



## **2008 ANNUAL MONITORING REPORT**

### **HIGHWAY 96 SITE WHITE BEAR TOWNSHIP, MINNESOTA**

**DISCLAIMER:**

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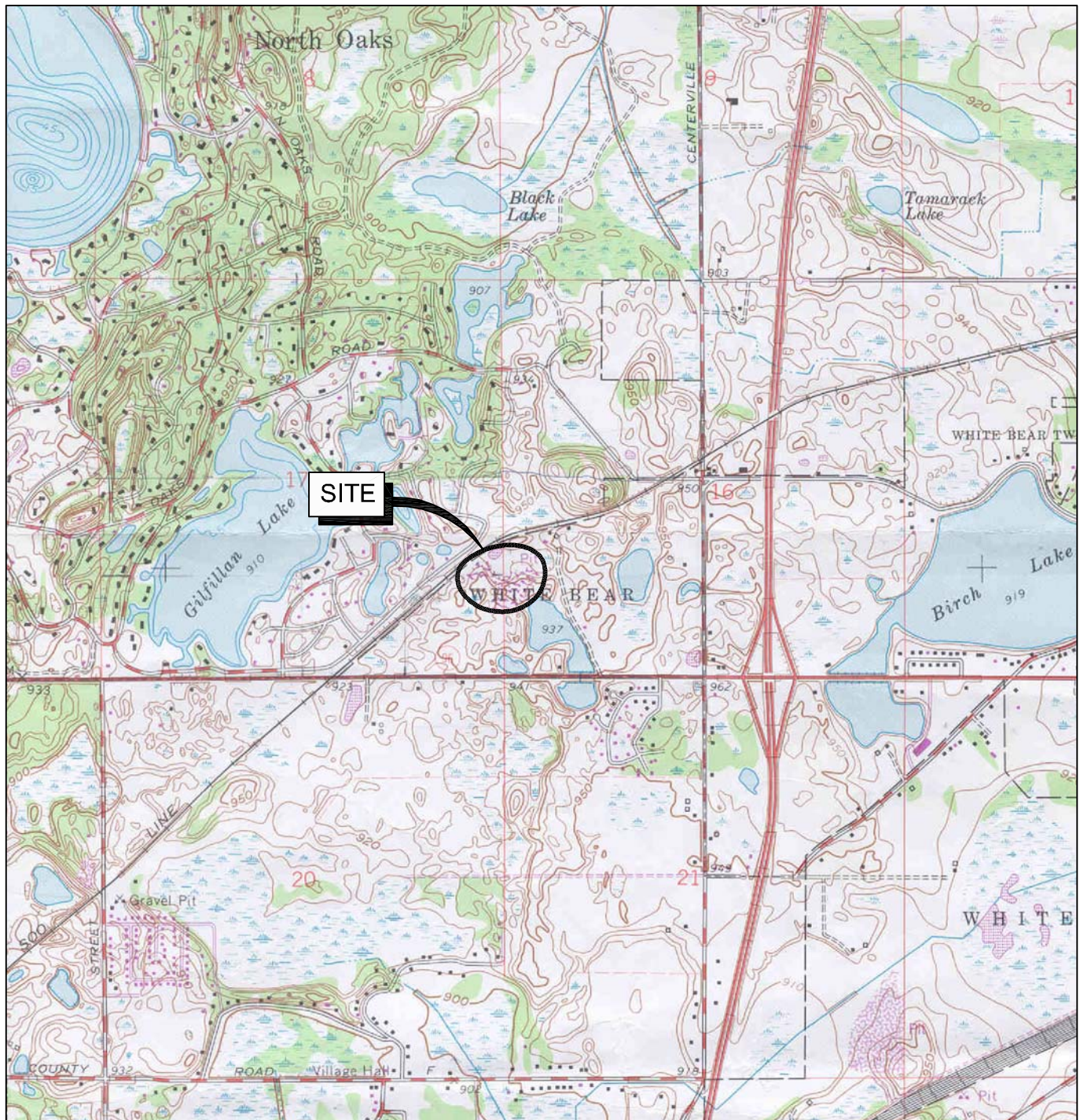
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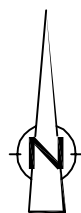
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NORTH DISPOSAL AREA



SOURCE: USGS 7.5 MINUTE QUAD  
WHITE BEAR LAKE WEST, MINN.

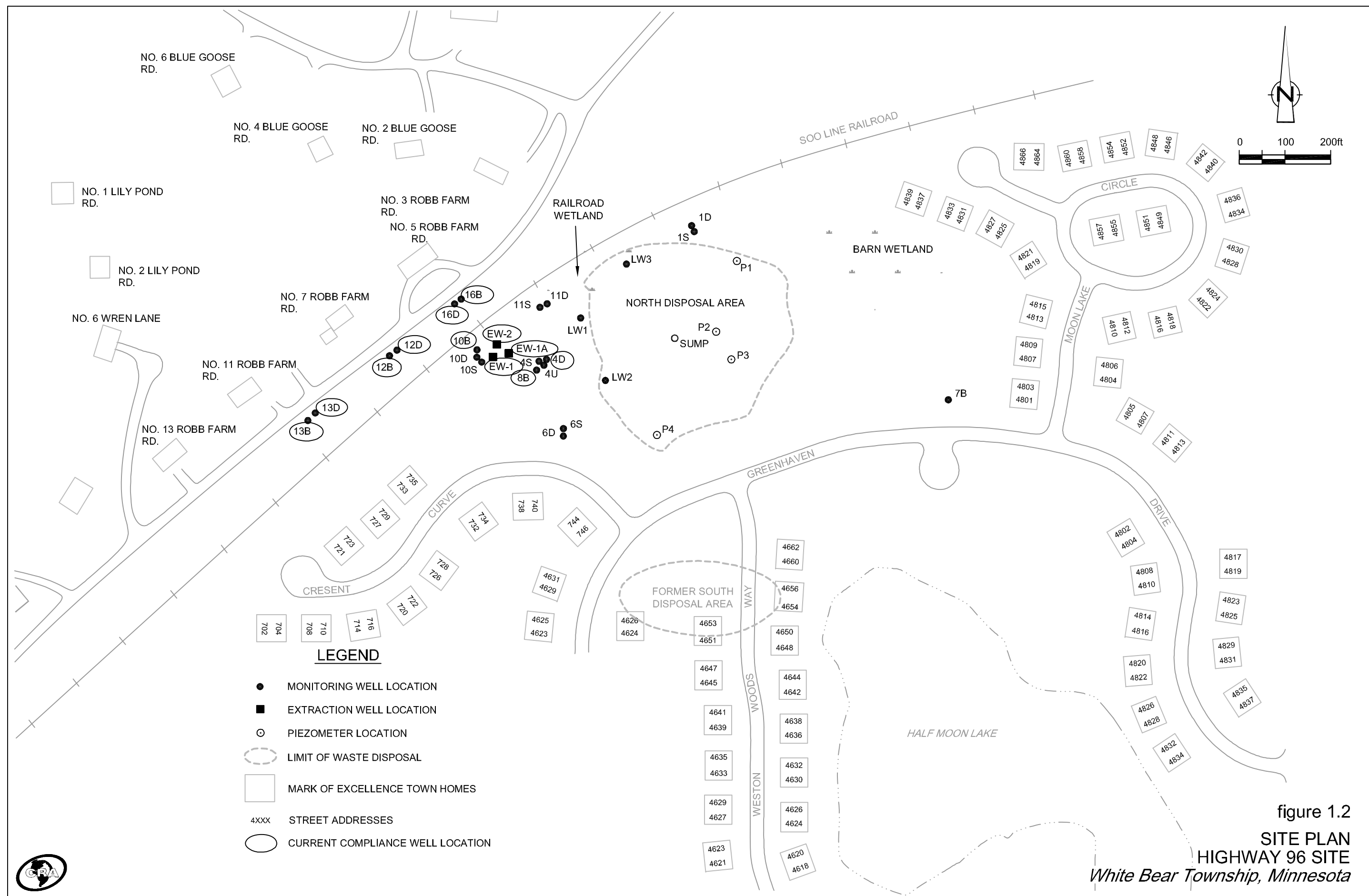


0 1000 2000ft

figure 1.1

**SITE LOCATION**  
**HIGHWAY 96 SITE**  
*White Bear Township, Minnesota*





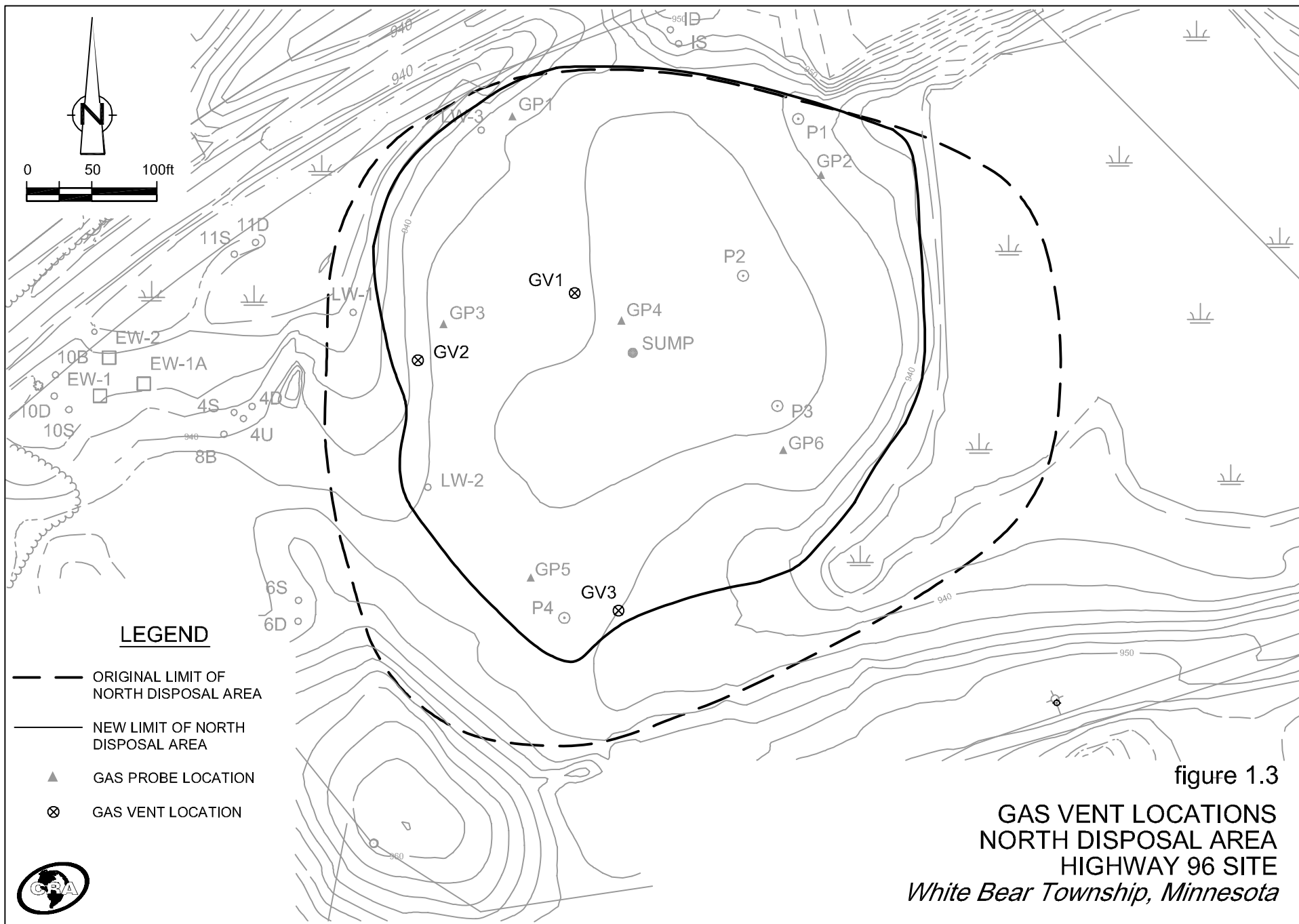




figure 1.4

MUNICIPAL WATER SYSTEM  
HIGHWAY 96 SITE  
*White Bear Township, Minnesota*

NOTE: FIGURE TAKEN FROM "REMEDIAL ACTION FINAL REPORT" CRA (1996)



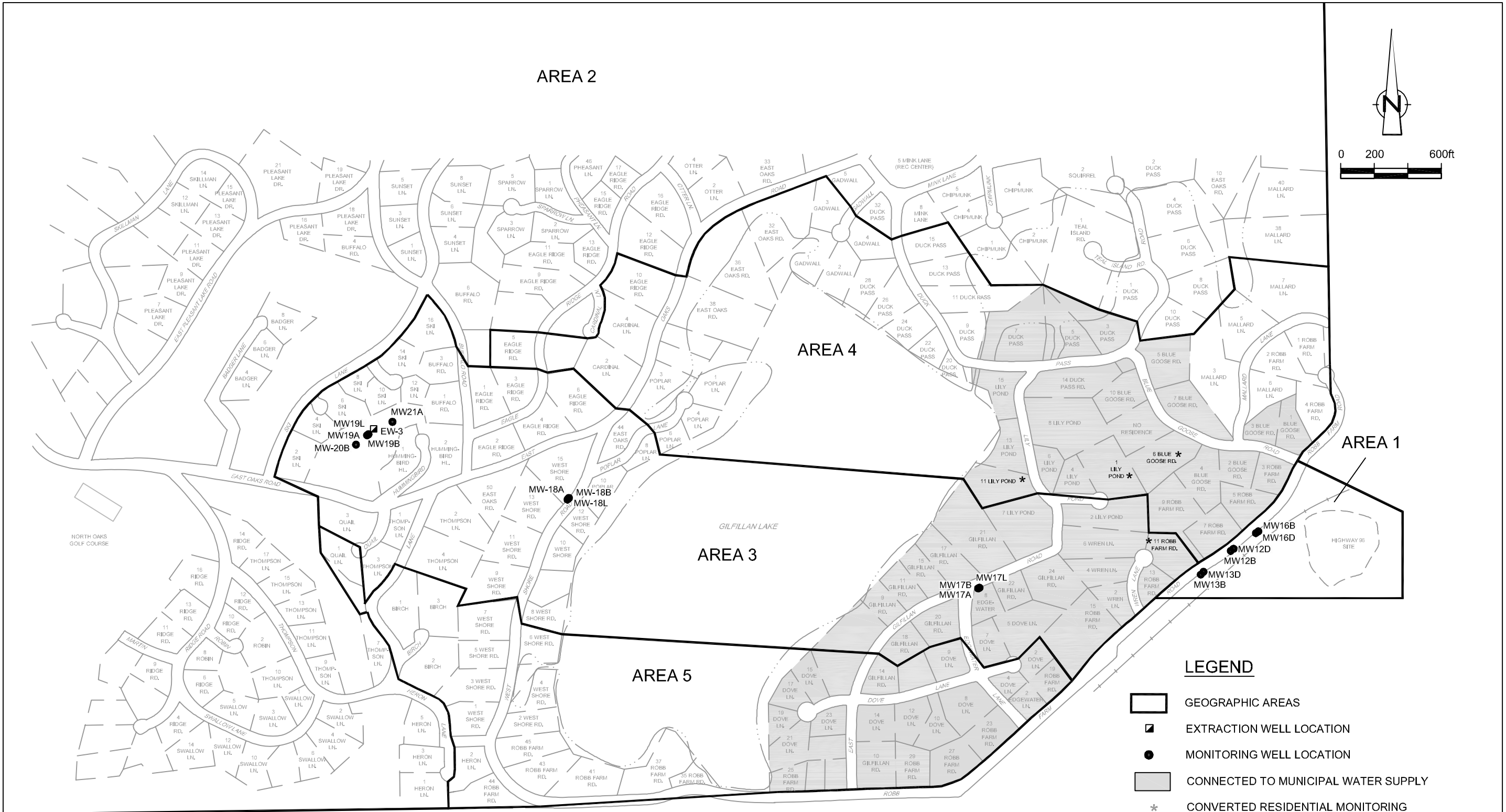


figure 1.5  
**OFF-SITE GROUNDWATER MONITORING NETWORK**  
*North Oaks, Minnesota*



