Appendix B
Level II Data

Introduction

Appendix B reports the analytical results of water samples collected by Level II volunteers from April through October 2002, as well as their physical measurements and observations. Data are reported for 48 lakes, of which 41 had either complete data sets or were only missing one sample date. Grass Lake had more than three missing dates because monitoring began after the season had started. Most water quality data appeared to be within reasonable boundaries of variability for the lake, but several analyses were repeated as a cautionary procedure. Several abnormally high values were not included in the Trophic State Indicator or N:P ratio calculations, but were included in the tables.

Many monitors rated algae presence in a new way in 2002, as reported in the appendix tables. The initial P was used to denote numbers of particles, while C was used for cloudiness. When algae were present, each quality was rated from 1 to 3, with 3 being the highest (distilled water would be P0/C0). When no algae were detected monitors recorded, "none." NR stands for "not recorded." Some monitors preferred to use the qualitative terms (i.e., none, some, lots), and these are reported as well. Volunteer monitors were also asked to rate aquatic plant concentrations at the shoreline and sample site, as well as making Canada geese counts.

Comments by volunteer monitors are reported in full where possible, although some comments had to be abbreviated to fit in the available space. Bird, aquatic plant, and boat information is not presented here; however the original data will be retained and can be made available by request.

All data are available upon request for any lake with data included in Appendix B.

Alice

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr											No Sample
6-May	12.0	4.5	4.09	10.9	254	NR	23	38.3	44.4	38.6	Water samples collected on 7 May from bulkhead
20-May	17.0	4.5	1.12	6.7	190	None	28	38.3	31.7	31.6	
3-Jun	20.0	3.5	1.33	9.2	262	None	28	41.9	33.4	36.2	
17-Jun	23.0	4.0	2.42	8.9	288	None	32	40.0	39.2	35.7	
1-Jul	22.0	4.0	1.62	9.1	249	None	27	40.0	35.3	36.0	
15-Jul	25.0	4.0	2.24	7.5	270	None	36	40.0	38.5	33.2	
29-Jul			4.01	13.3	375	None	28		44.2	41.5	
12-Aug	25.0	3.3	2.88	10.9	405	NR	37	42.8	40.9	38.6	
27-Aug	23.0	3.3	4.01	13.9	382	None	27	42.8	44.2	42.1	
9-Sep											No Sample
23-Sep	19.5	3.0	3.74	11.9	362	NR	30	44.1	43.5	39.9	
7-Oct	16.0	3.5	3.94	15	437	None	29	41.9	44.0	43.2	
20-Oct	14.0	3.0	3.40	18.8	340	A lot	18	44.1	42.6	46.5	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	19.7	3.7	2.9	11.3	317.8		29	41.3	40.2	38.6	**TSI Average = 40**
Median	20.0	3.5	3.1	10.9	314.0		28	41.9	41.8	38.6	
Min	12.0	3.0	1.1	6.7	190.0		18	38.3	31.7	31.6	
Max	25.0	4.5	4.1	18.8	437.0		37	44.1	44.4	46.5	
Count	11	11	12	12	12		12	11	12	12	

Allen

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	9.0	1.0	7.24	33.2	661	NR	20	60.0	50.0	54.7	
6-May	11.0	1.0	14.10	21.9	627		29	60.0	56.5	48.7	
20-May	16.0	0.8	9.79	34.8	643	None	18	64.2	52.9	55.4	
3-Jun	19.0	0.8	10.60	38.1	689	None	18	64.2	53.7	56.7	
17-Jun	19.5	0.5	47.60	37.9	1060	None	28	70.0	68.5	56.6	
1-Jul	20.0	0.5	31.30	33.6	994	NR	30	70.0	64.4	54.9	
15-Jul	23.0	0.8	51.50	30.3	1040	NR	34	64.2	69.2	53.4	
29-Jul	21.0	0.8	20.20	29.3	1010	NR	34	64.2	60.1	52.9	
12-Aug	23.0	1.0	16.00	27	785	None	29	60.0	57.8	51.7	
26-Aug											No sample
9-Sep	17.0	0.8	15.40	23	774	None	34	64.2	57.4	49.4	
23-Sep	17.5	1.0	13.20	59.9	821	None	14	60.0	55.9	63.2	
7-Oct	15.0	0.8	11.40	29.3	738	None	25	64.2	54.4	52.9	
21-Oct	13.0	0.8	5.70	63.1	730	None	12	64.2	47.6	63.9	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.2	0.8	19.5	35.5	813.2		25	63.8	57.6	54.9	**TSI Average = 58.8**
Median	17.5	0.8	14.1	33.2	774.0		28	64.2	56.5	54.7	
Min	9.0	0.5	5.7	21.9	627.0		12	60.0	47.6	48.7	
Max	23.0	1.0	51.5	63.1	1060.0		34	70.0	69.2	63.9	
Count	13	13	13	13	13		13	13	13	13	

Ames

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.5	4.0	3.88	32.5	574	C1/P2	18	40.0	43.9	54.4	
5-May	12.5	3.5	9.04	6.75	556	P2	82	41.9	52.2	31.7	
19-May	17.0	3.5	7.93	10.8	516	P2	48	41.9	50.9	38.5	
2-Jun	20.0	3.3	5.07	10.1	412	C1	41	42.8	46.5	37.5	
16-Jun	21.5	3.8	4.51	9.2	383	C1	42	40.7	45.3	36.2	
30-Jun	21.5	4.8	2.90	8.1	305	C1/P2	38	37.4	41.0	34.3	
14-Jul	23.0	5.3	2.24	6.4	400	C2/P2	63	35.9	38.5	30.9	
28-Jul	23.0	4.0	3.04	7.4	315	C1/P1	43	40.0	41.5	33.0	
11-Aug	23.0	3.3	1.60	6.5	294	C1/P1	45	42.8	35.2	31.1	
26-Aug	22.0	3.0	2.52	10.7	290	None	27	44.1	39.6	38.3	
8-Sep	19.5	3.5	1.83	11.2	288	C2/P2	26	41.9	36.5	39.0	
22-Sep	18.5	3.8	1.85	22.1	378	C1	17	40.7	36.6	48.8	
6-Oct	17.0	3.5	2.86	11.8	402	C2/P2	34	41.9	40.9	39.8	
20-Oct	14.5	3.5	5.10	13.4	289	C2/P2	22	41.9	46.6	41.6	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	18.8	3.8	3.9	11.9	385.9		39	41.0	42.5	38.2	**TSI Average = 40.6**
Median	19.8	3.5	3.0	10.4	380.5		39	41.9	41.2	37.9	
Min	10.5	3.0	1.6	6.4	288.0		17	35.9	35.2	30.9	
Max	23.0	5.3	9.0	32.5	574.0		82	44.1	52.2	54.4	
Count	14	14	14	14	14		14	14	14	14	

Angle

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.0	4.0	4.34	11.1	404	None	36	40.0	45.0	38.9	
5-May	11.0	3.5	4.08	9.5	362	None	38	41.9	44.4	36.6	
19-May	15.0	5.0	3.94	10.3	335	None	33	36.8	44.0	37.8	
2-Jun	17.5	5.0	2.22	9.1	306	None	34	36.8	38.4	36.0	
16-Jun	20.0	5.5	1.96	10.8	354	None	33	35.4	37.2	38.5	
30-Jun	20.5	3.5	2.05	8.7	260	None	30	41.9	37.6	35.4	
14-Jul	22.0	4.5	1.92	11.2	437	None	39	38.3	37.0	39.0	
28-Jul	22.0	5.3	2.24	9.5	326	None	34	35.9	38.5	36.6	
11-Aug	21.5	5.0	1.44	6.4	320	None	50	36.8	34.1	30.9	
25-Aug		5.0	1.60	8.9	311	None	35	36.8	35.2	35.7	
8-Sep	20.0	6.0	1.92	7.6	324	None	43	34.1	37.0	33.4	
22-Sep	18.0	6.5	1.76	8.5	307	None	36	33.0	36.1	35.0	
6-Oct	17.0	5.8	2.56	9	358	NR	40	34.6	39.8	35.8	
20-Oct	15.0	5.5	3.31	12.3	276	None	22	35.4	42.3	40.4	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.7	5.0	2.5	9.5	334.3		36	37.0	39.0	36.4	**TSI Average = 37.5**
Median	18.0	5.0	2.1	9.3	325.0		36	36.8	38.0	36.3	
Min	10.0	3.5	1.4	6.4	260.0		22	33.0	34.1	30.9	
Max	22.0	6.5	4.3	12.3	437.0		50	41.9	45.0	40.4	
Count	13	14	14	14	14		14	14	14	14	

Beaver 1

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	1.3	3.45	17.2	450	NR	26	56.2	42.7	45.2	
7-May	11.0	1.8	5.49	18.85	461	NR	24	51.5	47.3	46.5	
21-May	16.0	1.8	7.20	23.6	459	Yes	19	51.5	49.9	49.8	
3-Jun	21.0	1.5	3.94	21.9	480	Some	22	54.1	44.0	48.7	
18-Jun	18.5	1.8	8.79	25.6	577	Little	23	51.5	51.9	50.9	
1-Jul	19.5	1.8	6.33	20.8	508	Some	24	51.5	48.7	47.9	
16-Jul	22.0	2.0	5.45	20.6	562	Some	27	50.0	47.2	47.8	
29-Jul	22.0	1.5	10.60	17.5	583	Some	33	54.1	53.7	45.4	
13-Aug	22.5	2.0	3.52	24.3	466	Some	19	50.0	42.9	50.2	
27-Aug	20.5	1.8	6.25	14.7	470	NR	32	51.5	48.5	42.9	
9-Sep	19.5	2.0	7.05	12.5	503	Yes	40	50.0	49.7	40.6	
23-Sep	17.0	2.0	6.57	13.6	484	Some	36	50.0	49.0	41.8	
8-Oct	15.0	2.0	4.35	13.6	438	Some	32	50.0	45.0	41.8	
22-Oct	13.0	1.8	6.12	13.9	425	Some	31	51.5	48.3	42.1	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.8	1.8	6.1	18.5	490.4		28	51.7	47.8	45.8	**TSI Average = 48.4**
Median	19.0	1.8	6.2	18.2	475.0		27	51.5	48.4	46.0	
Min	11.0	1.3	3.5	12.5	425.0		19	50.0	42.7	40.6	
Max	22.5	2.0	10.6	25.6	583.0		40	56.2	53.7	50.9	
Count	14	14	14	14	14		14	14	14	14	

