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

87655 Stibmit 1 copy to
NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

DECEIVED

PIT REMEDIATION AND CLOSURE REPORT

| | WILL COM, DAY |
|---|--|
| | Telephone: (50%) \$26-9200 |
| Operator: AMOCO PRODUCTION COMPANY | Telephone: \(\sigma \) |
| 200 Amogo Court, Farmington, Ni | M 87401 |
| Facility or Well Name: | # 102 - 3 |
| 10.0 V Son 9 TZ6 | SN R 4w County RIO ARRISA |
| | |
| Pit Type: Separator Dehydrator Other_ & | |
| Land Type: | |
| Pit Location: Pit dimensions: length 2 | 22', width21', depth3' |
| | other |
| Footage from reference: 165 | |
| Direction from reference: | Degrees X East North |
| | West South |
| Depth To Groundwater: (Vertical distance from contaminants to seasonal | Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) |
| high water elevation of groundwater) Distance to an Ephemeral Stream | Less than 100 feet (10 points) Greater than 100 feet (0 points) |
| (Downgradient dry wash greater than ten feet in width) | Greater than 100 leet |
| Distance to Nearest Lake, Playa, or Watering Pond | Less than 100 feet (10 points) Greater than 100 feet (0 points) |
| Wellhead Protection Area: (Less than 200 feet from a private | Yes (20 points) No (0 points) |
| domestic water source, or: less than 1000 feet from all other water sources) | (00 == i=40) |
| 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) |
| - n | RANKING SCORE (TOTAL POINTS): |

BJ655 BWW PIT

| | rted: Date Completed: |
|---|--|
| Date Remediation Sta | rted: Date Completed: 50 |
| Remediation Method: | LACAVATION |
| Theck all appropriate sections) | Landfarmed Insitu Bioremediation |
| | Other |
| Remediation Location: (i.e. landfarmed onsite, name and location of | Onsite X Offsite |
| offsite facility) General Description of | of Remedial Action: Excavation, BEDBOCK Bostom. |
| Groundwater Encount | ered: No X Yes Depth |
| Final Pit: Closure Sampling: (if multiple samples, | Sample location <u>see Attached Documents</u> |
| attach sample results and diagram of sample | Sample depth |
| locations and depths) | Sample date $\frac{10/7/98}{}$ Sample time $\frac{1015}{}$ |
| | Sample Results |
| 11 | Soil: Benzene (ppm) Water: Benzene (ppb) |
| | Total BTEX (ppm) Toluene (ppb) |
| | Field Headspace (ppm) 0.0 Ethylbenzene (ppb) |
| · | TPH (ppm) ND Total Xylenes (ppb) |
| Groundwater Sample | : Yes No _X (If yes, attach sample results) |
| KNOWLEGE AND B | |
| DATE | PRINTED NAME Buddy D. Shaw |
| SIGNATURE BUD | ly J. Show AND TITLE Environmental Coordinator |
| APPED DEVIEW OF | THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE APACHE TRIBE PIT CLOSURE ORDINANCE. |
| APPROVED: YES | NO (REASON) |
| SIGNED: | C Ma DATE: 11-18-98 |

| BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | C.O.C. NO: |
|--|---|
| LOCATION: NAME: JCA: AP. 102 WELL #: 3 PIT: BLOW OUAD/UNIT: K SEC: 9 TWP: ZGN RNG: 4W PM: NM CNTY: RA ST: NM | PAGE No: of DATE STARTED: DATE FINISHED: ENVIRONMENTAL SPECIALIST: |
| | YARDAGE: 50 DD: 49NDFRAM RMATION: PC S148 FROM WELLHEAD. |
| FORWALLS - DK. YELL. BROWN SAND, NON COHESING, SLIGHTLY APPARENT STAINING, NO APPARENT HC GOOR OF EXCAUATION OR IN ANY OF THE OWN SAMPLES BOTTOM - BEDROCK (SAMPSTONE) DK. YELL. BROWN TO LT. GRO HARD, NO APPARENT HC ODOR IN OWN SAM | y moist firm, no retected with |
| SCALE OFT PIT PERIMETER N | 1:1 5 ND |
| A SAMPLE SAMPLES SAMPLE FIELD HEADSPACE PID (ppm) 1 P Z' O.O 2 P Z' O.O 3 P Z' O.O 4 P Z' O.O 5 P 3' O.O LAB SAMPLES SAMPLE ANALYSIS TIME 10 ID IMEEL 11 ID IMEEL 12 ID IMEEL 13 ID IMEEL 14 ID IMEEL 15 ID IMEEL 16 ID IMEEL 17 ID IMEEL 18 ID IMEEL 18 ID IMEEL 19 ID IMEEL 10 ID IMEEL 11 ID IMEEL 12 ID IMEEL 13 ID IMEEL 14 ID IMEEL 15 ID IMEEL 16 ID IMEEL 17 ID IMEEL 18 ID IMEEL 1 | BEDROCK (SS) |
| TRAVEL NOTES: CALLOUT: ONSITE: 10/1/98-m | okr . |

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:

4 @ 2'

Date Analyzed:

10-07-98

Project Location:

Jicarilla Apache # 102 - 3

Date Reported:

10-07-98

Laboratory Number:

TPH-2049

Sample Matrix:

Soil

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

ND = Not Detectable at stated detection limits.