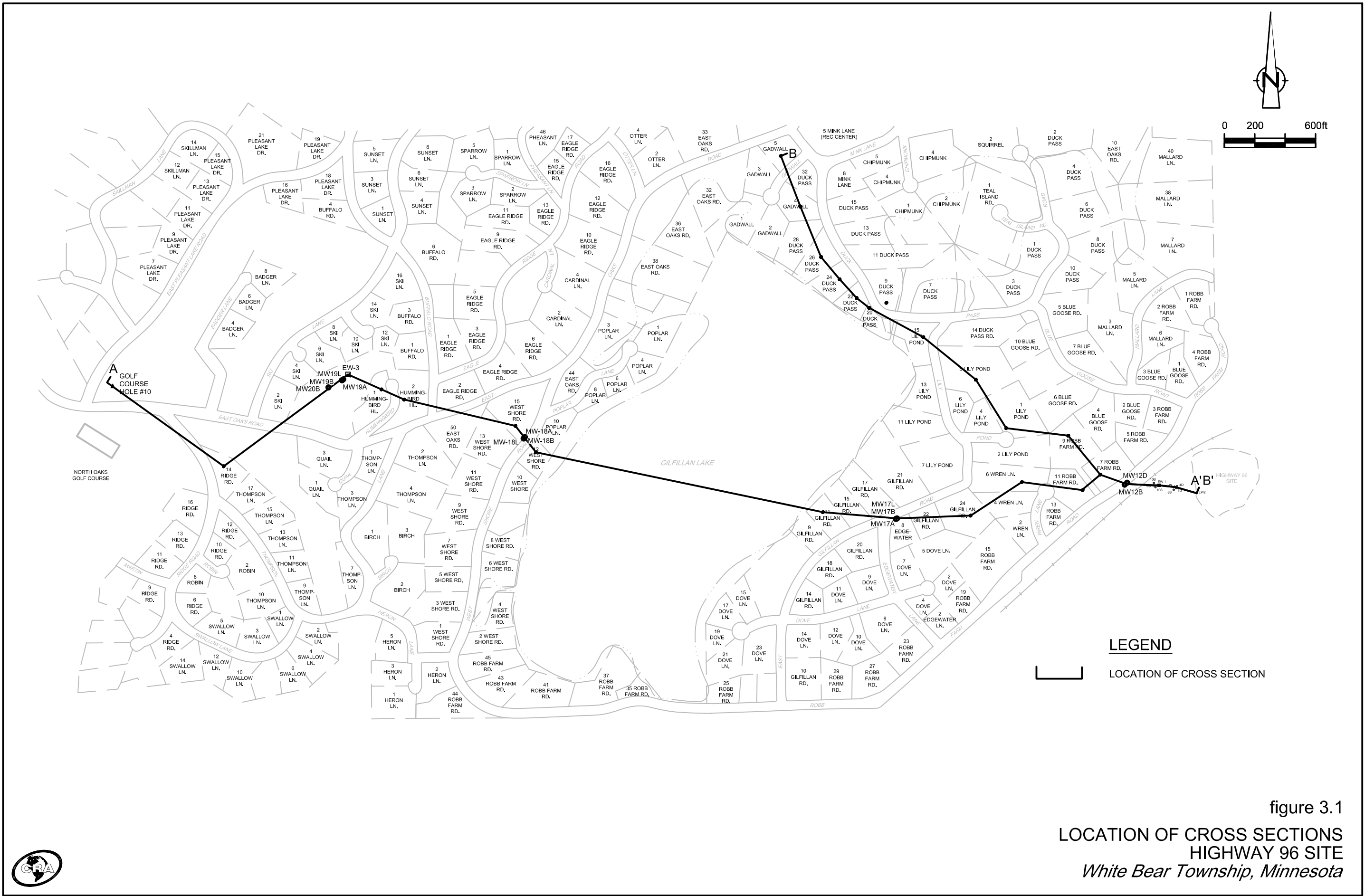
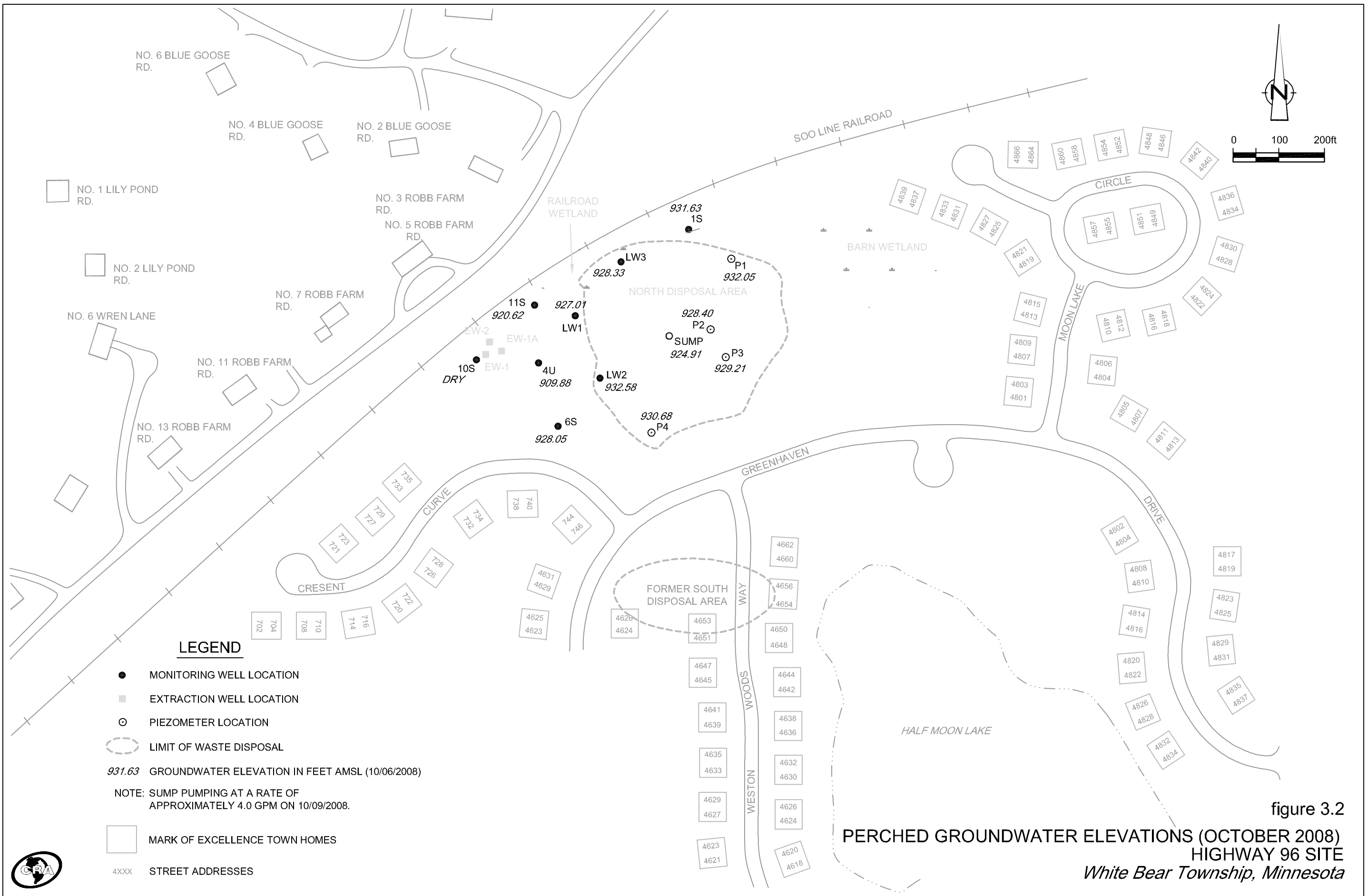
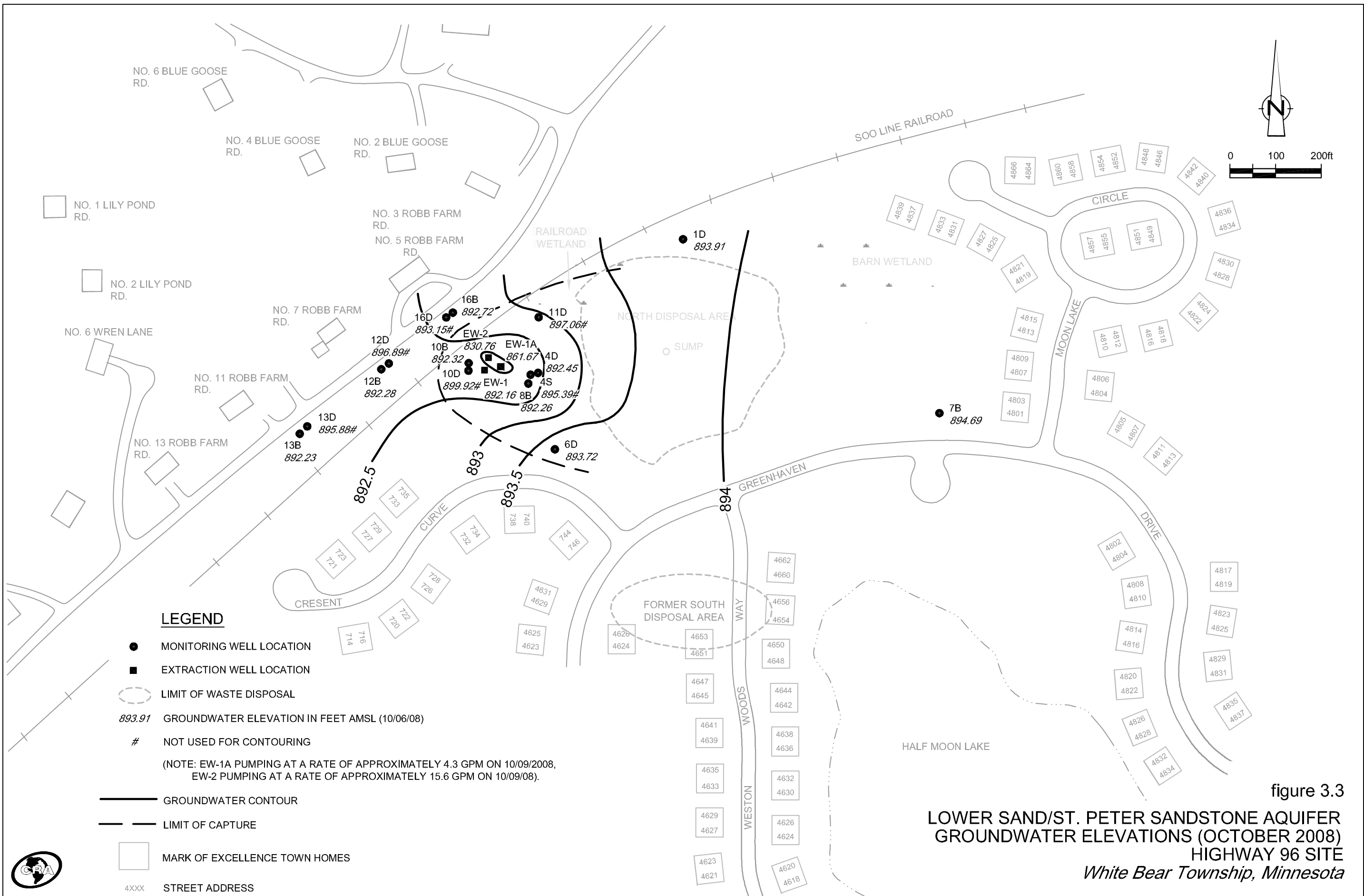
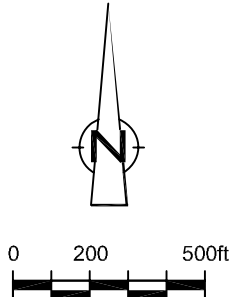


figure 3.1  
 LOCATION OF CROSS SECTIONS  
 HIGHWAY 96 SITE  
 White Bear Township, Minnesota









### LEGEND

- UPPER ST. PETER SANDSTONE MONITORING WELL LOCATION
- 885.88 GROUNDWATER ELEVATION IN FEET AMSL (10/06/08)
- GROUNDWATER CONTOUR

figure 3.4  
 UPPER ST. PETER SANDSTONE AQUIFER  
 GROUNDWATER ELEVATIONS (OCTOBER 2008)  
 HIGHWAY 96 SITE  
 White Bear Township, Minnesota



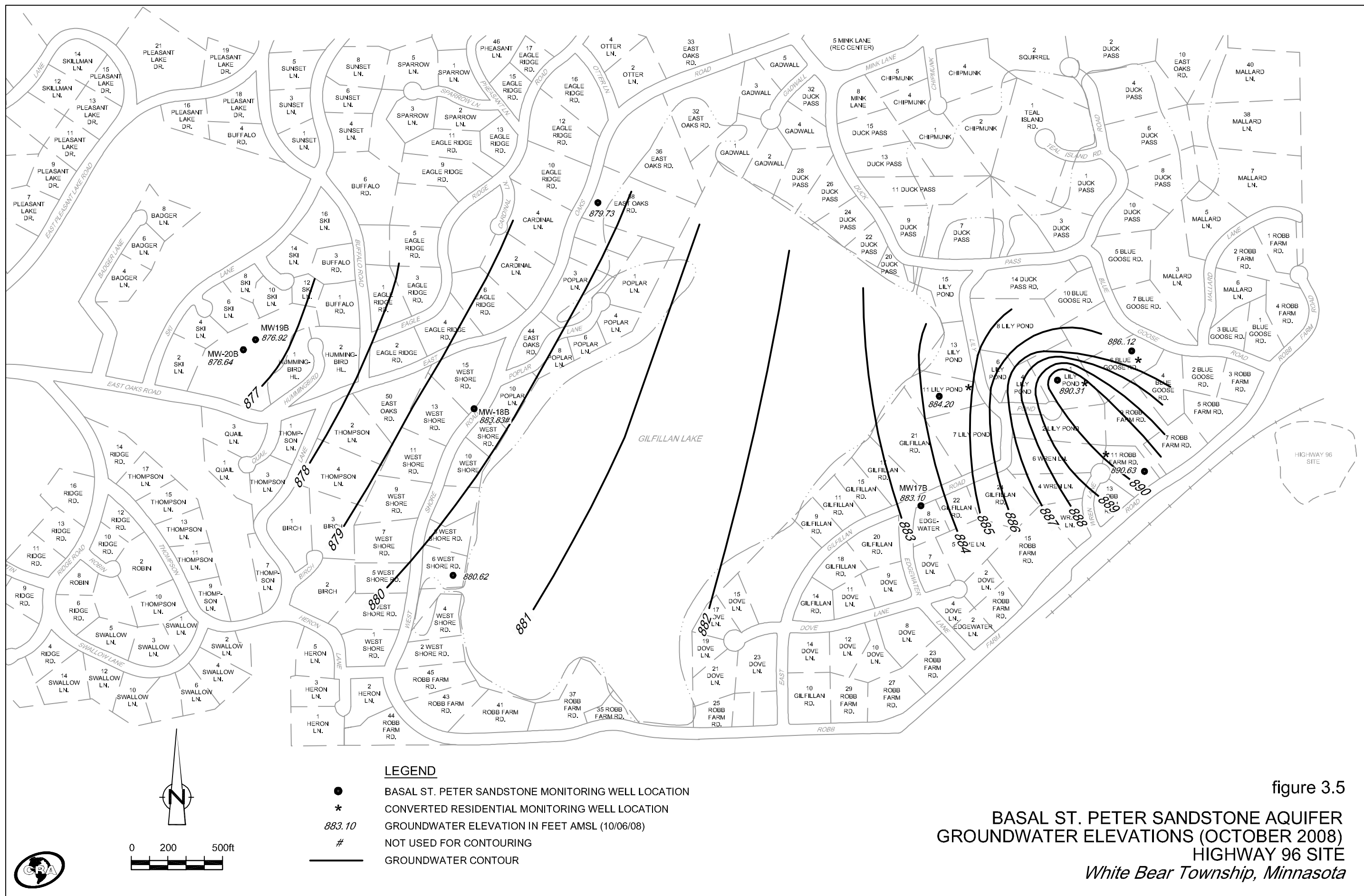


FIGURE 3.6

POUNDS OF TOTAL VOCs (TVOCs) REMOVED  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