Beaver 2

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.0	1.8	9.43	18	533	C2	30	51.5	52.6	45.8	
5-May	12.0	1.5	8.49	16	460	C1	29	54.1	51.6	44.1	Secchi difficult to see - boat rocking; algae hard to gauge
19-May	16.0	2.3	4.63	17.6	420	C1	24	48.0	45.6	45.5	
2-Jun	20.0	2.5	2.16	13.65	302	C1	22	46.8	38.1	41.9	
16-Jun	21.0	2.5	3.66	13.7	393	C1	29	46.8	43.3	41.9	
30-Jun	20.0	2.5	3.72	17	368	C1	22	46.8	43.5	45.0	
14-Jul	23.5	2.5	2.24	10.7	381	C1	36	46.8	38.5	38.3	
28-Jul	22.0	2.5	3.36	8.3	338	P2	41	46.8	42.5	34.7	
11-Aug	22.0	2.8	3.52	5.4	303	C1/P2	56	45.1	42.9	28.5	
25-Aug	21.5	2.8	4.01	8	322	P1	40	45.1	44.2	34.1	
8-Sep	19.0	2.8	6.41	8.7	367	C1/P1	42	45.1	48.8	35.4	
22-Sep	18.0	3.0	9.93	8.6	382	C1	44	44.1	53.1	35.2	
6-Oct	15.0	2.5	11.20	19.2	400	C1	21	46.8	54.3	46.8	
20-Oct	13.0	2.0	13.50	11.1	453	P1	41	50.0	56.1	38.9	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.1	2.4	6.2	12.6	387.3		34	47.4	46.8	39.7	**TSI Average = 44.6**
Median	19.5	2.5	4.3	12.4	381.5		33	46.8	44.9	40.4	
Min	10.0	1.5	2.2	5.4	301.5		21	44.1	38.1	28.5	
Max	23.5	3.0	13.5	19.2	533.0		56	54.1	56.1	46.8	
Count	14	14	14	14	14		14	14	14	14	

Bitter

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	12.0	3.7	15.70	15.6	317	NR	20	41.1	57.6	43.8	
5-May	13.0	4.2	2.74	9.2	297	NR	32	39.3	40.5	36.2	
19-May	15.5	3.7	2.95	10.9	257	NR	24	41.1	41.2	38.6	
3-Jun	19.5	4.7	6.98	7.7	227	NR	29	37.7	49.6	33.6	
16-Jun	21.0	4.5	2.17	10.55	281	None	27	38.3	38.2	38.1	
30-Jun	22.0	3.8	3.81	11.4	318	None	28	40.7	43.7	39.3	
15-Jul	22.0	2.8	4.49	11.2	306	None	27	45.1	45.3	39.0	
28-Jul	22.5	2.3	4.65	14.3	335	None	23	48.0	45.6	42.5	
11-Aug	22.5	2.3	3.36	12.7	317	NR	25	48.0	42.5	40.8	
26-Aug	21.5	2.1	4.65	15.9	300	Yes	19	49.3	45.6	44.1	
8-Sep	19.5	2.0	4.81	14	326	NR	23	50.0	46.0	42.2	
22-Sep	18.5	2.0	6.57	18	329	NR	18	50.0	49.0	45.8	
6-Oct	16.0	2.5	8.17	14.8	280	None	19	46.8	51.2	43.0	
20-Oct	13.5	1.6	17.60	45.7	416	NR	9	53.2	58.7	59.3	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.5	3.0	6.3	15.1	307.6		23	44.9	46.8	41.9	**TSI Average = 44.5**
Median	19.5	2.7	4.7	13.4	311.5		24	46.0	45.6	41.5	
Min	12.0	1.6	2.2	7.7	227.0		9	37.7	38.2	33.6	
Max	22.5	4.7	17.6	45.7	416.0		32	53.2	58.7	59.3	
Count	14	14	14	14	14		14	14	14	14	

Boren

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
23-Apr			8.03	16.7	711		43		51.0	44.8	No Datasheet; samples taken from dock
7-May			1.92	11.7	592		51		37.0	39.6	
19-May	15.5	3.8	1.69	13.9	575	NR	41	40.7	35.7	42.1	
2-Jun	18.5	4.0	0.73	11.9	520	NR	44	40.0	27.5	39.9	
16-Jun	21.0	4.3	1.80	13.6	489	NR	36	39.0	36.3	41.8	
30-Jun	21.0	3.0	8.94	13.05	398	NR	30	44.1	52.1	41.2	
15-Jul	22.5	4.3	3.04	16.4	368	NR	22	39.0	41.5	44.5	
28-Jul	22.5	3.3	3.52	14.4	318	NR	22	42.8	42.9	42.6	
11-Aug											No Sample
25-Aug	22.0	3.0	4.81	14.1	319	None	23	44.1	46.0	42.3	
8-Sep	19.5	3.3	4.97	14	409	NR	29	42.8	46.3	42.2	
22-Sep	18.5	3.3	3.89	13.5	328	NR	24	42.8	43.9	41.7	
6-Oct	15.5	3.0	6.57	15.8	301	NR	19	44.1	49.0	44.0	
20-Oct	12.5	2.8	14.20	24.6	410	NR	17	45.1	56.6	50.4	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	19.0	3.5	4.9	14.9	441.3		31	42.2	43.5	42.9	**TSI Average = 42.9**
Median	19.5	3.3	3.9	14.0	409.0		29	42.8	43.9	42.2	
Min	12.5	2.8	0.7	11.7	301.0		17	39.0	27.5	39.6	
Max	22.5	4.3	14.2	24.6	711.0		51	45.1	56.6	50.4	
Count	11	11	13	13	13		13	11	13	13	

Burien

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	12.0		2.22	10.9	437	NR	40		38.4	38.6	
5-May	13.5		2.38	6.8	373	NR	55		39.1	31.8	
19-May	16.0	4.0	4.69	11	350	None	32	40.0	45.7	38.7	
2-Jun	20.0	5.5	1.34	14.7	363	None	25	35.4	33.4	42.9	
16-Jun	20.0	5.5	1.36	11.3	368	None	33	35.4	33.6	39.1	
30-Jun											No sample
14-Jul	22.0	4.5	2.16	10.65	372	None	35	38.3	38.1	38.3	
28-Jul											No sample
11-Aug	22.0	3.5	2.88	12.4	364	None	29	41.9	40.9	40.5	Trace of particulate algae present
25-Aug											No sample
8-Sep	18.5	3.0	4.49	15.5	442	None	29	44.1	45.3	43.7	
22-Sep	18.0	3.0	4.49	15.3	432	None	28	44.1	45.3	43.5	
7-Oct			4.33	15	435	None	29		44.9	43.2	
20-Oct			1.96	16.9	412	NR	24		37.2	44.9	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.0	4.1	2.9	12.8	395.2		33	39.9	40.2	40.5	**TSI Average = 40.2**
Median	18.5	4.0	2.4	12.4	373.0		29	40.0	39.1	40.5	
Min	12.0	3.0	1.3	6.8	350.0		24	35.4	33.4	31.8	
Max	22.0	5.5	4.7	16.9	442.0		55	44.1	45.7	44.9	
Count	9	7	11	11	11		11	7	11	11	

Cottage

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	1.8	2.56	29.2	1030	C2	35	51.5	39.8	52.8	
6-May	11.0	2.0	3.00	22.9	1070	C2	47	50.0	41.3	49.3	
20-May	15.0	2.0	11.70	21.9	975	C1	45	50.0	54.7	48.7	
3-Jun	19.0	2.5	3.31	16.9	888	C2	53	46.8	42.3	44.9	
17-Jun	19.5	2.3	6.84	17.5	914	C2	52	48.0	49.4	45.4	
1-Jul	20.0	2.3	5.74			NR		48.0	47.7		Sampling error; no nutrient data
15-Jul	23.0	2.5	3.68	20.8	735	C1	35	46.8	43.4	47.9	
29-Jul	22.0	3.0	6.73	20.2	754	C1	37	44.1	49.3	47.5	
12-Aug	22.5	2.5	3.52	20.2	590	C1	29	46.8	42.9	47.5	
26-Aug	21.0	1.3	8.41	23.2	514	None	22	56.2	51.5	49.5	
9-Sep	19.0	3.0	7.05	22.7	495	C1	22	44.1	49.7	49.2	
23-Sep	17.0	1.3	26.10	35.1	685	C2	20	56.2	62.6	55.5	
7-Oct	15.0	1.0	47.60	51.7	982	C3	19	60.0	68.5	61.1	
21-Oct	13.0	1.0	29.60	76.5	802	C3	10	60.0	63.8	66.7	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.6	2.0	11.8	29.1	802.6		33	50.6	50.5	51.2	**TSI Average = 50.8**
Median	19.0	2.2	6.8	22.7	802.0		35	49.0	49.4	49.2	
Min	10.0	1.0	2.6	16.9	495.0		10	44.1	39.8	44.9	
Max	23.0	3.0	47.6	76.5	1070.0		53	60.0	68.5	66.7	
Count	14	14	14	13	13		13	14	14	13	

Desire

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	2.5	2.42	19.4	695	P1	36	46.8	39.2	46.9	
5-May	12.5	2.3	4.91	15.4	623	C1/P1	40	48.0	46.2	43.6	
19-May	16.5	1.3	18.30	29.1	538	Some	18	56.2	59.1	52.8	
4-Jun	20.5	1.8	6.15	15.3	379	None	25	51.5	48.4	43.5	
16-Jun	22.0	3.0	2.48	13.4	351	C1/P2	26	44.1	39.5	41.6	
30-Jun	21.5	2.8	3.50	14.2	350	C1/P2	25	45.1	42.9	42.4	
14-Jul	23.0	3.0	2.80	13.1	344	C1/P2	26	44.1	40.7	41.3	
28-Jul	22.0	3.3	3.20	13.1	335	C1/P2	26	42.8	42.0	41.3	
11-Aug	22.0	2.8	6.21	13	403	C1/P2	31	45.1	48.5	41.2	
25-Aug	22.5	2.5	7.01	16.8	420	C2/P2	25	46.8	49.7	44.9	
8-Sep	19.5	1.5	123.00	31.1	585	C2/P3	19	54.1	77.8	53.7	
22-Sep	18.5	3.3	12.40	18.1	427	C1/P2	24	42.8	55.3	45.9	
6-Oct	16.5	2.5	8.19	37	430	C2/P2	12	46.8	51.2	56.2	
20-Oct	15.0	1.5	85.70	54.3	771	C3/P3	14	54.1	74.2	61.8	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.8	2.4	20.4	21.7	475.0		25	47.7	51.0	46.9	**TSI Average = 48.6**
Median	20.0	2.5	6.2	16.1	423.5		25	46.8	48.4	44.2	
Min	11.0	1.3	2.4	13.0	335.0		12	42.8	39.2	41.2	
Max	23.0	3.3	123.0	54.3	771.0		40	56.2	77.8	61.8	
Count	14	14	14	14	14		14	14	14	14	

