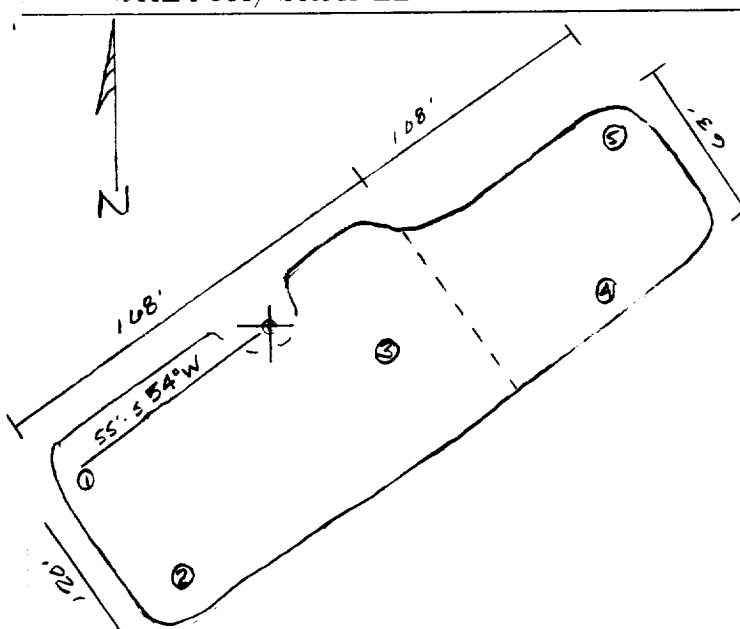
DK YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.
 NO APPARENT STAINING. HC ODOR DETECTED IN SAMPLING PTS. ③ + ④.
 SAMPLING DEPTHS RANGE FROM 6" - . COLLECTED A 5PT. COMPOSITE
 SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

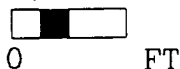


OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	181.2	LF-1	TPH (8015)	11/5	468
		"	BENZENE	"	128 ppb
		"	TOT. BTEX	"	2,680 ppb

SCALE


 TRAVEL NOTES: CALLOUT: NA ONSITE: 6-7-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

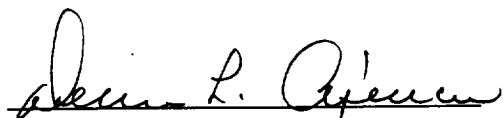
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-08-99
Laboratory Number:	F463	Date Sampled:	06-07-99
Chain of Custody No:	7065	Date Received:	06-08-99
Sample Matrix:	Soil	Date Extracted:	06-08-99
Preservative:	Cool	Date Analyzed:	06-08-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	220	0.2
Diesel Range (C10 - C28)	248	0.1
Total Petroleum Hydrocarbons	468	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 155 - 16 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-08-99
Laboratory Number:	F463	Date Sampled:	06-07-99
Chain of Custody:	7065	Date Received:	06-08-99
Sample Matrix:	Soil	Date Analyzed:	06-08-99
Preservative:	Cool	Date Extracted:	06-08-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	128	8.8
Toluene	276	8.4
Ethylbenzene	325	7.6
p,m-Xylene	1,620	10.8
o-Xylene	328	5.2
Total BTEX	2,680	

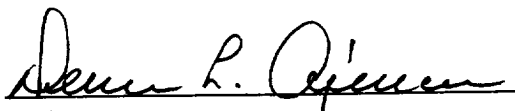
ND - Parameter not detected at the stated detection limit.

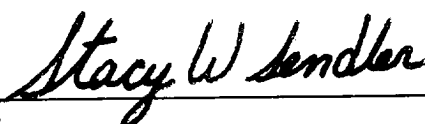
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	95 %

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 155 - 16 Landfarm. 5 Pt. Composite.


Analyst


Review

7065

[illegible]