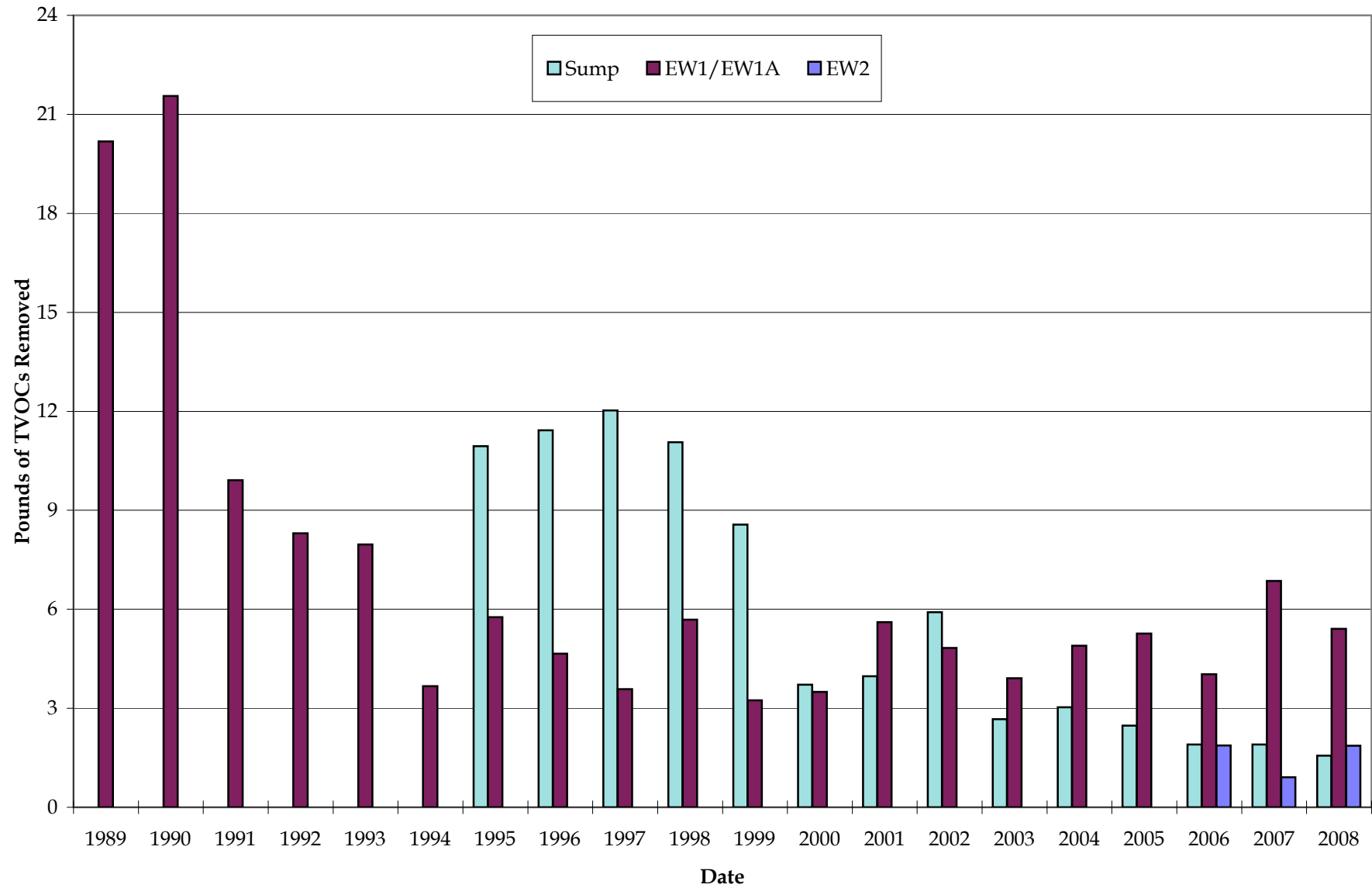


FIGURE 3.7

VOC REMOVAL EFFICIENCY  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

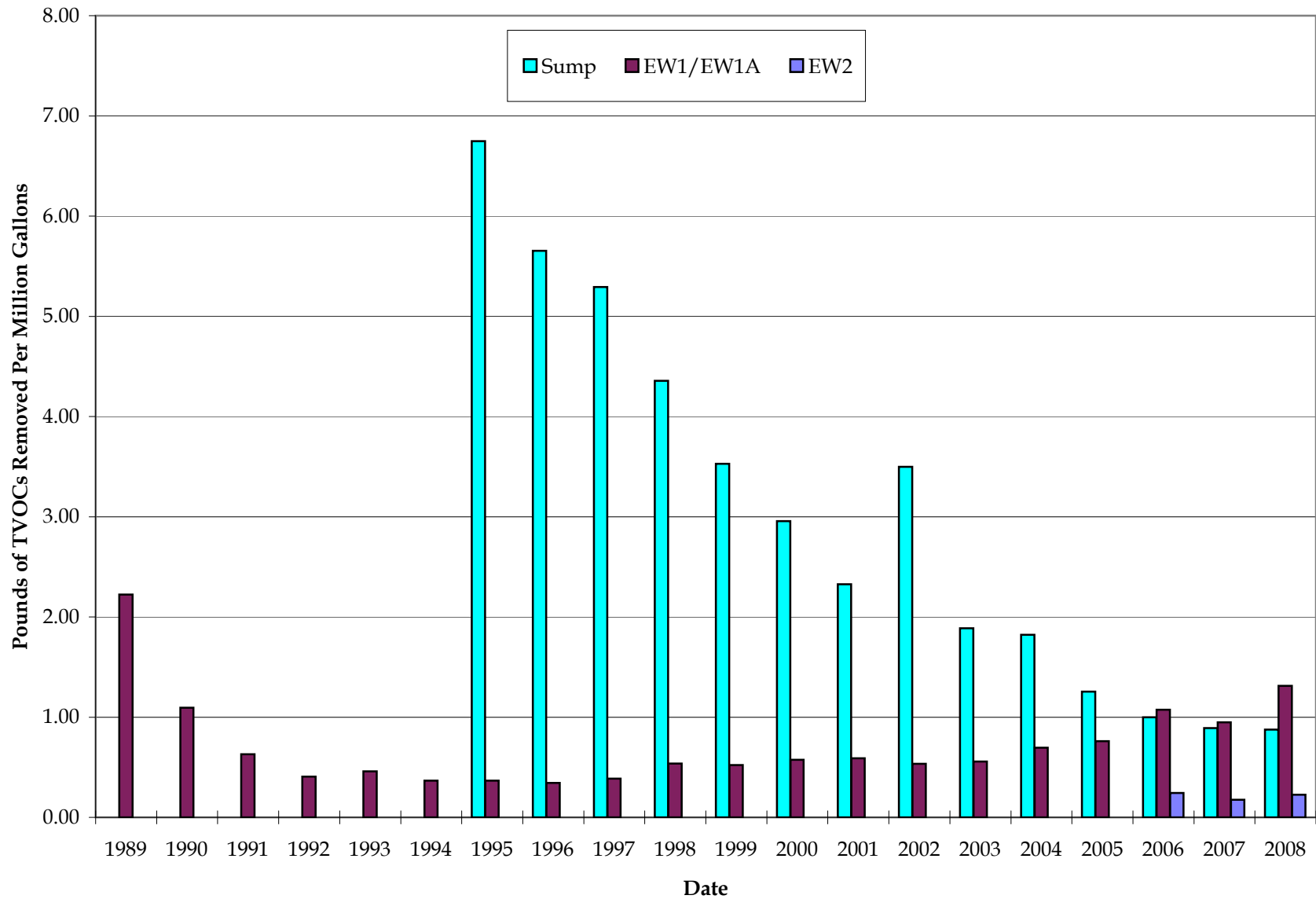


FIGURE 3.8

TOTAL VOC CONCENTRATIONS  
EW1/EW1A/EW2  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

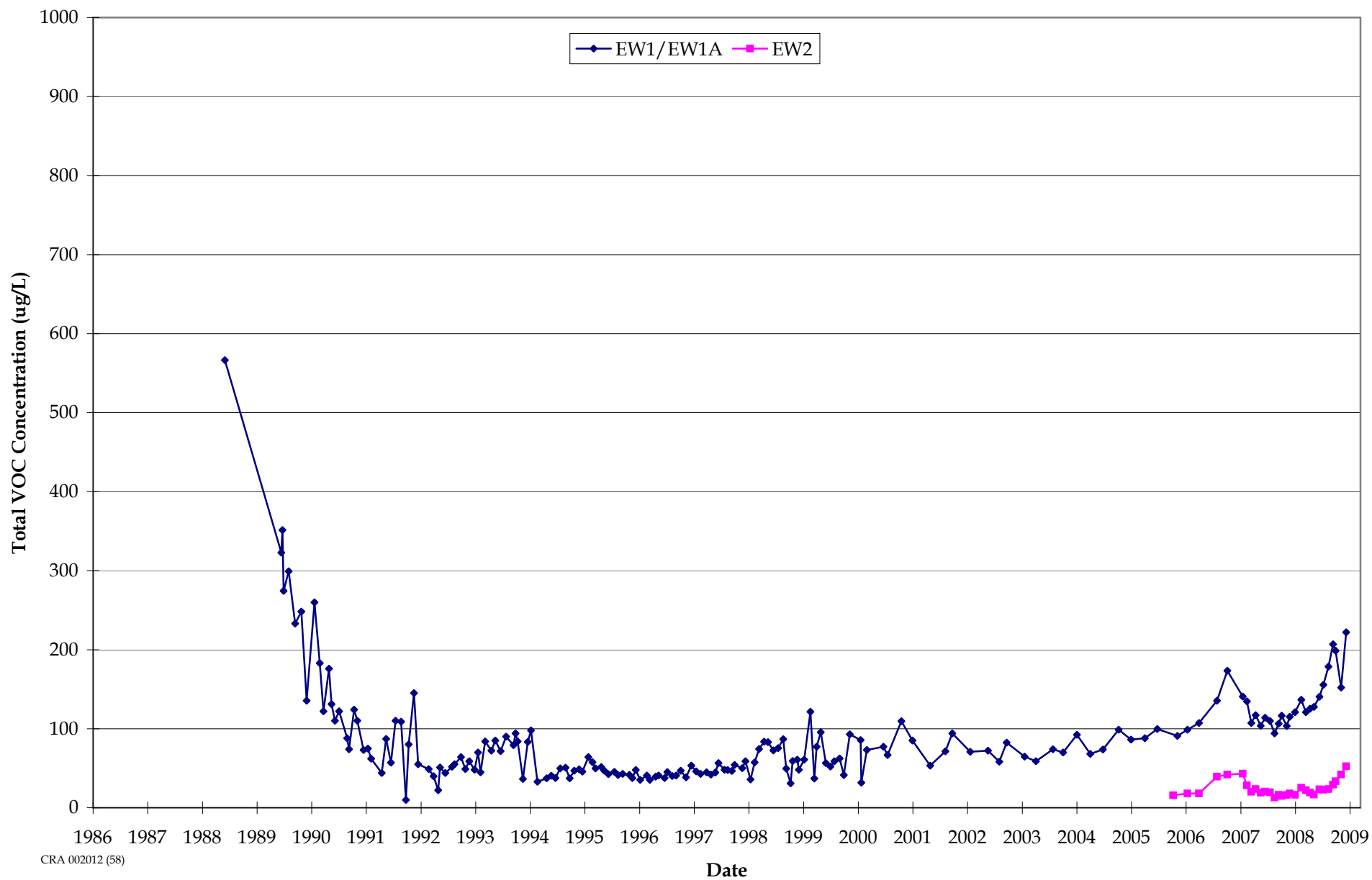
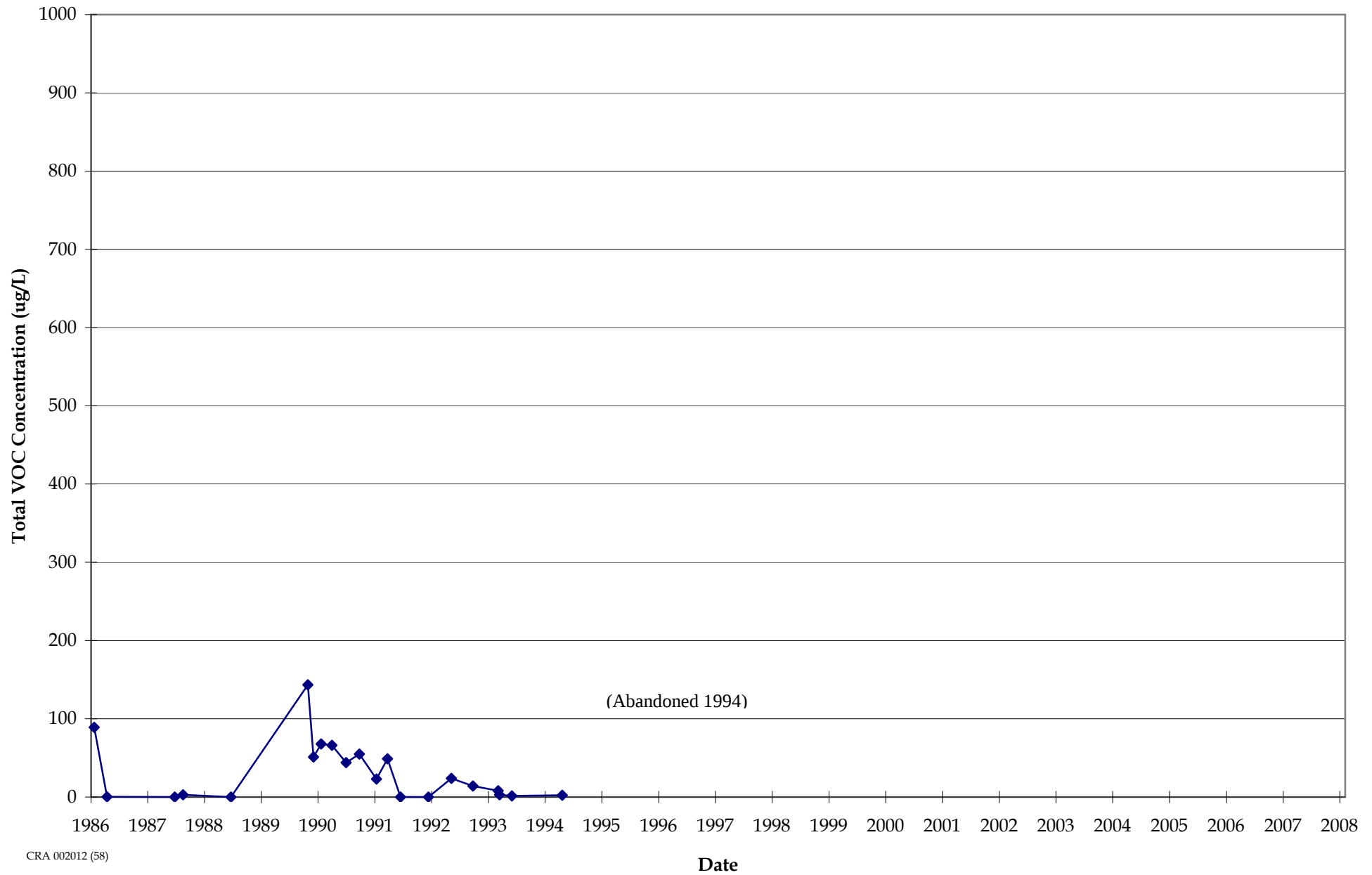


FIGURE 3.9

TOTAL VOC CONCENTRATIONS  
7 ROBB FARM ROAD  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA



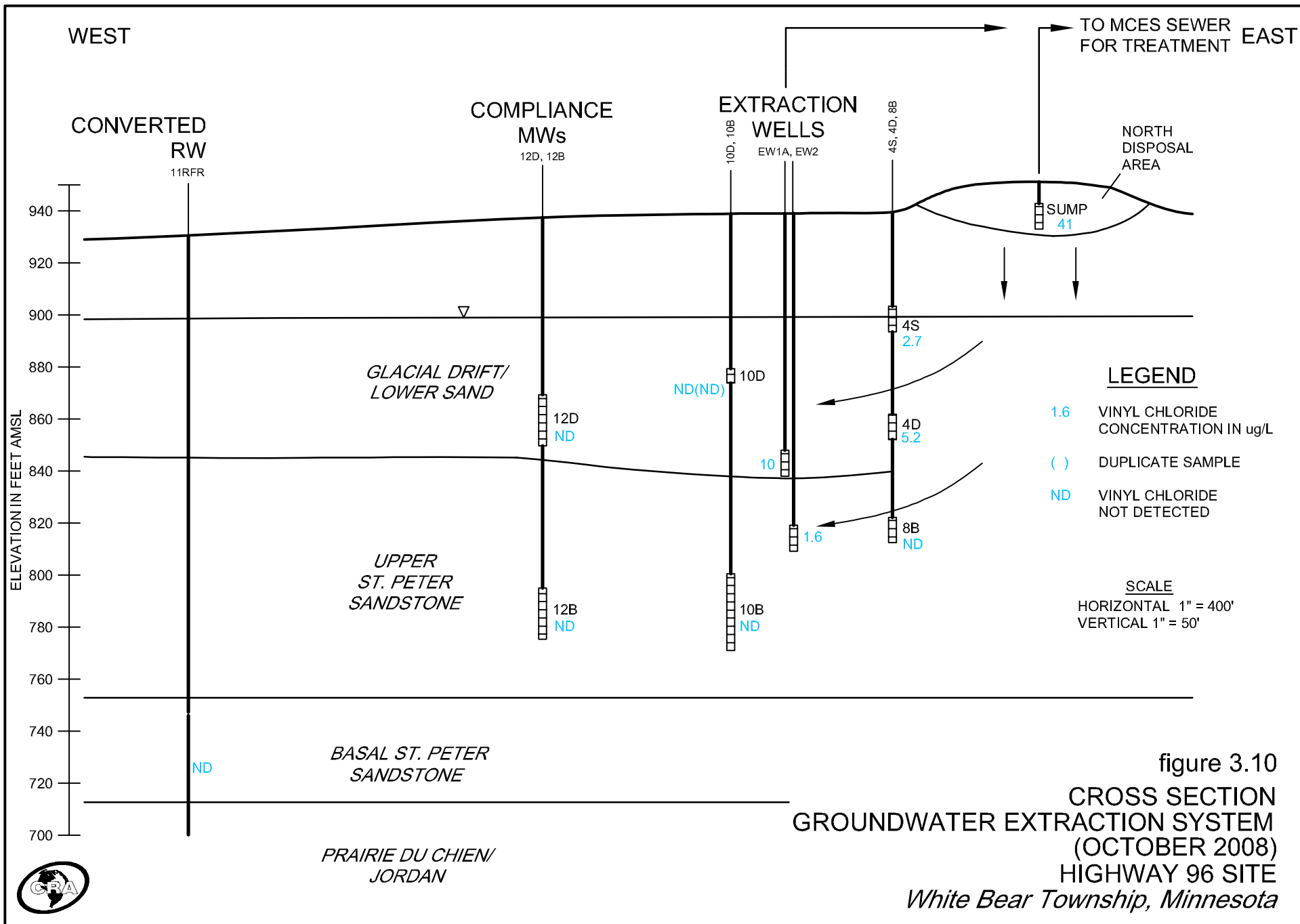


FIGURE 4.1

TOTAL VOC CONCENTRATIONS  
LW3  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

