

EnecoTech Midwest, Inc
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EnecoTech[™]
ENVIRONMENTAL CONSULTANTS

December 17, 1991

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DEC 20 1991

CERTIFIED MAIL

**MPCA, HAZARDOUS
WASTE DIVISION**

711-017

Mr. Larry Quandt, Hydrologist
Tanks and Spills Section
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, Minnesota 55155

RE: Sinclair Station, 7753 Portland Avenue South, Richfield, Minnesota
MPCA Leak #00002572

Dear Mr. Quandt:

Please recall that a Remedial Investigation (RI) report was submitted to the Minnesota Pollution Control Agency (MPCA) by EnecoTech Midwest, Inc. (EnecoTech) in April 1991. In telephone conversations with EnecoTech on November 5, 1991, and December 5, 1991 you requested additional information regarding the soil beneath the pump islands and product dispensing lines.

All underground storage tanks (USTs), product dispensing lines, and pump islands were replaced during the station's UST system upgrade in May 1990. The former UST basin was located just north of the east pump island (Figure 1). The southernmost UST (#6) was located approximately five (5) feet north of the east pump island. The dispensing lines ran directly from the UST basin to the pump islands (Figure 1). The UST basin excavation reached a depth of approximately ten (10) to fifteen (15) feet below ground surface (bgs). Soil quality in the UST basin is described in detail in the RI report.

Photographs have been provided in the attachment which indicate two (2) to three (3) feet of soil beneath the remaining dispensing lines and pump island area were excavated and disposed of in conjunction with the UST basin excavation. Soil samples were not collected in this area. However, no visual evidence or petroleum hydrocarbon odors were observed during excavation of this area. As described in section II.C., in Appendix A of the RI report, the release was suspected to be the result of leaking dispensing lines running from USTs #3 and #4. The lines appeared to be corroded adjacent to the USTs. Soil on top of the USTs showed evidence of petroleum hydrocarbon impacts. The soil in this area was excavated and treated by incineration. No evidence of petroleum hydrocarbon impacts were noted beneath the dispenser lines in the pump island area during the excavation.

In the December 5, 1991, conversation with EnecoTech, you mentioned the possibility of a soil boring downgradient from the pump islands. The new USTs are located directly downgradient of the pump island area (Figure 2). The exact location of the new product dispensing lines is not known. Therefore, the advancement of a soil boring downgradient of the pump island area would be located southeast of the new UST basin. Monitoring well MW-04 is located in this vicinity (Figure 2). As stated in the RI report, laboratory analysis of soil and ground water samples collected from MW-04 have not detected the presence of petroleum hydrocarbon impacts.

An additional soil boring downgradient from the pump islands is not recommended by EnecoTech. This recommendation is based on

- o The excavation of 2 to 3 feet of soil beneath the pump islands.
- o The absence of petroleum hydrocarbon odor and visual evidence of petroleum hydrocarbon impacts to the soil during the pump island excavation.
- o The location of the new dispensing lines and UST basin.
- o Soil and ground water analytical results from downgradient soil boring/monitoring well MW-04.

Please contact me at (612) 854-5513 with any questions or comments you may have regarding this matter.

Respectfully,

ENECOTECH MIDWEST, INC.



