

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

BT 568
Blow-OK
Sep-OK
SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

RECEIVED
AUG 27 1999

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.

DIST. 3
(505) 326-9200

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA GC 35 D #1
Location: Unit or Qtr/Qtr Sec L Sec 12 T 24N R 5W County RIO ARriba
Pit Type: Separator Dehydrator Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length 54', width 43', depth 19'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 190'
Direction from reference: 25 Degrees East of North
X 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) 0
Greater than 100 feet (0 points)

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) 0
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____

Date Completed: _____

11/26/97

Remediation Method:

Excavation

☒(check all appropriate
options)

Landfarmed

☒

Other _____

Approx. cubic yards

1,200

Insitu Bioremediation _____

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

Sample depth

21' (PIT BOTTOM)

Sample date

11/25/97

Sample time

1245

Sample Results

Soil: Benzene

(ppm)

Water: Benzene

(ppb)

Total BTEX

(ppm)

Toluene

(ppb)

Field Headspace

(ppm)

0.0

Ethylbenzene

(ppb)

TPH

(ppm)

53.0

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

11/26/97

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:

Kurt C. Marshall

DATE:

1-6-98

3003921994

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>87508</u> C.D.C. NO: <u>5676</u>
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FIELD REPORT: CLOSURE VERIFICATION

PAGE NO: 1 of 1DATE STARTED: 11/25/97

DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: NV

LOCATION: NAME JICA GC 35 WELL # 1 PIT BLOW
 QUAD/UNIT: L SEC 12 TWP: 24N RNG: 5W PM: NM CNTY: RA ST: NM
 DTP/EDOTAGE NW 1/4 SW 1/4 CONTRACTOR: P&S

EXCAVATION APPROX. 54 FT. x 43 FT. x 19 FT. DEEP. CUBIC YARDAGE: 1,200

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED

LAND USE: RANGE LEASE: CA SRMT 4325 FORMATION: OK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 190 FT. 525W FROM WELLHEAD.
 DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

IMMOBILIZING COEFF: 0 IMMOBILIZATION CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

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

SOIL CONSIST OF MOSTLY MOD. TO DR. YELL. BROWN SAND SOME GRAVEL INTERMIXED W/ SAND NEAR BOTTOM HALF OF EXCAVATION, SLIGHTLY MOIST TO MOIST, FIRM, NO APPARENT STAINING OR DISCOLORATION OBSERVED W/IN EXCAVATION, NO APPARENT HC ODS IN ANY OF THE DUM SAMPLES.

CLOSED

FIELD 4181 CALCULATIONS

TIME	SAMPLE ID	LAB No.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
1245							

SCALE



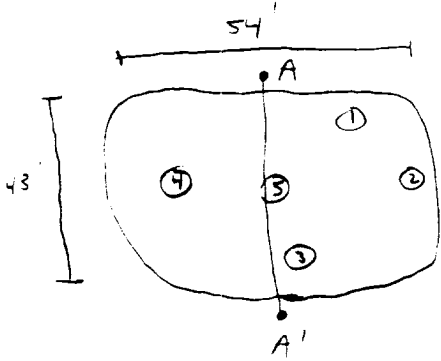
0 FT

PIT PERIMETER



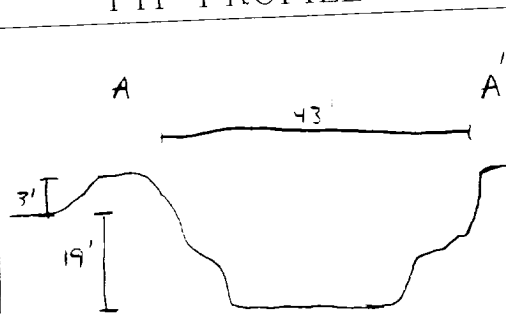
OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE P.D. (ppm)
1 @ 12'	0.0
2 @ 14'	0.0
3 @ 14'	0.0
4 @ 14'	0.0
5 @ 21'	0.0