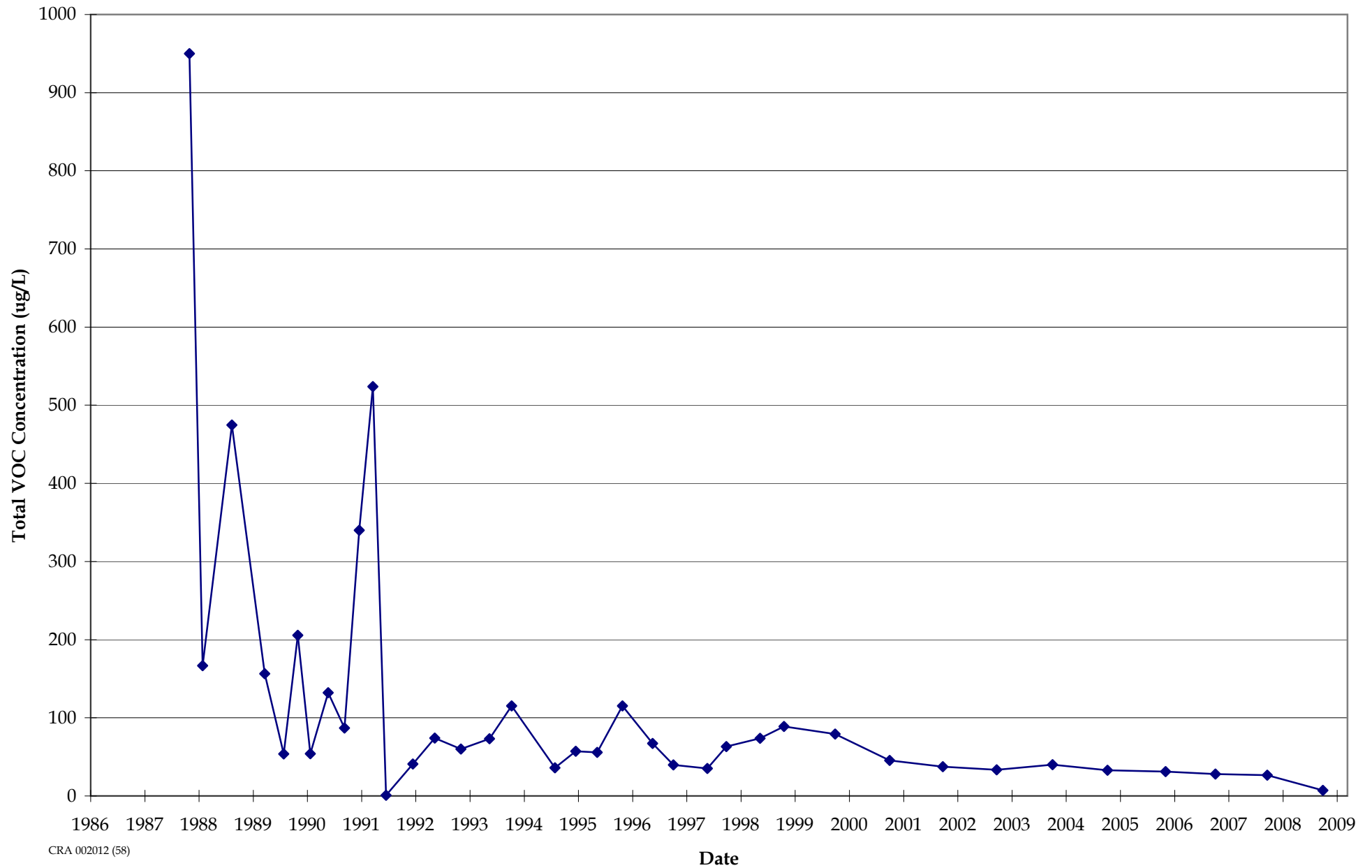


FIGURE 4.2

TOTAL VOC CONCENTRATIONS  
MW4D  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

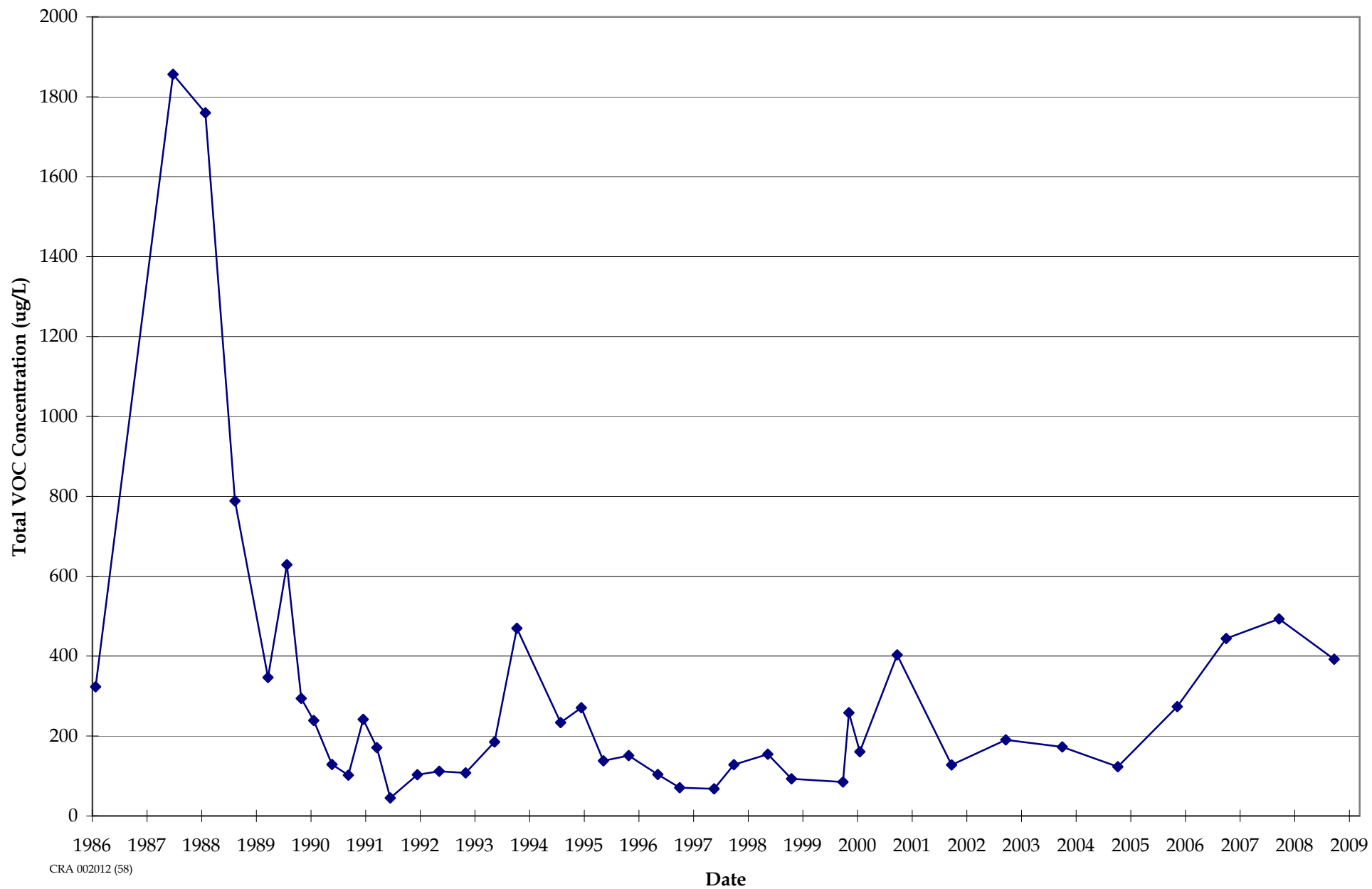


FIGURE 4.3

TOTAL VOC CONCENTRATIONS  
MW12D  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

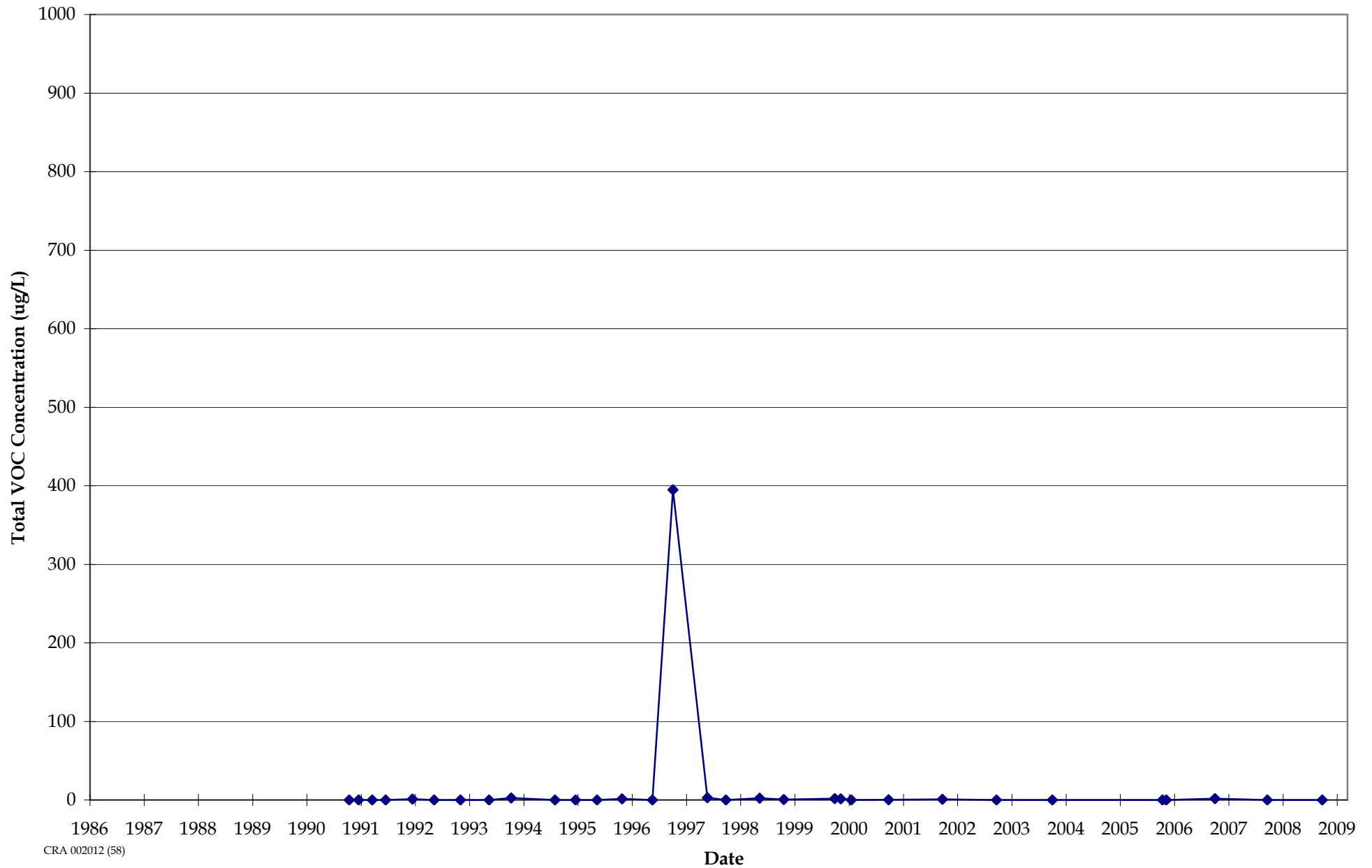


FIGURE 4.4

TOTAL VOC CONCENTRATIONS  
MW8B  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

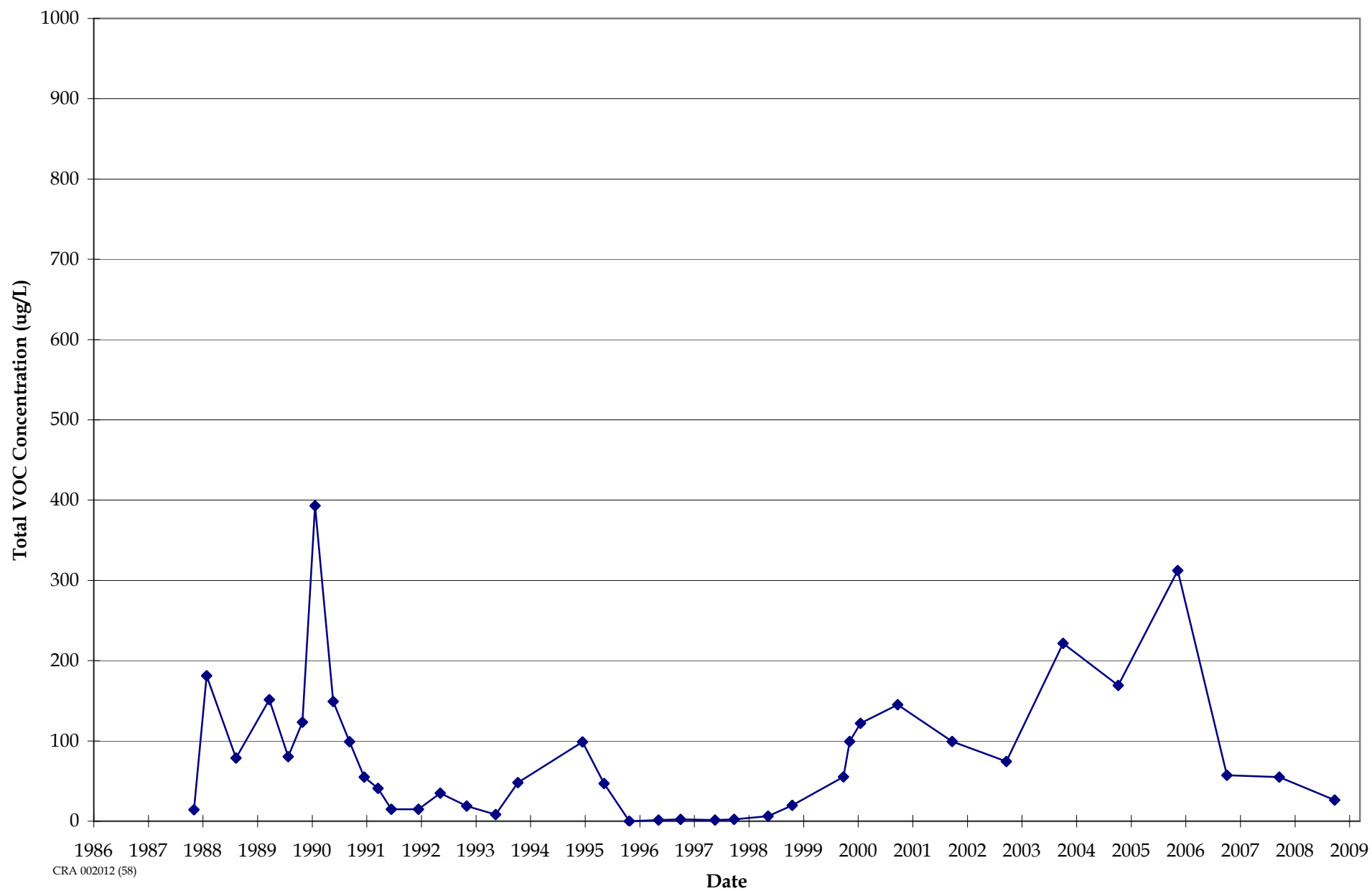


FIGURE 4.5

TOTAL VOC CONCENTRATIONS  
MW12B  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