Thomas R. Balow
Senior Staff Geologist

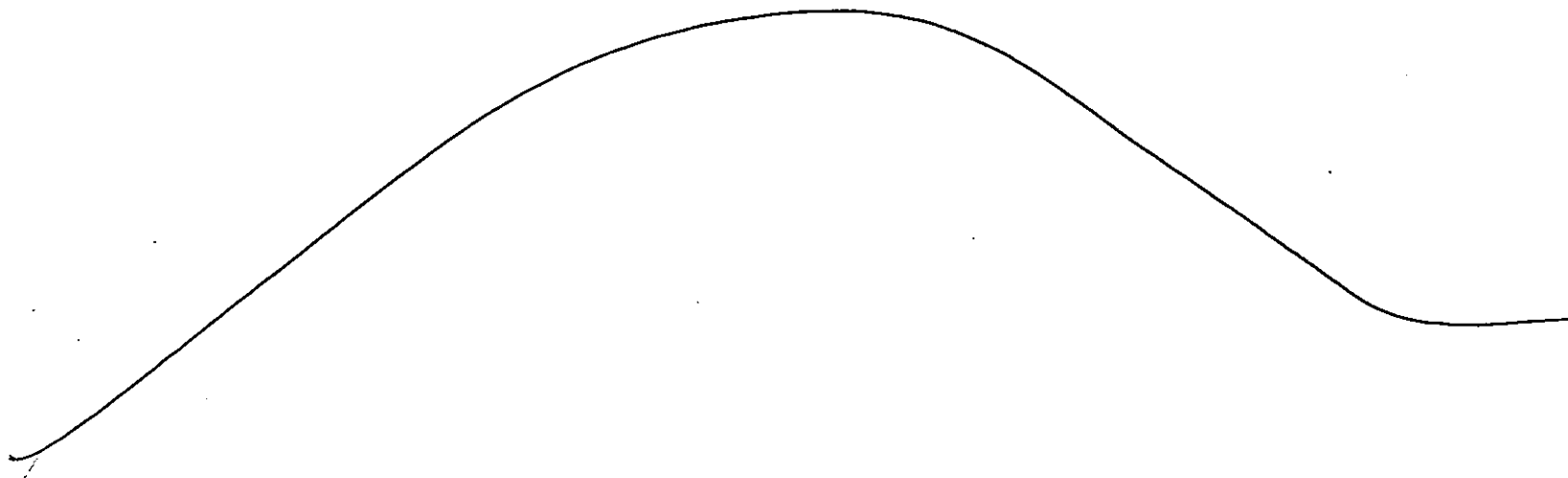
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