QA/QC:

| QA/QC Sample | Duplicate | % |
|--------------|-----------|----------|
| TPH mg/kg | 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 - BJ655

Analvst

R**6**view

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Client: Amoco Project #:

Sample ID: 4 @ 2' Date Analyzed: 10-07-98 Project Location: Jicarilla Apache # 102 - 3 Date Reported: 10-07-98

Laboratory Number: TPH-2049 Sample Matrix: Soil

Sample Weight: 5.00 grams Volume Freon: 20.00 mL

Dilution Factor: 1 (unitless) TPH Reading: 5 mg/kg

TPH Result: 20.0 mg/kg
Reported TPH Result: 20 mg/kg
Actual Detection Limit: 20.0 mg/kg
Reported Detection Limit: 20 mg/kg

QA/QC: Original Duplicate %

TPH mg/kg TPH mg/kg Diff.

----- 236 220 7.02

Comments: Blow Pit - BJ655

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: SICARILLA APACHE 102 - 3 |
| Location: Unit or Qtr/Qtr Sec & Sec 9 T 260N R 4W County & ARRIBA |
| Land Type: |
| Date Remediation Started: Date Completed: 5 13 99 Remediation Method: Landfarmed Approx. cubic yards 50 Composted Other |
| epth To Groundwater: (pts.) _O Final Closure Sampling: |
| Distance to an Ephemeral Stream (pts.) o Sampling Date: 5/2.99 Time: 1135 |
| Distance to Nearest Lake, Playa, or Watering Pond (pts.)O Wellhead Protection Area: (pts.)O Distance To SurfaceWater: (pts.)O (pts.)O Other Sample Results: Field Headspace (ppm)3.2 TPH (ppm)NOMethod (80.5) |
| RANKING SCORE (TOTAL POINTS): _ O |
| DATE SIGNATURE SIGNA |
| 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: _6-18-99 |

| BLAGG ENGINEERING P.O. BOX 87, BLOOMFIELD, (505) 632-1199 | NM 87413 |
|---|--|
| FIELD REPORT: LANDFARM/COMPOST PIL | LE CLOSURE VERIFICATION |
| QUAD/UNIT: K SEC: 9 TWP: 26N RNG: 4W PM:NM CNT | |
| SOIL REMEDIATION: REMEDIATION SYSTEM: LANDFARM APP | PROX. CUBIC YARDAGE: <u>50</u> T DEPTH (ft): |
| FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: > 100' NEAREST WATER SOURCE: > 1000' NMBCD RANKING SCORE: O NMBCD TPH CLOSURE STD: \$000 PPM MODERATE BEOWN SAND, NON CONESIVE, SLIGHTLY MON NO APPARENT STAINING, NO HE ODOR DETECTED DEPTH'S RANGE FROM 6"- 10" OCCUECTED A SPT. SAMPLE FOR LAB ANALYSIS. SAMPLE TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FRED | OIST, FIRM SAMPLING COMPOSITE ONS |
| SCALE O | FT |
| TRAVEL NOTES: CALLOUT: NA ONSITE: | 5.12.99 |



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

| Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: | Blagg / AMOCO LF - 1 F218 6922 Soil | Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: | 403410 05-13-99 05-12-99 05-13-99 05-13-99 |
|---|---|---|--|
| Preservative: Condition: | Cool 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 Cirganics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Jicarilla Apache 102 - 3 Landfarm. 5 Pt. Composite.

Analyst P. Queen

Stacy W Sendler

CHAIN OF CUSTODY RECORD

| Client / Project Name BLACH / AMOCO Sampler: | Project Location LANDFART SICARILLA APACHE 107 Client No. | Project Location LANDFART SICARILLA APACHE 102-3 Client No. | rs | | ANALYSIS / I | ANALYSIS / PARAMETERS | Remarks |
|--|---|---|------------------|--------------------------|--------------|-----------------------|----------------|
| REP | 403410 | 110 | o. of tainers | 1 15) | | | |
| Sample No./ Sample Sample Identification Date Time | Lab Number | Sample Matrix | | TA | | | |
| LF-1 5.129 1135 | FA18 | 3012 | - | 7 | | SP.C | COMPOSITE |
| | | | | | | | 3 |
| | | | | | | SAMPLE | SAMPLE FRESPOR |
| | | | | | | Coa | \ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 9 | | Date Time Re | ceived by: | Received by: (Signature) | 5 | <u> </u> | |
| ECHOL- | | 7 | CE | | Green | | 543.77 6.37 |
| Relinquished by: (Signature) | | Re | ceived by: | Received by: (Signature) | • | | |
| Relinquished by: (Signature) | | Re | ceived by: | Received by: (Signature) | | | |
| | | ENVIROTECH IN | <u>유</u> | | | Sample Receipt | |
| | | | | | | | Y NA |
| | | 5796 U.S. Highway 64 Farmington New Mexico 87401 | ighway Mexico | 64 87401 | | Received Intact | 7 |
| | | 1 aiiiiiiyidi, 1907 (505) | 0-0615 | 00101 | | Cool - Ice/Blue Ice | |