

RECEIVED
JUL 13 1999

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

DEPUTY OIL & GAS INSPECTOR
AND OIL & GAS ADMINISTRATION
AUG 13 1999

OIL CON. DIV.

DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA A 8
Location: Unit or Qtr/Qtr Sec H Sec 17 T 26N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 35', width 26', depth 11'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 80'
Direction from reference: 83 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

BJ462 / SEP. PIT

Date Remediation Started: _____ Date Completed: 10 / 24 / 96

Remediation Method: Excavation ☒ Approx. cubic yards 300
check all appropriate (actions) 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 _____

Sample date 10/22/96 Sample time 1350

Sample Results

| | | | | | |
|-----------------|-------|---------------|----------------|-------|-------|
| Soil: Benzene | (ppm) | _____ | Water: Benzene | (ppb) | _____ |
| Total BTEX | (ppm) | _____ | Toluene | (ppb) | _____ |
| Field Headspace | (ppm) | <u>763</u> | Ethylbenzene | (ppb) | _____ |
| TPH | (ppm) | <u>14,500</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 10/24/96 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 Failed TPH

SIGNED: Kearney Mammill DATE: 11-5-96

| | | |
|----------------------|--|---|
| CLIENT: <u>AMOCO</u> | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | LOCATION NO: <u>BJ462</u> C.O.C. NO: <u>4921</u> |
|----------------------|--|---|

| | |
|------------------------------------|-------------------------------|
| FIELD REPORT: CLOSURE VERIFICATION | PAGE No: <u>1</u> of <u>1</u> |
|------------------------------------|-------------------------------|

| | |
|--|--|
| LOCATION: NAME: <u>JICARILLA</u> A WELL #: <u>8</u> PIT: <u>SEP</u> QUAD/UNIT: <u>H</u> SEC: <u>17</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> OTR/FOOTAGE: <u>SE/4 NE/4</u> CONTRACTOR: <u>P+S</u> | DATE STARTED: <u>10/22/96</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u> |
|--|--|

| | | |
|--|------------------------------------|-------------------------|
| EXCAVATION APPROX. <u>35</u> FT. x <u>26</u> FT. x <u>11</u> FT. DEEP. | CUBIC YARDAGE: <u>300</u> | |
| DISPOSAL FACILITY: <u>ON-SITE</u> | REMEDIAL METHOD: <u>LANDFARMED</u> | |
| LAND USE: <u>RANGE</u> | LEASE: <u>JICA. CONT. 110</u> | FORMATION: <u>GP/DK</u> |

| | | |
|--|--|---|
| FIELD NOTES & REMARKS: | PIT LOCATED APPROXIMATELY <u>80</u> FT. <u>S83W</u> FROM WELLHEAD. | |
| DEPTH TO GROUNDWATER: <u>>1000'</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 | |
| COIL AND EXCAVATION DESCRIPTION: | | |

| |
|---|
| CHECK ONE : |
| <input checked="" type="checkbox"/> PIT ABANDONED |
| <input type="checkbox"/> STEEL TANK INSTALLED |

SIDEWALLS - MOSTLY PALE YELL. BROWN SILTY SAND, OLIVE GRAY W/IN MAJORITY OF SOUTH SIDEWALL, NON-COHESIVE TO COHESIVE (TOWARD BOTTOM HALF), SLIGHTLY MOIST TO VERY MOIST (SOUTH SIDEWALL), FIRM TO VERY STIFF, STRONG HC ODOR IN SOUTH SIDEWALL OUM SAMPLE HC STAINING APPARENT IN SOUTH SIDEWALL W/ A NARROW LENSE OBSERVED W/IN WEST SIDE (1/2" THICK).

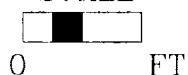
PIT BOTTOM - BEDROCK, LT OLIVE GRAY IN COLOR, VERY HARD, SANDSTONE, STRONG HC ODOR IN OUM SAMPLE.