SAMPLE ID	ANALYSIS	TIME
3 @ 21'	TAH (418.1)	1245
	PASSED	



TRAVEL NOTES:

CALLOUT: 11/24/97 - MORN.ONSITE: 11/25/97 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

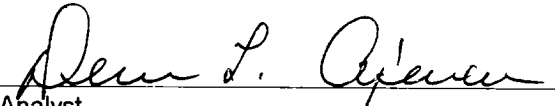
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 21'	Date Reported:	11-26-97
Laboratory Number:	C585	Date Sampled:	11-25-97
Chain of Custody No:	5676	Date Received:	11-25-97
Sample Matrix:	Soil	Date Extracted:	11-26-97
Preservative:	Cool	Date Analyzed:	11-26-97
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

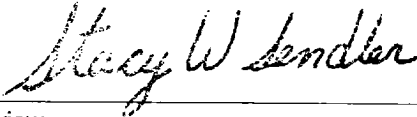
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	53.0	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Jicarilla GC 35 D #1 Blow Pit.


Analyst


Review

87508

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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**

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 GC 35 D #1
Location: Unit or Qtr/Qtr Sec L Sec 12 T 24N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 28', width 25', depth 22'
(Attach diagram) Reference: wellhead ☒ other ☐
Footage from reference: 192'
Direction from reference: 85 Degrees ☐ East 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)	<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: 11/26/97

Remediation Method: Excavation ☒ Approx. cubic yards 350
ck all appropriate (i.e. landfarmed onsite, name and location of offsite facility) Landfarmed ☒
Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite _____

General Description of Remedial Action: Excavation

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 25' (PIT BOTTOM)

Sample date 11/25/97 Sample time 1200

Sample Results

Soil: Benzene	(ppm) _____	Water: Benzene	(ppb) _____
Total BTEX	(ppm) _____	Toluene	(ppb) _____
Field Headspace	(ppm) <u>0.0</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>139</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 11/26/97 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: Karen C. Mammill DATE: 1-6-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BT508</u> C.O.C. NO: <u>5676</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 GC 35 D WELL # 1</u> PIT: <u>SEP</u>	DATE STARTED: <u>11/25/97</u> DATE FINISHED: _____
QUAD/UNIT: <u>L SEC 12 TWP 24N RNG 5W PM NM CNTY RA ST NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
OTR/FOOTAGE: <u>NW 1/4 SW 1/4</u> CONTRACTOR: <u>P & S</u>	


EXCAVATION APPROX. <u>28</u> FT. x <u>25</u> FT. x <u>22</u> FT. DEEP. CUBIC YARDAGE: <u>350</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u> LEASE: <u>LA SRMII 4325</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>192</u> FT. <u>S85W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
IMPOSED BANKING SLOPE: <u>0</u> IMPOSED TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:

☒ CHECK ONE
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIREGLASS TANK INSTALLED

SOIL CONSIST OF MOSTLY OK. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR DISCOLORATION OBSERVED WITH EXCAVATION, NO APPARENT HC ODOR IN ANY OF THE OUM SAMPLES.

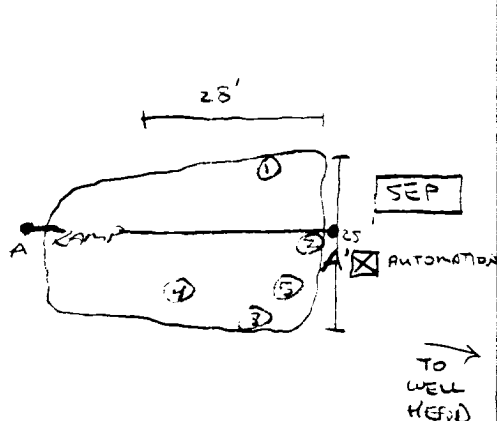
CLOSED

SCALE

 0 FT

FIELD 418.1 CALCULATIONS

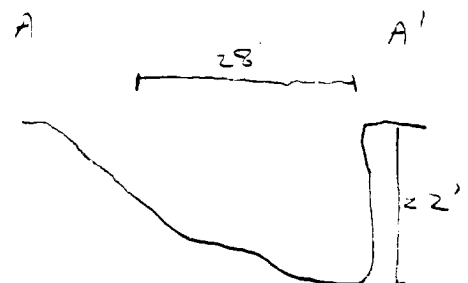
TIME	SAMPLE ID	LAB No	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
1200							

