

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

District II
George S. Frost
P.O. Brawer RD, Artesia, NM 88221
DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87504

1000 Rio Brazos Rd, Aztec, NM 87410

AUG 08 1997

PIT REMEDIATION AND CLOSURE REPORT

Operator: Caulkins Oil Company Telephone: (505) 632-1544

Address: P.O. Box 340, Bloomfield, NM 87413

Facility or Well Name: Breech "E" 58

Location: Unit or Qtr/Qtr Sec A Sec 3 T 26N R 6W County Rio Arriba

Pit Type: Separator X Dehydrator Other

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 10', width 10', depth 3'
(Attach diagram)
References: wellhead X, other _____
Footage from reference: 50'
Direction from reference: 35 Degrees X East North _____
of _____
West South _____

	Less than 50 feet	(20 points)	
Depth to Ground Water:	50 feet to 99 feet	(10 points)	
(Vertical distance from	Greater than 100 feet	(0 points)	<u>0</u>

(Vertical distance from
contaminants to seasonal high
water elevation of ground water)

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 200 feet	(20 points)	
	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	<u>10</u>

RANKING SCORE (TOTAL POINTS): 10

Remediation Method: Excavation X Approx. cubic yards 101
Check all appropriate sections)
Landfarmed X Insitu Bioremediation ____
Other Aeration and Dilution

General Description of Remedial Action: Pit was excavated with backhoe until composite field headspace samples from pit was zero. Excavated soil was laid out on location in 8" lifts and rototilled periodically to aerate. Composite headspace samples from landfarm are indicated on diagram. Pit was backfilled and disturbed areas on location re-seeded. 4-15-97 - Dug hole in center of backfilled pit to obtain final soil samples from landfarmed soil used for fill dirt and 2' below bottom of excavated pit for final pit bottom sample per OCD request for final pit closure.

Final Pit:	Sample location <u>Center of backfilled pit. 4' from</u>
Closure Sampling:	<u>surface "landfarmed soil" and 10' from surface</u>
(if multiple samples, attach sample results and diagram of sample	<u>"pit bottom".</u>
	Sample depth <u>4' fill and 10' bottom of pit</u>

TPH 0

SIGNATURE Robert L. Verquer PRINTED NAME
AND TITLE ROBERT L. VERQUER, SUPERINTENDENT

Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID: Pit Remediation
 Sample ID: Breech E58 Fill
 Lab ID: 6745
 Sample Matrix: Soil

Report Date: 05/16/97
 Date Sampled: 04/16/97
 Date Received: 04/15/97
 Preservative: Cool
 Condition: Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
----------------	--------------------------	----------------------------

Total Aromatic Hydrocarbons
0.70

Benzene

ND

0.16

Toluene

0.19

0.16

Ethylbenzene

ND

0.16

m,p-Xylenes

0.35

0.31

o-Xylene

0.16

0.16

Total Volatile Petroleum Hydrocarbons

ND

14.1

Total Recoverable Petroleum Hydrocarbons

ND

31.9

Quality Control:
Surrogate
Percent Recovery
Acceptance Limits

Trifluorotoluene

94

50 - 150%

Bromofluorobenzene

100

74 - 121%

o-Terphenyl

91

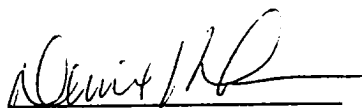
50 - 150%

Reference:

Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;
 Test Methods for Evaluating Solid Wastes, SW-846, United States
 Environmental Protection Agency, Final Update I, July, 1992.

EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas
 Chromatography." Test Methods for Evaluating Solid Waste, Physical/
 Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


 Review

Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID: Pit Remediation
Sample ID: Breech E58 Bottom of Pit
Lab ID: 6746
Sample Matrix: Soil

Report Date: 05/16/97
Date Sampled: 04/15/97
Date Received: 04/16/97
Preservative: Cool
Condition: Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
----------------	--------------------------	----------------------------

Total Aromatic Hydrocarbons	0.70	
Benzene	ND	0.16
Toluene	0.19	0.16
Ethylbenzene	ND	0.16
m,p-Xylenes	0.35	0.32
o-Xylene	0.16	0.16
Total Volatile Petroleum Hydrocarbons	ND	14.2
Total Recoverable Petroleum Hydrocarbons	ND	31.4

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	97	50 - 150%
	Bromofluorobenzene	99	74 - 121%
	o-Terphenyl	91	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
Environmental Protection Agency, Final Update I, July, 1992.

EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas
Chromatography." Test Methods for Evaluating Solid Waste, Physical/
Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


Review

