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MPCA, MAR Division  
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Braun Intertec Corporation  
11001 Hampshire Avenue S  
Minneapolis, MN 55438

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June 7, 2004

Project BL-04-2060

Mr. Chris McLain  
Minnesota Pollution Control Agency  
Majors and Remediation Division  
520 Lafayette Road  
St. Paul, Minnesota 55155-4194

Dear Mr. McLain:

Re: Excavation Report Worksheet for Petroleum Release Sites, Former AOK Rental,  
7840 Lyndale Avenue South, Bloomington, Minnesota, MPCA Leak No. ~~15618~~ **15618**

Enclosed is the Excavation Report Worksheet for Petroleum Release Sites for the Former AOK Rental site. Braun Intertec Corporation prepared the attached Report on behalf of the Julie Long of the City of Bloomington.

If you have any questions regarding the enclosed report or the project in general, please call me at (952) 995-2450.

Sincerely,

BRAUN INTERTEC CORPORATION



Richard E. Hansen, PG  
Petroleum Tank Program Manager

Attachment: Excavation Report Worksheet for Petroleum Release Sites

c: Ms. Julie Long, City of Bloomington

Excavation Rpt-AOK Rental



## Leaking Petroleum Storage Tanks

Minnesota Pollution Control Agency

[http://www.pca.state.mn.us/programs/lust\\_p.html](http://www.pca.state.mn.us/programs/lust_p.html)

# EXCAVATION REPORT WORKSHEET FOR PETROLEUM RELEASE SITES

Fact Sheet #3.7

Complete the information below to document excavation and treatment of Petroleum-Contaminated soil. Conduct excavations in accordance with fact sheet #3.6 *Excavation of Petroleum-Contaminated Soil During Tank Removal*. Please attach any available preliminary site investigation reports to this excavation report, and attach additional pages if necessary. Please type or print clearly. Do not revise or delete text or questions from this report form.

The excavation worksheet deadline is 10 months from the date of receipt of the MPCA "Petroleum Storage Tank Release Investigation and Corrective Action" letter. MPCA staff may establish a shorter deadline for high priority sites.

*Braun Intertec Project No. BL-04-02060*

### **PART I: BACKGROUND**

#### **A. Site:**

**MPCA Site ID#: LEAK00015618**

***Former A OK Rental***

**Street: 7840 Lyndale Avenue South**

**City, Zip: Bloomington, 55425**

**County: Hennepin**

**Site location (UTM required): E 447,189**

**N 4,967,233**

#### **C. Excavating Contractor:**

***Blue Earth Environmental***

**Contact: Ben Carleton**

**Telephone: (507) 387-6281**

**Tank Contractor Certification Number:**

#### **B. Tank Owner/Operator: Ms. Julie Long**

**Mailing Address:**

***City of Bloomington***

**Street/Box: 1800 West Old Shakopee Road**

**City, Zip: Bloomington, 55431**

**Telephone: 952-563-4865**

#### **D. Consultant:**

***Braun Intertec Corporation***

**Contact: Richard Hansen**

**Street/Box: 11001 Hampshire Avenue South**

**City, Zip: Minneapolis, 55438**

**Telephone: (952) 995-2000**

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

**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.



Site location: The required coordinate scheme for reporting site location is Universal Transverse Mercator (UTM), Extended Zone 15, 1983 North American Datum (NAD83). Refer to [http://www.ot.state.mn.us/ot\\_files/handbook/standard/std17-1.html](http://www.ot.state.mn.us/ot_files/handbook/standard/std17-1.html) for Minnesota spatial data standards, or <http://mac.usgs.gov/mac/isb/pubs/factsheets/fs15799.html> for more information about UTM Coordinates.

X coordinate (Easting)     **447,189** meters  
Y coordinate (Northing)   **4,967,233** meters

What feature does the coordinate represent? (i.e. center of parcel, approximate center of source area, etc. Please describe)

*Center of the parcel.*

What method was used to determine the coordinate? (i.e. GPS receiver, map interpolation, address matching, etc. Please describe)

*On-line mapping service at [www.maptech.com](http://www.maptech.com), which provides UTM coordinates by locating a site on a topographic map.*

If a paper map, digital map, aerial photo or digital orthophotoquad was used to find the site location, please provide the scale of the map or photo (i.e. 1:24,000, etc.)

*USGS Quadrangle, 7.5 minute series 1:24,000 (Figure 1)*

**PART II: DATES**

A. Date release reported to MPCA: **January 12, 2004**

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

Work Performed

Date

*Tank removal and oversight*

**January 12, 2004**

*Excavation of petroleum-impacted soil from Tank Basin #2*

**April 27, 2004**



### 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 surrounding property is mixed commercial, industrial and residential.*

- B. Provide the following information for all tanks removed and any remaining at the site:

Table 1.

