APPLICATION TO LAND TREAT PETROLEUM CONTAMINATED SOIL AT AN APPROVED SITE (FORM B)

Minnesota Pollution Control Agency
Tanks and Spills Section
April 1993

This form is to be submitted after specific soil contamination information is known and after a land treatment site or facility has been issued Minnesota Pollution Control Agency (MPCA) approval (however, if a land treatment site has not been pre-selected this form should be submitted at the same time as land treatment FORM A). Refer to Minn. Rules ch. 7037 for specific information on approval procedures and application requirements for land treatment sites. Note: This application, if complete, is considered to be an acceptable form of a Petroleum Contaminated Soil Corrective Action Plan. If approved by MPCA staff, an approval letter will be issued.

I. BACKGROUND

A. Generator (and mailing address):

Name:
Business name: Wells Concrete Products
Street/Box: Hwy 109 E
City, Zip: Wells MN 56097
Telephone:
Signature: Larry Bielke Pres.
Date: 1-11-94

B. Site from which contaminated soil was generated:

MPCA Site ID#: LEAK0000 6378
Business name:
Street: SAME
City, Zip:
County: Faribault

C. Land Treatment Site or Facility owner (and mailing address)

Name: Verm + Wallace Frank
Street/Box: RT 3 Box 113
City, Zip: Mapleton MN.
Telephone: (507) 524-3941
Signature: Karen K. Frank
Date: 2/18/94

D. Land Treatment Site or Facility operator (and mailing address)

Name:
Street/Box: SAME
City, Zip:
Telephone:
Signature:
Date:

E. Person(s) who completed the application:

Name: Loras Haws
Business name: B+H Petroleum Equip
Street/Box: 218 S. Victory Dr.
City, Zip: Mankato MN.
Telephone: (507) 387-6629

Name:
Business name:
Street/Box:
City, Zip:
Telephone:

F. Legal Description of Land Treatment Site:

S ¼ of SW ¼ of Section ___, Township 105, Range 26,
Township Name Mapleton, County Blue Earth

G. Provide the following for contaminated soil that has been spread or has been approved for spreading at this land treatment site:

Leaksite (name, city)	Leaksite Number	Soil Volume (cu. yds.)	Spreading Date
Kofoed Oil Co	6157	120	April 93

Total soil volume: 120 cubic yards

H. Volume of soil of proposed batch to be spread: 80 cubic yards

J. Projected date of soil spreading: 4/1/94

II. SOIL STORAGE INFORMATION

Complete the following. Refer to section III of Land Treatment fact sheet #34 for storage and run-off control options and storage time limits.

A. Location of proposed batch (check one):

- X on storage area at land treatment site
- ___ on plot at land treatment site
- ___ stockpiled on leaksite property
- ___ not yet excavated
- ___ other (explain _____)

B. Date soil stockpiled: 6/4/93

C. Are adequate run-off controls provided? X YES ___ NO

D. Type of run-off controls: ON Plastic Covered w/ Plastic

III. PETROLEUM CONTAMINATED SOIL SAMPLING RESULTS

Circle the type(s) of petroleum contamination: unleaded gas, regular gas, (diesel fuel) No. 2 fuel oil, used oil, other (specify _____).

List the appropriate soil sample analytical results (and averaged concentrations) from the contaminated soil (refer to pt. 7037.0500 and "Soil and Ground Water Analysis at Petroleum Release Sites" (fact sheet #16)). Since a single composite sample is used to determine lead, report this value in the blank for "AVERAGE." Also, if additional analyses are required attach a separate table, listing the appropriate analytical parameters and results.

Sample Code	TPH as gas or FO ppm (circle one) DRO	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
Stockpile 1	806.9						
Stockpile 2	863.4						
AVERAGE	835.15						

IV. SOIL SPREADING INFORMATION

A. Does the average TPH (from section III above) exceed the allowable TPH of tables 34.2 and 34.3 of Land Treatment fact sheet #34? _____ YES __X__ NO If NO, indicate proposed spreading thickness in B (maximum = 4 inches); if YES, calculate maximum spreading thickness in the formula below and indicate the proposed spreading thickness in B. (Note: If total lead is greater than 300 ppm, refer to pt. 7037.1800, subpart 5. If a spreading thickness adjustment is necessary, on a separate attachment describe how this will be done and the factors considered.)

$$\frac{4 \times [\text{allowable TPH, ppm}]}{[\text{average TPH in batch, ppm}]} = \frac{4 \times [\_\_\_\_\_]}{[\_\_\_\_\_]} = 4'' \text{ inches}$$

