OK

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer, Artesia, NM 88211
District III
1000 Rio Brazos Rd. Aztec, NM 87410

State Of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE
(Revised 3/9/94)

RECEIVED
AUG 24 1999
OIL CON. DIV.
DIST. 3

# PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco Inc. Telephone: 505-324-5813

Address: 3315 Bloomfield Hwy - Farmington, NM 87401

Facility Or: State M #1
Well Name

Location: Unit or Qtr/Qtr Sec C Sec 16 T 29N R 8W County San Juan

Pit Type: Separator _____ Dehydrator _____ Other SEP

Land Type: BLM ____ State X Fee _____ Other _____

Pit Location: (Attach diagram)
Pit dimension: length 10' width 10' depth 2'
Reference: wellhead X other _____
Footage from reference: 110'
Direction from reference: _____ Degrees _____ East ___ North of
X West ___ South

| | | | |
|---|---|---|---|
| Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water) | Less than 50 feet | (20 points) | |
| | 50 feet to 99 feet | (10 points) | |
| | Greater than 100 feet | ( 0 points) | |
| | | Total | 10 |
| 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) | |
| | | Total | 0 |
| Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) | Less than 200 feet | (20 points) | (20 points) |
| | 200 feet to 1000 feet | (10 points) | (10 points) |
| | Greater than 1000 feet | ( 0 points) | ( 0 points) |
| | | Total | 0 |
| | | RANKING SCORE (TOTAL POINTS): | 10 |

Date Remediation Started: _____ Date Completed: _____

Remediation Method: Excavation: _____ Approx. cubic yards _____
(Check all appropriate sections)
Landfarm _____ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite _____ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action:
One sample was taken at 3' below bottom of pit center. No PID reading was conducted on location. Sample was transported to laboratory for TPH analysis per EPA Method 8015 and for BTEX analysis per EPA Method 8020A

Ground Water Encountered: No X Yes ___ Depth _____

Final Pit: Sample location Bottom of pit - center
Closure Sampling:
(if multiple samples attach sample results and diagram of sample locations and depths)
Sample depth 3'
Sample date 3/30/99 Sample time 2:00 PM

Sample Results
Benzene (ppm) 0.03
Total BTEX (ppm) 0.322
Field headspace (ppm) None
TPH 2.2

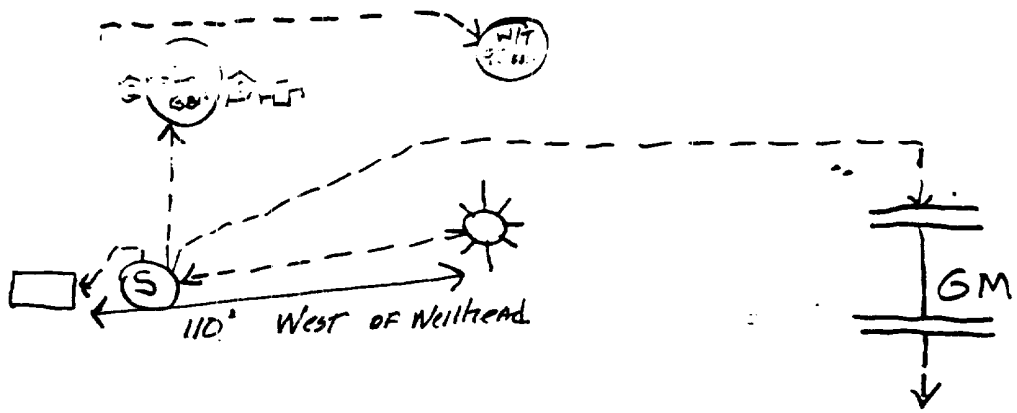
Ground Water Sample: Yes ___ No X (If yes, attach sample results)

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

DATE 6/28/99 PRINTED NAME Shirley Ebert
SIGNATURE Shirley L. Ebert AND TITLE Team Spec.