CONDITIONAL
BEDROCK

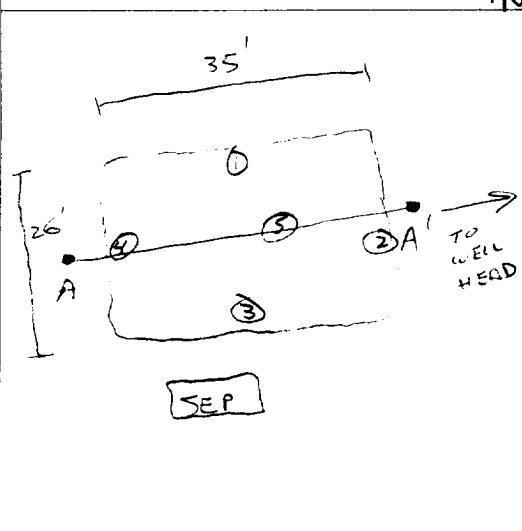
FIELD 418.1 CALCULATIONS

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

SCALE



PIT PERIMETER

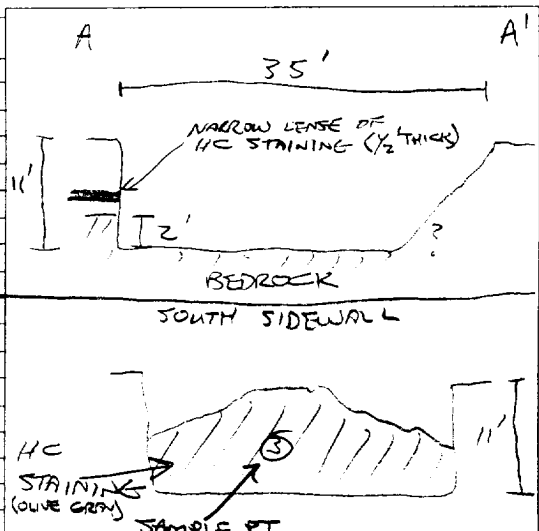


OVM RESULTS

| SAMPLE ID | FIELD HEADSPACE FID (ppm) |
|-----------|---------------------------|
| 1 @ 7' | 0.0 |
| 2 @ 6' | 0.0 |
| 3 @ 6' | 763 |
| 4 @ 6' | 0.0 |
| 5 @ 11' | 221.1 |
| | |
| | |
| | |
| | |
| | |

| LAB SAMPLES | | |
|-------------|----------|------|
| SAMPLE ID | ANALYSIS | TIME |
| 3 @ 6' | TPH/BTEX | 1350 |
| | | |
| | | |
| | | |
| | | |

PIT PROFILE



| | | |
|---------------|--------------------------------|-------------------------|
| TRAVEL NOTES: | CALLOUT: <u>10/21/96</u> MORN. | ONSITE: <u>10/22/96</u> |
|---------------|--------------------------------|-------------------------|

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

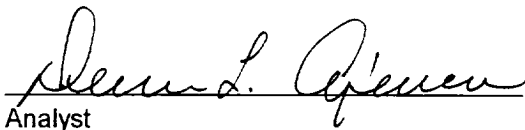
| | | | |
|----------------------|-----------------|---------------------|----------|
| Client: | Blagg / Amoco | Project #: | 04034 |
| Sample ID: | 3 @ 6' | Date Reported: | 10-23-96 |
| Laboratory Number: | A708 | Date Sampled: | 10-22-96 |
| Chain of Custody No: | 4921 | Date Received: | 10-23-96 |
| Sample Matrix: | Soil | Date Extracted: | 10-23-96 |
| Preservative: | Cool | Date Analyzed: | 10-23-96 |
| Condition: | Cool and Intact | Analysis Requested: | 8015 TPH |

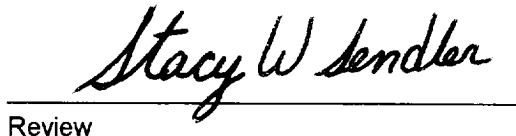
| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10) | 6,850 | 0.2 |
| Diesel Range (C10 - C28) | 7,690 | 0.1 |
| Total Petroleum Hydrocarbons | 14,500 | 0.2 |

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla A #8 Separator Pit.


