Bacterial near-shore results Summary

There were 19 samples taken for near-shore bacteria. These samples were taken to fill in areas on the lakes shoreline that had wide spaces between test sites. We used a method of grab samples by inverting a sterile bottle and inserting it into the water to approximately one half meter, turning the mouth upwards until full and placing the cap onto the bottle (never touching the rim, inside cap, or bottle interior). The samples were then iced and sent to the State lab in a cooler by over-night delivery.

The results from the lab show <10 per mil. on all sites for Fecal Strep; Fecal coli; and E. coli. As a non-limnologist I would say that it is good indication that the near-shore health of the lake is fairly good. That said, it would be foolish not to continue some effort to educate the property owners on the Best shore-line Management Practices and attention to their septic issues. The Sanitary District's board has sent each property owner material to make them aware of the issues.

Lake Minnesuing Sanitary District Bacterial Analysis July 27, 1998-9:00 AM

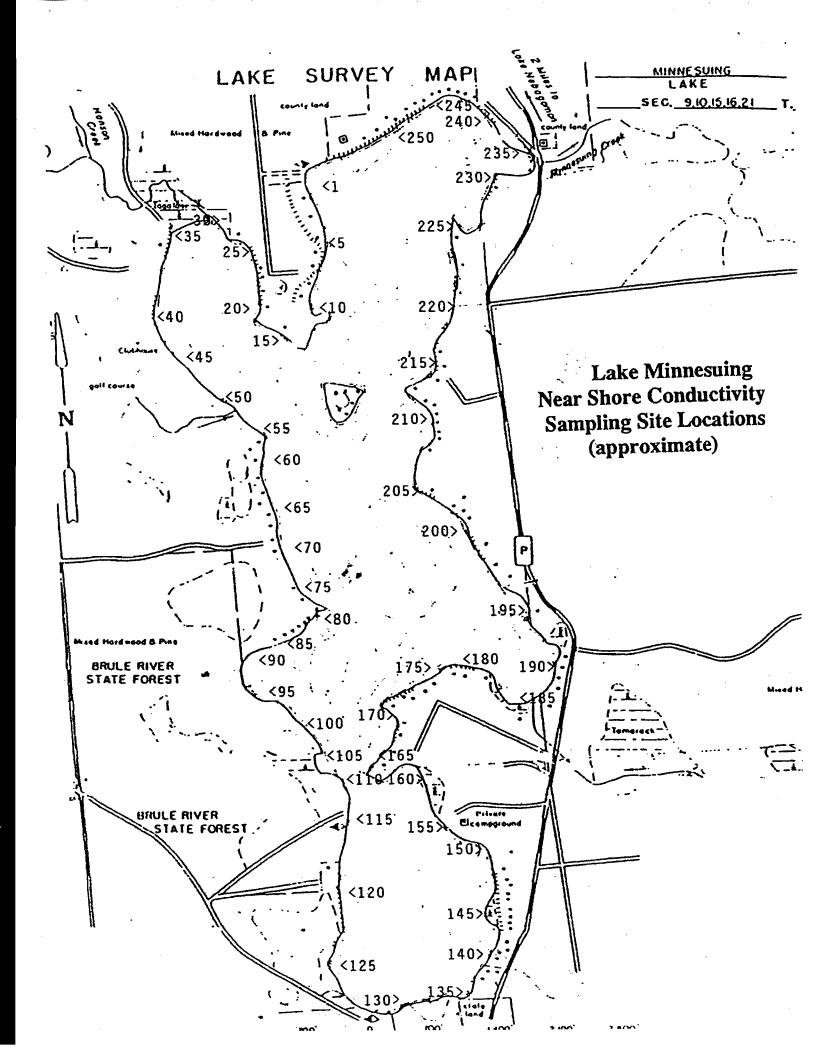
Grab Samples in approximately 2 (two) feet of water.

Sample # & Reference	MFFCC	Fecal Strep.	E- Coli.
#19 Smith's Bay	< 10	<10	<10
#20 W. Carlson	<10	<10	<10
#21 Cordt'S	<10	<10	<10
#22 Bergstrom	<10	<10	<10
#23 Edward's	<10	<10	<10
#24 Marlowe's	<10	<10	<10
#25 So. Shore	<10	<10	<10
#26 So. Shore	<10	<10	<10
#27 So. Shore	<10	<10	<10
#28 Olson Bay	<10	<10	<10
#29 Willis Bay	<10	<10	<10
#30 Sw Bay N. shore.	<10	<10	<10
#31 W. of Perthree	<10	<10	<10
#32W. Shore (stienke)	<10	<10	<10
#33 W. Shore Robinson	<10	<10	<10
#34 W. shore Giffen point	<10	<10	<10
#35 Hanson creek	<10	<10	<10
#36 Josephson's	<10	<10	<10
#37 G. Bergren	<10	<10	<10
#38 Old 1996 site #12	<10	<10	<10

Near shore conductivity tests Summary

The near shore conductivity tests were taken at locations that closely correlate to the August 4, 1996 tests. Those results are reported in the final limnology study prepared by C.J. Owen & Associates in 1997. This years' tests were taken using a YSI 85 meter and probe adjusted for temperature and conductance. The probe was fixed at a depth of 10 inches on a pontoon boat moving in two to three feet of water depth. Two hundred and fifty eight (258) sites were tested including the Island and 0ne deep-hole site at the north end of the lake. The tests were taken on October 10 and 11, 2000

The sample shows a fairly consistent reading around the main lake shoreline with elevated readings as you go through the narrows into the south-bay. The reading is highest at the south-east corner of the south-bay and needs to have some further investigation in the future.



Lake Minnesuing Sanitary District Near shore Conductivity tests October 10 & 11, 2000 Page One

