DEPARTMENT OF TRANSPORTATION - Office of Environmental Services - Oakdale

STATE OF MINNESOTA
Office Memorandum

DATE: November 24, 1999

TO: James McCann, Project Manager
MPCA Tanks and Emergency Response Section

FROM: Brian Kamnikar, Senior Environmental Engineer
Environmental Compliance and Investigation Unit

PHONE: (651) 779-5091

SUBJECT: Mn/DOT France Avenue Truck Station: SITE CLOSURE REQUEST
MPCA Leak #12994

The Minnesota Department of Transportation (Mn/DOT) removed a 10,000 gallon diesel underground storage tank (UST), a 10,000 gallon unleaded gasohol UST and dispensing islands from the Mn/DOT France Avenue Truck Station on September 21 and 22, 1999. Approximately 45 cubic yards of petroleum contaminated soil was removed from the tank basin. The USTs and lines were observed to be in excellent condition. Therefore, it appears that the petroleum contamination encountered at the site resulted from product spillage during delivery operations.

Native soil observed during removal of the tanks consisted of sand. Groundwater was not encountered during excavation operations. Field screening of soil samples collected from the former tank basin detected a maximum organic vapor concentration of 16 ppm. Laboratory analyses of soil samples collected from the former UST basin and from beneath the dispensing islands did not detect the presence of any petroleum compounds above method detection limits. Lead was detected at naturally occurring concentrations. The excavated petroleum contaminated soil was transported to C.S. McCrossan Construction, Incorporated for thermal treatment. Based on the results of the UST removal investigation, Mn/DOT requests closure of this site. The tank removal report is enclosed for your review. Please call me with any questions regarding this matter.

cc (with enclosure):
C. Hoffstedt

cc (without enclosure):
C. Lucas
File

# EXCAVATION REPORT

**MN/DOT TRUCK GARAGE**
**3905 FRANCE AVENUE**
**BLOOMINGTON, MN 55437**

**NOVEMBER 30, 1999**

Tanks and Emergency Response Section
Minnesota Pollution Control Agency
MPCA

# EXCAVATION REPORT WORKSHEET FOR PETROLEUM RELEASE SITES

Fact Sheet #3.7
April 1997

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.

## PART I: BACKGROUND

A. Site: **MN/DOT Truck Station**

Street: **3905 France Avenue**
City, Zip: **Bloomington, 55437**
County: **Hennepin**

MPCA Site ID#: LEAK00012994

C. Excavating Contractor:
**MN/DOT**

Contact: **Cal Lucas**
Telephone: **(612) 582-1420**
Tank Contractor Certification Number: **0078**

B. Tank Owner/Operator: **MN/DOT**

Mailing Address:

Street/Box: **3485 Hadley Avenue North**
City, Zip: **Oakdale, 55128**
Telephone: **(651) 779-5091**

D. Consultant:
**Northern Environmental Technologies, Inc.**

Contact: **Doug Bergstrom**
Street/Box: **372 West County Road D**
City, Zip: **New Brighton, 55112**
Telephone: **(651) 635-9100**

E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.):

**Cal Lucas, MN/DOT and Jerry Johnson, MN/DOT**

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.

## PART II: DATES

A. Date release reported to MPCA: **9/22/99**

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

| Work Performed | Date |
|---|---|
| **Remove 2 USTs** | **9/21/99 and 9/22/99** |

## PART III: SITE AND RELEASE INFORMATION

A. Describe the land use and pertinent geographic features within 1,000 feet of the site. (i.e. residential property, industrial, wetlands, etc.)

**The site is located within Township 27 North, Range 24 West, NE ¼, SE ¼, NE ¼ Section 6, city of Bloomington, Hennepin County, Minnesota.**

**Land use surrounding the site is primarily commercial. Approximately 900 feet southwest of the site is an unnamed pond.**

**Table 1.**

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

| Tank # | UST or AST | Capacity (gallons) | Contents (product type) | Age | Status* | Condition |
|---|---|---|---|---|---|---|
| T1 | UST | 10,000 | Gasoline | 8 years | Removed (9/22/98) | Excellent |
| T2 | UST | 10,000 | Diesel | 8 years | Removed (9/22/98) | Excellent |

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

C. Describe the status of the other components of the tank system(s), (i.e., piping and dispensers) for those tanks listed above.