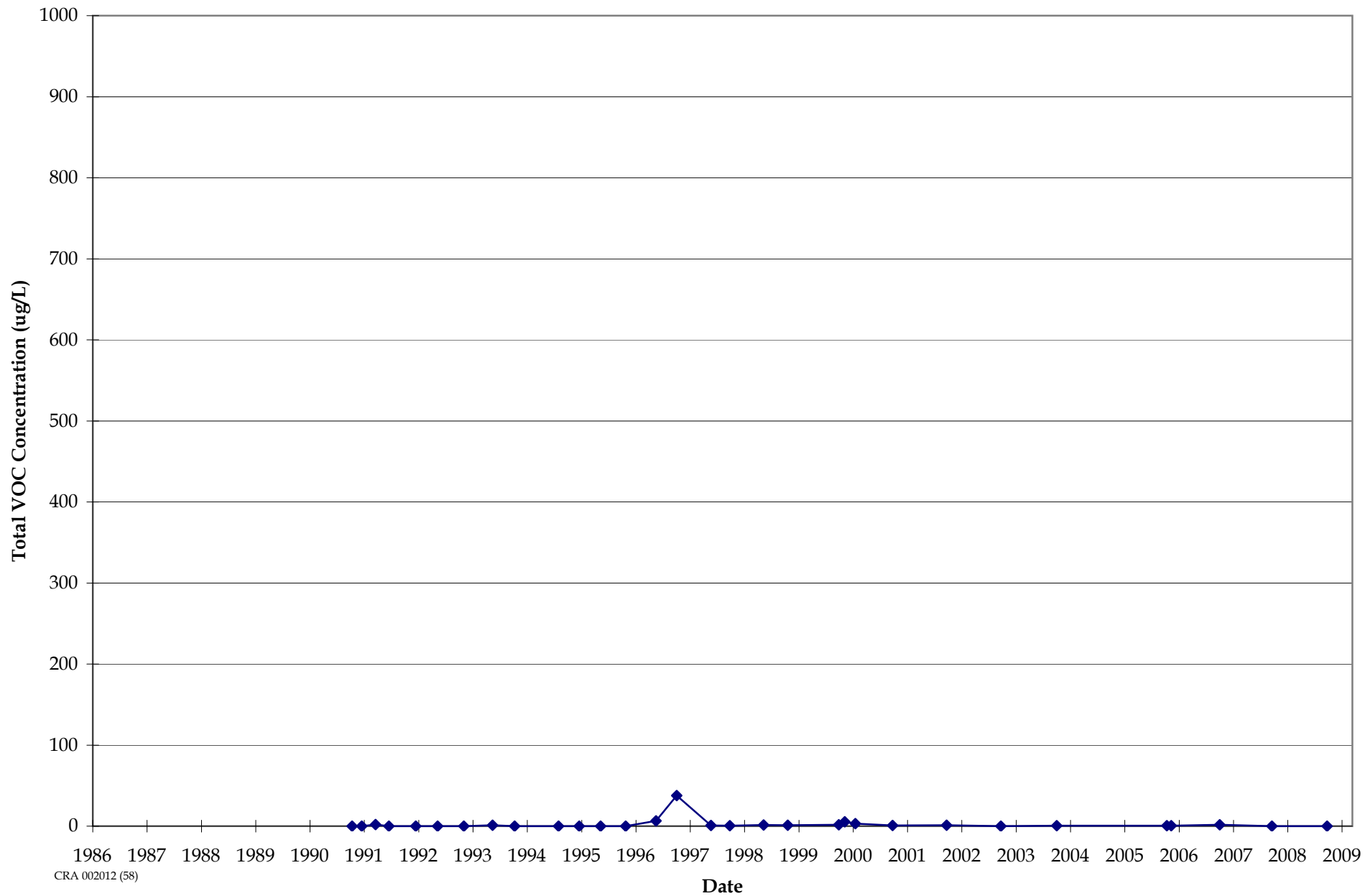


FIGURE 4.6

TOTAL VOC CONCENTRATIONS  
11 ROBB FARM ROAD  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

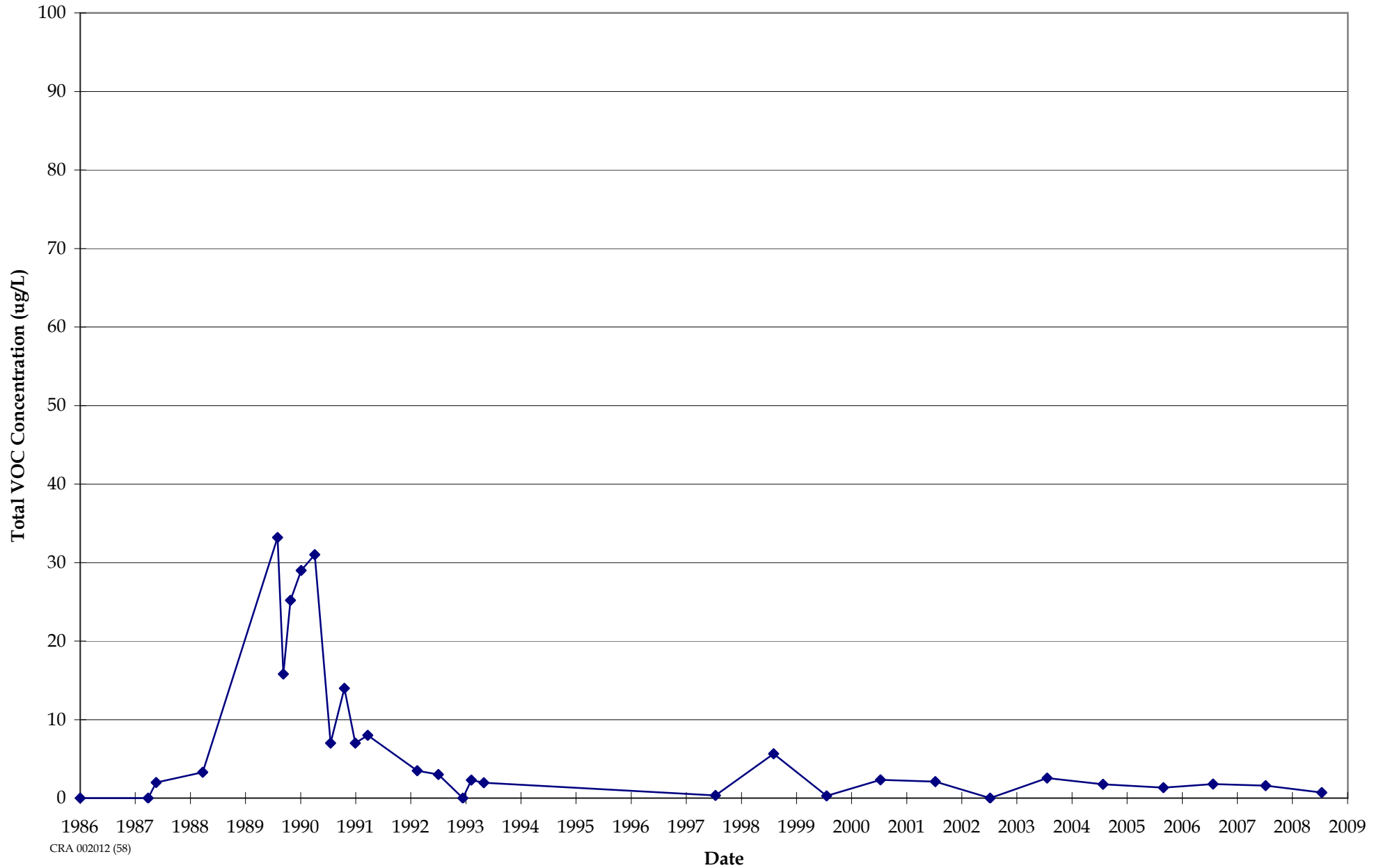


FIGURE 4.7

TOTAL VOC CONCENTRATIONS  
1 LILY POND ROAD  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

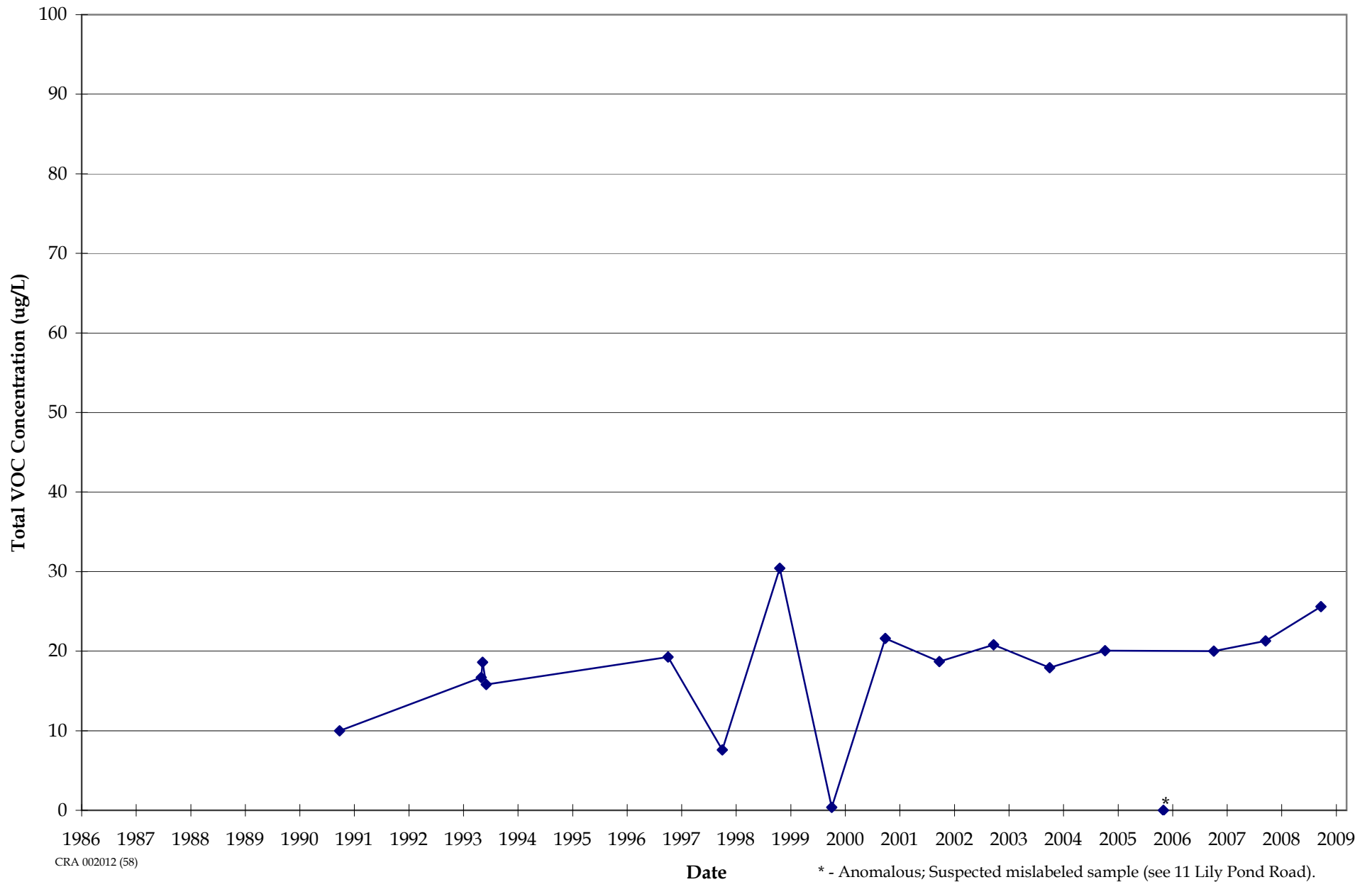


FIGURE 4.8

TOTAL VOC CONCENTRATIONS  
11 LILY POND ROAD  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA

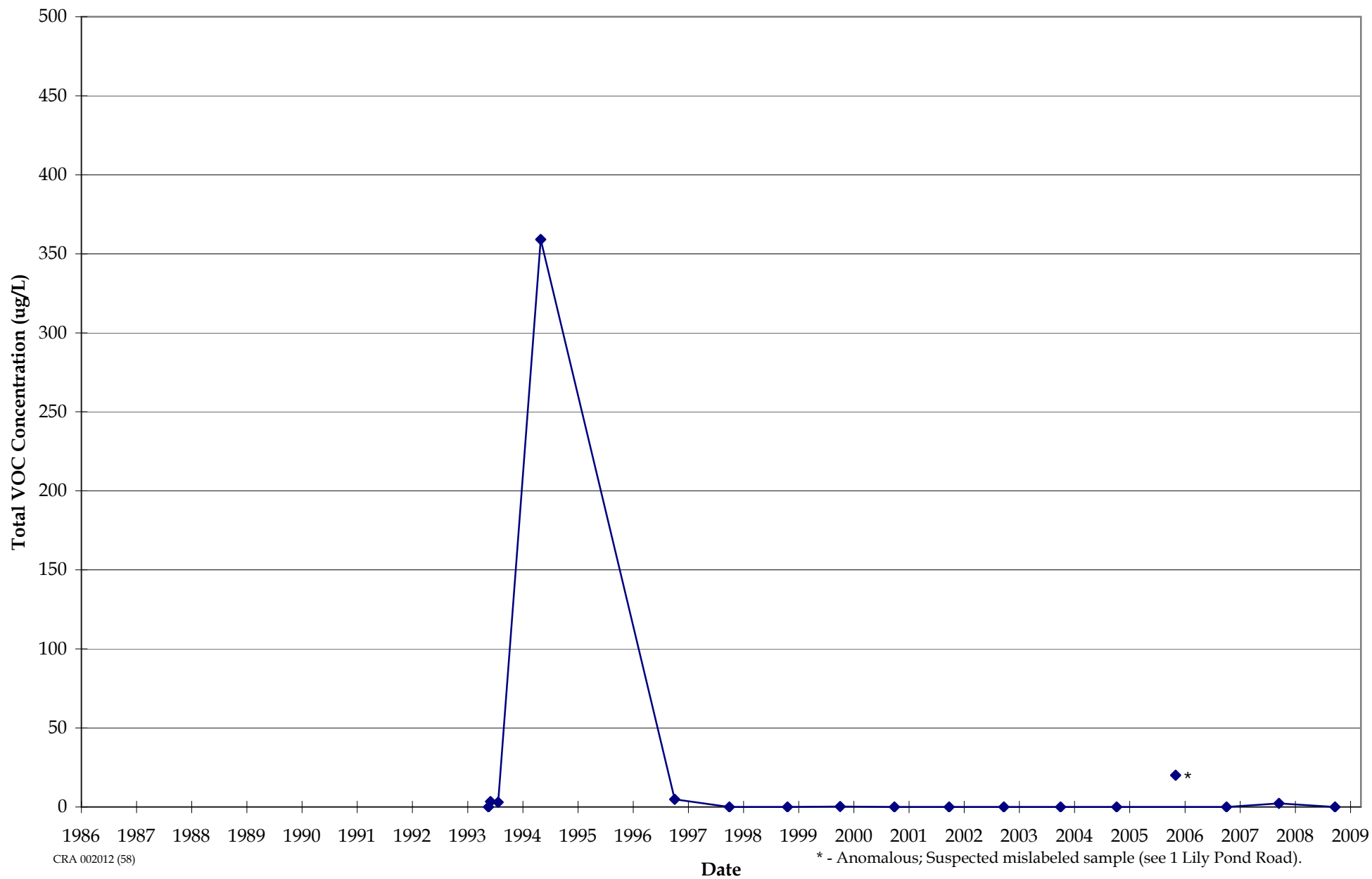
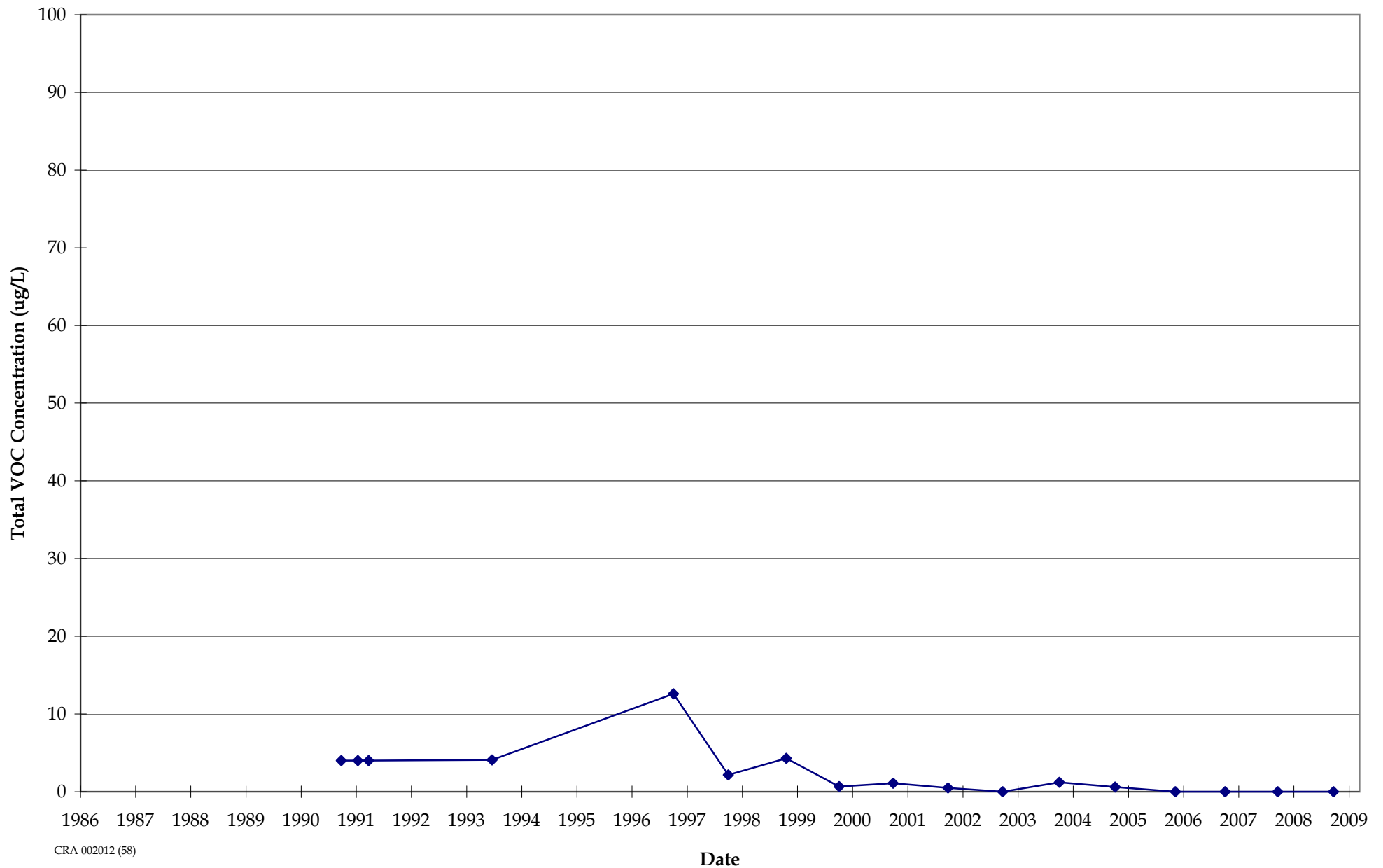
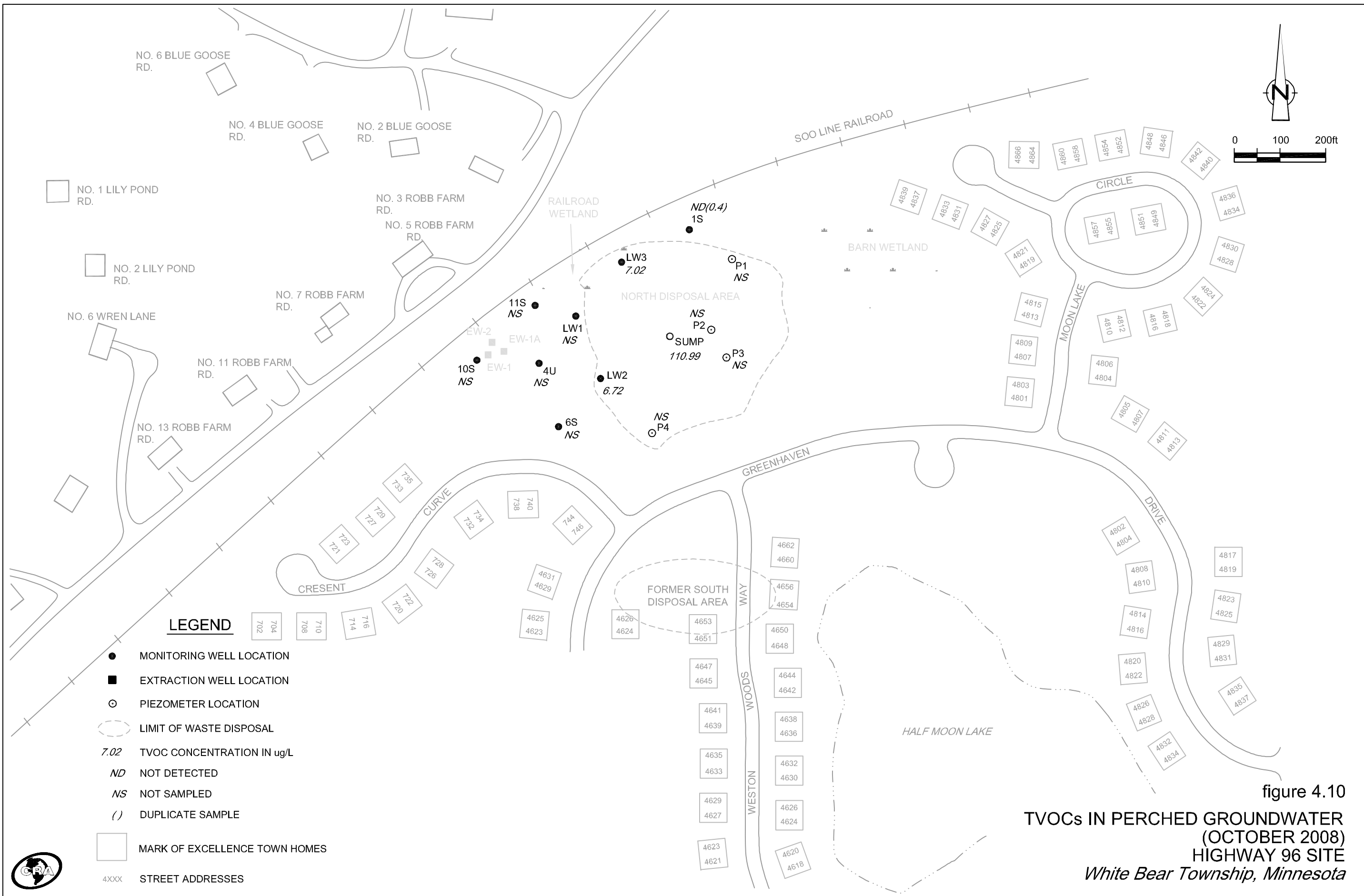


FIGURE 4.9

TOTAL VOC CONCENTRATIONS  
6 BLUE GOOSE ROAD  
HIGHWAY 96 SITE  
WHITE BEAR TOWNSHIP, MINNESOTA





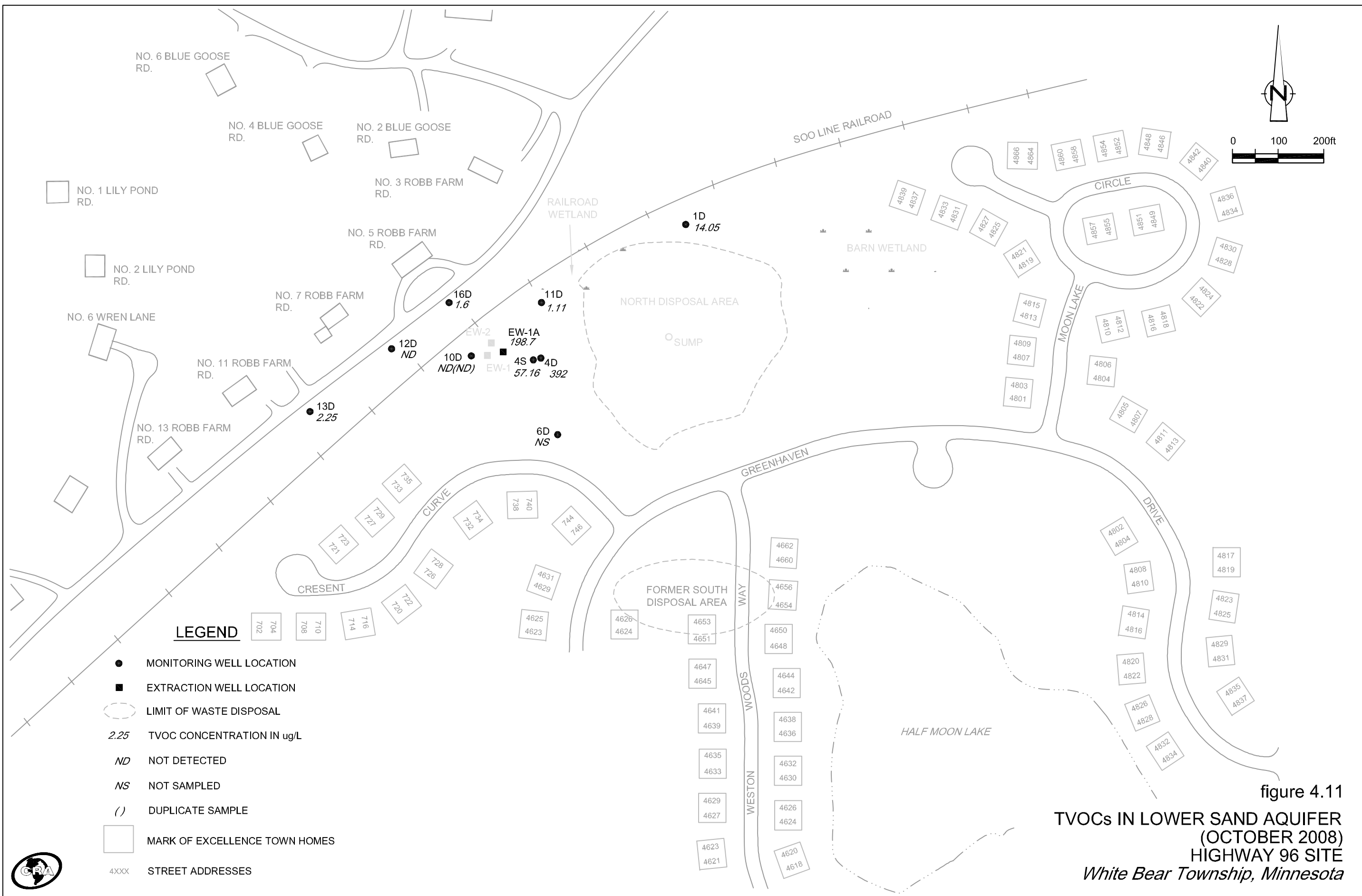


figure 4.11  
 TVOCs IN LOWER SAND AQUIFER  
 (OCTOBER 2008)  
 HIGHWAY 96 SITE  
 White Bear Township, Minnesota

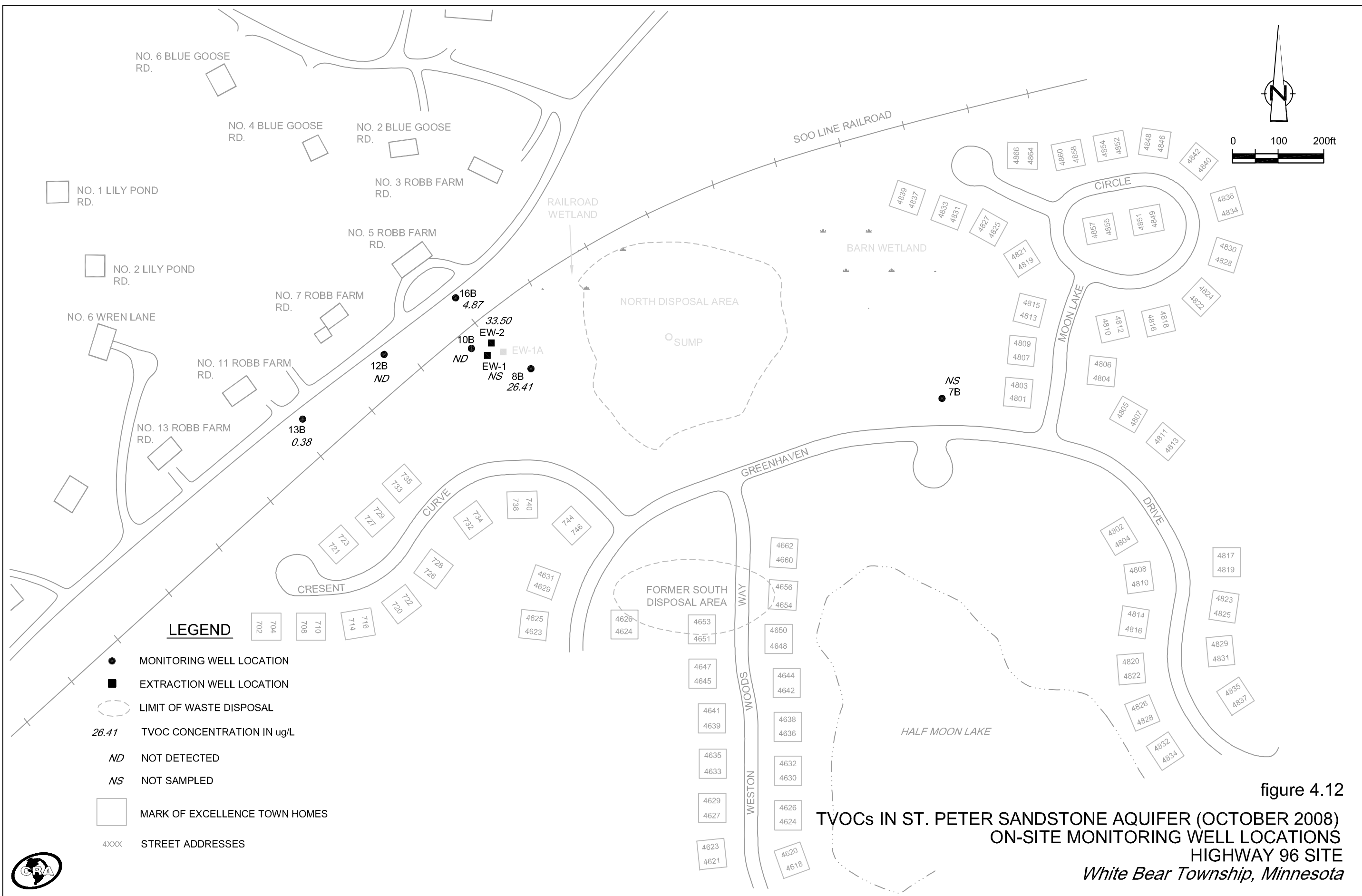
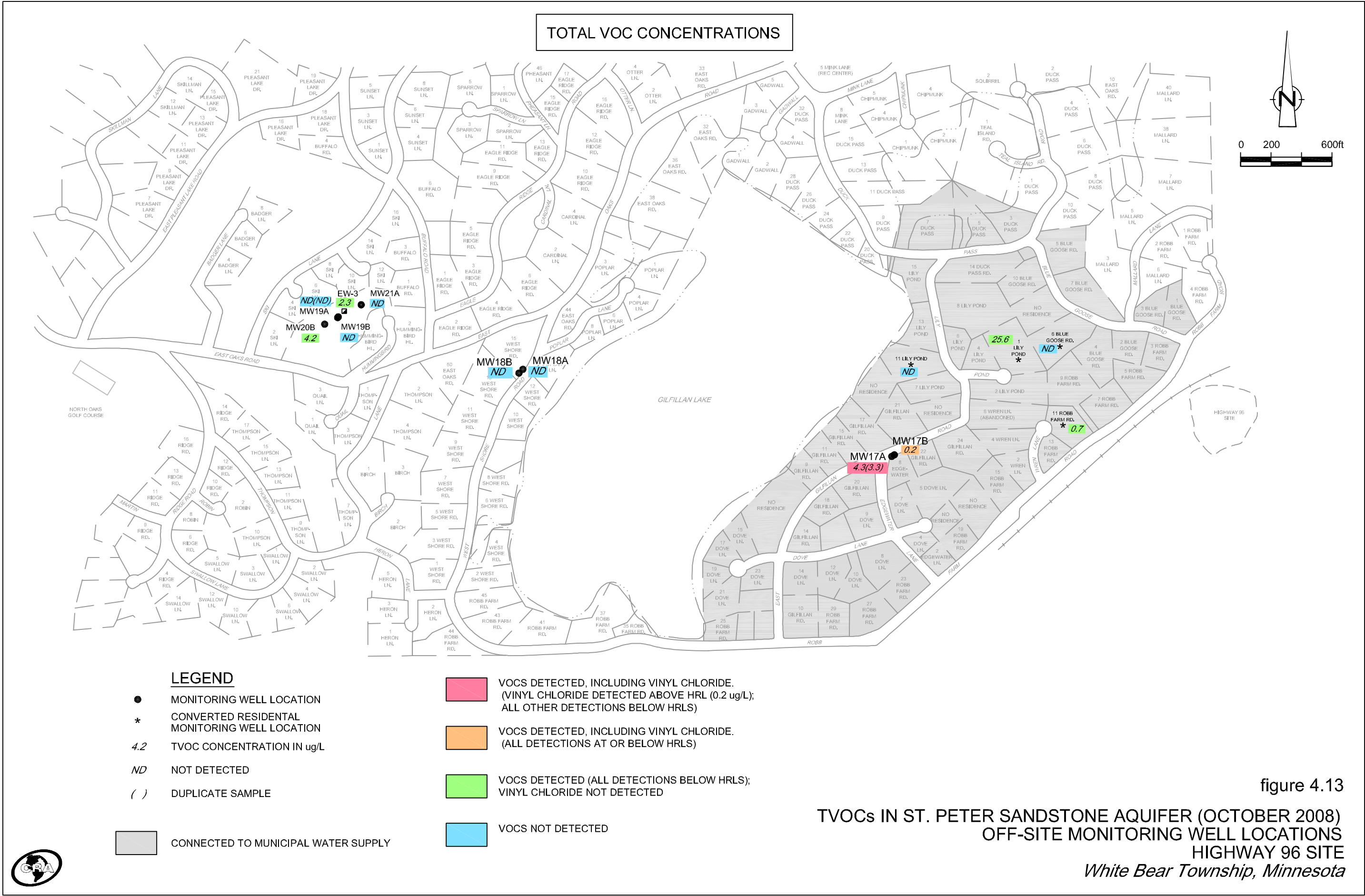
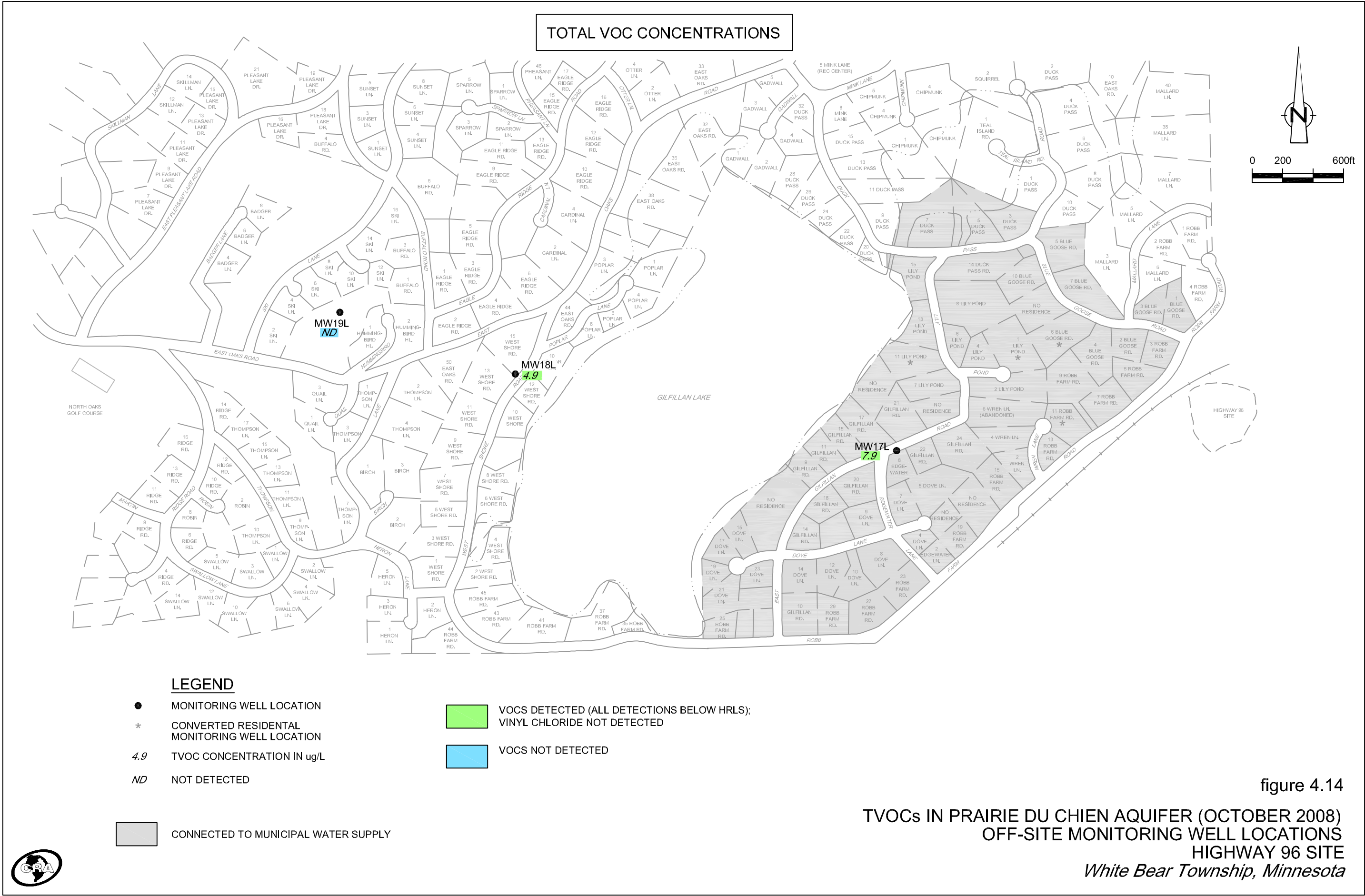