Location	Conuctivity uS	Location	Conductivity uS	Location	Coductivity uS
#1 N46-28-709 W 91-44-770	107.9 uS	#30	109.2 uS	#58	108.8 uS
#2	108.0 uS	#31	109.6 uS	#59	108.7 uS
#3	107.7 uS	#32	109.3 uS	#60	108.6 uS
#4	108.0 uS	#33	109.7 uS	#61	108.4 uS
#5 Temp. 12 C	108.1 uS	#34	111.1 uS	#62	108.8 uS
#6	108.5 uS	#35	108.8 uS	#63	108.9 uS
#7 	108.4 uS	#36 46-28-612 W 91-45-140	108.7 uS	#64	108.7 uS
#8	108.6 uS	#37	108.6 uS	#65	108.6 uS
#9	107.0 uS	#38	108.9 uS	#66	. "
#10 46-28-473 W 91-44-770	107.2 uS	#39	109.0 uS	#67	u u
#11	109.0 uS	#40	109.0 uS	#68	108.2 uS
#12	108.8 uS	#41	109.5 uS	#69	
#13	108.7 uS	#42	109.9 uS	#70	108.5 uS
#14	108.8 uS			#71	"
#15 46-28-387 W91-44-840	109.0 uS	#43 46-28-471 W91-45-207	109.5 uS Plane ramp	#72	
#16	108.2 uS	#44	109.1 uS	#73	"
#17	109.0 uS	#45	109.4 uS	#74	*
#18 46-28-465 W91-44-969 Point	108.6	#46 South of Acres boat house	108.8 uS	#75	108.7 uS
#19	108.9 uS	#47	108.9 uS	#76	107.3 uS
#20	108.9 uS	#48 Temp. 11.2 C	108.8 uS	#77	106.7 uS
#21	109.0 uS	#49	108.7 uS	#78	107.5 uS
#22	108.9 uS	#50	109.5 uS	#79	108.4 uS
#23	108.9 uS	#51	109.0 uS	#80 46-28-919 W91-44-805 Temp. 12.0 C	108.6 uS
#24	109.8 uS	#52	109.0 uS	#81	108.4 uS
#25	109.4 uS	#53	108.9 uS	#82	108.3 uS
#26 Temp.13.2 C	109.1 uS	#54 Temp. 11.5 C	109.0 uS	#83	108.1 uS
#27	109.1 uS	#55	109.7 uS	#84	108.9 uS
#28	109.0 uS	#56 Creek	113.0 uS	#85	108.8 uS
#29	108.9 uS	#57 46-28-257 W91-44-944	108.6 uS	#86	109.1 uS

Lake Minnesuing Sanitary District Near shore Conductivity tests October 11 & 12, 2000 #2

Location	Conductivity uS	Location	Conductivity uS	Location	Conductivity uS
#87	1089 uS	#116	117.4 uS	#145	118.5 uS
#88	108.3 uS	#117	117.2 uS	#146	118.0 uS
#89	108.9 uS	#118	117.3 uS	#147	118.2 uS
#90	108.4 uS	#119	117.2 uS	#148	118.3 uS
#91	108.5 uS	#120	117.1 uS	#149	118.7 uS
#92	108.7 uS	#121	117.5 uS	#150	120.0 uS
#93	109.2 uS	#122	118.1 uS	#151 46-27-439 W 91-44-507	120.1 uS Temp 11.5 C
#94	109.0 uS	#123 Temp 10.1 C	117.8 uS	#152	118.0 uS
#95 46-27-782 W91-45-030	108.7 uS Temp.10.9 C	#124	118.6 uS	#153	118.1 uS
#96	108.7 uS	#125	118.0 uS	#154	118.1 uS
#97	108.9 uS	#126 9.9C	117.1 uS	#155	118.1 uS
#98	108.8 uS	#127	117.7 uS	#156	119.1 uS
#99	108.9 uS	#128 46-27-189 W 91-44-865	117.8 uS 9.6 C temp	#157	118.7 uS
#100	109.1 uS	#129	117.9 uS	#158	118.2 uS
#101	108.1 uS	#130 wet land So. bay creek	118.5 uS	#159	118.3 uS
#102	108.9 uS	#131	119.7 uS	#160	118.1 uS
#103	108.5 uS	#132	118.2 uS	#161	118.0 uS
#104	108.7 uS	#133	118.4 uS	#162	117.7 uS
#105 Narrows	109.0 uS	#134	118.2 uS	#163 46-27-595 W 91-44-784	116.6 uS Narrows point
#106 Narrows	105.9 uS	#135	118.6 uS	#164	111.7 uS
#107	104.9 uS	#136 46-27-207 w 91-44-541	· 118.3 uS	#165	109.5 uS
#108	104.8 uS	#137	121.0 uS	#166	109.1 uS
#109	109.8 uS	#138	118.3 uS	#167	109.2 uS
#110 *****	112.2 uS	#139	118.7 uS	#168	109.0 uS
#111	117.7 uS	#140	119.0 uS	#169	108.9 uS
#112	117.6 uS	#141	118.6 uS	#170 46-27-710 W 91-44-710	108.9 uS Temp 12 .0 C
#113	117.3 uS	#142	118.5 uS	#171 10/11/00	109.0 uS
#114	117.9 uS	#143	118.6 uS	#172	108.9 uS
#115 46-27-189 W 91-44-865	118.9 uS	#144	118.6 uS	#173	108.9 uS

Lake Minnesuing Sanitary District Near shore Conductivity tests October 10 &11, 2000 Page three

Location	Conductivity uS	Location	Conductivity uS	Location	Conductivity uS
#174	109.0 uS	#203	108.9 uS	#232	108.9 uS
#175	108.9 uS	#204	108.9 uS	#233 ·	108.5 uS
#176	109.4 uS	#205 N46-28-135 W91-44-580	109.4 uS Temp 11 C	#235 N46-28-687 W91-44-187	109.0 uS Temp 12 C Minn. creek
#177	108.8 uS	#206	110.0 uS	#234	108.4 uS
#178	109.0 uS	#207	109.2 uS	#236	108.0 uS
#179	109.1 uS	#208	108.7 uS	#237	108.2 uS
#180	109.2 uS	#209	108.6 uS	#238	108.4 uS
#181	109.9 uS	#210 N46-28-306 W91-44-577	108.6 uS Temp 11.4 C	#240 N46-28-836 W91-44-389	108.2 uS Temp 12.1 C NE corner
#182	108.8 uS	#211	108.6 uS	#239	108.1 uS
#183	109.0 uS	#212	108.2 uS	#241	108.1 uS
#184	109.0 uS	#213	108.2 uS	#242	108.0 uS
#185- N46-27-730 W91-44-351	108.8 uS Temp 11 C	#214	108.0 uS	#243	108.1 uS
#186	109.0 uS	#215	108.0 uS	#244	108.0 uS
#187	108.7 uS	#216	108.1 uS	#245	108.1 uS
#188	108.8 uS	#217	108.2 uS	#246	108.1 uS
#189	109.2 uS	#218	108.3 uS	#247	108.1 uS
#190	111.4 uS	#219	108.2 uS	#248	108.0 uS
#191	109.4 µS	#220	108.2 uS	#249	108.4 uS
#192	109.1 uS	#221	108.2 uS	#250	108.4 uS
#193	109.1 uS	#222	108.2 uS		
#194	109.1 uS	#223	108.3 uS	Mid Lake N.	108.2 uS
#195	108.8 uS	#224	108.2 uS		
#196	109.0 uS	#225	108.2 uS	Island	Boat house
#197	108.9 uS	#226 N46-28-624 W91-44-406	108.9 uS Temp 11.2 C	#1 N46-28-250 W 91-44-753 #2	108.2 uS 108.4 uS
#198	108.9 uS	#227	107.7 uS	#3	108.4 uS
#199	108.9 uS	#228	108.0 uS	#4 46-28-250 N 91-44-753	108.7 uS So. tip 11.5C
#200	109.0 uS	#229	108.0 uS	#5	108.6 uS
#201	108.9 uS	#230	108.3 uS	#6 W. side	108.7 uS
#202	108.9 uS	#231	108.2 uS	#7 N.side	108.6 uS