**The piping and dispensers removed in association with the USTs all appeared to be in excellent condition.**

D. Identify and describe the source or suspected source(s) of the release and how the release was discovered.

**The suspected source of the release is overfilling of the UST system.**

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

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

G. Describe source of on-site drinking water.

**The site utilizes municipal water.**

## PART IV: EXCAVATION INFORMATION

A. Dimensions of excavation: **T1 and T2: 75 feet x 40 feet x 15 feet deep**

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

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

D. Quantity of contaminated soil removed for treatment (cubic yards): **45 $yd^3$**
[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/**no**) If yes, how much soil was excavated to accommodate the installation of the new tanks?

**No new USTs were installed at the site.**

F. Was ground water encountered or a suspected perched water layer or was there evidence of a seasonally high ground water table (i.e. mottling)? (yes/no) At what depth?

**No**

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

**Assuming ground water is equal to the level of the unnamed pond to the northeast of the site, ground water should be approximately 26 feet below ground surface (bgs).**

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.

**The removed soil that was contaminated has been stockpiled and treated. The remaining soil indicated no detectable contamination during laboratory analysis.**

J. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? (yes/no) 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.

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

**No**

K. Was bedrock encountered in the excavation? (yes/no) At what depth?

**No**

L. Were other unique conditions associated with this site? (yes/no) If so, explain.

**The USTs were anchored down by a large concrete dead-man which made excavation more difficult.**

## PART V: SAMPLING INFORMATION

A. Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil:

**Northern Environmental personnel used photoionization detector with 10.0 eV lamp and visual inspection.**

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 |
|---|---|---|---|---|---|---|
| **PI-1 (5 feet)** | **Sandy silt** | **0** | | **B-2-NE (17 feet)** | **Sand** | **0** |
| **PI-2 (5 feet)** | **Sand** | **0** | | **R-1** | **Sand** | **960** |
| **PI-3 (5 feet)** | **Sandy silt** | **0** | | **R-2** | **Sand** | **181** |
| **PI-4 (5 feet)** | **Sandy silt** | **0** | | **R-3** | **Sand** | **92** |
| **B-1-SW (17 feet)** | **Sand** | **16** | | **R-4** | **Sand** | **43** |
| **B-1-NW (17 feet)** | **Sand** | **6** | | **R-5** | **Sand** | **121** |
| **B-M-S (17 feet)** | **Sand** | **0** | | **B-1-B (17 feet)** | **Sand** | **17** |
| **B-2-SE (17 feet)** | **Sand** | **0** | | | | |

*Note:*

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 Investigation is necessary (see fact sheet #3.19, "Soil and Ground Water Investigations Performed During Remedial Investigations").

**The most contaminated material was stockpiled on site for treatment. The rest of the removed soil was placed back into the excavation.**

D. Briefly describe the soil analytical sampling and handling procedures used:

**Samples of soils were collected for chemical analysis. The samples were placed in clean, VOA glass, 2-oz. jars with Teflon-lined caps. These samples were labeled and sent to Spectrum Laboratories under refrigerated conditions using Northern Environmental chain of custody 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), stockpile samples SP-1, etc. Be sure the sample codes correspond to the site map required in part VI. Do not include analyses from the stockpiled soil.

