West Central Environmental Consultants

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October 23, 1998

Mr. Mark Koplitz
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155

RE: Revised Excavation Report, Pre-removal Site Assessment
Weis Oil Company, Fairfax, MN
MPCA Leak No.: LEAK00001940
WCEC Project No.: 98-1993-30

Dear Mr. Koplitz:

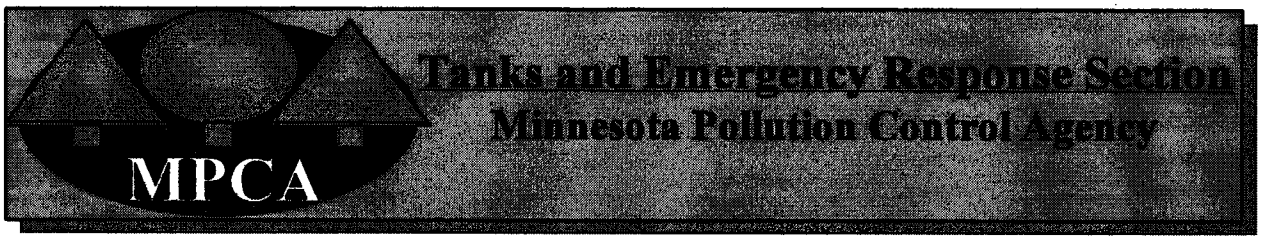
I have enclosed a revised Excavation Report for this site. I have also enclosed the Pre-removal Site Assessment report for the site.

I apologize for any inconvenience or confusion the original excavation report may have created. If you have any further questions, please give me a call at 320-589-2039.

Sincerely,

Matt Johnson
Project Manager

Enclosure(s)



Excavation Report Worksheet for Petroleum Release Sites

Fact Sheet #3.7
April 1996

Complete the information below and submit to the Minnesota Pollution Control Agency (MPCA) Tanks and Emergency Response Section to document excavation and treatment of petroleum contaminated soil. Conduct excavations in accordance with "Excavation of Petroleum Contaminated Soil" (fact sheet #3.6). Please attach any available preliminary site investigation reports to this excavation report.

Attach additional pages if necessary. Please type or print clearly.

The excavation reporting deadline is 10 months from the date of receipt of the standard letter. A shorter deadline may be established by MPCA staff for high priority sites.

Section I. BACKGROUND

A. Site: **Mobil Gas station/Weis Oil**
Street: **600 E Lincoln Ave**
City, Zip: **Fairfax, 55332**
County: **Renville**

MPCA Site ID#: **Leak00001940**

B. Tank Owner/Operator: **Jeff Weis**
Mailing Address: **440 S 4th St**

Street/Box:
City, Zip: **55310**
Telephone: **612-365-4525**

C. Excavating Contractor: **Kleespie Tank and Petroleum Equipment, Inc.**

Contact:
Telephone: **320-589-2100**
Tank Contractor Certification Number: **53**

D. Consultant: **West Central Environmental Consultants, Inc.**

Contact: **Matthew Johnson**
Street/Box: **14 Green River Rd, PO Box 594**
City, Zip: **Morris, 56267**
Telephone: **320-589-2039**

E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.): **None**

Note: If person other than tank owner and/or operator is conducting the cleanup, provide name, address, and relationship to site on a separate attached sheet.

Section II. DATES

A. Date release reported to MPCA: **March 26, 1998**

B. Dates site work performed (tanks removed, soil excavation, soil borings, etc.):

Work Performed	Date
Pre-removal Site Assessment	**3-26-98**
Tank Excavation	**4-13-98**

Section III. SITE AND RELEASE INFORMATION

A. Describe the land use and pertinent geographic features within 1000 feet of the site. (i.e. residential property, industrial, wetlands, etc.)
The site is bordered by Minnesota State Highway 19 to the north and Minnesota State Highway 4 to the west. To the east the property is bordered by undeveloped, agricultural land. To the north, west and south the property is bordered by light commercial property. No wetlands were apparent within 1000 feet of the site.

Table 1.

B. Provide the following information for all tanks at the site at the time of the release:

Tank Number	UST or AST	Capacity	Contents	Age	Status*	Condition
1	UST	11,000	Diesel	NA	Removed 4-13-98	Good
2	UST	1,000	Diesel	NA	Removed 4-13-98	Good
3	UST	12,000	Gasoline	13 years	Active	
4	UST	8,000	Gasoline	9 years	Active	
5	UST	4,000	Gasoline	9 years	Active	

*Indicate: *removed (date), abandoned in place (date), or currently used*
Notes:

C. Describe the status of the other components of the tank system(s), (i.e., piping and dispensers) for those tanks listed above. **At the time of the excavation the dispensers were left in place and the piping was removed from the underground storage tanks (UST).**

D. Identify and describe the source or suspected source(s) of the release and how the release was discovered. **Fittings around the fuel pump were not secure.**

E. What was the volume of the release? (if known): **Unknown**

F. When did the release occur? (if known): **Unknown**

G. Describe source of on-site drinking water: **Municipal water is available at the site.**

Section IV. EXCAVATION INFORMATION

A. Dimensions of excavation: Length **38 feet** Width **14 feet** Depth **12 feet**

B. Original tank backfill material (sand, gravel, etc.): **sands and gravel**

C. Native soil type (clay, sand, etc.): **glacial till**

D. Quantity of contaminated soil removed for treatment (cubic yards): **Approximately 230 yards^3**

[Note: If more than 150 cubic yards removed, please attach copy of written approval from MPCA.]