Tank #	UST or AST	Capacity (gallons)	Contents (product type)	Year installed	Status*	Condition of Tank
1	UST	1,000	Diesel	Unknown	Removed (1/12/04)	Good
2	UST	560	Waste Oil	Unknown	Removed (1/12/04)	Good

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

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

*The associated piping was removed from Tanks 1 and 2 listed above.*

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

*There was no release associated with the diesel tank removed from the site. The source of the release from the waste oil tank was not determined in the field. The release was discovered during field screening of the tank basin after excavation of the tank.*

- E. What was the volume of the release? (if known): *unknown* gallons  
F. When did the release occur? (if known): *unknown*  
F. Describe source of on-site drinking water.

*The on-site drinking water is supplied by the City of Bloomington.*



#### PART IV: EXCAVATION INFORMATION

A. Dimensions of UST excavation(s):

Tank Basin #1	Length ~14'	Width ~12'	Depth ~6'
Tank Basin #2	Length ~12'	Width ~10'	Depth ~7'

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

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

D. Quantity of contaminated soil removed for treatment (cubic yards):

*The quantity of contaminated soil removed from the site and disposed at the Waste Management Burnsville Landfill was approximately 205 cubic yards.*

[Note: If the volume removed is more than allowed in Fact Sheet 3.6 *Excavation of Petroleum-Contaminated Soil During Tank Removal*, please document MPCA staff approval.]

- E. Were new tanks and/or piping and dispensers installed? (yes/no) If yes, what volume of contaminated soil was excavated to accommodate the installation of the new tanks and piping?
- F. If contaminated soil was removed to accommodate the installation of new tanks and/or piping, show your calculations for the amount of soil removal allowed using Table 6.2 in Fact Sheet 3.6 *Excavation of Petroleum-Contaminated Soil During Tank Removal*.
- G. 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?
- H. If ground water was not encountered during the excavation, what is the expected depth of ground water?

*Groundwater is estimated to be encountered at approximately 20 feet below the ground surface.*

- I. Additional investigation is necessary 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. If a soil boring is necessary, describe the soil screening and analytical results. Attach the boring logs and laboratory results to this report.

- J. If no soil boring was performed, explain.

*No evidence of contamination remains in the suspected source area.*





K. 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 you observe free product, contact MPCA staff immediately, as outlined in fact sheet 3.3 *Free Product: Evaluation and Recovery*.

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

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

**PART V: SAMPLING INFORMATION**

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

*During the field investigation, soil samples were examined visually by an environmental scientist for staining or other apparent signs of contamination. In addition, the soil samples were screened for the presence and concentration of organic vapors with a photoionization detector (PID) using a headspace procedure recommended by the Minnesota Pollution Control Agency (MPCA). The PID was equipped with a 10.2 electron-volt lamp and calibrated to an isobutylene standard to provide direct readings of relative organic vapor concentrations in parts per million (ppm).*

*The headspace procedure consisted of collecting a soil sample to half fill a quart-size, self-sealing plastic bag. The bag was vigorously shaken for 15 seconds and allowed to set for at least 10 minutes. Following the 10-minute period, the sample bag was again vigorously shaken for 15 seconds. The bag was then opened slightly and the PID probe was inserted to one-half of the headspace depth. The highest reading observed on the PID was then recorded.*

B. List soil vapor headspace analysis results collected during excavation of tanks, lines and dispensers. 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. Similarly, 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"). Indicate the depth of sample collection. Be sure the sample codes correspond with the site map in part VI, below.

Sample Code	Soil Type	Reading ppm	Sample Code	Soil Type	Reading ppm
<i>Basin #1</i>					
SW-1A (4')	Sand	0.0 ppm	SW-2A (5')	Sand	0.0 ppm
SW-1B (4')	Sand	0.0 ppm	SW-2B (5')	Sand	0.0 ppm
SW-1C (4')	Sand	0.0 ppm	SW-2C (5')	Sand	0.0 ppm
SW-1D (4')	Sand	0.0 ppm	SW-2D (5')	Sand	0.0 ppm
B-1 (6')	Sand	0.0 ppm	B-2 (7')	Sand	189 ppm



February 2001

- 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*).

