

Appendix 8

Tables of All Historical TSI Data for Amnicon and Dowling Lakes

**Lake Amnicon Nutrient and TSI Summary of
Yearly Growing Season Averages
(May - September)**

Date Sampled	Data Source	Total P mg/l	TSI Phosphorus	Average *G.S.A.	Chlorophyll-A ug/l	TSI Chlorophyll	Average G.S.A.	Secchi (meters)	TSI Secchi	Average G.S.A.
22-Oct-78		0.018	45.83							
28-Nov-78		0.036	55.82	49.42						
17-Dec-78		0.019	46.61							
22-Jan-79		0.015	43.20							
19-Feb-79		0.020	47.35							
19-Mar-79		0.016	44.13							
2-May-79		0.013	41.14			53.23			57.14	
21-May-79		0.014	42.21			51.74			50.14	
4-Jun-79						45.78			51.30	
18-Jun-79		0.025	50.57	46.92		51.83	51.00		48.67	52.02
9-Jul-79						45.35			49.92	
22-Jul-79		0.028	52.20							
23-Jul-79									51.30	
9-Aug-79										
20-Aug-79		0.020	47.35						51.30	
12-Sep-79						53.25			57.14	
24-Sep-79		0.021	48.05			55.84			51.29	
10-Jul-86		0.020	47.35						45.69	
4-Sep-86				47.35					49.31	47.50
14-Apr-87		0.022	48.72			53.19			53.23	
18-Jun-87		0.017	45.00			46.39			45.16	
15-Jul-87		0.012	39.98	43.86		44.20	51.05		45.16	48.85
18-Aug-87		0.019	46.61			62.56			56.22	
18-Feb-88		0.016	44.13			37.40				
28-Apr-88		0.022	48.72			53.19			46.23	
20-Jun-88		0.016	44.13	49.78		51.00	56.39		49.31	53.97
25-Aug-88		0.035	55.42			61.78			58.63	
15-Feb-89		0.017	45.00			37.40				
4-May-89		0.039	56.98			61.36			53.23	
20-Jun-89		0.020	47.35	49.72		51.00	55.74		55.15	53.77
18-Jul-89		0.018	45.83			54.12			51.53	
23-Aug-89		0.022	48.72			56.49			55.15	
24-Apr-90		0.024	49.98	49.98		52.15	52.15		48.64	48.64
16-Apr-91		0.018	45.83	45.83		51.00	51.00		54.16	54.16

29-Apr-92	0.033	54.57	54.57		56.49	56.49		58.63	58.63
28-Apr-93	0.023	49.36	49.36		50.25	50.25		56.22	56.22
16-Mar-94	0.015	43.20			31.53				
26-Apr-94	0.022	48.72			45.09			52.35	
8-May-94								48.64	
28-May-94	0.022	48.72			45.09			41.95	
12-Jun-94								51.33	
19-Jun-94								50.75	
28-Jun-94	0.023	49.36			54.30			50.01	
10-Jul-94								48.64	
17-Jul-94			48.87			54.29		51.94	52.01
2-Aug-94	0.021	48.05			57.10			55.15	
10-Aug-94								54.16	
21-Aug-94								51.94	
24-Aug-94	0.023	49.36			60.65			58.63	
8-Sep-94								56.22	
25-Sep-94								56.78	
8-Oct-94								51.94	
16-Oct-94								48.00	
14-May-96	0.018	45.83			51.80				
19-May-96	0.025	50.6			51.8			57.1	
9-Jun-96	0.031	53.7			49			55	
14-Jul-96	0.025	42.2			46.3			49.7	
12-Aug-96	0.015	43.2	47.37		51.5	50.08		51.50	52.62
22-Sep-96	0.022	48.7						49.80	
28-Oct-96	0.020	47.3			46.6			51.90	
1-Dec-96	0.020	47.3			47.4			54	
29-Dec-96	0.031	53.7			35.6			50.5	
26-Jan-97	0.019	46.6			29.6			51	
17-Oct-97	0.026	51.13	48.87		53.19	41.40		46.80	48.90
30-Jul-98	0.016	44.13			52.11			53.23	
12-Oct-98	0.032	54.13	49.13		52.15	52.13		52.61	52.92
18-Jan-99								48.00	
20-Feb-99								44.27	
11-May-99			49.36			53.19		43.24	49.57
8-Jul-99	0.023	49.36			53.19			55.89	
14-May-03	0.018			1.11			2.90		
30-Jun-03	0.022			5.62			1.98		
29-Jul-03	0.017			5.45			1.68		
27-Aug-03	0.021			15.0			1.52		

24-Sep-03		0.022			25.70			1.68		
2-Jun-04		0.021			3.89			2.13		
30-Jun-04		0.020			4.74			2.44		
27-Jul-04		0.017			5.36					
25-Aug-04		0.023			10.9					
29-Sep-04		0.029			13.2					

*G.S.A. - growing season average. Growing season is considered May-September.