Fivemile

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	1.3	2.39	44.5	1130	P2	25	56.2	39.1	58.9	
5-May	12.5	1.3	3.80	10.8	976	P1	90	56.2	43.7	38.5	
20-May	17.0	1.3	8.93	19.4	1060	C2	55	56.2	52.0	46.9	
2-Jun	21.5	1.5	6.03	16.8	863	P1	51	54.1	48.2	44.9	
16-Jun	21.5	1.0	8.79	17.4	793	C2	46	60.0	51.9	45.4	
30-Jun	20.0	1.0	8.98	16.55	738	P1	45	60.0	52.1	44.6	
14-Jul	22.0	1.0	3.52	12.9	688	P1	53	60.0	42.9	41.0	
28-Jul	22.0	1.0	8.17	15.3	815	P2	53	60.0	51.2	43.5	
11-Aug	23.0	1.0	3.84	18.8	818	C1	44	60.0	43.8	46.5	Lk clearer than usual. Waves made it difficult to see algae.
25-Aug	21.5	1.0	6.73	13	718	P2	55	60.0	49.3	41.2	
8-Sep	18.5	1.0	3.52	13.1	723	C2	55	60.0	42.9	41.3	
22-Sep	19.0	1.5	3.20	16.6	734	None	44	54.1	42.0	44.7	
6-Oct	17.0	1.0	2.63	13.4	705	P1	53	60.0	40.1	41.6	
20-Oct	13.5	1.3	5.13	18.8	737	P1	39	56.2	46.6	46.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.6	1.2	5.4	17.7	821.3		51	58.1	46.1	44.7	**TSI Average = 49.6**
Median	19.5	1.0	4.5	16.6	765.5		52	60.0	45.2	44.7	
Min	11.0	1.0	2.4	10.8	688.0		25	54.1	39.1	38.5	
Max	23.0	1.5	9.0	44.5	1130.0		90	60.0	52.1	58.9	
Count	14	14	14	14	14		14	14	14	14	

Francis

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	3.0	4.41	11.1	410	None	37	44.1	45.1	38.9	
5-May	12.0	2.5	2.58	9.8	395	None	40	46.8	39.9	37.1	
19-May	17.5	2.5	4.65	9.9	385	P1	39	46.8	45.6	37.2	
2-Jun	21.5	2.5	10.40	15.2	454	P1	30	46.8	53.5	43.4	
16-Jun	22.0	2.5	2.42	10.1	415	P2	41	46.8	39.2	37.5	
30-Jun	20.0	2.3	6.49	14.1	436	P2	31	48.0	48.9	42.3	
14-Jul	21.5	2.3	3.39	15.75	422	P2	27	48.0	42.5	43.9	
28-Jul	20.0	1.5	67.30	32.2	688	P2	21	54.1	71.9	54.2	
11-Aug	21.0	1.5	17.60	26.6	610	P2	23	54.1	58.7	51.5	
25-Aug	20.0	1.5	30.40	24.3	565	P2	23	54.1	64.1	50.2	
8-Sep	16.0	1.5	22.20	17.8	538	P2	30	54.1	61.0	45.7	
22-Sep	17.0	1.5	18.70	18.6	504	P2	27	54.1	59.3	46.3	
6-Oct	15.0	2.0	4.63	14.4	440	P1	31	50.0	45.6	42.6	
20-Oct	12.0	2.0	8.97	16.5	478	P1	29	50.0	52.1	44.6	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.6	2.1	14.6	16.9	481.4		31	49.9	52.0	44.0	**TSI Average = 48.6**
Median	18.8	2.2	7.7	15.5	447.0		30	49.0	50.5	43.7	
Min	11.0	1.5	2.4	9.8	385.0		21	44.1	39.2	37.1	
Max	22.0	3.0	67.3	32.2	688.0		41	54.1	71.9	54.2	
Count	14	14	14	14	14		14	14	14	14	

Geneva

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	4.5	5.33	12.5	595	C1	48	38.3	47.0	40.6	
6-May	12.0	4.8	2.06	6.1	519	P1	85	37.4	37.7	30.2	
19-May	16.0	6.5	1.14	7.4	475	P2	64	33.0	31.9	33.0	
2-Jun	20.0	6.8	2.02	8.1	406	P2	50	32.3	37.5	34.3	
16-Jun	20.5	5.3	2.46	10.1	407	P2	40	35.9	39.4	37.5	
30-Jun	20.5	3.0	8.25	11	371	P2	34	44.1	51.3	38.7	
14-Jul	22.5	3.3	3.20	13	415	P2	32	42.8	42.0	41.2	
28-Jul	22.0	3.5	5.21	11.65	431	P2	37	41.9	46.8	39.6	
11-Aug	23.0	3.5	1.92	8.1	350	P2	43	41.9	37.0	34.3	
25-Aug	21.5	3.0	4.81	12.1	404	P3	33	44.1	46.0	40.1	
8-Sep	19.0	2.3	10.60	15.8	453	P3	29	48.0	53.7	44.0	
22-Sep											No sample.
6-Oct	16.0	2.3	11.70	14.1	440	P3	31	48.0	54.7	42.3	
20-Oct	13.5	2.3	16.40	18.7	535	P3	29	48.0	58.0	46.4	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.3	3.9	5.8	11.4	446.2		43	41.2	44.8	38.6	**TSI Average = 41.6**
Median	20.0	3.5	4.8	11.7	430.5		37	41.9	46.0	39.6	
Min	11.0	2.3	1.1	6.1	350.0		29	32.3	31.9	30.2	
Max	23.0	6.8	16.4	18.7	595.0		85	48.0	58.0	46.4	
Count	13	13	13	13	13		13	13	13	13	

Grass

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr											
6-May											
19-May											
2-Jun											
16-Jun	17.5	0.8	3.99	21.9	635	C2/P2	29	63.2	44.1	48.7	1st sampling date w/ program
30-Jun	17.5	0.8	30.30	35.7	709	C2/P2	20	64.2	64.0	55.7	
14-Jul											No sample
28-Jul	18.0	0.5	77.00	47.1	952	C3/P3	20	70.0	73.2	59.7	
11-Aug	18.0	0.3	40.30	27.9	763	C2/P2	27	76.0	66.8	52.2	
25-Aug	17.0	0.3	63.30	39.7	929	C3/P3	23	80.0	71.3	57.3	
8-Sep	15.0	0.4	40.40	28.1	909	C3/P3	32	75.1	66.9	52.3	Algae noted as P3+
22-Sep	14.5	0.3	18.00	29.7	796	C3/P3	27	77.4	58.9	53.1	
6-Oct	13.5	0.6	10.40	27.3	972	C3/P3	36	67.4	53.5	51.9	
20-Oct	11.0	0.8	6.41	21	671	C3/P3	32	64.2	48.8	48.1	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	15.8	0.5	32.2	30.9	815.1		27	70.8	60.8	53.2	**TSI Average = 61.6**
Median	17.0	0.5	30.3	28.1	796.0		27	70.0	64.0	52.3	
Min	11.0	0.3	4.0	21.0	635.0		20	63.2	44.1	48.1	
Max	18.0	0.8	77.0	47.1	972.0		36	80.0	73.2	59.7	
Count	9	9	9	9	9		9	9	9	9	

Haller

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.5	4.0	3.00	19.9	607	P1	31	40.0	41.3	47.3	
5-May	12.0	2.8	5.45	14.5	511	C1	35	45.1	47.2	42.7	
19-May	14.0	3.5	3.30	15.7	417	P1	27	41.9	42.3	43.9	
2-Jun	18.0	3.5	3.86	16	349	C1/P2	22	41.9	43.8	44.1	
16-Jun	20.5	3.5	3.78	15.1	352	None	23	41.9	43.6	43.3	
30-Jun	21.0	3.3	3.97	14.2	343	C1/P1	24	42.8	44.1	42.4	
14-Jul	22.0	2.5	11.70	15.7	356	C1/P1	23	46.8	54.7	43.9	
28-Jul	21.5	2.3	8.65	17.7	373	C2/P2	21	48.0	51.7	45.6	
11-Aug	21.5	3.3	3.44	11.1	303	C1/P1	27	42.8	42.7	38.9	
25-Aug	21.0	3.3	3.36	13.3	326	C2/P2	25	42.8	42.5	41.5	
8-Sep	18.5	2.8	3.68	12.4	321	C1/P1	26	45.1	43.4	40.5	
22-Sep	18.0	3.0	4.93	13.1	326	C1/P1	25	44.1	46.2	41.3	
6-Oct	15.0	3.8	8.97	14.9	295	C1/P2	20	40.7	52.1	43.1	
20-Oct	13.0	3.0	8.72	14.3	330	C1/P2	23	44.1	51.8	42.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.7	3.2	5.5	14.9	372.1		25	43.4	46.2	42.9	**TSI Average = 44.2**
Median	18.3	3.3	3.9	14.7	346.0		24	42.8	44.0	42.9	
Min	11.5	2.3	3.0	11.1	295.0		20	40.0	41.3	38.9	
Max	22.0	4.0	11.7	19.9	607.0		35	48.0	54.7	47.3	
Count	14	14	14	14	14		14	14	14	14	

Horseshoe

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	3.5	1.63	15.3	913	P2	60	41.9	35.4	43.5	
6-May	12.0		0.96	13.2	817	C2	62		30.2	41.4	
19-May	17.5	4.0	0.74	18.7	858	None	46	40.0	27.6	46.4	
2-Jun	25.0	4.0	2.42	15.3	723	C1/P2	47	40.0	39.2	43.5	
17-Jun	20.0	3.5	6.50	16.2	652	C1/P2	40	41.9	48.9	44.3	
30-Jun	22.0	3.0	5.33	16.3	591	C2P2	36	44.1	47.0	44.4	
14-Jul	23.0	1.5	4.33	14.6	624	NR	43	54.1	44.9	42.8	
28-Jul	22.0	3.3	4.49	15	659	P2	44	42.8	45.3	43.2	
12-Aug	24.0	2.5	4.01	34.1	825	C1	24	46.8	44.2	55.1	
25-Aug	22.0	2.0	9.61	21.5	730	C2/P2	34	50.0	52.8	48.4	
8-Sep	18.0	2.0	13.10	20.7	789	NR	38	50.0	55.8	47.9	
22-Sep	18.0	2.0	4.49	20.4	812	P2	40	50.0	45.3	47.7	
7-Oct	15.0	1.3	4.92	19.1	854	C1/P1	45	56.2	46.2	46.7	
20-Oct	12.0	1.3	7.65	26.6	848	C2/P2	32	56.2	50.5	51.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.6	2.6	5.0	19.1	763.9		42	47.2	43.8	46.2	**TSI Average = 45.7**
Median	19.0	2.5	4.5	17.5	800.5		41	46.8	45.3	45.4	
Min	10.0	1.3	0.7	13.2	591.0		24	40.0	27.6	41.4	
Max	25.0	4.0	13.1	34.1	913.0		62	56.2	55.8	55.1	
Count	14	13	14	14	14		14	13	14	14	