| Sample Code | Benzene ppm | Toluene ppm | Ethyl-benzene ppm | Xylene ppm | MTBE ppm | DRO ppm | GRO ppm | Lead ppm |
|---|---|---|---|---|---|---|---|---|
| PI-1 (5 feet) | <0.4 | <0.4 | <0.4 | <1.0 | NA | <2.5 | NA | NA |
| PI-2 (5 feet) | <0.2 | <0.2 | <0.2 | <0.5 | <0.2 | NA | <1.0 | 5.8 |
| PI-3 (5 feet) | <0.4 | <0.4 | <0.4 | <1.0 | NA | <2.5 | NA | NA |
| PI-4 (5 feet) | <0.4 | <0.4 | <0.4 | <1.0 | NA | <2.5 | NA | NA |
| B-1-SW (17 feet) | <0.2 | <0.2 | <0.2 | <0.5 | <0.1 | <2.5 | <1.0 | 10 |
| B-1-NW (17 feet) | <0.2 | <0.2 | <0.2 | <0.5 | <0.1 | <2.5 | <1.0 | 13 |
| B-M-S (17 feet) | <0.2 | <0.2 | <0.2 | <0.5 | <0.1 | <2.5 | <1.0 | 7.6 |
| B-2-SE (17 feet) | <0.2 | <0.2 | <0.2 | <0.5 | <0.1 | <2.5 | <1.0 | NA |
| B-2-NE (17 feet) | <0.2 | <0.2 | <0.2 | <0.5 | <0.1 | <2.5 | <1.0 | NA |
| B-1-B (17 feet) | <0.2 | <0.2 | <0.2 | <0.5 | <0.1 | <2.5 | <1.0 | 5.2 |
| R-1 | (r)0.3 | 1.1 | <0.2 | (r)1.8 | <0.2 | <2 | 21 | 8.6 |

*Notes: **NA – not analyzed***

## PART 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), and any soil borings (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.

## PART 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.

**No further action is recommended for the MN/DOT Truck Station at France Avenue, Bloomington, Minnesota.**

## PART VIII: SOIL TREATMENT INFORMATION

A. Soil treatment method used (thermal, land application, composting, other). If you choose "other" specify treatment method: **Soil is currently stockpiled on site.**

B. Location of treatment site/facility: **A treatment location has not been selected.**

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: **NA**

D. Identify the location of stockpiled contaminated soil: **The soil is currently stockpiled west of the former UST basin.**

## PART IX: CONSULTANT (OR OTHER) PREPARING THIS REPORT

*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 leak site. 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 leak site 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. 7000.0300 (Duty of Candor), and that the responsible person or volunteer may be liable for civil penalties.*

| Name and Title: | Signature: | Date signed: |
|---|---|---|
| **Andrew A. Craig**<br>**Hydrogeologist** | | 11/30/99 |
| **Douglas J. Bergstrom**<br>**Project Manager** | | 11/30/99 |

Company and mailing address: **Northern Environmental Technologies, Inc.**
**372 West County Road D**
**New Brighton, MN 55112**