*Excavated soil was placed back into the excavation basin of Tank #1. The impacted soil from Tank #2 was removed from the site.*

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

*Soil samples for laboratory chemical analyses were collected from the depth interval exhibiting the highest PID reading, and the terminal depth at each tank basin. The samples were placed in laboratory-cleaned, glass VOA jars with Teflon®-lined caps. The samples were then labeled and placed on ice. Selected samples were then transported to our laboratory under refrigerated conditions using Braun Intertec chain-of-custody procedures.*

- E. List below all soil sample analytical results from bottom and sidewall samples collected after excavation of tanks, lines and dispensers (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	DRO mg/kg	Benzene mg/kg	Ethyl-		Toluene mg/kg	Xylene mg/kg	MTBE mg/kg	Lead mg/kg
			benzene mg/kg					
B-1 (6')	< 10	< 0.025	< 0.025		< 0.025	< 0.050	N/A	N/A
<u>Basin #1</u>								
<u>Basin #2</u>								
B-2 (7')	6,800	4.6	1.7		12	54	< 0.050	120

\* Sample B-1 (6') is AOK-F(fuel) B-1 (base #1) as indicated on the attached laboratory report.

\* Sample B-2 (7') is AOK-WO(waste oil) B-1 as indicated on the attached laboratory report.

Excavation from Basin #2 (4/27/04)

B-1 (10')	< 11	< 0.025	< 0.025		0.04	0.04	N/A	N/A
B-2 (10')	< 10	< 0.025	< 0.025		< 0.025	< 0.050	N/A	N/A

Note: Attach copies of laboratory reports and chain of custody forms.



## 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, piping, 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.
  - h. Locations of new tanks, piping and dispensers, if installed.

## PART VII: SUMMARY

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

*All petroleum-impacted soil associated with the release from Tank #2 (diesel) has been removed from the tank basin and has been disposed of at the Waste Management Burnsville Landfill. Therefore, no additional investigation is necessary at the site.*

## PART VIII: SOIL TREATMENT INFORMATION

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

*Waste Management Burnsville Landfill*

- B. Location of treatment site/facility: *Waste Management - Burnsville Landfill  
Burnsville, Minnesota 55337*

- 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):

*The Waste Management Burnsville Landfill facility agreed to accept the impacted soil from the former AOK Rental site on April 14, 2004.*

- D. Identify the location of stockpiled contaminated soil:

*Contaminated soil was removed from the site and directly loaded into trucks for disposal at the Waste Management Burnsville Landfill located in Burnsville, Minnesota.*



**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.*

**MPCA staff are instructed to reject unsigned excavation reports or if the report form has been altered.**

Name and Title:

Signature:

Date signed:

**Richard E. Hansen, PG  
Petroleum Tank Program Manager**



6/7/04

Company and mailing address:

**Braun Intertec Corporation  
11001 Hampshire Avenue South  
Minneapolis, Minnesota 55438**

Telephone: (952) 995-2000

Fax: (952) 995-2020

If additional investigation is not necessary, please mail this form and all necessary attachments to the MPCA project manager. If additional investigation is necessary, include this form as an appendix to Fact Sheet 3.24 *Investigation Report Form*. MPCA staff will not review excavation reports indicating a limited site investigation is necessary unless the limited site investigation has been completed.