Jones

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.0		31.10	26.8	1190	NR	44		64.3	51.6	Secchi on bottom at 2.3m
6-May	10.5	2.0	16.40	34.5	1550	None	45	50.0	58.0	55.2	
19-May	13.0	2.3	6.87	100	2510	Some					Secchi on bottom at 2.3m; sample had bottom material
2-Jun	16.0	2.3	17.20	52.7	813	NR	15	48.0	58.5	61.3	
16-Jun											No sample
30-Jun	21.0	2.0	3.11	17.2	480	NR	28	50.0	41.7	45.2	
14-Jul											No sample
29-Jul	22.5	2.0	5.61	18.2	467	Some	26	50.0	47.5	46.0	
11-Aug	22.0	2.0	10.10	27.3	519	Lots	19	50.0	53.3	51.9	
25-Aug	21.0	2.0	17.15	35.85	565	Lots	16	50.0	58.4	55.8	
8-Sep	20.5	2.0	9.29	33.6	532	NR	16	50.0	52.4	54.9	
22-Sep	19.5	2.0	8.01	31.4	625	NR	20	50.0	51.0	53.9	
6-Oct	17.5	2.0	8.17	23.2	451	NR	19	50.0	51.2	49.5	
20-Oct	13.0	2.0	84.90	29.1	469	NR	16	50.0	74.1	52.8	High degraded chlor. Suspect bottom sediment in sample.
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.2	2.1	18.2	35.8	847.6		24	49.8	55.5	52.5	**TSI Average = 52.6**
Median	18.5	2.0	9.7	30.3	548.5		19	50.0	53.3	52.8	
Min	10.0	2.0	3.1	17.2	451.0		15	48.0	41.7	45.2	
Max	22.5	2.3	84.9	100.0	2510.0		45	50.0	74.1	61.3	
Count	12	11	12	12	12		11	10	11	11	

Joy

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.0	3.0	7.17	11.4	673	C1/P1	59	44.1	49.9	39.3	
5-May	13.0	3.5	6.33	5.5	615	C2/P2	112	41.9	48.7	28.7	
19-May	16.0	3.5	7.85	9.6	518	C1/P1	54	41.9	50.8	36.8	
2-Jun	19.5	3.0	8.14	9.85	462	C1/P1	47	44.1	51.1	37.1	
16-Jun	21.0	3.5	3.28	9.8	408	C1/P1	42	41.9	42.2	37.1	
30-Jun	21.0	4.5	4.01	9.2	398	C1/P1	43	38.3	44.2	36.2	
14-Jul	24.0	5.0	2.08	6.8	276	C1/P1	41	36.8	37.8	31.8	
28-Jul	23.0	5.0	2.08	7.2	367	C2/P2	51	36.8	37.8	32.6	
11-Aug	23.0	4.5	1.76	5	285	C1/P1		38.3	36.1	27.4	TP <MDL; recorded as 5ug/L
25-Aug	22.0	4.0	2.08	7.4	330	C2/P1	45	40.0	37.8	33.0	
8-Sep	19.0	4.5	1.92	6.8	348	C2/P1	51	38.3	37.0	31.8	
22-Sep	19.0	4.0	2.08	10.5	394	C2/P2	38	40.0	37.8	38.1	
6-Oct	16.0	5.0	2.08	7.2	325	C1/P1	45	36.8	37.8	32.6	
20-Oct	13.5	5.3	2.67	10.1	428	C1/P1	42	35.9	40.2	37.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.6	4.2	3.8	8.3	416.2		51	39.7	42.1	34.3	**TSI Average = 38.7**
Median	19.3	4.3	2.4	8.3	396.0		45	39.1	39.0	34.6	
Min	10.0	3.0	1.8	5.0	276.0		38	35.9	36.1	27.4	
Max	24.0	5.3	8.1	11.4	673.0		112	44.1	51.1	39.3	
Count	14	14	14	14	14		13	14	14	14	

Kathleen

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	1.5	12.00	15.9	656	P2	41	54.1	54.9	44.1	
5-May	12.0	2.5	2.67	11.3	462	P2	41	46.8	40.2	39.1	
19-May	15.0	3.3	1.60	9.8	418	P1	43	42.8	35.2	37.1	Water unusually clear
2-Jun	19.5	2.8	2.66	12.8	426	P1	33	45.1	40.2	40.9	
16-Jun	21.5	3.0	1.94	21.6	500	P2	23	44.1	37.1	48.5	
30-Jun	21.0	2.3	5.17	12	406	C1	34	48.0	46.7	40.0	
14-Jul	23.5	1.8	3.68	20.7	531	P2	26	51.5	43.4	47.9	
28-Jul	21.5	1.8	6.41	14.5	473	C2	33	51.5	48.8	42.7	
11-Aug	24.0	1.5	9.45	12.15	473	C1	39	54.1	52.6	40.2	
25-Aug	22.0	1.8	21.70	18.6	564	C2	30	51.5	60.8	46.3	
8-Sep	19.0	1.3	20.20	23.9	598	C2	25	56.2	60.1	49.9	
22-Sep	17.0	1.5	14.20	23.9	594	C2	25	54.1	56.6	49.9	
6-Oct	15.0	1.8	8.01	18.7	598	C2	32	51.5	51.0	46.4	
20-Oct	13.5	1.5	11.00	18.8	490	C2	26	54.1	54.1	46.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.3	2.0	8.6	16.8	513.5		32	50.4	48.7	44.2	**TSI Average = 47.8**
Median	19.3	1.8	7.2	17.3	495.0		32	51.5	49.9	45.2	
Min	11.0	1.3	1.6	9.8	406.0		23	42.8	35.2	37.1	
Max	24.0	3.3	21.7	23.9	656.0		43	56.2	60.8	49.9	
Count	14	14	14	14	14		14	14	14	14	

Killarney

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	2.0	14.10	18.4	577	NR	31	50.0	56.5	46.2	
5-May	13.0	2.5	6.55	15.9	482	NR	30	46.8	49.0	44.1	
19-May	16.5	2.8	3.86	15.6	436	None	28	45.1	43.8	43.8	
2-Jun	21.0	3.0	5.06	36	463	None	13	44.1	46.5	55.8	
16-Jun	21.5	1.5	14.30	24.5	560	P3	23	54.1	56.7	50.3	Noticed algae bloom on Sat. 15-Jun
30-Jun	20.5	2.0	9.42	27.6	536	P2	19	50.0	52.6	52.0	
14-Jul	22.5	2.3	9.29	20.9	518	C2/P2	25	48.0	52.4	48.0	
28-Jul	22.0	2.5		19.2	481	C2/P1	25	46.8		46.8	
11-Aug		2.8	4.97	17.4	462	C2/P2	27	45.1	46.3	45.4	
25-Aug	21.5	3.0	4.25	19.7	478	C2/P2	24	44.1	44.8	47.1	
8-Sep	19.0	2.5	4.49	21.6	502	C2/P1	23	46.8	45.3	48.5	
22-Sep	19.0	3.0	3.52	23.6	517	C1/P1	22	44.1	42.9	49.8	
6-Oct	15.5	3.0	3.66	19.2	524	C1/P1	27	44.1	43.3	46.8	
20-Oct											No sample
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.6	2.5	7.0	21.5	502.8		24	46.9	48.3	48.0	**TSI Average = 47.7**
Median	19.8	2.5	5.0	19.7	502.0		25	46.8	46.4	47.1	
Min	11.0	1.5	3.5	15.6	436.0		13	44.1	42.9	43.8	
Max	22.5	3.0	14.3	36.0	577.0		31	54.1	56.7	55.8	
Count	12	13	12	13	13		13	13	12	13	

Langlois

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	5.3	21.20	11.9	492	P1	41	35.9	60.5	39.9	
6-May	12.5	5.5	5.73	8	428	P2	54	35.4	47.7	34.1	
20-May	15.5	6.3	4.83	8.4	295	P1	35	33.4	46.0	34.8	
2-Jun											No sample
16-Jun											No sample
30-Jun	20.5	5.8	4.13	6.7	282	NR	42	34.6	44.5	31.6	
15-Jul	25.0	6.5	3.04	5	343	None	69	33.0	41.5	27.4	Water very clear this time
30-Jul	22.5	6.5	2.40	6.3	334	None	53	33.0	39.2	30.7	
12-Aug	22.5	7.5	1.28	5	238	None	48	30.9	33.0	27.4	
25-Aug											No sample
9-Sep	18.0	8.5	1.20	5.6	298	None	53	29.1	32.4	29.0	
23-Sep											No sample
7-Oct	16.0	9.0	1.26	5.8	234	None	40	28.3	32.8	29.5	
21-Oct											No sample
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.1	6.8	5.0	7.0	327.1		48	32.6	41.9	31.6	**TSI Average = 35.4**
Median	18.0	6.5	3.0	6.3	298.0		48	33.0	41.5	30.7	
Min	10.0	5.3	1.2	5.0	234.0		35	28.3	32.4	27.4	
Max	25.0	9.0	21.2	11.9	492.0		69	35.9	60.5	39.9	
Count	9	9	9	9	9		9	9	9	9	

Leota

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	2.5	17.50	21.4	1110	P3	52	46.8	58.6	48.3	
5-May	12.0	4.0	2.28	9	980	P2	109	40.0	38.7	35.8	
19-May	15.5	4.0	1.82	17.4	806	P2	46	40.0	36.4	45.4	
2-Jun	19.0	4.8	1.88	11.7	592	P2	51	37.4	36.8	39.6	1/2 of the lake treated for water lilies
16-Jun	21.0	3.3	5.18	15.8	527	P2	33	42.8	46.7	44.0	
30-Jun	21.0	3.8	5.16	12.9	378	P2	29	40.7	46.7	41.0	
14-Jul	23.0	4.0	4.17	14.1	385	P2	27	40.0	44.6	42.3	Lots of green scum in AM. Gone by PM.
28-Jul	22.0	3.3	3.52	13.1	360	P2	27	42.8	42.9	41.3	
11-Aug	21.5	3.3	4.17	11.9	334	P2	28	42.8	44.6	39.9	
25-Aug	21.5	3.3	2.56	12.5	340	P2	27	42.8	39.8	40.6	
8-Sep	18.5	3.5	5.44	15.8	344	P2	22	41.9	47.2	44.0	
22-Sep	17.0	4.0	6.17	17.4	382	P2	22	40.0	48.4	45.4	
6-Oct	15.0	4.0	4.01	38.1	373	P2	10	40.0	44.2	56.7	
20-Oct	12.0	4.0	2.54	14.3	367	P2	26	40.0	39.7	42.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.9	3.7	4.7	16.1	519.8		36	41.3	43.9	43.3	**TSI Average = 42.9**
Median	18.8	3.9	4.1	14.2	379.8		28	40.4	44.4	42.4	
Min	11.0	2.5	1.8	9.0	334.0		10	37.4	36.4	35.8	
Max	23.0	4.8	17.5	38.1	1110.0		109	46.8	58.6	56.7	
Count	14	14	14	14	14		14	14	14	14	