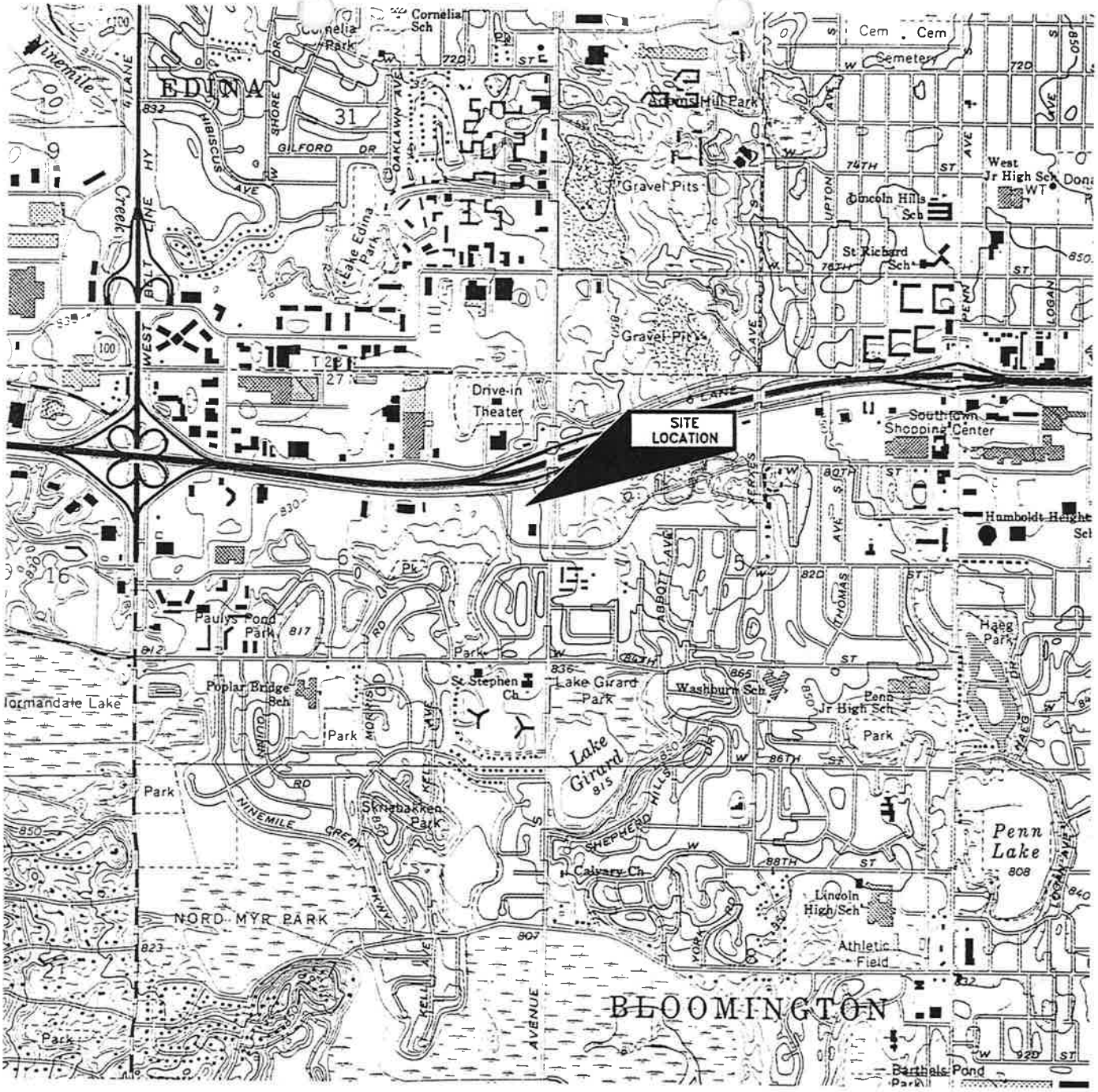
Telephone **(651) 635-9100** Fax: **(651) 635-0643**

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

James McCann
Minnesota Pollution Control Agency
520 Lafayette Road North
Saint Paul, Minnesota 55155-4194

If additional investigation is required at the site, include this form as an appendix to the "Remedial Investigation Report Form." **Excavation reports indicating a limited site investigation is necessary will not be reviewed by MPCA staff until the limited site investigation 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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BASE MAP SOURCE: USGS 7.5' QUADRANGLE (BLOOMINGTON, MINNESOTA)