B. Proposed spreading thickness: 4" inches

C. Area of land to be used:

[Soil volume, cubic yards] X $\frac{0.00744}{\text{[Spreading thickness, inches]}}$ = [80] X $\frac{0.00744}{[\ 4''\ ]}$ = ~~.595~~ acres

(Note: acres required X 43,560 = square feet required)

V. SOIL NUTRIENT INFORMATION

Nitrogen (N) fertilizer evaluation:

A. [avg. TPH, ppm] X [spreading thickness, inches] X 0.0128 = [835.15] X [4] X 0.0128 = 42.75

B. [organic matter in upper 8", percent] X 50 = [2] X 50 = 100

C. [result from A] - [result from B] = (None) minimum lbs. N per acre to add

Note 1: This amount can be reduced by 100 lbs. N per acre if the previous crop was alfalfa; 40 lbs. N per acre if the previous crop was soybeans, clover or other legume; or 1/3 lb. N per acre for each lb. N applied within last year.

Note 2: If the N application rate is determined to be less than 25 lbs. N per acre, then N need not be applied.

Note 3: Maximum allowable N application rates and other information are provided in pt. 7037.3600.

D. Proposed N application rate: 0 lbs. N per acre.

If this value differs from the value determined in the calculation in C describe below the factors that resulted in the difference.

Phosphorus (P) fertilizer evaluation:

A. [avg. TPH, ppm] X [spreading thickness, inches] X 0.0027 = [835.15] X [4] X 0.0027 = 9.01

B. [P concentration in native soil, ppm] X 2 = [ ] X 2 = ____

C. [result from A] - [result from B] = Ø minimum lbs. P per acre to add

Note 1: If the P concentration in the native soil has not been tested within the previous three years a default value of 5 ppm shall be used for the calculation in B above.

Note 2: The amount of P to apply can be reduced by ½ lb. P per acre for each lb. P applied within the previous three years.

Note 3: If the P application rate is determined to be less than 10 lbs. P per acre, then P need not be applied.

Note 4: Maximum allowable P application rates and other information are provided in pt. 7037.3600.

D. Proposed P application rate: Ø lbs. P per acre.

If this value differs from the value determined in the calculation in C describe below the factors that resulted in the difference.

VI. SITE MAP AND SUPPORTING INFORMATION

Attach the following:

A. Site map (scale: 1 inch = 50 feet). Indicate the following:

- borders of land treatment site (indicate dimensions of each side in feet)
- delineate proposed plot for this batch of soil (label dimensions in feet)
- delineate all other plots previously used for land treatment (label dimensions in feet and indicate with leaksite number)
- north arrow

B. Copies of laboratory reports and chain of custody forms for contaminated soil

C. Native soil nutrient test results for phosphorus, if conducted.

VII. LOCAL GOVERNMENT NOTIFICATION INFORMATION

A copy of this form must be sent to the appropriate local government officials before or at the same time that it is submitted to the MPCA. Provide the following for the local government officials to whom copies of this form have been sent:

County official:	Township, City, or Tribal official:
Title:	Title:
Street/Box:	Street/Box:
City, Zip:	City, Zip:
Telephone:	Telephone:

****

Mail completed application and all attachments to:

Project Manager
Minnesota Pollution Control Agency
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155-4194

-OR-

appropriate MPCA Regional Office land treatment site approval letter was issued by MPCA Regional Office Staff.

MVTL LABORATORIES, Inc.
P.O. BOX 249, 1126 N. FRONT STREET
NEW ULM, MN 56073-0249
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890

WE ARE AN EQUAL OPPORTUNITY EMPLOYER

Lab Number: 94-Q47

Work Order #: 21-5006
Client: B & B PETROLEUM EQUIPMENT CO

DRO - WI DNR LUST, JULY 1993 MANUAL

Sample Description: STOCKPILE 1

Date Reported: 1/19/94

Date Sampled: 1/ 5/93
Date Received: 1/ 7/94
Temperature at Receipt: ON ICE

DRO Extraction Date: 1/ 6/94
DRO Analysis Date: 1/18/94
DRO Dilution Factor: 1

Analyte	Result	Units	MDL
Sample Concentration For DRO	806.9	ppm	3.0

RECEIVED
APR 26 1994
WPCA, HAZARDOUS
WASTE DIVISION

MVTL LABORATORIES, Inc.
P.O. BOX 249, 1126 N. FRONT STREET
NEW ULM, MN 56073-0249
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WE ARE AN EQUAL OPPORTUNITY EMPLOYER