Lucerne

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0		11.30	11.1	545	NR	49		54.4	38.9	Secchi not reported
5-May	11.0		15.40	7	484	NR	69		57.4	32.2	No Secchi disk
20-May	15.0	3.5	5.01	12.8	521	None	41	41.9	46.4	40.9	
3-Jun	18.5	5.0	1.10	11.7	387	NR	33	36.8	31.5	39.6	
16-Jun	21.0	4.0	2.58	8.7	344	None	40	40.0	39.9	35.4	
1-Jul	20.0	4.5	2.56	7.3	302	None	41	38.3	39.8	32.8	
14-Jul	22.0	4.0	3.20	7.1	325	NR	46	40.0	42.0	32.4	
30-Jul	17.5	4.5	1.60	7.9	363	NR	46	38.3	35.2	34.0	
11-Aug	17.5	5.0	3.52	5	283	Minimal	57	36.8	42.9	27.4	TP <MDL. Rec. as 5 µg/l in database. Bloom beginning.
26-Aug	18.0	4.8	2.56	6.4	288	None	45	37.4	39.8	30.9	
8-Sep	17.5	4.5	1.92	6.9	365	None	53	38.3	37.0	32.0	
22-Sep	7.0	4.0	2.08	11.7	430	None	37	40.0	37.8	39.6	
6-Oct	14.0	4.5	2.06	6.8	273	NR	40	38.3	37.7	31.8	
20-Oct	12.0	4.5	3.18	8.3	323	None	39	38.3	41.9	34.7	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	15.8	4.4	4.1	8.5	373.8		45	38.7	41.7	34.5	**TSI Average = 38.5**
Median	17.5	4.5	2.6	7.6	353.5		43	38.3	39.8	33.4	
Min	7.0	3.5	1.1	5.0	273.0		33	36.8	31.5	27.4	
Max	22.0	5.0	15.4	12.8	545.0		69	41.9	57.4	40.9	
Count	14	12	14	14	14		14	12	14	14	

Marcel

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.5	2.0	5.17	11.1	1140	C1	103	50.0	46.7	38.9	
5-May	11.8	2.5	7.59	9.7	1180	C1	122	46.8	50.5	36.9	
19-May	15.5	2.5	7.41	13.9	1010	C1	73	46.8	50.2	42.1	
2-Jun	19.5	2.2	7.91	13.3	790	C2	59	48.6	50.9	41.5	
16-Jun	20.5	3.2	1.68	15.3	704	C1	46	43.2	35.7	43.5	
30-Jun	20.8	3.7	2.09	13.15	531	None	40	41.1	37.8	41.3	
14-Jul	22.8	3.5	1.60	12.3	442	C1/P1	36	41.9	35.2	40.4	
28-Jul	21.8	3.2	3.84	13.7	486	C1/P1	35	43.2	43.8	41.9	
11-Aug	21.4	2.2	11.50	12.9	379	P2	29	48.6	54.5	41.0	
25-Aug	21.5	3.8	2.40	13.5	379	C1	28	40.7	39.2	41.7	
8-Sep	18.5	3.0	4.97	12	482	C1	40	44.1	46.3	40.0	
22-Sep	18.5	2.5	5.93	19.6	486	C1	25	46.8	48.0	47.1	
6-Oct	14.8	2.0	18.10	13.7	537	C1	39	50.0	59.0	41.9	
20-Oct	12.5	2.7	7.74	18.2	601	C2	33	45.7	50.6	46.0	Small green particles floating atop and in water
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.9	2.8	6.3	13.7	653.4		51	45.5	46.3	41.7	**TSI Average = 44.5**
Median	19.0	2.6	5.6	13.4	534.0		40	46.2	47.4	41.6	
Min	10.5	2.0	1.6	9.7	379.0		25	40.7	35.2	36.9	
Max	22.8	3.8	18.1	19.6	1180.0		122	50.0	59.0	47.1	
Count	14	14	14	14	14		14	14	14	14	

Margaret

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	9.0	4.3	3.06	7	442	None	63	39.0	41.5	32.2	
5-May	11.0	3.8	4.29	7.3	411	C1	56	40.7	44.9	32.8	
19-May	14.5	4.0	1.22	8.7	440	P2	51	40.0	32.5	35.4	
2-Jun	18.0	5.5	1.44	6.6	322	P1	49	35.4	34.1	31.4	
16-Jun	22.0	4.5	2.28	11.8	314	P1	27	38.3	38.7	39.8	
30-Jun	20.0	4.5	3.60	8.1	266	C1/P2	33	38.3	43.1	34.3	
14-Jul	24.0	3.5	3.10	7.85	227	C1	29	41.9	41.7	33.9	
28-Jul	22.0	3.8	3.47	8.7	242	P1	28	40.7	42.8	35.4	
11-Aug	21.5	4.3	1.60	6.3	200	C1/P2	32	39.0	35.2	30.7	
25-Aug	21.0	4.0	1.60	8.8	211	C1/P2	24	40.0	35.2	35.5	
8-Sep	18.0	3.3	2.40	7	241	C1/P1	34	42.8	39.2	32.2	
22-Sep	17.0	3.5	2.08	9.4	238	C1/P1	25	41.9	37.8	36.5	
6-Oct	16.0	3.5	3.04	9.5	372	P1	39	41.9	41.5	36.6	
20-Oct	13.0	4.0	11.50	9.9	292	C1	29	40.0	54.5	37.2	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.6	4.0	3.2	8.4	301.3		37	40.0	40.2	34.6	**TSI Average = 38.2**
Median	18.0	4.0	2.7	8.4	279.0		32	40.0	40.3	34.8	
Min	9.0	3.3	1.2	6.3	200.0		24	35.4	32.5	30.7	
Max	24.0	5.5	11.5	11.8	442.0		63	42.8	54.5	39.8	
Count	14	14	14	14	14		14	14	14	14	

McDonald

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	2.3	10.90	31.8	618	P2	19	48.0	54.0	54.1	
5-May	12.0		15.30	22.7	529		23		57.3	49.2	Secchi read improperly
19-May	16.0		4.85	16.7	431	None	26		46.1	44.8	Secchi read improperly
2-Jun											No sample
16-Jun	20.0	3.5	3.90	17.4	448	None	26	41.9	43.9	45.4	
30-Jun		2.8	10.40	17.9	417	P1	23	45.1	53.5	45.8	Temp not provided
14-Jul	23.0	3.8	1.92	13	441	None	34	40.7	37.0	41.2	
28-Jul	23.0	3.5	7.53	16	465	None	29	41.9	50.4	44.1	
11-Aug	23.0	3.8	2.24	10.6	412	None	39	40.7	38.5	38.2	
25-Aug	22.0	3.8	3.68	12.7	418	P1	33	40.7	43.4	40.8	
8-Sep	19.0	4.5	4.49	15.2	400	NR	26	38.3	45.3	43.4	
22-Sep	18.0	4.3	1.59	12.85	401	None	31	39.0	35.1	41.0	
6-Oct	16.0	6.0	2.54	12.8	397	None	31	34.1	39.7	40.9	
21-Oct	14.0	3.5	13.20	17.7	445	P1	25	41.9	55.9	45.6	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.0	3.8	6.3	16.7	447.8		28	41.1	46.2	44.2	**TSI Average = 43.8**
Median	18.5	3.8	4.5	16.0	431.0		26	40.7	45.3	44.1	
Min	10.0	2.3	1.6	10.6	397.0		19	34.1	35.1	38.2	
Max	23.0	6.0	15.3	31.8	618.0		39	48.0	57.3	54.1	
Count	12	11	13	13	13		13	11	13	13	

Meridian

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	5.0	6.03	8	361	P1	45	36.8	48.2	34.1	
6-May	12.0	5.0	5.27	5	317	None	63	36.8	46.9	27.4	
19-May	16.0	5.0	3.02	7.5	274	C1	37	36.8	41.4	33.2	
2-Jun	19.5	6.0	1.98	7.7	272	None	35	34.1	37.3	33.6	Heavy algae at boat launch area
16-Jun	21.5	4.8	1.48	8	294	P1	37	37.4	34.4	34.1	
30-Jun	21.0	5.0	1.39	7.2	264	P1	37	36.8	33.8	32.6	
14-Jul	23.0	4.5	1.76	5	310	None	62	38.3	36.1	27.4	
28-Jul	21.0	4.5	2.08	6.4	273	None	43	38.3	37.8	30.9	
12-Aug	23.0	5.0	1.60	6.8	281	NR	41	36.8	35.2	31.8	
25-Aug	22.5	5.0	1.60	6.4	280	None	44	36.8	35.2	30.9	
8-Sep	20.0	5.0	2.08	7.5	337	None	45	36.8	37.8	33.2	
22-Sep	20.0	5.5	1.12	6.2	314	P1	51	35.4	31.7	30.5	
7-Oct	17.0	5.0	1.83	6.3	281	None	45	36.8	36.5	30.7	
21-Oct	15.0	5.0	2.45	12.2	287	C1	24	36.8	39.4	40.2	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	18.7	5.0	2.4	7.2	296.1		43	36.7	38.0	32.2	**TSI Average = 35.6**
Median	20.0	5.0	1.9	7.0	284.0		43	36.8	36.9	32.2	
Min	10.0	4.5	1.1	5.0	264.0		24	34.1	31.7	27.4	
Max	23.0	6.0	6.0	12.2	361.0		63	38.3	48.2	40.2	
Count	14	14	14	14	14		14	14	14	14	

Mirror

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	11.0	4.5	4.73	11.4	341	P1	30	38.3	45.8	39.3	
6-May	12.0	4.5	4.67	7.3	282	P1	39	38.3	45.7	32.8	
20-May	17.0	6.0	1.74	8	265	P1	33	34.1	36.0	34.1	
3-Jun	19.5	5.0	2.34	7.7	300	None	39	36.8	38.9	33.6	
17-Jun	20.5	3.8	3.28	9.4	342	P2	36	40.7	42.2	36.5	
1-Jul	21.0	3.3	5.62	8.6	321	P3	37	42.8	47.5	35.2	
15-Jul	23.5	3.3	3.36	5.8	302	C2	52	42.8	42.5	29.5	
29-Jul	22.0	3.5	3.84	7.9	374	P2	47	41.9	43.8	34.0	
12-Aug	22.5	4.5	2.56	14.7	392	P1	27	38.3	39.8	42.9	
26-Aug			2.72	16.7	410	NR	25		40.4	44.8	Temp and Secchi not provided
9-Sep	20.0	3.5	4.65	7.4	386	P1	52	41.9	45.6	33.0	
23-Sep	18.5	4.0	4.48	8.85	392	C1	44	40.0	45.3	35.6	
7-Oct	16.0	4.0	3.68	9.4	462	P1	49	40.0	43.4	36.5	
21-Oct	13.5	5.0	3.65	28.9	422	P1	15	36.8	43.3	52.7	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.2	4.2	3.7	10.9	356.5		38	39.4	42.9	37.2	**TSI Average = 39.8**
Median	19.5	4.0	3.7	8.7	358.0		38	40.0	43.3	35.4	
Min	11.0	3.3	1.7	5.8	265.0		15	34.1	36.0	29.5	
Max	23.5	6.0	5.6	28.9	462.0		52	42.8	47.5	52.7	
Count	13	13	14	14	14		14	13	14	14	

