

TABLES

TABLE 1.1
PRINCIPAL COMPOUNDS IN ST. PETER AQUIFER
AT THE HIGHWAY 96 SITE
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

<i>Analand</i>	<i>Units</i>	<i>7 Robb Farm Road (Maximum)</i>	<i>9 Robb Farm Road (Maximum)</i>	<i>11 Robb Farm Road (Maximum)</i>	<i>MW8B (Maximum)</i>
1,1-Dichloroethane	µg/L	67	19	11	130
cis-1,2-Dichloroethene	µg/L	3	0.29	ND (1)	51
Methyl ethyl ketone	µg/L	ND (50)	ND (10)	1.2	40
Vinyl chloride	µg/L	3	4	1	44

Notes:

ND Not Detected

() Laboratory Reporting Limit

TABLE 2.1

SUMMARY OF DETECTED COMPOUNDS
IN RESIDENTIAL WELLS
OCTOBER 2004 THROUGH MAY 2005
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

Address	Date	Dup	HRL	Chloride	1,1-Dichloroethane	Chloroform	cis-1,2-Dichloroethane	Methyl ethyl ketone	Methylene chloride	Vinyl chloride
				mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1 Buffalo Road	5/23/05			32.8	70 ND	60 ND	70 ND	4,000 ND	50 ND	0.2 ND
3 Buffalo Road	5/24/05			23.8 J	ND	ND	ND	ND	ND	ND
1 Eagle Ridge Road	3/31/05			NA	ND	ND	ND	ND	ND	ND
2 Eagle Ridge Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
2 Eagle Ridge Road	5/23/05			24.0	ND	ND	ND	ND	ND	ND
3 Eagle Ridge Road	3/30/05			NA	ND	ND	ND	ND	ND	ND
4 Eagle Ridge Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
6 Eagle Ridge Road	4/1/05			NA	ND	ND	ND	ND	ND	ND
32 East Oaks Road	10/19/04			19.0	ND	ND	ND	NA	ND	ND
32 East Oaks Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
36 East Oaks Road	10/19/04			17.0	ND	ND	ND	NA	ND	ND
36 East Oaks Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
38 East Oaks Road	10/19/04			1.2	ND	ND	ND	NA	ND	ND
38 East Oaks Road	4/14/05			NA	ND	ND	ND	ND	ND	ND
44 East Oaks Road	10/19/04			7.1	ND	ND	ND	NA	ND	ND
44 East Oaks Road	3/31/05			NA	ND	ND	ND	ND	ND	ND
50 East Oaks Road	4/29/05			NA	ND	ND	ND	ND	ND	ND
50 East Oaks Road	5/24/05			20.1	ND	ND	ND	ND	ND	ND
North Oaks Golf Course/54 East Oaks Road	11/12/04			NA	NA	NA	ND	NA	ND	ND
North Oaks Golf Course/54 East Oaks Road	3/29/05			NA	ND	0.1	ND	ND	ND	ND
2 Heron Lane	10/19/04			28.0	ND	ND	ND	NA	ND	ND
1 Hummingbird Hill	5/23/05			13.2	ND	ND	ND	6 J	ND	ND
2 Hummingbird Hill	3/28/05			NA	0.13 J	ND	ND	ND	ND	ND
2 Hummingbird Hill	4/29/05			NA	0.13 J	ND	ND	ND	ND	0.2
2 Hummingbird Hill	5/23/05			27.6	0.11 J	ND	ND	6 J	ND	0.16 J
North Oaks East Rec Center/5 Mink Lane	3/30/05			NA	ND	ND	ND	ND	ND	ND
1 Poplar Lane	3/29/05			NA	ND	ND	ND	ND	ND	ND
1 Poplar Lane	5/23/05			ND	ND	ND	ND	ND	ND	ND
3 Poplar Lane	10/19/04			15.0	ND	ND	ND	NA	ND	ND
3 Poplar Lane	10/19/04	D		15.0	ND	ND	ND	NA	ND	ND
3 Poplar Lane	3/29/05			NA	ND	ND	ND	ND	ND	ND
4 Poplar Lane	10/19/04			7.4	ND	ND	ND	NA	ND	ND
4 Poplar Lane	4/14/05			NA	ND	ND	ND	ND	ND	ND
6 Poplar Lane	10/19/04			2.6	ND	ND	ND	NA	ND	ND
6 Poplar Lane	4/1/05			NA	ND	ND	ND	ND	ND	ND
6 Poplar Lane	4/1/05	D		NA	ND	ND	ND	ND	ND	ND
8 Poplar Lane	3/31/05			NA	ND	ND	ND	ND	ND	ND
8 Poplar Lane	3/31/05	D		NA	ND	ND	ND	ND	ND	ND
10 Poplar Lane	10/19/04			11.0	ND	ND	ND	NA	ND	ND
10 Poplar Lane	5/24/05			26.3 J	ND	ND	ND	ND	ND	ND
10 Poplar Lane	5/24/05	D		26.5 J	ND	ND	ND	ND	ND	ND
2 Ski Lane	5/23/05			8.3	ND	ND	ND	ND	ND	ND
4 Ski Lane	5/23/05			30.5	ND	ND	ND	ND	ND	ND
6 Ski Lane	5/23/05			23.1	ND	ND	ND	ND	ND	ND