Lab Number: 94-Q48

Work Order #: 21-5006
Client: B & H PETROLEUM EQUIPMENT CO

DRO - WI DNR LUST, JULY 1993 MANUAL

Sample Description: STOCKPILE 2

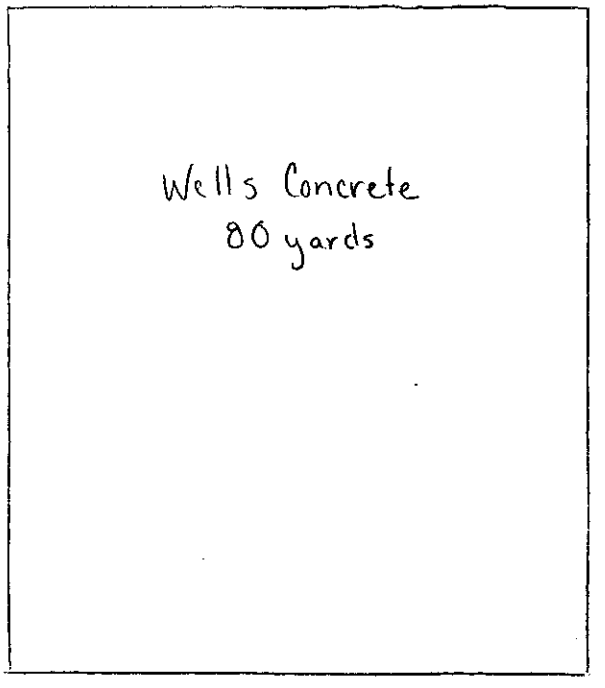
Date Reported: 1/19/94

Date Sampled: 1/ 5/93
Date Received: 1/ 7/94
Temperature at Receipt: ON ICE

DRO Extraction Date: 1/ 6/94
DRO Analysis Date: 1/18/94
DRO Dilution Factor: 1

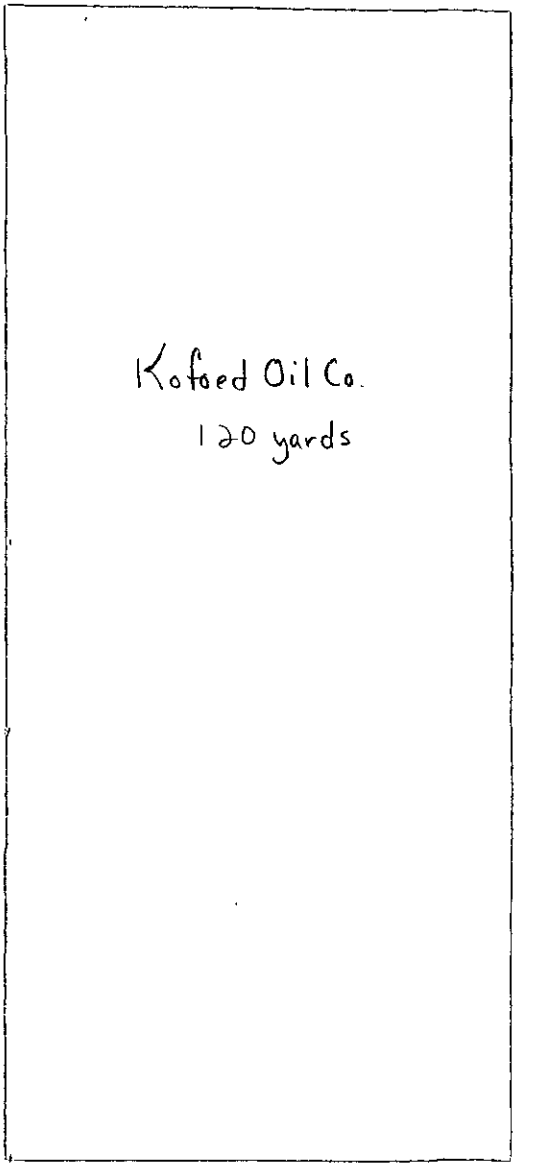
Analyte	Result	Units	MDL
Sample Concentration For DRO	863.4	ppm	3.0

N4



3½"

3"



6"

2 3/5"

T = TRACT NUMBER	MT = MULTIPLE TRACT NUMBER	HEL = HIGHLY ERODIBLE LAND	MW = MINIMAL EFFECT WETLAND (EXEMPT)
W = WETLAND	CW = CONVERTED WETLAND	NHEL = NON-HIGHLY ERODIBLE	MWC, MWM, MWR = SPECIAL COND. (SEE SC
FW = FARMED WETLAND	NA = NON-AGRICULTURAL	PC = PRIOR CONVERTED WETLAND	NC = NON-CROPLAND	PHOTO NO.
NW = NON-WETLAND	AW = ARTIFICIAL WETLAND	ECW = EXEMPT (COMMENCED) CONVERTED WETLAND	
COUNTY		NOT TO	REPRODUCED	CROP	
BLUE EARTH		SCALE	JAN 1992	YR	L 13