Morton

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.0	2.3	22.10	17.1	467	None	27	48.0	60.9	45.1	
6-May	12.0	2.5	6.85	8.1	421	None	52	46.8	49.4	34.3	
19-May	17.0	3.8	2.86	7.2	395	C1	55	40.7	40.9	32.6	
2-Jun	20.5	3.5	1.72	8.2	360	C1	44	41.9	35.9	34.5	
16-Jun	22.0	4.0	1.60	11.8	485	None	41	40.0	35.2	39.8	
30-Jun	22.5	3.5	2.78	10.4	326	None	31	41.9	40.6	37.9	Algae recorded as "same as last sample"
14-Jul	24.0	3.8	1.60	5.1	332	None	65	40.7	35.2	27.6	Algae recorded as "same as last sample"
26-Jul	24.5	3.8	1.44	13.2	440	None	33	40.7	34.1	41.4	
11-Aug	23.0	4.0	1.76	5	397	None		40.0	36.1	27.4	TP <MDL. Recorded as 5
25-Aug	22.5	3.8	2.08	6.6	385	None	58	40.7	37.8	31.4	
8-Sep	20.0	3.3	3.52	7.1	404	None	57	42.8	42.9	32.4	Blue green bloom observed during last 10 days is gone
22-Sep	19.0	3.8	3.20	8.2	429	None	52	40.7	42.0	34.5	
6-Oct	16.0	4.0	2.86	15.5	394	None	25	40.0	40.9	43.7	
20-Oct	13.5	4.0	4.95	10.1	452	None	45	40.0	46.3	37.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	19.1	3.6	4.2	9.5	406.2		45	41.8	41.3	35.7	**TSI Average = 39.6**
Median	20.3	3.8	2.8	8.2	400.5		45	40.7	40.7	34.5	
Min	11.0	2.3	1.4	5.0	326.0		25	40.0	34.1	27.4	
Max	24.5	4.0	22.1	17.1	485.0		65	48.0	60.9	45.1	
Count	14	14	14	14	14		13	14	14	14	

Neilson

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.5	2.8	7.95	18	588	P2	33	45.1	50.9	45.8	
5-May	12.5	3.3	2.86	10	545	NR	55	42.8	40.9	37.4	
19-May	16.0	3.0	4.55	15.5	542	NR	35	44.1	45.4	43.7	
2-Jun	19.5	3.0	5.17	17.1	470	NR	27	44.1	46.7	45.1	
16-Jun	22.0	3.0	6.89	18.3	503	C1/P1	27	44.1	49.5	46.1	
30-Jun	21.5	2.5	7.51	19.3	525	C1/P1	27	46.8	50.3	46.9	
15-Jul	24.0	2.3	8.65	11.8	507	C1/P1	43	48.0	51.7	39.8	
28-Jul	21.5	2.0	26.30	19	579	C3/P2	30	50.0	62.6	46.6	
11-Aug	22.5	2.5	15.20	12.8	526	C3/P2	41	46.8	57.3	40.9	
26-Aug	22.5	2.8	2.56	13.2	490	C1/P1	37	45.1	39.8	41.4	
8-Sep	18.0	2.8	6.25	11.2	458	C1/P1	41	45.1	48.5	39.0	
22-Sep	18.5	3.0	9.08	10.8	463	NR	43	44.1	52.2	38.5	
6-Oct	15.0	3.0	13.45	17.3	547	C1/P1	32	44.1	56.1	45.3	
20-Oct	12.0	3.0	8.44	13.3	493	C1/P1	37	44.1	51.5	41.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.3	2.8	8.9	14.8	516.8		36	45.3	50.3	42.7	**TSI Average = 46.1**
Median	19.0	2.9	7.7	14.4	516.0		36	44.6	50.6	42.6	
Min	10.5	2.0	2.6	10.0	458.0		27	42.8	39.8	37.4	
Max	24.0	3.3	26.3	19.3	588.0		55	50.0	62.6	46.9	
Count	14	14	14	14	14		14	14	14	14	

North

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	12.0	0.9	45.50	27.3	714	P3	26	62.3	68.0	51.9	
6-May	13.0	1.5	10.80	13.1	508	P2	39	54.1	53.9	41.3	
19-May	16.0	2.3	2.59	14.9	532	C1	36	48.0	39.9	43.1	
2-Jun	22.0	2.3	1.44	20	502	None	25	48.0	34.1	47.4	
16-Jun	24.0	2.8	2.06	13.3	469	P2	35	45.1	37.7	41.5	
1-Jul	22.0	3.1	4.58	11.3	401	P2	35	43.7	45.5	39.1	
15-Jul			2.40	11.6	508		44		39.2	39.5	Missing datasheet
28-Jul	22.0	3.0	6.25	61.8	1440	C2		44.1	48.5		Exceptionally high TP and TN. Suspect sampling error.
12-Aug	25.0	2.8	3.04	9.8	520	None	53	45.1	41.5	37.1	
25-Aug	22.0	2.8	1.44	11	1060	None	96	45.1	34.1	38.7	Exceptionally high TN
8-Sep	20.0	2.3	5.93	8.6	467	None	54	48.0	48.0	35.2	
22-Sep	19.0	3.3	3.20	7.7	410	None	53	42.8	42.0	33.6	
6-Oct	17.0	4.5		7.6	359	C1	47	38.3		33.4	
20-Oct	14.1	5.0	3.87	9.3	414	C1	45	36.8	43.8	36.3	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	19.1	2.8	7.2	16.2	593.1		45	46.3	44.3	39.8	**TSI Average = 43.5**
Median	20.0	2.8	3.2	11.5	505.0		44	45.1	42.0	39.1	
Min	12.0	0.9	1.4	7.6	359.0		25	36.8	34.1	33.4	
Max	25.0	5.0	45.5	61.8	1440.0		96	62.3	68.0	51.9	
Count	13	13	13	14	14		13	13	13	13	

Paradise

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	9.0	2.0	19.10	22.3	713	C2	32	50.0	59.5	48.9	
6-May	9.5	2.0	23.10	21.7	717	C3	33	50.0	61.4	48.5	
20-May	14.0	2.0	24.10	25.1	621	P1/C2	25	50.0	61.8	50.6	
3-Jun		2.3	17.10	34.8	574	C1	16	48.0	58.4	55.4	No Temp provided
18-Jun	16.0	2.0	30.40	30.6	467	C2	15	50.0	64.1	53.5	
30-Jun	18.0	2.3	11.60	54.1	688	P2	13	48.0	54.6	61.7	
14-Jul	19.0	3.3	28.20	39.5	576	P3	15	42.8	63.3	57.2	
28-Jul	18.0	3.0	15.20	21.6	421	P2	19	44.1	57.3	48.5	
11-Aug	19.0	3.3	3.68	16	333	P1	21	42.8	43.4	44.1	Particles appear to be mostly zooplankton.
26-Aug											No sample
8-Sep	15.0	2.0	51.90	27	416	P1	15	50.0	69.3	51.7	
23-Sep	13.5	2.5	32.70	20	450	NR	23	46.8	64.8	47.4	
7-Oct	13.0	2.5	37.60	24.8	368	NR	15	46.8	66.2	50.5	
20-Oct	11.0	2.8	21.00	17.9	444	NR	25	45.1	60.4	45.8	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	14.6	2.5	24.3	27.3	522.2		21	47.3	60.3	51.1	**TSI Average = 52.9**
Median	14.5	2.3	23.1	24.8	467.0		19	48.0	61.4	50.5	
Min	9.0	2.0	3.7	16.0	333.0		13	42.8	43.4	44.1	
Max	19.0	3.3	51.9	54.1	717.0		33	50.0	69.3	61.7	
Count	12	13	13	13	13		13	13	13	13	

Pine

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.5	4.8	1.84	10.9	376	P2	34	37.4	36.6	38.6	
6-May	11.5	5.5	3.00	6.9	384	None	56	35.4	41.3	32.0	
19-May	15.5	6.0	1.94	7.8	352	None	45	34.1	37.1	33.8	
2-Jun	19.0	5.5	1.10	6.9	284	NR	41	35.4	31.5	32.0	
17-Jun	20.0	5.5	1.08	8.9	369	None	41	35.4	31.3	35.7	
1-Jul	21.0	6.3	2.26	8.7	305	NA	35	33.4	38.6	35.4	
15-Jul	22.0	6.0	1.76	5.8	305	None	53	34.1	36.1	29.5	
28-Jul	23.0	5.3	2.40	7.5	330	None	44	35.9	39.2	33.2	
11-Aug	23.0	4.8	1.92	5.4	309	None	57	37.4	37.0	28.5	
25-Aug	22.0	5.0	3.12	8.2	328	None	40	36.8	41.7	34.5	
8-Sep	19.5	4.0	5.13	9.3	375	None	40	40.0	46.6	36.3	
23-Sep	19.0	4.0	2.59	8.9	401	P1	45	40.0	39.9	35.7	
6-Oct	17.0	5.3	2.75	7.5	339	P1	45	35.9	40.5	33.2	
20-Oct	14.0	6.0	4.41	10	350	NA	35	34.1	45.1	37.4	blue-green algae bloom along shoreline on 19-Oct
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	18.4	5.3	2.5	8.1	343.3		44	36.1	38.7	34.0	**TSI Average = 36.3**
Median	19.3	5.4	2.3	8.0	344.5		43	35.7	38.9	34.1	
Min	10.5	4.0	1.1	5.4	284.0		34	33.4	31.3	28.5	
Max	23.0	6.3	5.1	10.9	401.0		57	40.0	46.6	38.6	
Count	14	14	14	14	14		14	14	14	14	