PIT PERIMETER OVM RESULTS



SAMPLE ID	FIELD HEADSPACE P.D. (ppm)
1 @ 16'	0.0
2 @ 17'	0.0
3 @ 16'	0.0
4 @ 14'	0.0
5 @ 25'	0.0

PIT PROFILE



SAMPLE ID	ANALYSIS	TIME
3 @ 25'	TPH (418.1)	1200

PASSED

TRAVEL NOTES: CALLOUT: <u>11/24/97 - MORN.</u> ONSITE: <u>11/25/97 - MORN.</u>

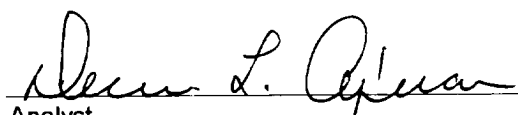
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 25'	Date Reported:	11-26-97
Laboratory Number:	C584	Date Sampled:	11-25-97
Chain of Custody No:	5676	Date Received:	11-25-97
Sample Matrix:	Soil	Date Extracted:	11-26-97
Preservative:	Cool	Date Analyzed:	11-26-97
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

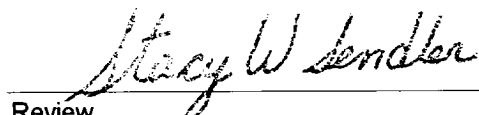
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	139	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Jicarilla GC 35 D #1 Separator Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS						
Sampler: (Signature)			Chain of Custody Tape No.		Remarks						
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers						
⑤ 0251	11/25/97	1200	CS84	SOIL	1	✓	SEPARATOR PIT				
⑤ 0211	11/25/97	1245	CS85	SOIL	1	✓	BLOW PIT				
							BOTH SAMPLES				
							PRESERV. - COOL				
							+ ARE GREEN				
							SAMPLES.				
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Date					Time
Alfon Vel			11/25/97	1445	Alfon Vel	11-25-97					1445
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

83508

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AND OIL & GAS ADMINISTRATION

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

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 GAS COM 35 D #1

Location: Unit or Qtr/Qtr Sec 4 Sec 12 T 24N R 5W County DO ARriba

Land Type: RANGE

Date Remediation Started: 11-25-97 Date Completed: 1/12/99

Remediation Method: Landfarmed ✓

Approx. cubic yards 1550

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: 12-30-98 Time: 0840

Sample Results: (LF-1 & LF-2)

Field Headspace (ppm) 0.0

TPH (ppm) (LF-1) 1,920 Method 8015

Other MULTIPLE SAMPLES - REFER TO

ATTACHED SHEET

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

DATE 1/12/99 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 X NO (REASON)

SIGNED: K. C. Man DATE: 3-31-99

CLIENT: <u>AMOCC</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81508</u> C.O.C. NO: <u>0433</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LANDFARM NAME: <u>JICARILLA GAS COM 3SD</u> WELL #: <u>1</u>	PITS: <u>SEP., BLOW</u>	DATE STARTED: <u>12-30-98</u>
QUAD UNIT: <u>L SEC: 12 TWP: 24N RNG: 5W PM NM CNTY: RA ST: NM</u>		DATE FINISHED: <u>1/12/99</u>
SIZE/FOOTAGE: <u>NW/4 SW/4</u>	CONTRACTOR:	ENVIRONMENTAL SPECIALIST: <u>REP</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 1550

LAND USE: RANGE

LIFT DEPTH (ft): 1-2'

FIELD NOTES & REMARKS:

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

NMDD BANKING SCORE: 0 NMDD TPH CLOSURE STD: 5000 PPM

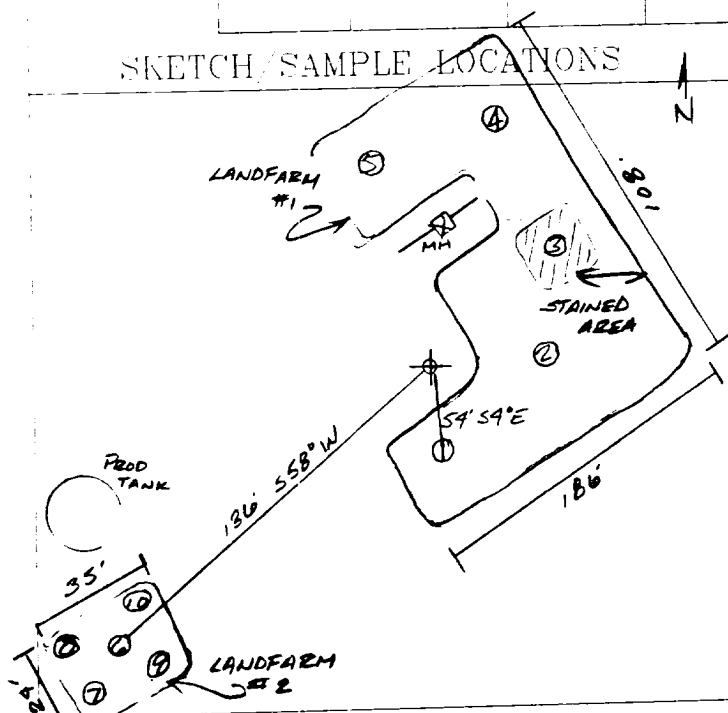
DK YELL. ORANGE - BROWN SAND NON COHESIVE SLIGHTLY MOIST, FIRM, SOME STAINING OBSERVED IN SMALL AREA OF LANDFARM #1 (SEE SKETCH BELOW) NO HC ODOR DETECTED SAMPLING DEPTH BETWEEN 4" - 18" 5 POINT COMPOSITE SAMPLES TAKEN FROM BOTH LANDFARMS FOR LAB ANALYSIS

CLOSED

FIELD 4181 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE P/C (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (80:15)	0840	1,920
LF-2	0.0	LF-2	TPH (80:15)	0900	107

SCALE



TRAVEL NOTES:

COLLECT:

ONSITE:

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

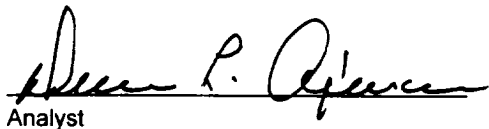
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-06-99
Laboratory Number:	E452	Date Sampled:	12-30-98
Chain of Custody No:	6433	Date Received:	01-05-99
Sample Matrix:	Soil	Date Extracted:	01-05-99
Preservative:	Cool	Date Analyzed:	01-06-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

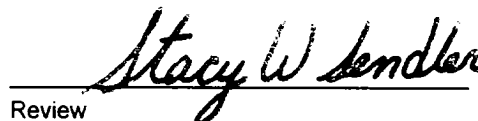
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.5	0.2
Diesel Range (C10 - C28)	1,920	0.1
Total Petroleum Hydrocarbons	1,920	0.2

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 GC 35 D #1 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

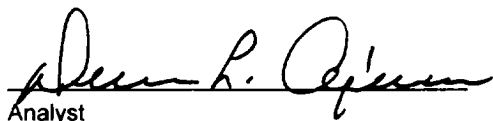
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 2	Date Reported:	01-06-99
Laboratory Number:	E453	Date Sampled:	12-30-98
Chain of Custody No:	6433	Date Received:	01-05-99
Sample Matrix:	Soil	Date Extracted:	01-05-99
Preservative:	Cool	Date Analyzed:	01-06-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.6	0.2
Diesel Range (C10 - C28)	101	0.1
Total Petroleum Hydrocarbons	107	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 GC 35 D #1 Landfarm. 5 Pt. Composite.


Analyst


Review

6433

[illegible]