<u>Dissolved Oxygen, Temperature, Conductivity</u> <u>Summary</u>

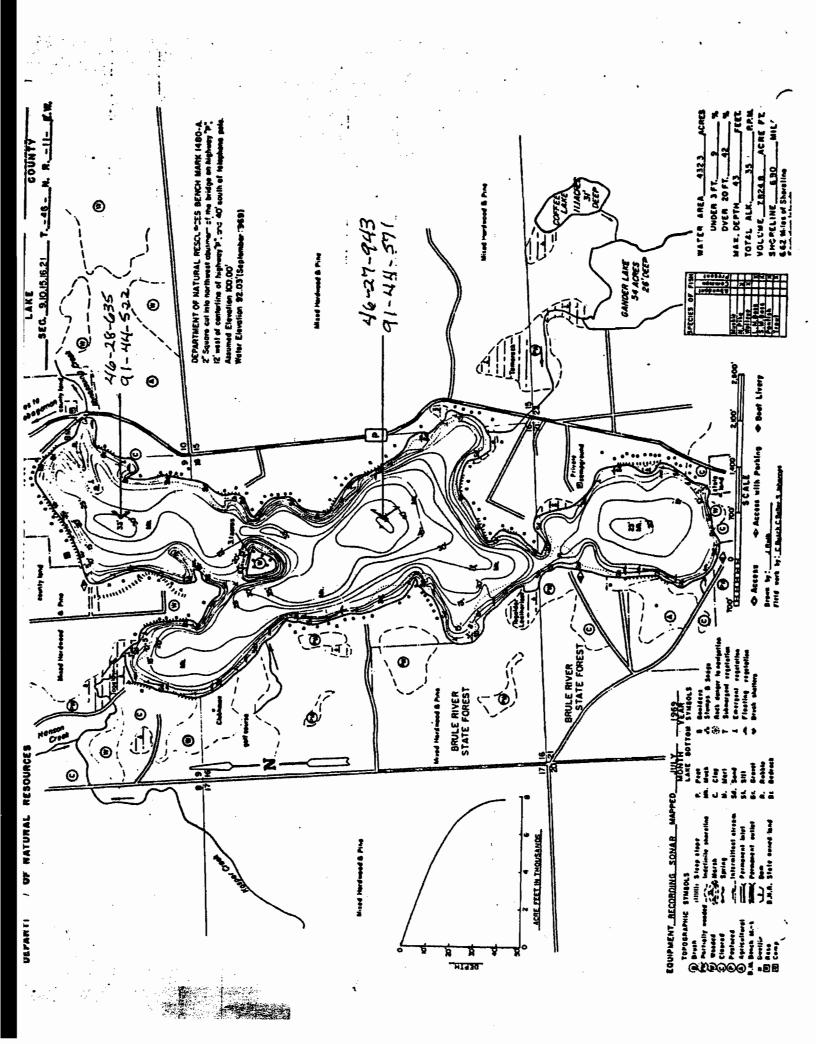
The Dissolved Oxygen, Temperature, and Conductivity Tests were all done over a three year period of time. The YSI 85 meter with 50-foot cable and compensating probe were used. Two sites were chosen at deep holes on the lake. The south site GPS N46-27-943 and W91-44-571 and the north site at GPS N46-28-635 and W91-44-522. Secchi depth readings were taken at each location except during iced over periods.

The D.O. readings indicate an average lake spring and fall turnover and a stratification of the D.O. over the summer as the temperature of the water increases. The disturbing indicator is the narrow oxygen figures at the less than 5-meter range. Most fish and especially walleye, northern, and bass need higher than 5 parts per mil. of oxygen to be in a healthy state. The fishing pressure is then always in the shallow water range during the mid summer months. The spring, fall and winter months have a more consistent oxygen level in the water column.

As for the conductivity there seems be a fairly uniform reading at the surface to moderate depths and the an increase as you near the bottom range. At or near bottom you find cooler temperatures and more particulates to add to the ability of a current to conduct. All this is not a great deal different from the 1996 and 1997 study done by C.J. Owen & Associates.

The temperature tests show a rather quick and good mix in the water column and indicates the lakes ability to turn over during spring and fall changes.

The lake is more than likely in a mid eutrophic state and needs some attention to it's shore-line management and probably a water-shed management program to limit it's further decline. The continued use of the equipment purchased with the DNR Grant will be a great tool for further information gathering. We need to set a schedule for future testing and recording lake data.



Temperature, Dissolved Oxygen, Conductivity Profile March 2, 1998

Deep hole GPS 46-27-943 91-44-571 Secchi depth:

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface		:	
1 meter	2.4 C	11.50 mg/l	78.2 uS
2 meters	3.3 C	10.53 mg/l	104.0 uS
3 meters	3.6 C	9.65 mg/l	105.8 uS
4 meters	3.8 C	8.6 mg/l	106.8 uS
5 meters	3.8 C	7.94 mg/l	108.1 uS
6 meters	4.0 C	6.96 mg/l	111.6 uS
7 meters	4.1 C	6.45 mg/l	112.9 uS
8 meters	4.1 C	6.2 mg/l	115.5 uS
9 meters	4.2 C	5.7 mg/l	118.3 uS
10 meters	4.4 C	2.5 mg/l	122.3 uS
11 meters	4.6 C	1.25 mg/i	126.7 uS
12 meters	1.		
13 meters			

Deep hole North GPS 46-28-635 91-44-522

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	3.3C	9.5 mg/l	61.7 uS
2 meters	3.5 C	8.46 mg/l	107.1 uS
3 meters	3.7 C	8.46 mg/l	107.1 uS
4 meters	3.9 C	8.45 mg/l	107.0 uS
5 meters	4.1 C	6.42 mg/l	108.0 uS
6 meters	4.4 C	5.95 mg/l	112.0 uS
7 meters	4.5 C	5.30 mg/l	115.5 uS
8 meters	4.6 C	4.60 mg/l	121.4 uS
9 meters			

Temperature, Dissolved Oxygen, Conductivity Profile March 25, 1998

Deep hole GPS 46-27-943 91-44-571 Secchi depth:

Depth	Temperature	Dissolved Oxy.	Conductivity ·
Surface		:	
1 meter	3.3 C	11.33 mg/l	103.1 uS
2 meters	3.5 C	9.3 mg/l	105.3 uS
3 meters	3.8 C	8.25 mg/l	106.6 uS
4 meters	3.7 C	7.9 mg/l	110.7 uS
5 meters	3.6 C	8.20 mg/l	113.3 uS
6 meters	3.8 C	7.72 mg/l	113.6 uS
7 meters	3.9 C	7.31 mg/l	115.3 uS
8 meters	4.0 C	6.5 mg/l	118.2 uS
9 meters	4.1 C	4.55 mg/l	121.0 uS
10 meters	4.3 C	2.55 mg/l	126.0 uS
11 meters	4.6 C	.10 mg/l	133.2uS
12 meters			
13 meters			

Deep hole North GPS 46-28-635 91-44-522

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	3.0 C	13.25 mg/l	97.3 uS
2 meters	3.5 C	10.65 mg/l	106.7 uS
3 meters	3.9 C	9.43 mgl	107.3 uS
4 meters	4.1 C	7.82 mg/l	109.3 uS
5 meters	4.3 C	6.99 mg/l	112.1 uS
6 meters	4.3 C	6.51 mg/l	115.4 uS
7 meters	4.4 C	6.17 mg/l	118.0 uS
8 meters	4.7 C	mg/l	139.2 uS
9 meters			

Temperature, Dissolved Oxygen, Conductivity Profile April 19, 1998

Deep hole GPS 46-27-943

Secchi depth:6.25 ft

South

91-44-571

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface		:	
1 meter	8.5 C	12.15 mg/l	94.3 uS
2 meters	8.3 C	12.19 mg/l	94.4 uS
3 meters	8.0 C	12.8 mg/l	94.5 uS
4 meters	7.9 C	11.98 mg/l	94.7 uS
5 meters	7.7 C	11.68 mg/l	94.9 uS
6 meters	7.4 C	11.30 mg/l	94.9 uS
7 meters	7.2 C	11.12 mg/l	94.5 uS
8 meters	7.2 C	11.15 mg/l	94.5 uS
9 meters	7.2 C	11.08 mg/l	94.6 uS
10 meters	7.2 C	10.97 mg/l	94.6 uS
11 meters	7.2 C	10.85 mg/I	93.7 uS
12 meters			
13 meters			

Deep hole North GPS 46-28-635 91-44-522 Secchi Depth 6.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	8.2C	12.40 mg/l	94.7 uS
2 meters	7.5 C	12.05 mg/l	95.2 uS
3 meters	7.4 C	9.90 mg/l	95.3 uS
4 meters	7.3 C	10.19 mg/l	95.6 uS
5 meters	7.3 C	9.03 mg/l	95.8 uS
6 meters	7.2 C	9.20 mg/l	95.9 uS
7 meters	7.2 C	8.78 mg/l	95.9 uS
8 meters	7.1 C	8.72 mg/l	95.9 uS
9 meters	7.0 C	8.28 mg/l	96.2 uS

Temperature, Dissolved Oxygen, Conductivity Profile May 20, 1998

Deep hole GPS 46-27-943 South

91-44-571

Secchi depth:11.25 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface		:	
1 meter	19.8 C	8.30 mg/l	100.1 uS
2 meters	19.5 C	8.30 mg/l	100.1 uS
3 meters	19.1 C	7.80 mg/l	94.9 uS
4 meters	18.3 C	7.75 mg/l	99.9 uS
5 meters	15.9 C	6.50 mg/l	98.9 uS
6 meters	11.7 C	5.6 mg/l	97.8 uS
7 meters	10.2 C	5.40 mg/l	97.7 uS
8 meters	9,3 C	5.34 mg/l	97.4 uS
9 meters	9.1 C	5.48 mg/l	97.1 uS
10 meters	8.9 C	4.71 mg/l	97.1 uS
11 meters	8.7 C	3.67 mg/l	97.8 uS
12 meters	8.4 C	3.25 mgl	98.0 uS
13 meters		•	

Deep hole North GPS 46-28-635 91-44-522

Secchi Depth 10.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	19.8 C	8.0 mg/l	99.9 uS
2 meters	19.3 C	7.50 mg/l	99.8 uS
3 meters	18.6 C	7.15 mg/l	99.6 uS
4 meters	17.8 C	7.10 mg/l	99.2 uS
5 meters	15.8 C	7.10 mg/l	98.5 uS
6 meters	12.4 C	5.75 mg/l	98.4 uS
7 meters	10.0 C	4.30 mg/l	98.0 uS
8 meters	9.2 C	4.50 mg/l	98.5 uS
9 meters	8.9 C	2.37 mg/l	99.6 uS

Temperature, Dissolved Oxygen, Conductivity Profile June 26, 1998

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 9 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	22.7 C	9.0 mg/l	100.6 uS
2 meters	22.2 C	8.8 mg/l	100.8 uS
3 meters	19.9 C	8.3 mg/l	100.5 uS
4 meters	18.5 C	7.20 mg/l	100.7 uS
5 meters	15.9 C	4.85 mg/l	101.3 uS
6 meters	14.3 C	2.02 mg/l	102.4 uS
7 meters	12.5 C	0.18 mg/l	103.1 uS
8 meters	10.9 C	0.03 mg/l	104.0 uS
9 meters	10.1 C	0.00 mg/l	104.7 uS
10 meters	9.3 C	0.00 mg/l	106.8 uS
11 meters	9.1 C	0.00 mg/l	109.1 uS
12 meters			
13 meters			

Deep hole North GPS 46-28-635 91-44-522 Secchi depth: 8.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	22.7 C	8.8 mg/l	100.8 uS
2 meters	20.7 C	7.9 mg/l	100.3 uS
3 meters	17.3 C	6.7 mg/l	101.4 uS
4 meters	15.7 C	4.7 mg/l	101.3 uS
5 meters	14.5 C	4.2 mg/l	101.6 uS
6 meters	14.1C	2.4 mg/l	104.5 uS
7 meters	12.4 C	0.07 mg/l	104.5 uS
8 meters	10.9 C	0.00 mg/l	112.3 uS
9 meters	10.2 C	0.00 mg/l	132.9 uS