Pipe

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	11.0	4.8	4.53	12.1	642	None	53	37.4	45.4	40.1	
6-May	11.5	5.3	8.71	9.8	506	NR	52	35.9	51.8	37.1	
20-May	15.5	4.3	4.79	10.2	419	NR	41	39.0	45.9	37.7	
3-Jun	21.0	4.8	3.42	16	560	None	35	37.4	42.6	44.1	
17-Jun	19.5	5.3	3.84	9.1	413	None	45	35.9	43.8	36.0	
1-Jul	21.5	5.3	2.21	8.3	301	NR	36	35.9	38.3	34.7	
15-Jul	25.5	4.8	1.76	5.8	364	None	63	37.4	36.1	29.5	
29-Jul	22.0	6.0	1.44	7.8	361	None	46	34.1	34.1	33.8	
13-Aug	22.5	4.5	1.76	6.7	319	None	48	38.3	36.1	31.6	
26-Aug	24.5	5.0	2.24	10.5	399	None	38	36.8	38.5	38.1	
10-Sep	21.0	4.3	2.24	6.2	358	None	58	39.0	38.5	30.5	
23-Sep	19.5	5.5	1.44	7.3	354	None	48	35.4	34.1	32.8	
7-Oct											No sample
21-Oct	15.5	4.8	7.28	18.6	342	None	18	37.4	50.0	46.3	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	19.3	5.0	3.5	9.9	410.6		45	36.9	41.2	36.3	**TSI Average = 38.1**
Median	21.0	4.8	2.2	9.1	364.0		46	37.4	38.5	36.0	
Min	11.0	4.3	1.4	5.8	301.0		18	34.1	34.1	29.5	
Max	25.5	6.0	8.7	18.6	642.0		63	39.0	51.8	46.3	
Count	13	13	13	13	13		13	13	13	13	

Ravensdale

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	7.5	5.5	0.50	9.2	720	None	78	35.4	23.8	36.2	Chorophyll-*a* <MDL. Recorded as 0.5 µg/l
5-May											No Sample
19-May	7.0		1.36	7.1	682	NR	96		33.6	32.4	Secchi on bottom at 5m
2-Jun	9.5	4.0	1.78	7.2	614	NR	85	40.0	36.2	32.6	
16-Jun	9.5	4.3	1.54	10.7	651	NR	61	39.0	34.8	38.3	
30-Jun	11.0	3.8	6.15	9.8	591	C2	60	40.7	48.4	37.1	
14-Jul	8.0	4.5	5.61	16.4	671	C3	41	38.3	47.5	44.5	
28-Jul		4.3	2.72	11.5	543	C2	47	39.0	40.4	39.4	
11-Aug	10.5	4.0				C2/P1		40.0			No water sample
25-Aug	15.0	4.8	2.40	13.3	501	None	38	37.4	39.2	41.5	
8-Sep	14.0	4.8	7.53	20.2	742	NR	37	37.4	50.4	47.5	
22-Sep											No Sample
6-Oct											No Sample
20-Oct	10.0	4.3	3.04	11.25	630	None	56	39.0	41.5	39.1	Very clear water
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	10.2	4.4	3.3	11.7	634.5		60	38.6	39.6	38.9	**TSI Average = 39.0**
Median	9.8	4.3	2.6	11.0	640.3		58	39.0	39.8	38.7	
Min	7.0	3.8	0.5	7.1	501.0		37	35.4	23.8	32.4	
Max	15.0	5.5	7.5	20.2	742.0		96	40.7	50.4	47.5	
Count	10	10	10	10	10		10	10	10	10	

Retreat

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	9.0		4.05	8.7	723	None	83		44.3	35.4	Secchi was >6m; rope not long enough
5-May	11.5	8.0	2.56	5.9	699	None	118	30.0	39.8	29.8	
19-May	14.5	8.3	2.20	5.7	666	None	117	29.5	38.3	29.3	
2-Jun	19.0	8.0	1.38	6.3	522	None	83	30.0	33.7	30.7	
16-Jun	20.0	8.3	1.28	8.5	546	None	64	29.5	33.0	35.0	
30-Jun	20.5	7.5	1.44	7	488	None	70	30.9	34.1	32.2	
14-Jul	22.5	9.5	1.12	6.9	448	None	65	27.5	31.7	32.0	
28-Jul	23.0	8.3	1.60	6.2	473	P1	76	29.5	35.2	30.5	Algae recorded as 5-10 particles in 2L water
11-Aug	23.0	6.0	1.92	5.8	409	P2	71	34.1	37.0	29.5	Algae recorded as 15 particles in ~2L water
25-Aug	22.0	5.3	3.20	8.3	357	C2	43	35.9	42.0	34.7	
8-Sep	20.5	3.8	6.09	8	470	C2	59	40.7	48.3	34.1	
21-Sep		6.5	5.49	12	344	NR	29	33.0	47.3	40.0	Forgot to take temp.
7-Oct	17.0	4.3	6.09	10.6	295	P2	28	39.0	48.3	38.2	
20-Oct	14.5	4.3	14.55	11.85	457	P2	39	39.0	56.8	39.8	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	18.2	6.8	3.8	8.0	492.6		67	33.0	40.7	33.7	**TSI Average = 35.8**
Median	20.0	7.5	2.4	7.5	471.5		67	30.9	39.0	33.2	
Min	9.0	3.8	1.1	5.7	295.0		28	27.5	31.7	29.3	
Max	23.0	9.5	14.6	12.0	723.0		118	40.7	56.8	40.0	
Count	13	13	14	14	14		14	13	14	14	

Sawyer

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	9.5	2.3	10.70	11.7	621	C1/P1	53	48.0	53.8	39.6	
5-May	9.0	2.3	10.10	9.2	564	C1/P2	61	48.0	53.3	36.2	
19-May	15.0	3.0	9.41	9.9	499	C1	50	44.1	52.6	37.2	
2-Jun	18.5	2.8	7.37	10.8	410	C1/P1	38	45.1	50.2	38.5	
16-Jun	20.0	3.0	5.57	9.7	320	None	33	44.1	47.4	36.9	
30-Jun	20.5	2.8	3.11	8.5	238	None	28	45.1	41.7	35.0	
14-Jul	22.0	2.5	2.94	8.1	254	None	31	46.8	41.1	34.3	
28-Jul	21.8	4.3	2.08	7.2	239	None	33	39.0	37.8	32.6	
11-Aug	21.0	4.5	2.24	6.3	200	None	32	38.3	38.5	30.7	
25-Aug	21.0	4.0	2.72	8.1	223	None	28	40.0	40.4	34.3	
9-Sep	19.0	5.5	2.88	11.2	209	None	19	35.4	40.9	39.0	
24-Sep	17.5	6.3	2.17	8.6	241	None	28	33.4	38.2	35.2	
6-Oct	15.5	5.8	3.55	9.3	195	C1	21	34.6	43.0	36.3	
20-Oct	13.0	6.5	3.50	9.5	251	None	26	33.0	42.8	36.6	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.4	4.0	4.9	9.2	318.9		34	41.1	44.4	35.9	**TSI Average = 40.5**
Median	18.8	3.5	3.3	9.3	246.0		32	42.1	42.3	36.2	
Min	9.0	2.3	2.1	6.3	195.0		19	33.0	37.8	30.7	
Max	22.0	6.5	10.7	11.7	621.0		61	48.0	53.8	39.6	
Count	14	14	14	14	14		14	14	14	14	

Shadow

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	2.5	3.16	16.9	899	P2	53	46.8	41.9	44.9	
5-May	12.0	2.5	5.63	9.6	835	NR	87	46.8	47.5	36.8	
19-May	16.0	2.3	3.66	52.1	893	NR		48.0	43.3		TP value unusually high. Not used for N:P or TSI calcs.
2-Jun	19.0	2.8	3.54	14.7	693	50+	47	45.1	43.0	42.9	Algae change in appearance from round to hair-like
16-Jun	21.5	3.3	4.00	13.4	641	NR	48	42.8	44.2	41.6	
1-Jul	21.5	3.5	3.67	13.3	488	NR	37	41.9	43.3	41.5	
15-Jul	24.0	3.5	4.17	15.6	550	Yes	35	41.9	44.6	43.8	
28-Jul	22.0	3.3	3.84	10.6	481	NR	45	42.8	43.8	38.2	
11-Aug											
25-Aug	22.0	3.8	3.68	10.1	409	P1	40	40.7	43.4	37.5	
8-Sep	19.0	3.3	3.68	8.8	431	C1	49	42.8	43.4	35.5	
23-Sep	18.5	3.0	5.15	8.6	421	P2	49	44.1	46.6	35.2	
7-Oct	16.0	3.0	8.01	10.8	451	P2	42	44.1	51.0	38.5	
21-Oct	13.0	3.3	13.25	13.35	448	P1	34	42.8	55.9	41.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.0	3.1	5.0	15.2	587.7		47	43.9	45.5	39.8	**TSI Average = 43.1**
Median	19.0	3.3	3.8	13.3	488.0		46	42.8	43.8	40.0	
Min	10.0	2.3	3.2	8.6	409.0		34	40.7	41.9	35.2	
Max	24.0	3.8	13.3	52.1	899.0		87	48.0	55.9	44.9	
Count	13	13	13	13	13		12	13	13	12	

Shady

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.0	3.0	8.39	12	497	C1	41	44.1	51.4	40.0	
5-May	12.2	4.0	6.99	9.7	450	P1	46	40.0	49.6	36.9	
19-May	16.7	4.3	7.10	7.3	346	C1	47	39.0	49.8	32.8	
2-Jun		4.0	2.64	6.1	345	C1	57	40.0	40.1	30.2	
16-Jun	22.0	4.3	2.22	8.7	355	None	41	39.0	38.4	35.4	
30-Jun	23.0	4.0	3.25	7.3	299	P1	41	40.0	42.1	32.8	
14-Jul	24.4	4.0	1.76	5	302	P1	60	40.0	36.1	27.4	TP below MDL; Recorded as 5 µg/L
28-Jul	24.4	3.8	2.40	5.4	306	P2	57	40.7	39.2	28.5	
11-Aug	24.4	3.9	1.44	5	312	C1	62	40.4	34.1	27.4	TP below MDL; Recorded as 5 µg/L
25-Aug	22.2	4.5	1.92	6.7	303	C1	45	38.3	37.0	31.6	
8-Sep	20.0	5.2	1.80	5	330	None	66	36.2	36.3	27.4	TP below MDL; Recorded as 5 µg/L
22-Sep	18.9	5.5	1.54	9.8	315	None	32	35.4	34.8	37.1	
6-Oct	16.7	5.0	2.67	6.2	282	None	45	36.8	40.2	30.5	
20-Oct	15.5	5.0	2.52	7.8	315	P1	40	36.8	39.6	33.8	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	19.3	4.3	3.3	7.3	339.8		49	39.0	40.6	32.3	**TSI Average = 37.3**
Median	20.0	4.2	2.5	7.0	315.0		46	39.5	39.4	32.2	
Min	10.0	3.0	1.4	5.0	282.0		32	35.4	34.1	27.4	
Max	24.4	5.5	8.4	12.0	497.0		66	44.1	51.4	40.0	
Count	13	14	14	14	14		14	14	14	14	

