

P.O. Drawer DD, Artesia, NM 88221
District III
 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Dept.

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

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

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 "F" 45
Location: Unit or Qtr/Qtr Sec M Sec 35 T 27N R 6W County Rio Arriba
Fit Type: Separator X Dehydrator Other
Land Type: BLM X , State , Fee , Other

Pit Location: Pit dimensions: length 20', width 18', depth 4'
(Attach diagram) References: wellhead X, other Breech "F" 545
Footage from reference: 21'
Direction from reference: 210 Degrees _____ East North _____
of
West South X

	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>
contaminants to seasonal high			
water elevation of ground water)			

Wellhead Protection Area ☒ JUN - 2 1997 ☒ Yes (20 points)
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) No (0 points) 0

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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>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 4-29-96 Date Completed: 10-28-96

Remediation Method: Excavation X Approx. cubic yards 239
Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
Other Aeration and Dilution

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

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.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Center of backfilled pit. 4' from surface "landfarmed soil" and 10' from surface "pit bottom".

Closure Sampling:
(if multiple samples, attach sample results and diagram of sample

Sample depth 4' fill and 10' bottom of pit

Sample date 4-15-97 Sample time 12:30 p.m.

Benzene (ppm) 0

Total BTEX (ppm) 0

Field headspace (ppm) _____

TPH Fill 42.6 Bottom 220

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 5-30-97

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 F 45 Fill
 Lab ID: 6731
 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)
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Total Aromatic Hydrocarbons

ND

Benzene

ND

0.16

Toluene

ND

0.16

Ethylbenzene

ND

0.16

m,p-Xylenes

ND

0.31

o-Xylene

ND

0.16

Total Volatile Petroleum Hydrocarbons

ND

35.3

Total Recoverable Petroleum Hydrocarbons

42.6

33.3

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Trifluorotoluene

105

50 - 150%

Bromofluorobenzene

104

74 - 121%

o-Terphenyl

93

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 F 45 Bottom Of Pit
 Lab ID: 6732
 Sample Matrix: Soil

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

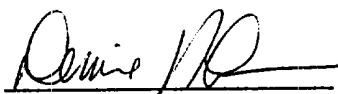
Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	ND	
Benzene	ND	0.15
Toluene	ND	0.15
Ethylbenzene	ND	0.15
m,p-Xylenes	ND	0.31
o-Xylene	ND	0.15
Total Volatile Petroleum Hydrocarbons	ND	34.7
Total Recoverable Petroleum Hydrocarbons	220	31.4

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	93	50 - 150%
	Bromofluorobenzene	107	74 - 121%
	o-Terphenyl	100	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;
 Test Methods for Evaluating Solid Wastes, SW-846, United States
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Comments:



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