SUMMARY OF DETECTED COMPOUNDS
IN RESIDENTIAL WELLS
OCTOBER 2004 THROUGH MAY 2005
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

Address	Date	Dup	HRL	Chloride	1,1-Dichloroethane	Chloroform	cis-1,2-Dichloroethane	Methyl ethyl ketone	Methylene chloride	Vinyl chloride
				mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
				--	70	60	70	4,000	50	0.2
12 Ski Lane	5/23/05			16.0	ND	ND	ND	6 J	ND	ND
14 Ski Lane	5/24/05			16.6 J	ND	ND	ND	ND	ND	ND
16 Ski Lane	5/24/05			21.3 J	ND	ND	ND	ND	ND	ND
1 Thompson Lane	4/1/05			NA	ND	ND	ND	ND	ND	ND
1 Thompson Lane	4/1/05	D		NA	ND	ND	ND	ND	ND	ND
1 Thompson Lane	5/23/05			13.3	ND	ND	ND	6 J	ND	ND
2 Thompson Lane	3/31/05			NA	ND	ND	ND	ND	ND	ND
2 Thompson Lane	5/23/05			20.5	ND	ND	ND	6 J	ND	ND
3 Thompson Lane	3/28/05			NA	ND	ND	ND	ND	ND	ND
1 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
2 West Shore Road	3/31/05			NA	ND	ND	ND	ND	ND	ND
3 West Shore Road	10/19/04			2.9	ND	ND	ND	NA	ND	ND
3 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
4 West Shore Road	3/31/05			NA	ND	ND	ND	ND	ND	ND
5 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
6 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
7 West Shore Road	10/19/04			5.4	ND	ND	ND	NA	ND	ND
7 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
7 West Shore Road	3/29/05	D		NA	ND	ND	ND	ND	ND	ND
9 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
10 West Shore Road	10/19/04			18.0	ND	ND	ND	NA	ND	ND
10 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
10 West Shore Road	5/24/05			18.7	ND	ND	ND	ND	ND	ND
11 West Shore Road	10/19/04			6.1	ND	ND	ND	NA	ND	ND
11 West Shore Road	3/28/05			NA	ND	ND	ND	ND	ND	ND
11 West Shore Road	5/23/05			26.6	ND	ND	ND	ND	ND	ND
12 West Shore Road	10/19/04			24.0	0.14	ND	0.092	NA	ND	0.12
12 West Shore Road	1/12/05			26.0	0.13 J	ND	0.088 J	NA	ND	0.12 J
12 West Shore Road	2/16/05			26.2	ND	ND	ND	ND	ND	ND
12 West Shore Road	2/16/05	L		NA	0.19 J	ND	ND	ND	0.26 J	0.15 J
12 West Shore Road	3/31/05			NA	ND	ND	ND	ND	ND	ND
12 West Shore Road	4/29/05			NA	0.13 J	ND	ND	ND	ND	0.14 J
12 West Shore Road	5/24/05			41.3	0.12 J	ND	ND	6 J	ND	0.14 J
12 West Shore Road	5/24/05	D		40.4	0.13 J	ND	ND	ND	ND	0.12 J
13 West Shore Road	10/19/04			26.0	0.14	ND	0.091	NA	ND	0.12
13 West Shore Road	10/19/04	D		25.0	0.14	ND	0.092	NA	ND	0.12
13 West Shore Road	1/14/05			29.0	0.18 J	ND	0.12 J	NA	ND	0.16 J
13 West Shore Road	2/16/05			29.3	ND	ND	ND	ND	ND	ND
13 West Shore Road	2/16/05	L		NA	0.18 J	ND	ND	ND	ND	0.11 J
13 West Shore Road	3/30/05			NA	0.3	0.2	0.2 J	ND	0.28 J	0.2
13 West Shore Road	4/29/05			NA	0.2	0.5	0.13 J	ND	ND	0.2
15 West Shore Road	10/19/04			23.0	ND	ND	ND	NA	ND	ND
15 West Shore Road	3/29/05			NA	ND	ND	ND	ND	ND	ND
15 West Shore Road	5/24/05			29.3	ND	ND	ND	ND	ND	ND