Temperature, Dissolved Oxygen, Conductivity Profile July 9, 1998

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 9.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
l meter	23.5 C	8.3 mg/l	102.5 uS
2 meters	22.5 C	8.2 mg/l	102.1 uS
3 meters	22.1 C	7.8 mg/l	102.1 uS
4 meters	19.7 C	4.7 mg/l	102.1 uS
5 meters	16.3 C	2.1 mg/l	102.1 uS
6 meters	14.0 C	0.0 mg/l	103.2 uS
7 meters	12.2 C	0.0 mg/l	107.0 uS
8 meters	11.0 C	o.0 mg/l	107.4 uS
9 meters	10.4 C	0.0 mg/l	107.2 uS
10 meters	9.7 C	0.0 mg/l	112.4 uS
11 meters	9.4 C	0.0 mg/l	123.2 uS
12 meters	9.2 C	0.0 mg/l	126.0 uS
13 meters			

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 9.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	23.3 C	8.4 mg/l	102.6 uS
2 meters	22.9 C	8.0 mg/l	102.3 uS
3 meters	22.0 C	7.7 mg/l	101.2 uS
4 meters	19.5 C	4.30 mg/l	100.9 uS
5 meters	15.5 C	1.42 mg/l	102.0 uS
6 meters	13.5 C	0.0 mg/l	103.8 uS
7 meters	12.1 C	0	111.2 uS
8 meters	11.0 C	0	125.8 uS
9 meters	10.1 C	0 '.	148.4 uS

Temperature, Dissolved Oxygen, Conductivity Profile July 25, 1998

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 8 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	24.0 C	6.9 mg/l	105.7 uS
2 meters	23.5 C	7.3 mg/l	105.6 uS
3 meters	23.1 C	7.5 mg/l	105.5 uS
4 meters	22.8 C	7.05 mg/l	105.5 uS
5 meters	16.5 C	0.10 mg/l	106.2 uS
6 meters	13.7 C	0.0 mg/l	111.2 uS
7 meters	12.3 C	0.02 mg/l	115.6 uS
8 meters	11.7 C	0	116.3 uS
9 meters	11.0 C	0	117.3 uS
10 meters	10.2 C	0	121.3 uS
11 meters	9.7 C	0	127.1 uS
12 meters	9.7 C	0	134.7 uS
13 meters			

Deep hole North GPS 46-28-635 91-44-522 Secchi depth 8.75 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	24.1 C	7.4 mg/l	105.6 uS
2 meters	23.4 C	7.3 mg/l	105.3 uS
3 meters	23.2 C	6.3 mg/l	105.2 uS
4 meters	22.5 C	5.8 mg/l	104.9 uS
5 meters	17.5 C	0.0 mg/l	103.9 uS
6 meters	14.0 C	0	110.0 uS
7 meters	12.5 C	0	115.6 uS
8 meters	11.0 C	0	139.5 uS
9 meters	10.7 C	. 0	149.1 uS

Temperature, Dissolved Oxygen, Conductivity Profile Aug. 30, 1998

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 6.75 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	23.2 C	7.8 mg/l	109.6 uS
2 meters	23.0 C	8.1 mg/l	109.5 uS
3 meters	22.6 C	7.8 mg/l	109.5 uS
4 meters	22.4 C	7.3 mg/l	109.6 uS
5 meters	21.7 C	4.6 mg/l	109.8 uS
6 meters	16.8 C	0.0 mg/l	123.2 uS
7 meters	13.4 C	0	127.9 uS
8 meters	11.6 C	0	128.7 uS
9 meters	10.9 C	0	133.2 uS
10 meters	10.0 C	0	141.2 uS
11 meters	9.8 C	0	149.2 uS
12 meters	10.2 C	0	(>) 149.2 uS
13 meters			

Deep hole North GPS 46-28-635 91-44-522 Secchi depth 7 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			<u> </u>
1 meter	23.4 C	7.42 mg/l	109.9 uS
2 meters	22.7 C	7.38 mg/l	109.4 uS
3 meters	22.6 C	7.5 mg/l	109.4 uS
4 meters	22.3 C	6.6 mg/l	109.6 uS
5 meters	20.6 C	2.55 mg/l	109.3 uS
6 meters	16.5 C	.01 mg/l	123.2 uS
7 meters	13.4 C	0	130.5 uS
8 meters	12.0 C	0	141.2 uS
9 meters	12.1 C	0	252.0 uS

Temperature, Dissolved Oxygen, Conductivity Profile Oct. 10, 1998

Deep hole GPS 46-27-943

91-44-571

Secchi depth: 5.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	14.3 C	7.7 mg/l	112.1 uS
2 meters	14.0 C	6.9 mg/l	112.0 uS
3 meters	13.2 C	7.38 mg/l	112.0 uS
4 meters	13.1 C	6.9 mg/l	112.1 uS
5 meters	13.1 C	6.8 mg/l	112.1 uS
6 meters	13.1 C	6.1 mg/l	112.2 uS
7 meters	13.0 C	4.96 mg/l	113.3 uS
8 meters	13.0 C	5.7 mg/i	113.5 uS
9 meters	12.8 C	4.4 mg/l	114.4 uS
10 meters	12.6 C	3.1 mg/l	118.5 uS
11 meters	10.1 C	0.0 mg/l	167.0 uS
12 meters	9.9 C	0.05 mg/l	193.2 uS
13 meters			

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 5.25 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	14.4C	7.9 mg/l	112.0 uS
2 meters	14.3 C	7.15 mg/l	111.7 uS
3 meters	13.8 C	7.7 mg/l	111.8 uS
4 meters	13.4 C	7.0 mg/l	111.9 uS
5 meters	13,3 C	7.2 mg/l	111.9 uS
6 meters	13.3 C	5.95 mg/l	111.7 uS
7 meters	13.3 C	5.6 mg/l	111.9 uS
8 meters	13.3 C	6.1 mg/l	111.8 uS
9 meters	13.3 C	5.9 mg/l	112.5 uS

Temperature, Dissolved Oxygen, Conductivity Profile Oct. 27, 1998

Deep hole GPS 46-27-943

91-44-571

Secchi depth: 7.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface			
1 meter	11.5 C	7.9 mg/l	111.0 uS
2 meters	11.1 C	8.09 mg/l	· 111.0 uS
3 meters	10.8 C	7.77 mg/l	111.1 uS
4 meters	10.8 C	7.96 mg/l	111.1 uS
5 meters	10.8 C	7.90 mg/l	111.2 uS
6 meters	10.8 C	7.65 mg/l	111.1 uS
7 meters	10.8 C	7.70 mg/l	111.2 uS
8 meters	10.7 C	7.70 mg/l	111.3 uS
9 meters	10.7 C	7.30 mg/l	111.5 uS
10 meters	10.7 C	7.12 mg/l	111.6 uS
11 meters	10.7 C	7.11 mg/l	111.7 uS
12 meters	•		
13 meters			