figure 4.12  
**TVOCs IN ST. PETER SANDSTONE AQUIFER (OCTOBER 2008)**  
**ON-SITE MONITORING WELL LOCATIONS**  
**HIGHWAY 96 SITE**  
*White Bear Township, Minnesota*









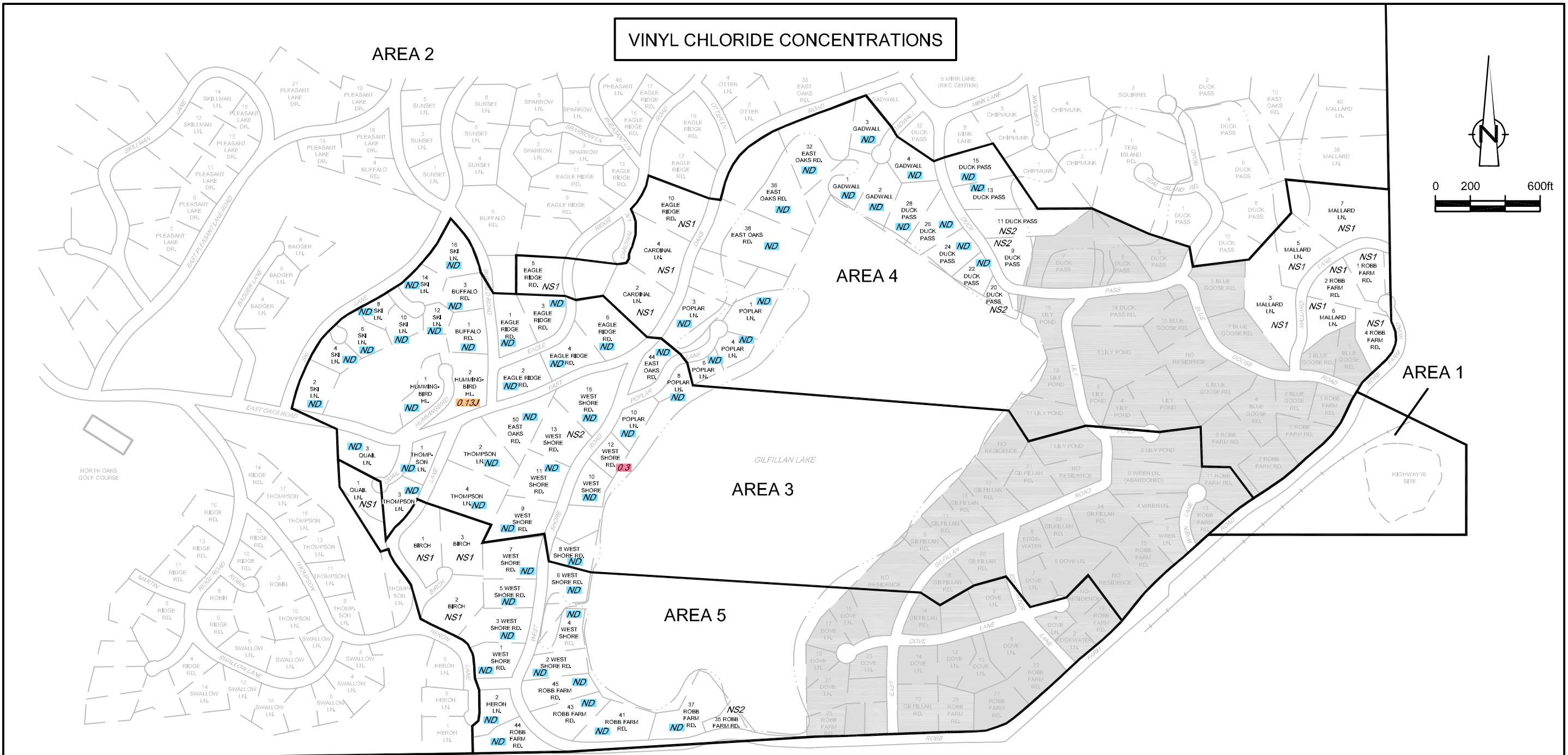
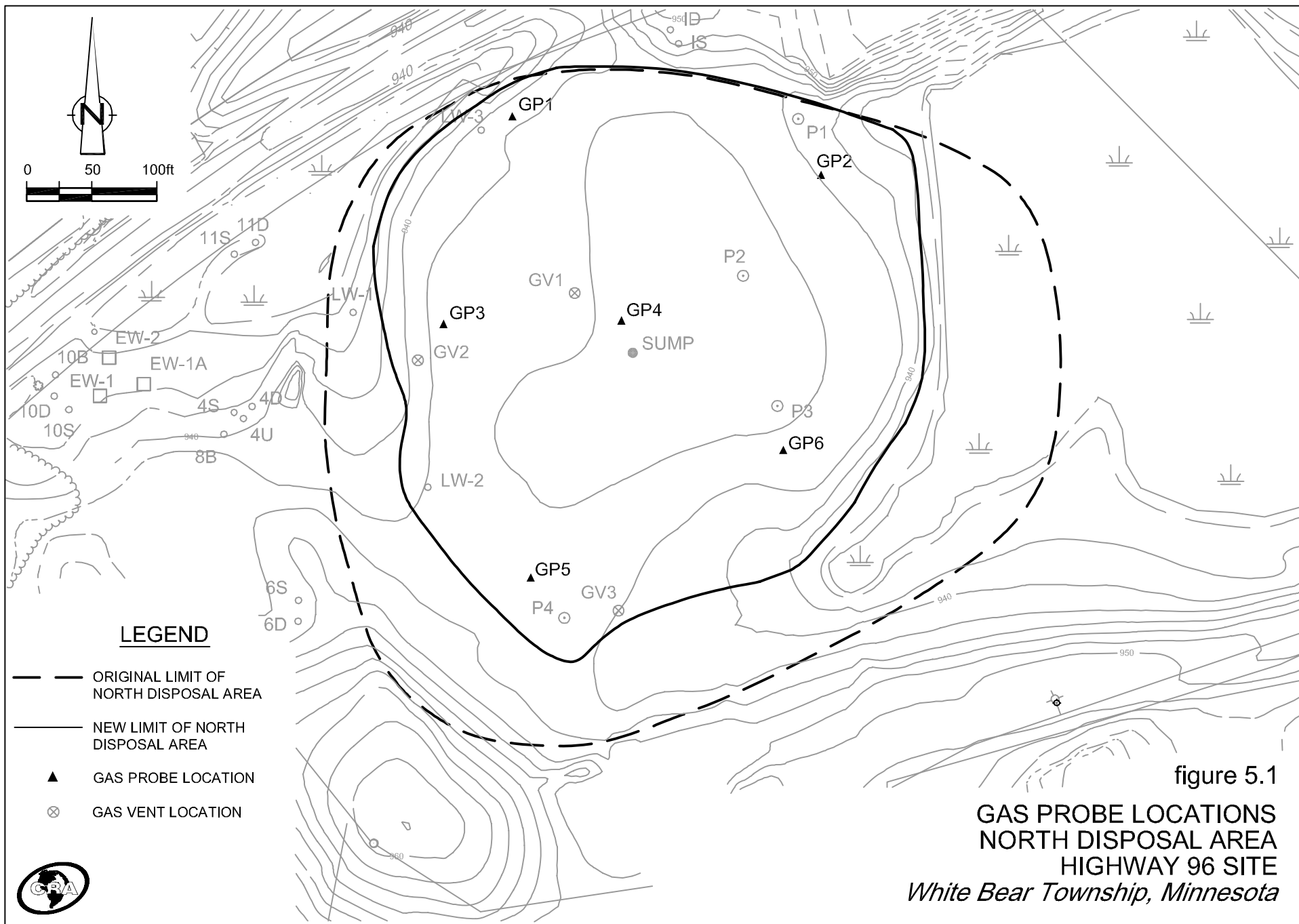
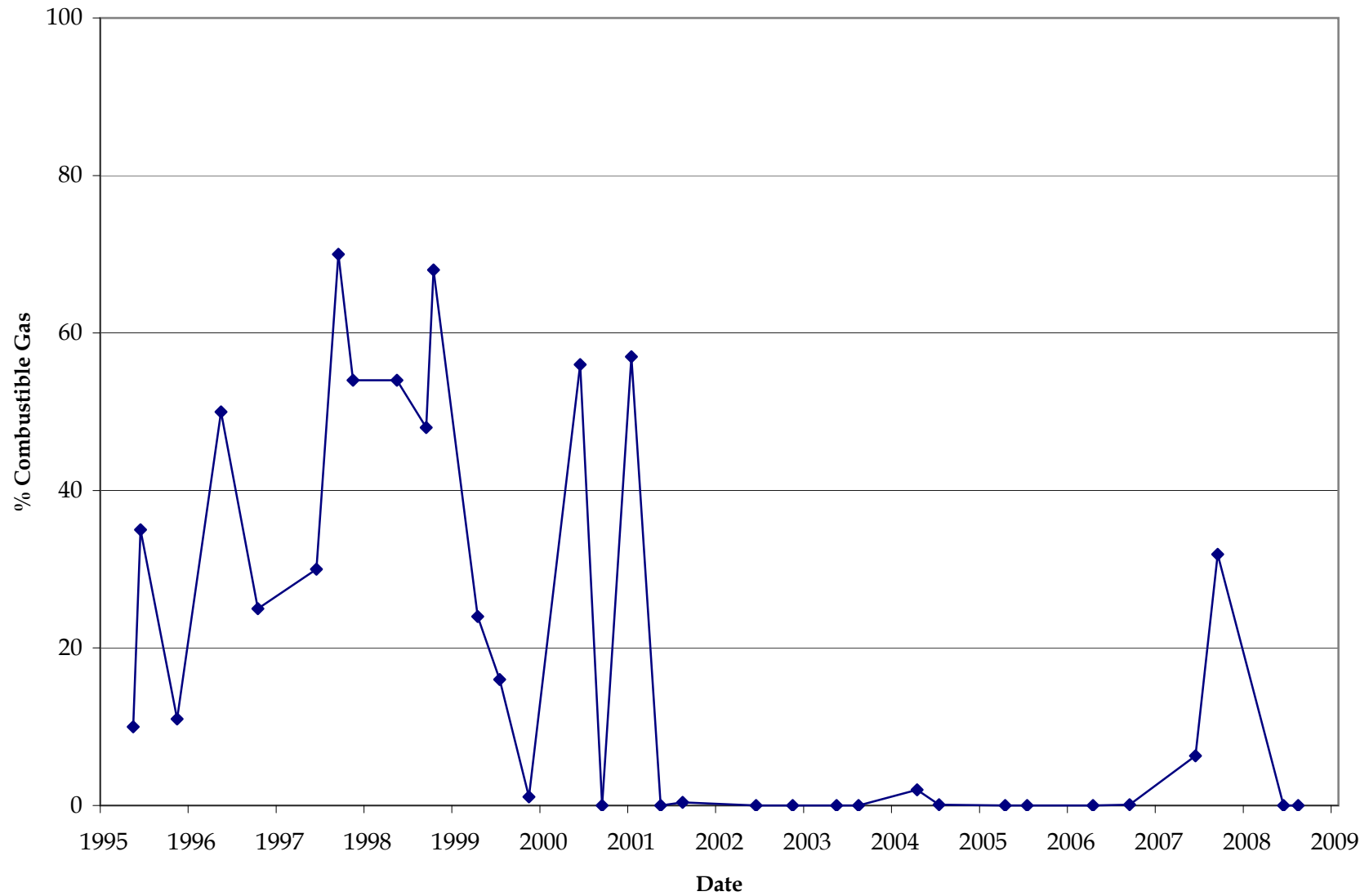


figure 4.16  
 MAXIMUM VINYL CHLORIDE CONCENTRATIONS  
 IN RESIDENTIAL WELLS (2008)  
 HIGHWAY 96 SITE  
 White Bear Township, Minnesota