Note: Sample results from Epilimnion of deep hole of lake.

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**Dowling Lake Summary of Nutrient and
Trophic State Indices (TSI)
(May - September)**

Date	Data Source	Total P mg/l	TSI Phosphorus	Average *G.S.A.	Chlorophyll-A ug/l	TSI Chlorophyll	Average G.S.A.	Secchi (meters)	TSI Secchi	Average G.S.A.
12-May-76		0.034								
13-Apr-77		0.100								
22-Oct-78		0.058	62.70							
28-Nov-78		0.056	62.70	61.89						
17-Dec-78		0.049	60.27							
22-Jan-79		0.029	52.71							
19-Feb-79		0.028	52.20							
16-Mar-79		0.013	41.14							
2-May-79		0.016	44.13			52.15			63.91	
21-May-79		0.020	47.35			50.34			56.44	
4-Jun-79						47.91			58.26	
18-Jun-79		0.050	60.56	46.81		55.81	51.04		57.14	59.75
9-Jul-79						48.56			59.06	
22-Jul-79		0.016	44.13							
23-Jul-79						53.61			61.29	
9-Aug-79										
20-Aug-79		0.020	47.35						61.29	
12-Sep-79						48.21			61.29	
24-Sep-79		0.010	37.35			51.75			59.06	
11-Jul-91			50.00	50.00		55.00	55.00		59.00	59.00
8-May-94		0.031	53.67			53.85			57.37	
28-May-94									51.53	
12-Jun-94		0.031	53.67			57.68			56.22	
19-Jun-94									55.15	
10-Jul-94		0.032	54.13			58.45			54.16	
17-Jul-94				54.03			55.75		52.35	54.70
10-Aug-94									54.16	
21-Aug-94		0.034	55.00			53.03			54.16	
8-Sep-94									55.15	
25-Sep-94		0.031	53.67						56.78	
8-Oct-94									54.16	
16-Oct-94		0.041	57.70			47.14			55.15	
19-May-96		0.030	53.2			57.6			60.6	
9-Jun-96		0.036	55.8			45.3			48.6	

14-Jul-96		0.030	53.2			58			56.8	
12-Aug-96		0.040	57.3	55.6		55.8	54.2		57.4	55.8
22-Sep-96		0.044	58.7						55.7	
28-Oct-96		0.022	48.7			45			58.8	
1-Dec-96		0.029	52.7			34.7			63	
29-Dec-96		0.022	48.7			30.7			57	
26-Jan-97		0.036	55.8			19.7			53.8	
17-Oct-97		0.036	55.82	55.81		41.38	30.5			53.8
30-Jul-98		0.020	47.35			51.15			51.85	
12-Oct-98		0.031	53.67	50.51		51.00	51.08		52.61	52.23
8-Jul-99		0.031	53.67			57.17			61.52	
11-Jul-99		0.031	50.00	51.84		55.00	56.09		59	60.26
2-Jul-02									59	
22-Jul-02									56	
4-Aug-02									59	
19-Aug-02									58	57
24-Aug-02									55	
8-Sep-02									56	
22-Sep-02									57	
14-May-03		0.034			12.0			1.00		
30-Jun-03		0.034			15.5			1.16		
29-Jul-03		0.042			13.1			1.07		
27-Aug-03		0.050			30.0			1.07		
24-Sep-03		0.037			40.5			1.07		
2-Jun-04		0.026			13.5			1.37		
30-Jun-04		0.040			27.2			1.22		
27-Jul-04		0.033			25.8					
25-Aug-04		0.057			111					
29-Sep-04										

*G.S.A. - growing season average. Growing season is considered May-September.

*Used in calculating Growing Season Averages (G.S.A.'s). If less than three data points time frame of May through September, a G.S.A. not calculated for that year.

Note: Sample results from Epilimnion of deep hole of lake.

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