***Web pages and phone numbers***

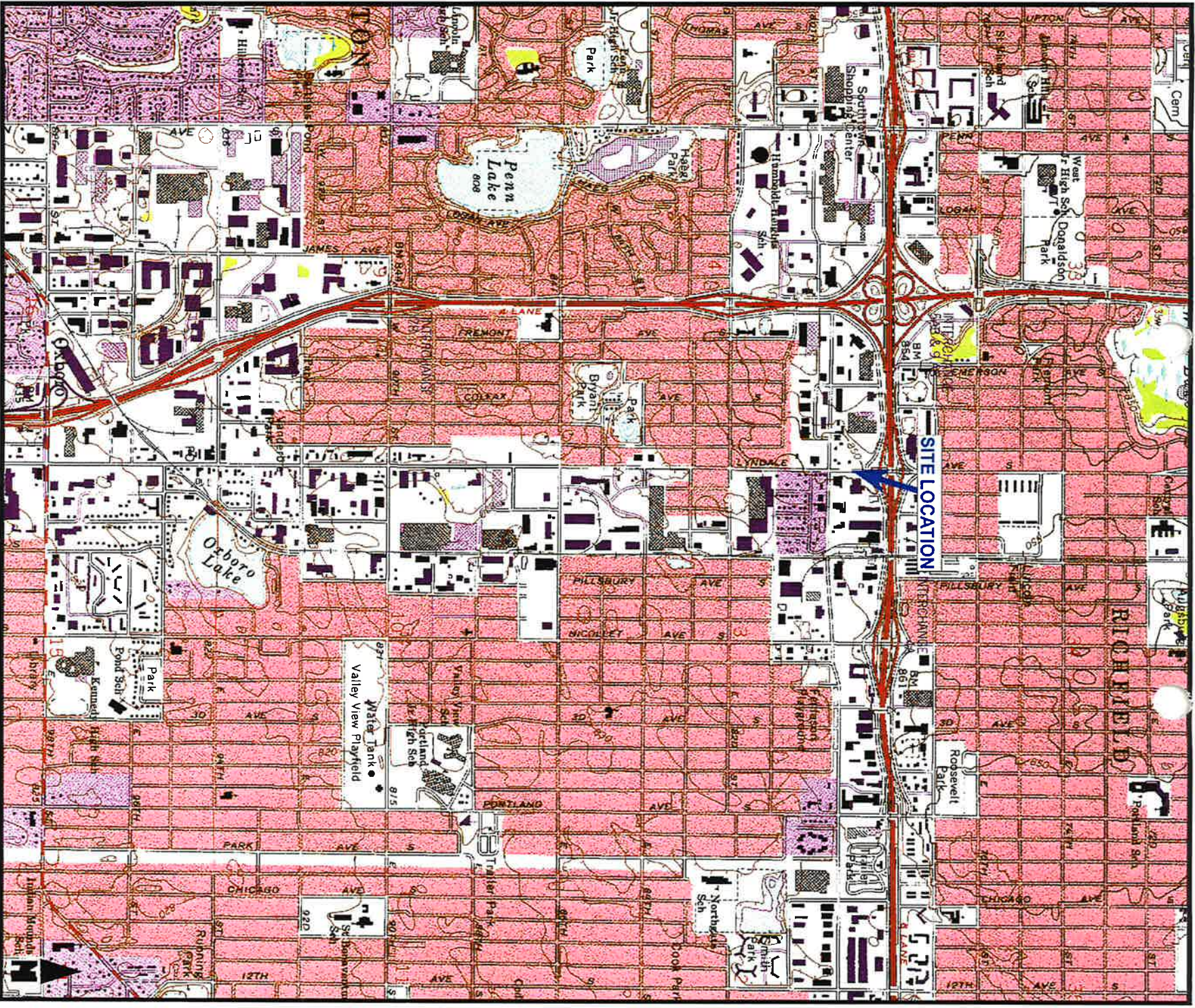
MPCA staff	<a href="http://data.pca.state.mn.us/pca/emplsearch.html">http://data.pca.state.mn.us/pca/emplsearch.html</a>
MPCA toll free	<b>1-800-657-3864</b>
LUST web page	<a href="http://www.pca.state.mn.us/programs/just_p.html">http://www.pca.state.mn.us/programs/just_p.html</a>
MPCA Infor. Request	<a href="http://www.pca.state.mn.us/about/infrequest.html">http://www.pca.state.mn.us/about/infrequest.html</a>
MPCA VPIC program	<a href="http://www.pca.state.mn.us/programs/vpic_p.html">http://www.pca.state.mn.us/programs/vpic_p.html</a>
PetroFund Web Page	<a href="http://www.commerce.state.mn.us/mainpf.htm">http://www.commerce.state.mn.us/mainpf.htm</a>
PetroFund Phone	<b>651-297-1119, or 1-800-638-0418</b>
State Duty Officer	<b>651-649-5451 or 1-800-422-0798</b>

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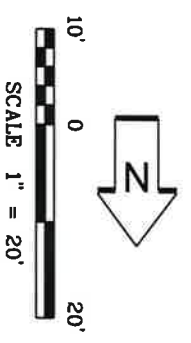


# BRAUN INTERTEC

Site Location Map  
 Excavation Report  
 Former AOK Rental  
 7840 Lyndale Avenue South  
 Bloomington, Minnesota

USGS TOPOGRAPHIC MAP	
BLOOMINGTON, MINNESOTA	
DATE:	5/25/04
JOB NO.:	BL-04-02060
SCALE:	1 : 24,000
FIGURE NO.:	1
DRAWN BY:	JJC





- TANK EXCAVATION LIMITS
- ▲ TANK EXCAVATION SAMPLE LOCATION
- SECONDARY EXCAVATION LIMITS
- SECONDARY EXCAVATION SAMPLE LOCATION

SITE MAP  
EXCAVATION REPORT  
FORMER AOK RENTAL  
7840 LYNDALE AVE S - BLOOMINGTON, MINNESOTA

**BRAUN**  
**INTERTEC**

FIGURE NO.	INT	DATE
	DRAWN BY: BJB	6-2-04
	APP'D BY: MR	6-3-04
	JOB NO. BL0402060	
	DWG. NO. BL0402060	SHEET OF
	SCALE 1" = 20'	