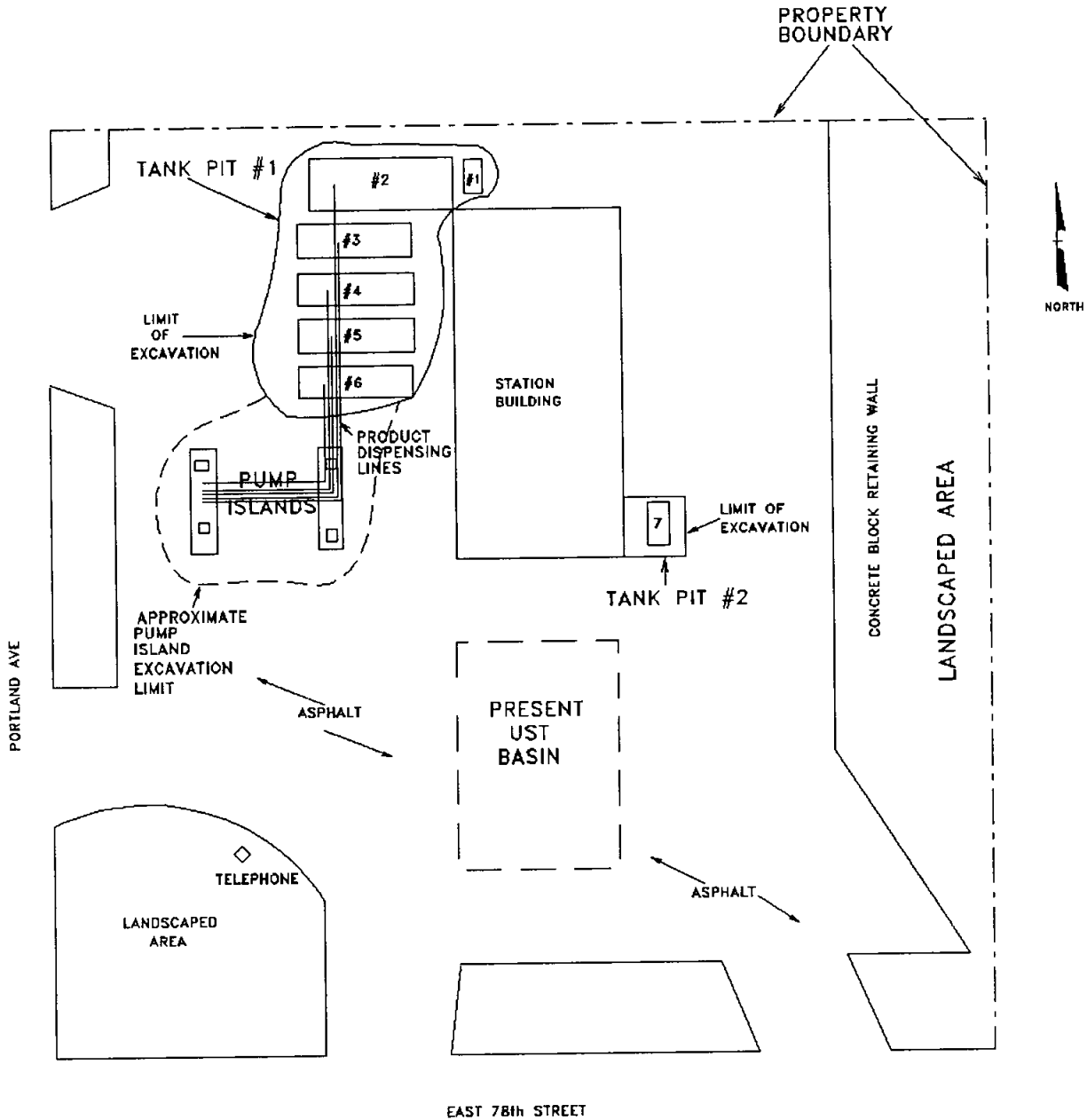
cc: Mr. Denny Lorenz, Sinclair Marketing, Kansas City, Kansas