Lease Name: STATE M 1 Operator: David Baird Date: 5/12/98

Site Security
(Indicate North)




Lease Name: State M 1

Federal/ Indian Lease No: E 3149

CA No.: NA

Unit : C

Legal Description: Sect: 16 TP: 29N R: 8W

County: San Juan, NM

Load line valves :
Sealed during Production

Drain line valves :
Sealed during Production

Production Line valve:
Sealed during sales

This lease is subject to the site security plan for San Juan Basin Operations. The plan is located at:
Conoco Inc.
3315 Bloomfield Hwy
Farmington, NM

# CHAIN OF CUSTODY RECORD

6776

| Client / Project Name | Project Location | ANALYSIS / PARAMETERS |
|---|---|---|
| | | |
| Sampler: | Client No. | |

| Sample No./ Identification | Sample Date | Sample Time | Lab Number | Sample Matrix | No. of Containers | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| | | | | | |
| Relinquished by: (Signature) | | | Received by: (Signature) | | |
| Relinquished by: (Signature) | | | Received by: (Signature) | | |


ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615


| Sample Receipt | Y | N | N/A |
|---|---|---|---|
| Received Intact | | | |
| Cool - Ice/Blue Ice | | | |

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021
## AROMATIC VOLATILE ORGANICS

| | | | |
|---|---|---|---|
| Client: | Conoco, Inc. | Project #: | 707003 |
| Sample ID: | SEP | Date Reported: | 04-02-99 |
| Laboratory Number: | E932 | Date Sampled: | 03-30-99 |
| Chain of Custody: | 6776 | Date Received: | 04-01-99 |
| Sample Matrix: | Soil | Date Analyzed: | 04-02-99 |
| Preservative: | Cool | Date Extracted: | 04-02-99 |
| Condition: | Cool & Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|---|---|---|
| **Benzene** | **30.6** | **8.8** |
| **Toluene** | **115** | **8.4** |
| **Ethylbenzene** | **18.0** | **7.6** |
| **p,m-Xylene** | **96.2** | **10.8** |
| **o-Xylene** | **62.4** | **5.2** |
| **Total BTEX** | **322** | |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|---|---|---|
| | **Trifluorotoluene** | **96 %** |
| | **Bromofluorobenzene** | **96 %** |

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:** **State M #1.**

Analyst

Review

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# ENVIROTECH LABS

*PRACTICAL SOLUTIONS FOR A BETTER TOMORROW*

## EPA METHOD 8021
## AROMATIC VOLATILE ORGANICS

| | | | |
|---|---|---|---|
| Client: | N/A | Project #: | N/A |
| Sample ID: | 04-02-BTEX QA/QC | Date Reported: | 04-02-99 |
| Laboratory Number: | E932 | Date Sampled: | N/A |
| Sample Matrix: | Soil | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 04-02-99 |
| Condition: | N/A | Analysis: | BTEX |

| Calibration and Detection Limits (ug/L) | I-Cal RF: | C-Cal RF: | %Diff. Accept. Range 0 - 15% | Blank Conc | Detect. Limit |
|---|---|---|---|---|---|
| Benzene | 3.2346E-002 | 3.2391E-002 | 0.1% | ND | 0.2 |
| Toluene | 2.0462E-002 | 2.0478E-002 | 0.1% | ND | 0.2 |
| Ethylbenzene | 2.7225E-002 | 2.7255E-002 | 0.1% | ND | 0.2 |
| p,m-Xylene | 2.7416E-002 | 2.7457E-002 | 0.2% | ND | 0.2 |
| o-Xylene | 2.4585E-002 | 2.4602E-002 | 0.1% | ND | 0.1 |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|---|---|---|---|---|---|
| Benzene | 30.6 | 30.5 | 0.3% | 0 - 30% | 8.8 |
| Toluene | 115 | 115 | 0.0% | 0 - 30% | 8.4 |
| Ethylbenzene | 18.0 | 17.9 | 0.6% | 0 - 30% | 7.6 |
| p,m-Xylene | 96.2 | 95.8 | 0.4% | 0 - 30% | 10.8 |
| o-Xylene | 62.4 | 62.4 | 0.0% | 0 - 30% | 5.2 |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---|---|---|---|---|---|
| Benzene | 30.6 | 50.0 | 80.6 | 100% | 39 - 150 |
| Toluene | 115 | 50.0 | 165 | 100% | 46 - 148 |
| Ethylbenzene | 18.0 | 50.0 | 68.0 | 100% | 32 - 160 |
| p,m-Xylene | 96.2 | 100.0 | 196 | 100% | 46 - 148 |
| o-Xylene | 62.4 | 50.0 | 112 | 100% | 46 - 148 |