Notes:

HRL - Health Risk Limit
D - Duplicate
L - Split Sample
NA - Not Analyzed
ND - Not Detected
J - Estimated Result

TABLE 7.1

**MINNESOTA HEALTH RISK LIMITS (HRLs)
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>Chemical Name</i>	<i>HRL</i>
Chloroform	60 µg/L
1,1-Dichloroethane	70 µg/L
cis-1,2-Dichloroethylene	70 µg/L
Methylene chloride (Dichloromethane)	50 µg/L
Methyl ethyl ketone (MEK, 2-butanone)	4,000 µg/L
Vinyl chloride	0.2 µg/L

**SUMMARY OF ENFORCEABLE VINYL CHLORIDE STANDARDS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>State/Country</i>	<i>Vinyl Chloride Standard</i>	<i>Units</i>
Alabama	2	µg/L
Arkansas	2	µg/L
Australia	0.3	µg/L
California	0.5	µg/L
Canada	0.5 - 2	µg/L
Connecticut	2	µg/L
European Union	0.5	µg/L
Florida	1	µg/L
Georgia	2	µg/L
Illinois	2	µg/L
Indiana	2	µg/L
Iowa	2	µg/L
Kentucky	2	µg/L
Louisiana	2	µg/L
Maine	2	µg/L
Massachusetts	2	µg/L
Michigan	2	µg/L
Minnesota	0.2 - 2	µg/L
Mississippi	2	µg/L
Missouri	2	µg/L
New Hampshire	2	µg/L
New Jersey	2	µg/L
New Mexico	2	µg/L
New York State	2	µg/L

**SUMMARY OF ENFORCEABLE VINYL CHLORIDE STANDARDS
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

<i>State/Country</i>	<i>Vinyl Chloride Standard</i>	<i>Units</i>
North Carolina	2	µg/L
North Dakota	2	µg/L
Ohio	2	µg/L
Oklahoma	2	µg/L
Pennsylvania	2	µg/L
Rhode Island	2	µg/L
South Carolina	2	µg/L
South Dakota	2	µg/L
Tennessee	2	µg/L
Texas	2	µg/L
Vermont	2	µg/L
West Virginia	2	µg/L
Wisconsin	0.2	µg/L
World Health Organization	0.3	µg/L

Note:

Detailed information regarding the standards listed in this table can be found in Appendix F.