tb/711-017 ltr

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FIGURES





- TANK #1 = 560 GALLON WASTE OIL TANK
- TANK #2 = 6000 GALLON PREM. NO LEAD
- TANK #3 = 4000 GALLON REGULAR
- TANK #4 = 4000 GALLON REGULAR
- TANK #5 = 4000 GALLON UNLEADED
- TANK #6 = 4000 GALLON UNLEADED
- TANK #7 = 1000 GALLON #1 FUEL OIL

SCALE 1" = 30'

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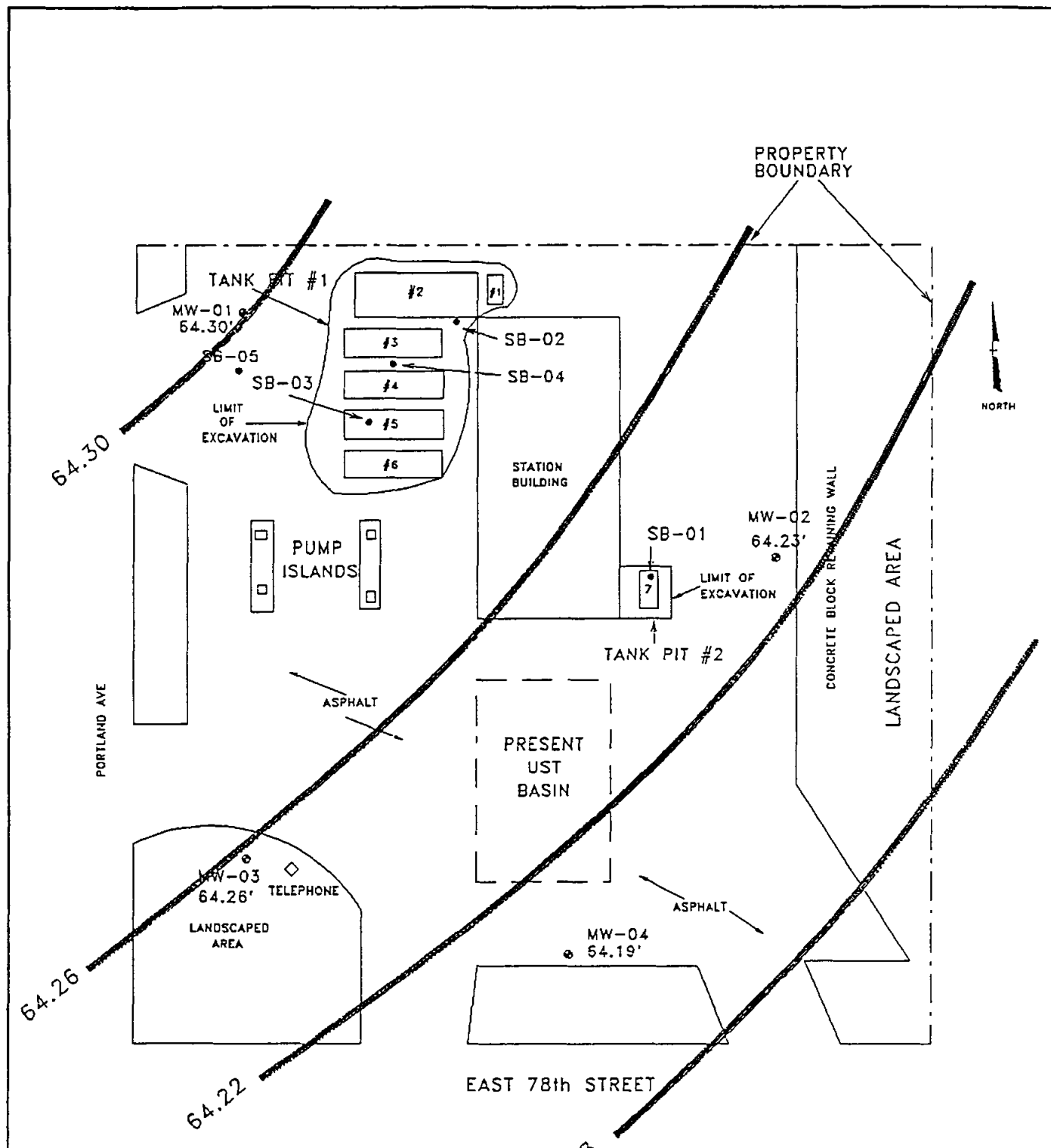
BLOOMINGTON, MINNESOTA

PROJECT

SINCLAIR-PORTLAND AVE.

SITE MAP

SINCLAIR SERVICE STATION
7753 PORTLAND AVE. SOUTH
RICHFIELD, MINNESOTA



- TANK #1 = 560 GALLON WASTE OIL TANK
- TANK #2 = 6000 GALLON PREM. NO LEAD
- TANK #3 = 4000 GALLON REGULAR
- TANK #4 = 4000 GALLON REGULAR
- TANK #5 = 4000 GALLON UNLEADED
- TANK #6 = 4000 GALLON UNLEADED
- TANK #7 = 1000 GALLON #1 FUEL OIL

SCALE 1" = 30'

- = SOIL BORING LOCATION
- = MONITORING WELL LOCATION

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BLOOMINGTON, MINNESOTA

PROJECT

SINCLAIR-PORTLAND AVE.

GROUNDWATER ELEVATION CONTOUR MAP (3/08/91)
 SINCLAIR SERVICE STATION
 7753 PORTLAND AVE. SOUTH
 RICHFIELD, MINNESOTA

ATTACHMENT





PUMP ISLAND AND
DISPENSING LINE AREA -
WEST VIEW



AREA BETWEEN THE PUMP
ISLAND AND UST BASIN -
NORTHWEST VIEW



UST BASIN - EAST VIEW



UST BASIN AND PUMP
ISLAND AREA - SOUTH
VIEW