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 7 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	11.7 C		
1 meter	11.3 C	8.52 mg/l	110.5 uS
2 meters	10.9 C	8.0 mg/l	110.7 uS
3 meters	10.9 C	8.05 mg/l	110.7 uS
4 meters	10.9 C	8.08 mg/l	110.7 uS
5 meters	10.8 C	7.67 mg/l	110.7 uS
6 meters	10.8 C	7.75 mg/l	110.8 uS
7 meters	10.8 C	7.6 mg/l	111.0 uS
8 meters	10.8 C	7.4 mg/l	111.1 uS
9 meters	10.8 C	7.5 mg/l	111.2 uS

Temperature, Dissolved Oxygen, Conductivity Profile June 25, 1999

Deep hole GPS 46-27-943

91-44-571

Secchi depth: 7 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	24.0C		
1 meter	22.7 C	6.73 mg/l	94.7 uS
2 meters	21.7 C	5.70 mg/l	92.1 uS
3 meters	20.8 C	5.32 mg/l	90.4 uS
4 meters	20.1 C	4.53 mg/l	87.3 uS
5 meters	18.4 C	3,54 mg/l	100.1 uS
6 meters	14.4 C	1.80 mg/l	110.2 uS
7 meters	12.7 C	0.97 mg/l	112.3 uS
8 meters	11.4 C	0.23 mg/l	114.8 uS
9 meters	10.8 C	0.19 mg/l	114.7 uS
10 meters	10.3 C	0.03 mg/l	114.3 uS
11 meters	9.6 C	0.0 mg/l	115.9 uS
12 meters	8.9 C	0.0 mg/l	126.5 uS
13 meters	8.7 C	0.0 mg/l	184.0 uS

Deep hole North GPS 46-28-635

Water levels are 18" to 24" high.

91-44-522

Secchi depth 7.75 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	24.9 C		
1 meter	23,2 C	6.89 mg/l	97.9 uS
2 meters	22.6 C	6.25 mg/l	98.1 uS
3 meters	21.0 C	6.10 mg/l	97.3 uS
4 meters	20.1 C	5.53 mg/l	95.7 uS
5 meters	18.2 C	4.03 mg/l	100.5 uS
6 meters	14.8 C	1.95 mg/l	109.5 uS
7 meters	12.3 C	0.55 mg/l	115.0 uS
8 meters	11.1 C	0.05 mg/l	119.8 uS
9 meters	10.2 C	0.03 mg/l	135.5 uS

Temperature, Dissolved Oxygen, Conductivity Profile Sept. 11, 1999

Deep hole GPS 46-27-943

91-44-571

Secchi depth: 4.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	18.6 C		
1 meter	18.4 C	5.60 mg/l	80.6 uS
2 meters	18.2 C	5.31 mg/l	80.6 uS
3 meters	18.2 C	5 25 mg/l	80.5 uS
4 meters	18.2 C	4.82 mg/l	80.6 uS
5 meters	18.1 C	4.91 mg/l	80.6 uS
6 meters	17.6 C	4.43 mg/l	81.7 uS
7 meters	14.8 C	0.13 mg/l	123.6 uS
8 meters	13.2 C	0.03 mg/l	135.6 uS
9 meters	12.2 C	0	138 8 uS
10 meters	11.9 C	0	142.0 uS
11 meters	11.3 C	0	147.5 uS
12 meters	10.8 C	0	154.8 uS
13 meters	10.6 C	0	215.0 uS

Deep hole North GPS 46-28-635

91-44-522

Secchi depth 4 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	19.6 C		
1 meter	18.6 C	5.10 mg/l	84.1 uS
2 meters	18.5 C	4.89 mg/l	81.2 uS
3 meters	18.5 C	5.16 mg/l	81.0 uS
4 meters	18.4 C	4.68 mg/l	80.9 uS
5 meters	18.4 C	5.45 mg/l	82.0 uS
6 meters	17.4 C	2.51 mg/l	89.1 uS
7 meters	14.9 C	0.15 mg/l	122.1 uS
8 meters	13.0 C	0.02 mg/l	144.8 uS
9 meters	12.2 C	.00 mg/l	160.0 uS

Temperature, Dissolved Oxygen, Conductivity Profile April 25, 2000

Deep hole GPS 46-27-943

91-44-571

Secchi depth: 5.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	9.9 C	11.6 mg/l	96.5 uS
1 meter	8.7 C	10.7 mg/l	95.1 uS
2 meters	8.3 C	10.6 mg/l	95.6 uS
3 meters	7.2 C	10.1 mg/l	95.5 uS
4 meters	6.8 C	10.3 mg/l	94.4 uS
5 meters	6.2 C	10.3 mg/l	95.6 uS
6 meters	6.1 C	10.4 mg/l	95.6 uS
7 meters	5.9 C	10.5 mg.1	95.7 uS
8 meters	5.5 C	10.4 mg/l	95.7 uS
9 meters	5.4 C	10.1 mg/l	95.8 uS
10 meters	5.2 C	10.3 mg/l	95.9 uS
11 meters	5.2 C	10.05 mg/l	95.9 uS
12 meters	5.2 C	10.0 mg/l	95.8 uS
13 meters			

Deep hole North GPS 46-28-635

91-44-522

Secchi depth 5.3 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	9.5 C	10.7 mg/l	95.0 uS
1 meter	8.3 C	10.4 mg/l	94.8 uS
2 meters	7.6 C	10.7 mg/l	94.9 uS
3 meters	7.3 C	9.8 mg/l	95.2 uS
4 meters	7.1 C	9.13 mg/l	95.3 uS
5 meters	6.8 C	8.6 mg/l	95.4 uS
6 meters	5.9 C	9.8 mg/l	95.8 uS
7 meters	5.7 C	9.4 mg/l	95.9 uS
8 meters	5.6 C	9.9 mg/l	95.8 uS
9 meters	5.4 C	9.9 mg/l	95.7 uS

Temperature, Dissolved Oxygen, Conductivity Profile June 25, 2000

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 6.25 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	21.7 C		
1 meter	21.0 C	8.02 mg/l	98.2 uS
2 meters	20.0 C	7.64 mg/l	98.2 uS
3 meters	18.4 C	7.04 mg/l	98.0 uS
4 meters	17.6 C	6.55 mg/l	97.4 uS
5 meters	16.6 C	6.40 mg/l	98,2 uS
6 meters	13.8 C	4.30 mg/l	100.5 uS
7 meters	11.8 C	3.45 mg/l	100.5 uS
8 meters	10.8 C	2.45 mg/l	101.1 uS
9 meters	10.3 C	2.37 mg/l	101.5 uS
10 meters	9.8 C	1.79 mg/l	102 3 uS
11 meters	9.1 C	1.08 mg/l	103.8 uS
12 meters	8.8 C	0.35 mg/l	105.1 uS
13 meters	8.5 C	0.0 mg/l	155.0 uS

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 6.25 ft.