Analyst


Review

SAN JUAN REPRO FORM 570-01

BT 462

**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

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 A #8
Location: Unit or Qtr/Qtr Sec H Sec 17 T 26N R 5W County RIO ARriba
Pit Type: Separator Dehydrator Other BLWD
Land Type: RANGE

Pit Location: Pit dimensions: length 22', width 25', depth 4'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 95'
Direction from reference: 36 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

BJ452 / BLOW PIT

Date Remediation Started: _____ Date Completed: 10/22/96Remediation Method: Excavation ☒ Approx. cubic yards 50(check all appropriate
actions)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 DocumentsClosure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)Sample depth 2'Sample date 10/22/96 Sample time 1420

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field Headspace (ppm) 0.0 Ethylbenzene (ppb) _____TPH (ppm) 40 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 BELIEFDATE 10/22/96 PRINTED NAME Buddy D. ShawSIGNATURE Buddy D. Shaw AND TITLE Environmental CoordinatorAFTER 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: Kear C. Marshall DATE: 11-5-96

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: BJ462
C.D.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: JICARUA A WELL #: 8 PIT: R25W
QUAD/UNIT: H SEC: 17 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: _____ ENE CONTRACTOR: P+S

DATE STARTED: 10/22/96
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 22 FT. x 25 FT. x 4 FT. DEEP. CUBIC YARDAGE: 50
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED
LAND USE: RANGE LEASE: JICA CONT. 110 FORMATION: GP/OK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 95 FT. N36W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

CHECK ONE :
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

GRAYISH ORANGE SILTY SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM TO STIFF, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES, NO APPARENT HC STRAINING OR ODOR OBSERVED WITHIN THE EXCAVATION

BEDROCK

SCALE
0 FT

FIELD 418.1 CALCULATIONS

| TIME | SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|------|-------------|----------|------------|-----------|----------|---------|-----------|
| 1420 | 2e2' | TPH-1848 | 5 | 20 | 1:1 | 10 | 40 |
| | | | | | | | |
| | | | | | | | |

PIT PERIMETER

OVM RESULTS

| SAMPLE ID | FIELD HEADSPACE PID (ppm) |
|-----------|---------------------------|
| 1e2' | 0.0 |
| 2e2' | 0.0 |
| 3e2' | 0.0 |
| 4e2' | 0.0 |
| 5e4' | 0.0 |
| | |
| | |
| | |
| | |
| | |

LAB SAMPLES

| SAMPLE ID | ANALYSIS | TIME |
|-----------|----------|------|
| | | |
| | | |
| | | |
| | | |
| | | |

PIT PROFILE

TRAVEL NOTES: CALLOUT: 10/21/96 MORN. ONSITE: 10/22/96 MORN.

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
Sample ID: 2 @ 2'
Project Location: Jicarilla A # 8
Laboratory Number: TPH-1848

Project #:
Date Analyzed: 10-22-96
Date Reported: 10-22-96
Sample Matrix: Soil

| Parameter | Result, mg/kg | Detection Limit, mg/kg |
|---|---------------|---------------------------|
| Total Recoverable Petroleum Hydrocarbons | 40 | 20 |

ND = Not Detectable at stated detection limits.

| QA/QC: | QA/QC Sample TPH mg/kg | Duplicate TPH mg/kg | % *Diff. |
|--------|---------------------------|------------------------|-------------|
| | 4640 | 4400 | 5.31 |

*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 - BJ462

Melissa F. J.
Analyst

J. C. Blagg
Review

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

BJ46Z

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 #5

Location: Unit or Qtr/Qtr Sec H Sec 17 T~~26N~~ R~~5W~~ County RIO ARIZONA

Land Type: RANGE

Date Remediation Started: 10/22/96 Date Completed: 4/1/99

Remediation Method: Landfirmed X Approx. cubic yards 350

Composted

Other

Distance 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: 3/30/99 Time: 1050

Sample Results:

Field Headspace (ppm) 0.0

TPH (ppm) 713 Method SO'S

Other

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

DATE 4/1/99 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. 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>BT462</u> C.O.C. NO: <u>6633</u> |
|----------------------|--|---|

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

| | |
|---|-------------------------------------|
| LOCATION: NAME: <u>PC-2114A</u> A WELL #: <u>5</u> PITS: <u>SEP, BLOW</u> | DATE STARTED: <u>3/30/99</u> |
| QUAD/UNIT: <u>H</u> SEC: <u>17</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>KA</u> ST: <u>NM</u> | DATE FINISHED: _____ |
| QTP/FOOTAGE: <u>SE/4, NE/4</u> CONTRACTOR: <u>I & S</u> | ENVIRONMENTAL SPECIALIST: <u>AV</u> |