E. Were new tanks installed at the site? **(Yes)** If yes, how much soil was excavated to accommodate the installation of the new tanks? **Approximately 230 yards^3**

The amount of contaminated soil expected to be removed is shown below, and is taken from the MPCA guidance document #3.6, Tables 13.2A and 13.2B:

New Tank Size (gal)	Add (yd^3)	Old tank Size (gal)	Subtract
12,000	240 yd^3	11,000	50 yd^3
4,000	110 yd^3	1,000	40 yd^3

Also, for each new linear foot of piping trench, add 0.33 yd^3.

Using the above formula, the expected amount of soil to be encountered would be:
(240 - 50) + (110 - 40) = 260 yd^3 of contaminated soil + any piping

For the new 2,000 gallon gasoline tank to be installed at the east side of the property, based on the same table, 70 yd^3 of contaminated soil would be expected to be removed to install this tank.

Estimating an additional 100 feet of new piping would add 33 yd^3 of contaminated soil.

F. Was ground water or a suspected perched water layer encountered or was there evidence of a seasonally high ground water table (i.e. mottling)? **(Yes)** At what depth? **10 feet**

G. If ground water was not encountered during the excavation, what is the expected depth of ground water? **N/A**

H. If a soil boring was required (Additional investigation is required at sites that have visual or other evidence of contamination remaining in the suspected source area, with sandy or silty sand soil [Unified Soil Classification System/American Society for Testing Materials] and where the water table is within 25 feet of the ground surface. See fact sheet #3.6 "Excavation of Petroleum Contaminated Soil," Part VI Additional Investigation) describe the soil screening and analytical results. Attach the boring logs and laboratory results to this report.

I. If no soil boring was required, explain.

J. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? **(Yes)** Describe this evidence of contamination, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc. **A slight sheen was observed on the water.**

[NOTE: If free product was observed, contact MPCA staff immediately as outlined in fact sheet #3.3 "Free Product: Evaluation and Recovery"].

K. Was bedrock encountered in the excavation? **(No)** At what depth?

L. Were other unique conditions associated with this site? **(No)** If so, explain.

Section V. SAMPLING INFORMATION

A. Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil: **See Appendix A "Methodologies and Procedures."**

B. List all soil vapor headspace analysis results. Indicate all sampling locations using sample codes (with sampling depths in parentheses), e.g. R-1 (2 feet), R-2 (10 feet), etc. "R" stands for "removed." Samples collected at different depths at the same location should be labeled R-1A (2 feet), R-1B (4 feet), R-1C (6 feet), etc. If the sample was collected from the sidewall or bottom after excavation was complete, label it S-1 (for sidewall) or B-1 (for "bottom"). Be sure the sample codes correspond with the site map required in part VI, below.

Sample Code	Soil Type	Reading ppm	Sample Code	Soil Type	Reading ppm
R1	**Clay Till**	**150**	**S2**	**Clay Till**	**75**
R2	**Clay Till**	**170**	**S3**	**Clay Till**	**30**
R3	**Clay Till**	**105**	**S4**	**Clay Till**	**52**

R4	**Clay Till**	**185**	**S5**	**Clay Till**	**200**
R5	**Clay Till**	**95**	**B1**	**Clay Till**	**125**
S1	**Clay Till**	**300**	**B2**	**Clay Till**	**40**
			B3	**Clay Till**	**200**

C. Was the "removed soil" placed back into the excavation basin? (yes/No)
If no, please complete Part VIII: Soil Treatment Information section. If yes, a Limited Site Ivestigation is necessary (see fact sheet #3.19, "Soil and Ground Water Investigation Performed During Remedial Investigations").

D. Briefly describe the soil analytical sampling and handling procedures used:
See Appendix A "Methodologies and Procedures."

E. List below all soil sample analytical results from bottom and sidewall samples (i.e., soils left in place when excavation is complete). Code the samples with sampling depths in parentheses as follows: sidewall samples S-1 (8 feet), S-2 (4 feet), etc.; bottom samples B-1 (13 feet), B-2 (14 feet), etc. Be sure the sample codes correspond to the site map required in part VI. Do not include analyses from the stockpiled soils.

Sample Code	GRO/ DRO	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	Percent Moisture
B1-1993-12'	**NA/44.2**	**NA**	**NA**	**NA**	**NA**	**19.1**
B2-1993-12'	**NA/94.2**	**NA**	**NA**	**NA**	**NA**	
B3-1993-6'	**NA/1170**	**NA**	**NA**	**NA**	**NA**	**21.6**
S1-1993-6'	**917/695**	**1.48**	**1.15**	**8.52**	**21.2**	**18.0**
S2-1993-6'	**68.4/127**	**<0.050**	**0.116**	**<0.050**	**0.252**	**18.6**
S3-1993-6'	**81.1/237**	**<0.100**	**<0.100**	**<0.100**	**0.300**	**17.2**
Stockpile 1-1993	**645**					
Stockpile 2-1993	**687**					**17.8**

NOTE: ATTACH COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS.