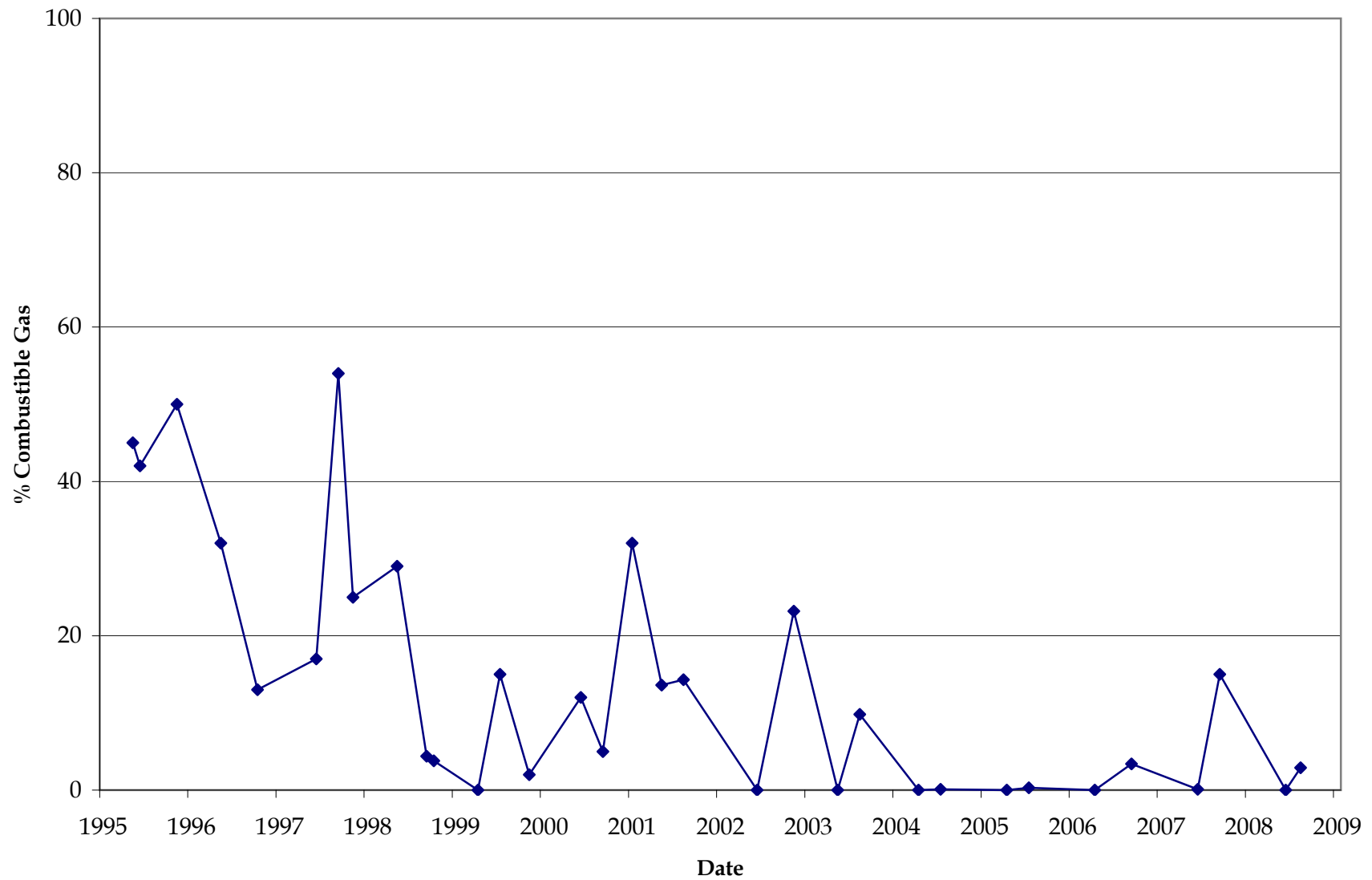




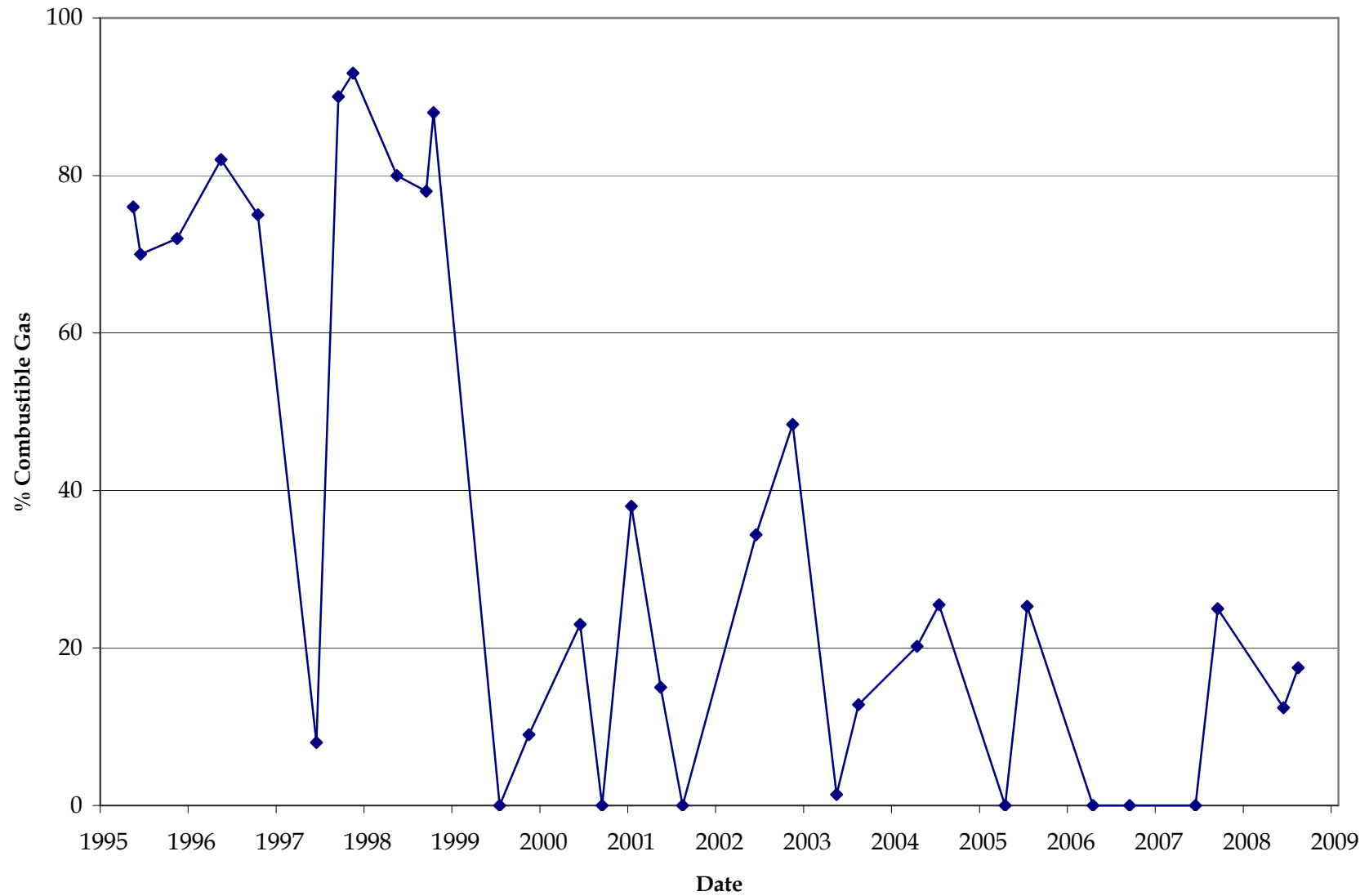
**FIGURE 5.2**  
**% COMBUSTIBLE GAS CONCENTRATIONS**  
**GP1**  
**HIGHWAY 96 SITE**  
**WHITE BEAR TOWNSHIP, MINNESOTA**



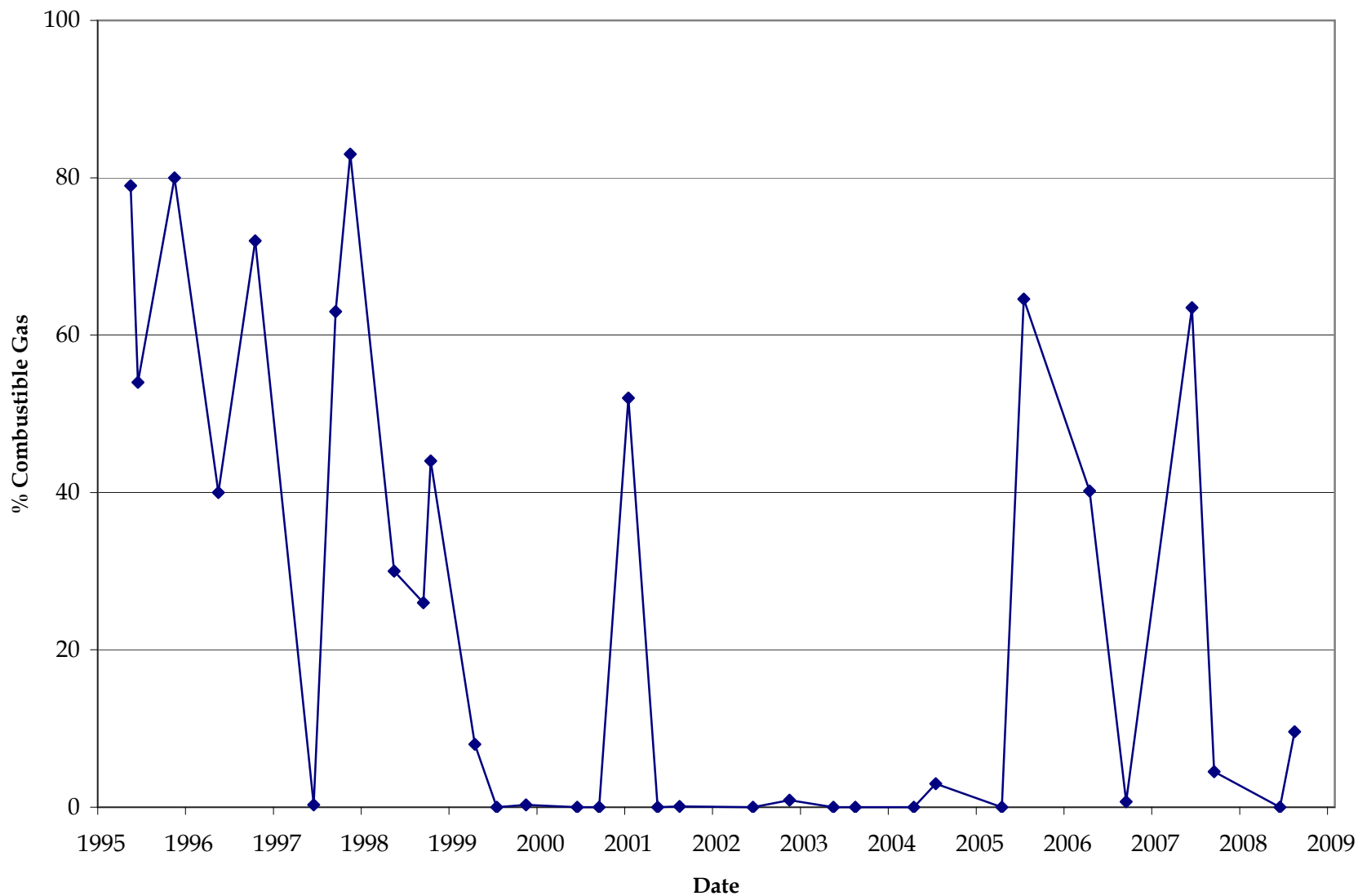
**FIGURE 5.3**  
**% COMBUSTIBLE GAS CONCENTRATIONS**  
**GP2**  
**HIGHWAY 96 SITE**  
**WHITE BEAR TOWNSHIP, MINNESOTA**



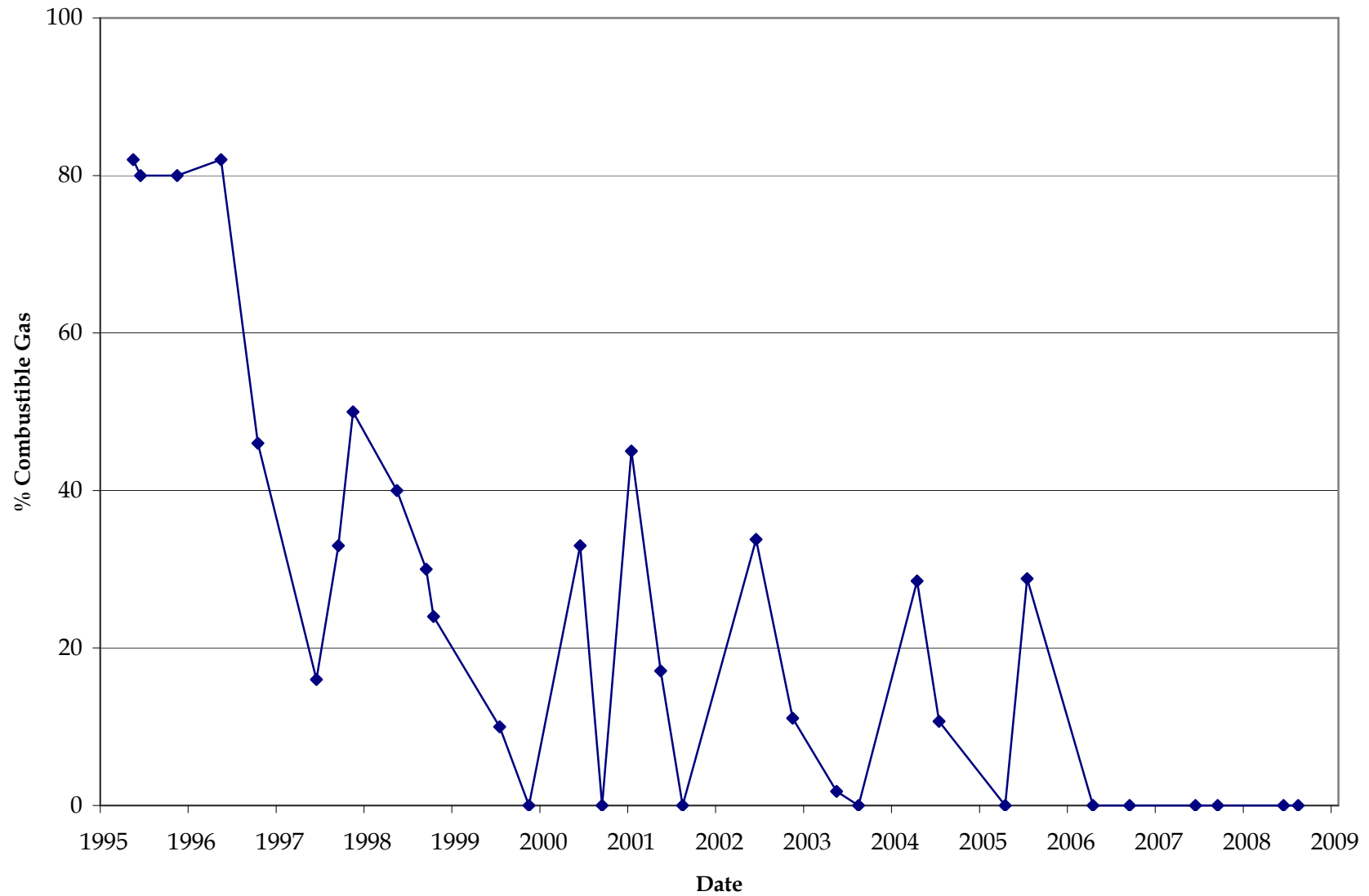
**FIGURE 5.4**  
**% COMBUSTIBLE GAS CONCENTRATIONS**  
**GP3**  
**HIGHWAY 96 SITE**  
**WHITE BEAR TOWNSHIP, MINNESOTA**



**FIGURE 5.5**  
**% COMBUSTIBLE GAS CONCENTRATIONS**  
**GP4**  
**HIGHWAY 96 SITE**  
**WHITE BEAR TOWNSHIP, MINNESOTA**



**FIGURE 5.6**  
**% COMBUSTIBLE GAS CONCENTRATIONS**  
**GP5**  
**HIGHWAY 96 SITE**  
**WHITE BEAR TOWNSHIP, MINNESOTA**



**FIGURE 5.7**  
**% COMBUSTIBLE GAS CONCENTRATIONS**  
**GP6**  
**HIGHWAY 96 SITE**  
**WHITE BEAR TOWNSHIP, MINNESOTA**