SOIL REMEDIATION:

| | |
|-------------------------------------|-----------------------------------|
| REMEDIATION SYSTEM: <u>LANDFARM</u> | APPROX. CUBIC YARDAGE: <u>350</u> |
| LAND USE: <u>RANGE</u> | LIFT DEPTH (ft): <u>1</u> |

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: 2100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM 10/22/96

DR. YELL. BROWN SILTY SAND NON COHESIVE SLIGHTLY MOIST, FIRM SAMPLING DEPTHS
0-6 INCHES, NO APPARENT DISCOLORATION @ ANY OF THE SAMPLING POINTS NO HC
DOOR DETECTED W/IN OVM SAMPLE, COLLECTED 5 FT. COMPOSITE SAMPLE FOR LAB

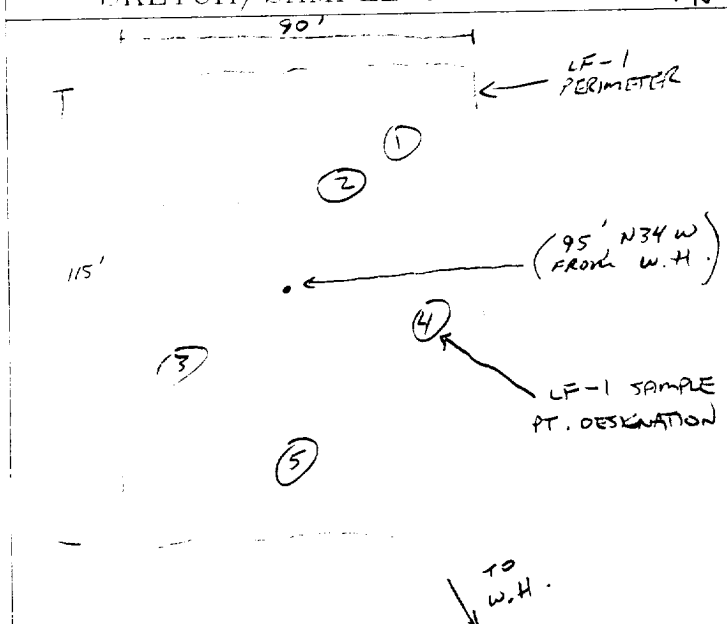
ANALYSIS:

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

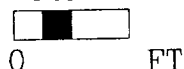


OVM RESULTS

LAB SAMPLES

| SAMPLE ID | FIELD HEADSPACE P.D (ppm) | SAMPLE ID | ANALYSIS | TIME | RESULTS |
|-----------|---------------------------|-----------|------------|------|---------|
| LF-1 | 0.0 | LF-1 | TPH (8015) | 1050 | 713 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SCALE



TRAVEL NOTES:

CALLOUT: NA

ONSITE: 3/30/99 - MORN.

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: E915
Chain of Custody No: 6633
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

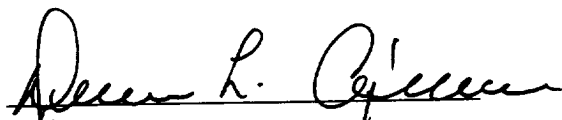
Project #: 403410
Date Reported: 04-01-99
Date Sampled: 03-30-99
Date Received: 03-30-99
Date Extracted: 03-30-99
Date Analyzed: 04-01-99
Analysis Requested: 8015 TPH

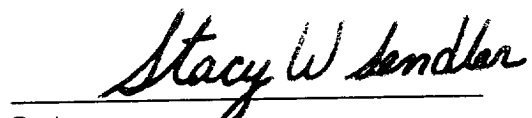
| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10) | 31.4 | 0.2 |
| Diesel Range (C10 - C28) | 682 | 0.1 |
| Total Petroleum Hydrocarbons | 713 | 0.2 |

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 # 8 Landfarm. 5 Pt. Composite.


Analyst


Review

6633

[illegible]