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

**Comments:** **QA/QC for samples E932 - E935.**

Analyst

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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified
## Nonhalogenated Volatile Organics
## Total Petroleum Hydrocarbons

| | | | |
|---|---|---|---|
| Client: | Conoco, Inc. | Project #: | 707003 |
| Sample ID: | SEP | Date Reported: | 04-02-99 |
| Laboratory Number: | E932 | Date Sampled: | 03-30-99 |
| Chain of Custody No: | 6776 | Date Received: | 04-01-99 |
| Sample Matrix: | Soil | Date Extracted: | 04-02-99 |
| Preservative: | Cool | Date Analyzed: | 04-02-99 |
| Condition: | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|---|---|---|
| **Gasoline Range (C5 - C10)** | **2.1** | **0.2** |
| **Diesel Range (C10 - C28)** | **0.1** | **0.1** |
| **Total Petroleum Hydrocarbons** | **2.2** | **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: **State M #1.**

Analyst

Review

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# ENVIROTECH LABS

*PRACTICAL SOLUTIONS FOR A BETTER TOMORROW*

## EPA Method 8015 Modified
### Nonhalogenated Volatile Organics
### Total Petroleum Hydrocarbons

## Quality Assurance Report

| | | | |
|---|---|---|---|
| Client: | QA/QC | Project #: | N/A |
| Sample ID: | 04-02-TPH QA/QC | Date Reported: | 04-02-99 |
| Laboratory Number: | E932 | Date Sampled: | N/A |
| Sample Matrix: | Methylene Chloride | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 04-02-99 |
| Condition: | N/A | Analysis Requested: | TPH |

| | I-Cal Date | I-Cal RF: | C-Cal RF: | % Difference | Accept. Range |
|---|---|---|---|---|---|
| Gasoline Range C5 - C10 | 03-15-99 | 7.6679E-002 | 7.6541E-002 | **0.18%** | **0 - 15%** |
| Diesel Range C10 - C28 | 03-15-99 | 7.2197E-002 | 7.2081E-002 | **0.16%** | **0 - 15%** |

| **Blank Conc. (mg/L - mg/Kg)** | Concentration | Detection Limit |
|---|---|---|
| Gasoline Range C5 - C10 | **ND** | **0.2** |
| Diesel Range C10 - C28 | **ND** | **0.1** |
| Total Petroleum Hydrocarbons | **ND** | **0.2** |

| **Duplicate Conc. (mg/Kg)** | Sample | Duplicate | % Difference | Accept. Range |
|---|---|---|---|---|
| Gasoline Range C5 - C10 | **2.1** | **2.1** | **0.0%** | **0 - 30%** |
| Diesel Range C10 - C28 | **0.1** | **0.1** | **0.0%** | **0 - 30%** |

| **Spike Conc. (mg/Kg)** | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|---|---|---|---|---|---|
| Gasoline Range C5 - C10 | **2.1** | **250** | **252** | **100%** | **75 - 125%** |
| Diesel Range C10 - C28 | **0.1** | **250** | **250** | **100%** | **75 - 125%** |

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: **QA/QC for samples E932 - E941.**

Analyst

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# CHAIN OF CUSTODY RECORD

6776

| Client / Project Name | Project Location | ANALYSIS / PARAMETERS |
|---|---|---|
| Conoco Inc | State #1 | |
| Sampler: Danny Roberts | Client No. 97070-03 | |
| | Non-Vulnerable Area | |

| Sample No./ Identification | Sample Date | Sample Time | Lab Number | Sample Matrix | No. of Containers | BTEX | TPH | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SVP | 3/30/99 | 2:00 pm | E932 | Soil | ✓ | ✓ | - | | | | | |
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| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| [signature] | 3/30/99 | 5:00 pm | Shirley Ebert | 3/30/99 | 5:00 pm |
| Relinquished by: (Signature) Shirley Ebert | 4/1/99 | 12:30 | Received by: (Signature) Elizabeth McNally | 4/1/99 | 1230 pm |
| Relinquished by: (Signature) | | | Received by: (Signature) | | |


ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615


| Sample Receipt | Y | N | N/A |
|---|---|---|---|
| Received Intact | ✓ | | |
| Cool - Ice/Blue Ice | ✓ | | |