Section VI. FIGURES

Attach the following figures to this report:

1. Site location map.

2. Site map(s) drawn to scale illustrating the following:
   a. Location (or former location) of all present and former tanks, lines, and dispensers;
   b. Location of other structures (buildings, canopies, etc.);
   c. Adjacent city, township, or county roadways;
   d. Final extent and depth of excavation;
   e. Location of soil screening samples (e.g. R-1), soil analytical samples (e.g., S-1 or B-1), (e.g. SB-1). Also, attach all boring logs.
   f. North arrow, bar scale and map legend.
   g. Provide location of any on-site water wells. If on-site water wells exist please provide well logs and/or construction diagrams.

Section VII. SUMMARY

Briefly summarize evidence indicating whether additional investigation is necessary at the site, as discussed in parts VI and VII of "Excavation of Petroleum Contaminated Soil" (fact sheet #3.6). If no further action is recommended, the MPCA staff will review this report following notification of soil treatment.

Investigation was completed previously at this site while it was known as Dittmer Oil Company. GME Consultants, Inc., provided information from their investigation that indicated that the contaminant plume was quite extensive. The horizontal and vertical extent of contamination were determined. A pump test performed by GME indicated that there wasn't a hydraulic connection between the shallow monitoring wells completed in the contaminated surficial aquifer and the deeper drinking water aquifer. The impacted water well was abandoned as part of the corrective action design for this leak site. The remaining health and environmental risks were determined to be low enough to have the site closed in 1997.

WCEC performed a pre-removal site assessment for Weis Oil Company (the former Dittmer Oil site) at the location of the diesel tanks. Contamination was found and reported to the MPCA. The results of the pre-removal site assessment are attached to this excavation report. The results of this investigation show higher concentrations in the test holes closer to the previous release site. No contamination was detected in test hole #1 to the northeast of the tank basin. GME boring B-11 is located east of the diesel tanks and completes the extent of contamination in that direction. Also, gasoline contamination (GRO) was detected in laboratory samples which may be remnant from the previous releases at the site to the west and southwest.

Approximately 230 cubic yards of contaminated soil was removed from the site and is currently pending treatment. Site investigations performed at this site by GME and WCEC indicate that soil and groundwater contamination remain on and off-site. However, based on the risk assessments performed by GME, information obtained from the Pre-removal Site

Assessment, and data collected during the excavation of the UST's, the remaining contamination from the diesel release should not pose significant additional health and environmental risks. WCEC recommends that this site be considered for conditional closure, with final closure granted upon completion of treatment of the removed contaminated soil.

Section VIII. SOIL TREATMENT INFORMATION

A. Soil treatment method used (thermal, land application, composting, other). If you choose "other" specify treatment method: **Pending**

B. Location of treatment site/facility: **Pending**

C. Date MPCA approved soil treatment (if thermal treatment was used after May 1, 1991, indicate date that the MPCA permitted thermal treatment facility agreed to accept soil): **Pending**

D. Identify the location of stockpiled contaminated soil: **On Site**

Section IX. CONSULTANT (OR OTHER) INFORMATION

By signing this document, I/we acknowledge that we are submitting this document on behalf of and as agents of the responsible person or volunteer for this leaksite. I/we acknowledge that if information in this document is inaccurate or incomplete, it will delay the completion of remediation and may harm the environment and may result in reduction of reimbursement awards. In addition, I/we acknowledge on behalf of the responsible person or volunteer for this leaksite that if this document is determined to contain a false material statement, representation, or certification, or if it omits material information, the responsible person or volunteer may be found to be in violation of Minn. Stat. § 115.075 (1994) or Minn. Rules 7000.0300 (Duty of Candor), and that the responsible person or volunteer may be liable for civil penalties.

Name and Title:	Signature:	Date signed:
Ryan Zick **Assistant Project Manager**	Ryan Zick	10/23/98
Matthew Johnson **Project Manager**	Matthew Johnson	10/23/98

Company and mailing address:

West Central Environmental Consultants, Inc.
P.O. Box 594
Morris, MN 56267

Phone: **(320) 589-2039**
Fax: **(320) 589-2814**

If additional investigation is not required at the site, please mail this form and all necessary attachments to:

(Project Manager)
Minnesota Pollution Control Agency
Hazardous Waste Division
Tanks and Emergency Response Section
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

If additional investigation is required at the site, include this form as an appendix to the "Remdial Investigation Report Form." **Excavation reports indicating a limited site investigation (LSI) is necessary will not be reviewed by MPCA staff until the LSI has been completed.**

Upon request, this document can be made available in other formats, including Braille, large print and audio tape. TTY users call 612/282-5332 or 1-800-657-3864 (voice/TTY).

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