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	21.0 C		
1 meter	20.7 C	7.80 mg/l	97.8 uS
2 meters	19.4 C	7,77 mg/l	97.9 uS
3 meters	18.0 C	7.51 mg/l	98.0 uS
4 meters	17.5 C	6,91 mg/l	98.2 uS
5 meters	16.2 C	6.04 mg/l	98.6 uS
6 meters	13.5 C	4.24 mg/l	100.3 uS
7 meters	11.9 C	2.88 mg/l	100.6 uS
8 meters	10.5 C	1.35 mg/l	105.3 uS
9 meters	9.7 C	0.0 mg/l	112.6 uS

Temperature, Dissolved Oxygen, Conductivity Profile July 11, 2000

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 6.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	23.6 C	8.57 mg/l	99.5 uS
1 meter	23.7 C	8.42 mg/l	99.6 uS
2 meters	22.7 C	8.53 mg/l	98.9 uS
3 meters	20.7 C	7.32 mg/l	99.3 uS
4 meters	19.2 C	5.91 mg/l	100.4 uS
5 meters	16.9 C	3.65 mg/l	100.3 uS
6 meters	14.3 C	2.26 mg/l	101.6 uS
7 meters	12.7 C	1.38 mg/l	103.3 uS
8 meters	11.2 C	0.78 mg/l	105.1 uS
9 meters	10.7 C	0.65 mg/l	104.9 uS
10 meters	9.9 C	0.25 mg/l	106.8 uS
11 meters	9.6 C	0.0 mg/l	108.3 uS
12 meters	9.6 C	0.0 mg/l	108.2 uS
13 meters	9.3 C	0.0 mg/l	111.5 uS -

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 7 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	22.7 C	8.50 mg/l	99.0 uS
1 meter	22.0 C	8.20 mg/l	98.9 uS
2 meters	21.9 C	8.07 mgl	99.1 uS
3 meters	21.5 C	7.80 mg/l	99.3 uS
4 meters	20.1 C	6.80 mg/l	99.6 uS
5 meters	17.3 C	3.88 mg/l	100.0 uS
6 meters	14.4 C	2.46 mg/l	101.4 uS
7 meters	12.2 C	0.99 mg/l	105.0 uS
8 meters	10.9 C	0.0 mg/l	111.1 uS
9 meters	10.2 C	0.0 mg/l	125.6 uS

Temperature, Dissolved Oxygen, Conductivity Profile July 27, 2000

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 7 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	22.2 C	7.42 mg/l	99.9 uS
1 meter	22.2 C	7.47 mg/l	100.5 uS
2 meters	22.2 C	7.43 mg/l	100.6 uS
3 meters	22.1 C	7.44 mg/l	100.6 uS
4 meters	21.5 C	6.41 mg/l	101.1 uS
5 meters	19.1 C	3.91 mg/l	102.3 uS
6 meters	14.7 C	0.04 mg/l	104 8 uS
7 meters	12.5 C	0.0 mg/l	108.9 uS
8 meters	11.3 C	0	109.1 uS
9 meters	10.7 C	0	109.6 uS
10 meters	10.1 C	0	111.9 uS
11 meters	9.6 C	0	118.8 uS
12 meters	9.5 C	0	125.5 uS
13 meters	9.4 C	0	128.0 uS

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 7 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	22.0C	7.38 mg/l	100.4 uS
1 meter	22.1 C	7.43 mg/l	100.3 uS
2 meters	21.9 C	7.10 mg/l	100.6 uS
3 meters	21.7 C	6.82 mg/l	100.6 uS
4 meters	20.7 C	5.15 mg/l	101.3 u S
5 meters	17.3 C	0.57 mg/l	103.4 uS
6 meters	13.9 C	0	106.6 uS
7 meters	12.1 C	0	110.6 uS
8 meters	11.1 C	0	125.9 uS
9 meters	10.4 C	0	144.6 uS

Temperature, Dissolved Oxygen, Conductivity Profile Aug.29, 2000

Deep hole GPS 46-27-943

91-44-571

Secchi depth: 8.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	21.8 C	7.39 mg/l	103.1 uS
1 meter	21.6 C	7.20 mg/l	103 0 uS
2 meters	21.1 C	7.53 mg/l	102 8 uS
3 meters	21.0 C	7.40 mg/l	102.9 uS
4 meters	20.8 C	7.02 mg/l	103.0 uS
5 meters	20.4 C	6.58 mg/l	103.1 uS
6 meters	17.0 C	0.15 mg/l	110.8 uS
7 meters	13.6 C	0	121,9 uS
8 meters	11.9 C	0	127.9 uS
9 meters	11.3 C	0	128.7 uS
10 meters	10.7 C	0	130.7 uS
11 meters	10.2 C	0	136.3 uS
12 meters	10.1 C	0	138.5 uS
13 meters	9.9 C	0	265.5 uS

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 8.5 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	22.4 C	7.37 mg/l	102.4 uS
1 meter	22.1 C	8.15 mg/l	102.7 Us
2 meters	21.7 C	7.98 mg/l	103.0 uS
3 meters	21.6 C	7.90 mg/l	103.0 uS
4 meters	20.7 C	5.81 mg/l	102.9 uS
5 meters	19.3 C	3.85 mg/l	104.3 uS
6 meters	15.9 C	0.04 mg/l	119.1 uS
7 meters	13.3 C	0	123.1 uS
8 meters	11.6 C	0	144.0 uS
9 meters	10.9 C	0 .	160.0 uS

Temperature, Dissolved Oxygen, Conductivity Profile Oct. 16, 2000

Deep hole GPS 46-27-943 91-44-571 Secchi depth: 5.75 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	11.9 C	9.50 mg/l	108.1 uS
1 meter	11.4 C	9.59 mg/l	108.2 uS
2 meters	11.3 C	9.47 mg/l	· 108.3 uS
3 meters	11.3 C	9.42 mg/l	108.3 uS
4 meters	11.3 C	9.34 mg/l	108.3 uS
5 meters	11.2 C	9.24 mg/l	108.5 uS
6 meters	11.2 C	8.97 mg/l	108.8 uS
7 meters	11.0 C	8.11 mg/l	109.2 uS
8 meters	10.8 C	8.16 mg/l	109.3 uS
9 meters	10.8 C	8.20 mg/l	109.2 uS
10 meters	10.7 C	7.96 mg/l	109.2 uS
11 meters	10.7 C	7.54 mg/l	109.6 uS
12 meters	10.6 C	6.64 mg/l	111.2 uS
13 meters	10.4 C	1.40 mg/l	119.2 uS