| DRAWN BY: MTJ | PROJ: MDT02-1407-5392 | DATE: 11/12/99 |
|---|---|---|

REV. DATE



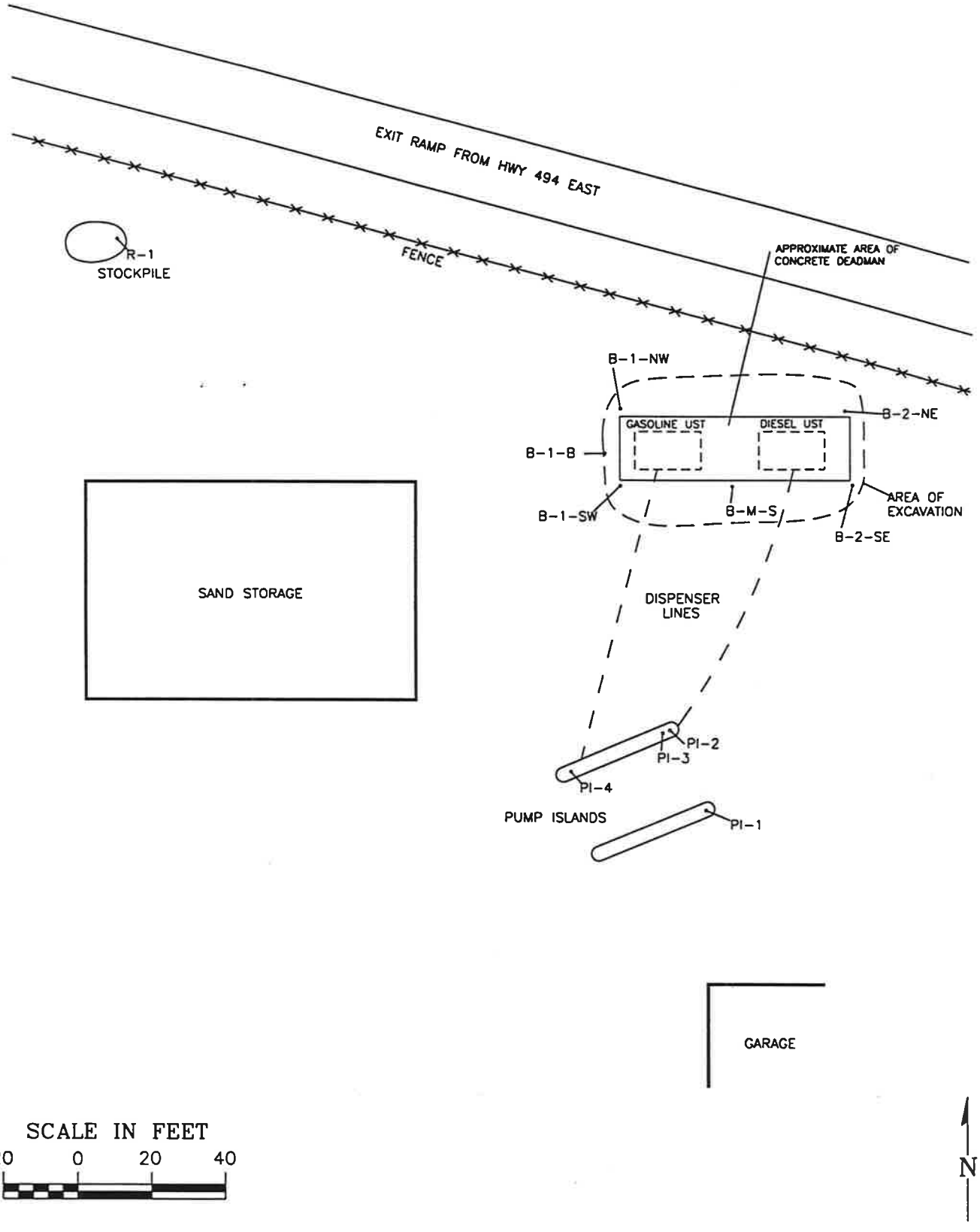
Northern Environmental℠
Hydrologists ◦ Engineers ◦ Geologists

MN-DOT TRUCK GARAGE
BLOOMINGTON, MINNESOTA

SITE
LOCATION

ORIGINAL IN FILE

FIGURE 1




| DRAWN BY: MTJ | PROJ: MDT02-1407-5392 | DATE: 11/12/99 | MN-DOT TRUCK GARAGE<br>BLOOMINGTON, MINNESOTA |
|---|---|---|---|
| REV. DATE | THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. | | SITE<br>LAYOUT |
| | Northern Environmental<br>Hydrologists • Engineers • Geologists | | |

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FIGURE 2