Deep hole North GPS 46-28-635

91-44-522

Secchi depth: 5.75

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	11.6 C	8.66 mg/l	108.1 uS
1 meter	11.5 C	9.43 mg/l	108.4 uS
2 meters	11.2 C	9.17 mg/l	108 2 uS
3 meters	11.2 C	9.13 mg/l	108.4 uS
4 meters	11.1 C	9.01 mg/l	108.4 uS
5 meters	11.1 C	9.01 mg/l	108.4 uS
6 meters	11.1 C	8.96 mg/l	108.4 uS
7 meters	11.0 C	8.75 mg/l	109.1 uS
8 meters	11.0 C	8.42 mg/l	109.2 uS
9 meters	11.0 C	8.44 mg/l	109.2 uS

Temperature, Dissolved Oxygen, Conductivity Profile Oct. 31, 2000

Deep hole GPS 46-27-943

91-44-571

Secchi depth: 6 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	11.4 C	9.25 mg/l	108.5 uS
1 meter	11.1 C	9.10 mg/l	108.6 uS
2 meters	10.9 C	9.13 mg/l	108.8 uS
3 meters	10.8 C	9.07 mg/l	108.9 uS
4 meters	10.8 C	9.10 mg/l	109.0 uS
5 meters	10.8 C	8.97 mg/l	109.0 uS
6 meters	10.7 C	8.97 mg/l	109.2 uS
7 meters	10.7 C	8.75 mg/l	109.3 uS
8 meters	10.7 C	8.79 mg/l	109.4 uS
9 meters	10.6 C	8.77 mg/l	109.5 uS
10 meters	10.6 C	8.61 mg/l	109.5 uS
11 meters	10.5 C	8.50 mg/l	109.7 uS
12 meters	10.4 C	8.27 mg/l	109.7 uS
13 meters			

Deep hole North GPS 46-28-635

91-44-522

Lake change-over

Secchi depth: 6 ft

Depth	Temperature	Dissolved Oxy.	Conductivity
Surface	11.6 C	9.25 mg/l	108.9 uS
1 meter	11.3 C	9.30 mg/l	108.9 uS
2 meters	11.1 C	9.22 mg/l	109.1 uS
3 meters	11.0 C	9.18 mg/l	109.0 uS
4 meters	11.0 C	9.12 mg/l	109.1 uS
5 meters	10.9 C	9.12 mg/l	109.0 uS
6 meters	11.0 C	9.14 mg/l	109.1 uS
7 meters	11.0 C	9.10 mg/l	109.0 uS
8 meters	10.9 C	9.02 mg/1	109.1 uS
9 meters	10.9 C	8.75 mg/l	109.1 uS

Lake Minnesuing Sanitary District Inorganic Chemistry Summary

Looking at the data from the 1996 limnology study, it is hard to find a correlation between the two sets of figures. We have included the lab reports from the 1998 samples in hopes of getting some indication from DNR limnologists as to the relevance of the information from 1996 to 1998. Please, if you could let us know of the significance of a comparison of the two sets of figures. It is a problem when we do not have the expertise to understand the results. We look forward to your communication. Thank-you.

Lake Minnesuing Sanitary District Inorganic chemistry

Deep hole south GPS 46-27-943 91-44-571

91-44-571 Top (1 meter)

	TEB. IO, 1998	MARCH 2, 1998	MARCH 24, 1998	APRIL15,1998
Chlorophyll A 1.65	1.65 UG/L Temp 2 C	2.76 UG/L Temp 1.8 C	7.4 UG/L Temp.2 C	6.47 UG/L Temp.7.4 C holding time ex 39 days
Ammonia (as N) -0,00	-0.006 MG/L	0.084 MG/L	0.019 MG/L	ND(LOD=0.013 MG/L)
Nitrate + Nitrite (as N) 0.103	0.103 MG/L	0.299 MG/L	0.212 MG/L	0.104 MG/L
Total Phosphorus 0,038	0.038 MG/L	0.034 MG/L	0.032 MG/L	0.34 MG/L
Ortho - P 0.013	0.013 MG/L	ND(LOD=0.002 MG/L)	0.002 MG/L	0.003 MG/L

Deep hole south bottom (12 meters)

CHEMISTRY	February 16,1998	March 2, 1998	March 24, 1998	April 15, 1998
Chlorophyll A	Temp.4.0 C	Temp 4.7 C	Temp 4.5 C	Temp. 7 C
Ammonia (as N)	0.321 MG/I	0.041 MG/L	0.149 MG/L	ND (LOD=0.013 MG/L)
Nitrate + Nitrite (as N)	0.076 MG/L	0.276 MG/L	0.153 MG/L	0.105 MG/L
Total Phosphorus	0.093 MG/L	0.056 MG/L	0.05328 MG/L	0.036 MG/L
Ortho - P	0.038 MG/L	0.023 MG/L	0.020 MG/L	0.004 MG/L

Lake Minnesuing Sanitary District Inorganic chemistry

Deep hole North GPS 46-28-635 91-44-522

Top (1 meter)

CHEMISTRY	FEB. 16, 1998	MARCH 2, 1998	MARCH 24, 1998	APRIL15,1998
Chlorophyll A	4.34 UG/L Temp. 1 C	2.85 UG/L Temp 3.5 C	5.83 UG/L holding time ex 55 days	5.54 UG/L holding time ex. 39 days Temp. 7.1 C
Ammonia (as N)	0,021 MG/L	0.085 MG/L	ND(LOD=0.013 MG/L)	ND(LOD=0.13 MG/L)
Nitrate + Nitrite (as N)	T/DW 960'0	0.241 MG/L	0.170 MG/L	0.105 MG/L
Total Phosphorus	T/DW 660.0	0.028 MG/L	0.037 MG/L	0.032 MG/L
Ortho - P	0.015 MG/L	0.004 MG/L	NP(LOD=0.002 MG/L	0.004 MG/L

Deep hole North bottom (9 meters)

CHEMISTRY	February 16,1998	March 2, 1998	March 24, 1998	April 15, 1998
Chlorophyll A			Temp 4 C	Temp 7 C
Ammonia (as N)	<0.013 MG/L Temp.4 C	0.020 MG/L Temp 4.7C	ND (LOD=0.013 MG/L.)	7/5W ET0"0=007) QN
Nitrate + Nitrite (28 N)	0.265 MG/L	0.283 MG/L	0.130 MG/L	0.110 MG/L
Total Phosphorus	0.046 MG/L	0.032 MG/L	0.03055 MG/L	0.033 MG/L
Ortho - P	0.013 MG/L	0.008 MG/L	0.005 MG/L	0.004 MG/L