Spring

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	11.5	2.0	4.49	13.8	708	P3	51	50.0	45.3	42.0	
5-May	13.0	2.0	2.36	27.9	761	NR	27	50.0	39.0	52.2	Water too rough to assess algae; difficult Secchi
19-May	17.5	1.8	3.36	9.9	605	NR	61	51.5	42.5	37.2	
2-Jun	21.0	1.8	5.44	12.1	535	NR	44	51.5	47.2	40.1	
16-Jun	22.5	1.8	5.93	11.7	498	P2	43	51.5	48.0	39.6	
30-Jun	22.5	2.0	5.85	13.1	365	P2	28	50.0	47.9	41.3	
14-Jul											No Sample
28-Jul	23.0	2.8	3.36	8.7	376	P1	43	45.1	42.5	35.4	
11-Aug	23.0	2.3	3.20	6.8	352	P1	52	48.0	42.0	31.8	
25-Aug	23.0	3.3	3.36	12.3	390	P2	32	42.8	42.5	40.4	
8-Sep	20.0	4.0	3.89	18.5	452	P3	24	40.0	43.9	46.2	
22-Sep	18.5	3.3	2.40	8.9	342	P2	38	42.8	39.2	35.7	
6-Oct	16.0	3.8	2.85	11.6	296	P2	26	40.7	40.8	39.5	
20-Oct	14.5	3.3	5.16	11.3	335	P3	30	42.8	46.7	39.1	
	Temp (°C)	**Secchi (m)**	**Chl-*a* (µg/l)**	**TP (µg/l)**	**TN (µg/l)**		**N:P**	**Calculated TSI Secc**	**chl-a**	**TP**	
Mean	18.9	2.6	4.0	12.8	462.7		38	46.7	43.6	40.0	**TSI Average = 43.4**
Median	20.0	2.3	3.4	11.7	389.5		38	48.0	42.5	39.6	
Min	11.5	1.8	2.4	6.8	296.0		24	40.0	39.0	31.8	
Max	23.0	4.0	5.9	27.9	761.0		61	51.5	48.0	52.2	
Count	13	13	13	13	13		13	13	13	13	

Star

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	12.5	4.3	7.33	10.1	451	None	45	39.0	50.1	37.5	
6-May	12.5	5.3	2.79	6.7	423	C1	63	35.9	40.6	31.6	
20-May	18.0	5.0	2.82	9.2	328	C2	36	36.8	40.7	36.2	
3-Jun	20.5	5.8	2.49	8.7	283	C1	33	34.6	39.5	35.4	
18-Jun	21.5	4.8	2.88	7.2	308	C1	43	37.4	40.9	32.6	
1-Jul	23.0	4.8	2.10	8.2	288	NR	35	37.4	37.8	34.5	
15-Jul											No Sample
29-Jul	24.5	4.5	1.28	7	287	C1	41	38.3	33.0	32.2	
12-Aug											No Sample
26-Aug	24.5	3.5	2.88	10	296	C2	30	41.9	40.9	37.4	
9-Sep	21.5	2.8	5.29	9.4	316	C2	34	45.1	46.9	36.5	
23-Sep	20.5	4.8	2.29	9.4	299	C2	32	37.4	38.7	36.5	
7-Oct	18.5	6.0	2.17	7.2	255	None	35	34.1	38.2	32.6	
22-Oct	16.0	6.3	2.57	17.5	272	None	16	33.4	39.8	45.4	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	19.5	4.8	3.1	9.2	317.2		37	37.6	40.6	35.7	**TSI Average = 37.7**
Median	20.5	4.8	2.7	9.0	297.5		35	37.4	40.2	35.8	
Min	12.5	2.8	1.3	6.7	255.0		16	33.4	33.0	31.6	
Max	24.5	6.3	7.3	17.5	451.0		63	45.1	50.1	45.4	
Count	12	12	12	12	12		12	12	12	12	

Steel

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
23-Apr	11.0	4.5	4.91	10.5	278	P1	26	38.3	46.2	38.1	
7-May			1.62	8.3	316	P1	38		35.3	34.7	Sample and algae assessed from end of fishing pier
20-May	17.0	5.5	2.14	9.6	239	P1	25	35.4	38.0	36.8	
3-Jun	20.0	5.5	1.44	7.1	277	None	39	35.4	34.1	32.4	
17-Jun	20.0	5.0	3.44	10.7	323	P2	30	36.8	42.7	38.3	
1-Jul	22.0	4.5	2.26	10.4	296	P1	28	38.3	38.6	37.9	
15-Jul	22.0	3.5	7.05	9.9	306	P3	31	41.9	49.7	37.2	algae was P1 two weeks ago
28-Jul	22.5	4.0	2.08	12.3	313	C1/P1	25	40.0	37.8	40.4	
12-Aug	22.0	3.8	2.40	9.9	369	C2/P2	37	40.7	39.2	37.2	
26-Aug	22.0	4.5	3.20	10.4	309	C2/P1	30	38.3	42.0	37.9	
9-Sep	20.0	3.8	6.01	9.9	370	C2/P1	37	40.7	48.2	37.2	
23-Sep	19.0	3.8	5.77	12.8	345	C1/P1	27	40.7	47.8	40.9	
7-Oct	16.0	4.5	6.51	15.6	318	C1/P1	20	38.3	48.9	43.8	
20-Oct	14.0	4.5	12.90	16.9	351	C1/P2	21	38.3	55.7	44.9	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	19.0	4.4	4.4	11.0	315.0		30	38.7	43.1	38.4	**TSI Average = 40.1**
Median	20.0	4.5	3.3	10.4	314.5		29	38.3	42.3	37.9	
Min	11.0	3.5	1.4	7.1	239.0		20	35.4	34.1	32.4	
Max	22.5	5.5	12.9	16.9	370.0		39	41.9	55.7	44.9	
Count	13	13	14	14	14		14	13	14	14	

Trout

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	11.0	1.8	14.70	24.8	1120	NR	45	51.5	56.9	50.5	
5-May	13.5	1.8	7.01	13.7	1060	NR	77	51.5	49.7	41.9	
20-May	16.0	1.8	7.51	19.3	1050	None	54	51.5	50.3	46.9	
3-Jun		1.8	5.11	16.5	965	None	58	51.5	46.6	44.6	
17-Jun	21.0	2.0	11.30	16.3	934	None	57	50.0	54.4	44.4	
1-Jul	21.5	2.0	5.54	15.3	843	None	55	50.0	47.4	43.5	
15-Jul	24.0	2.0	3.04	18.3	834	None	46	50.0	41.5	46.1	
29-Jul	24.0	2.0	8.01	17.4	741	NR	43	50.0	51.0	45.4	
12-Aug											No Sample
26-Aug	22.0	2.0	4.00	20.5	701	None	34	50.0	44.2	47.7	
9-Sep		3.5	6.73	19.2	724	None	38	41.9	49.3	46.8	No temp recorded
23-Sep	18.5	2.0	9.37	24.4	726	NR	30	50.0	52.5	50.2	
7-Oct	16.0	2.0	11.90	26.4	832	NR	32	50.0	54.9	51.4	
21-Oct	14.0	2.0	52.20	26.7	526	None	20	50.0	69.4	51.5	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.3	2.1	11.3	19.9	850.5		45	49.8	51.4	47.0	**TSI Average = 49.4**
Median	18.5	2.0	7.5	19.2	834.0		45	50.0	50.3	46.8	
Min	11.0	1.8	3.0	13.7	526.0		20	41.9	41.5	41.9	
Max	24.0	3.5	52.2	26.7	1120.0		77	51.5	69.4	51.5	
Count	11	13	13	13	13		13	13	13	13	

Twelve

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	3.5	1.96	9.1	575	None	63	41.9	37.2	36.0	
6-May	10.0	2.5	1.11	5.8	520	None	90	46.8	31.6	29.5	
20-May	15.0	4.8	1.07	8.2	403	P1	49	37.4	31.2	34.5	
3-Jun	20.0	4.3	0.18	8.9	603	None	68	39.0	13.7	35.7	
17-Jun	19.5	3.7	1.46	16.6	419	P2	25	41.1	34.3	44.7	
1-Jul	22.0	2.6	3.98	10.65	389	None	36	46.2	44.1	38.3	
15-Jul	24.0	2.6	4.65	11.7	525	NR	45	46.2	45.6	39.6	
29-Jul	24.0	2.0	11.10	8.3	420	None	51	50.0	54.2	34.7	
12-Aug	23.5	3.9	2.40	8.4	364	None	43	40.4	39.2	34.8	
26-Aug	23.0	3.1	5.45	8.6	367	None	43	43.7	47.2	35.2	
9-Sep	17.0	2.8	13.50	9.6	425	None	44	45.1	56.1	36.8	
23-Sep	17.0	1.7	26.30	11.6	472	NR	41	52.3	62.6	39.5	Water discolored lately; suspect algae bloom
7-Oct	14.0	0.8	74.90	22.7	749	C3	33	64.2	72.9	49.2	
21-Oct	13.0	0.6	56.30	18.1	536	NR	30	67.4	70.1	45.9	Lake color of sewer, has been all month, getting worse
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.0	2.8	14.6	11.3	483.3		47	47.3	45.7	38.2	**TSI Average = 43.7**
Median	18.3	2.7	4.3	9.4	448.5		44	45.7	44.9	36.4	
Min	10.0	0.6	0.2	5.8	364.0		25	37.4	13.7	29.5	
Max	24.0	4.8	74.9	22.7	749.0		90	67.4	72.9	49.2	
Count	14	14	14	14	14		14	14	14	14	

Walsh

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr											No Sample
5-May	11.0	3.1	1.90	8	466	C1	58	43.7	36.9	34.1	
19-May	7.0	3.0	3.34	8.4	434	None	52	44.1	42.4	34.8	
2-Jun	17.0	3.0	1.13	13.6	413	None	30	44.1	31.7	41.8	
17-Jun	19.5	3.5	3.62	10.3	365	None	35	41.9	43.2	37.8	
1-Jul	21.0	3.1	2.63	9.2	289	NR	31	43.7	40.1	36.2	Water clear compared to last sampling trip
15-Jul	22.0	4.5	4.49	10.4	217	None	21	38.3	45.3	37.9	
29-Jul	21.5	3.5	3.84	11.8	255	None	22	41.9	43.8	39.8	
11-Aug	22.0	3.0	4.17	9	186	None	21	44.1	44.6	35.8	
26-Aug	23.0	4.0	2.40	10.3	154	C1/P1	15	40.0	39.2	37.8	Floating oil sheen on water
8-Sep	18.0	4.0	2.40	8.8	234	None	27	40.0	39.2	35.5	
22-Sep	19.0	4.8	2.08	10.3	188	None	18	37.4	37.8	37.8	
7-Oct	15.0	5.8	3.09	8.6	187	C1	22	34.6	41.6	35.2	
20-Oct	14.0	4.5	4.93	10.7	178	C1/P1	17	38.3	46.2	38.3	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.7	3.8	3.1	10.0	274.3		28	40.9	40.9	37.1	**TSI Average = 39.7**
Median	19.0	3.5	3.1	10.3	234.0		22	41.9	41.6	37.8	
Min	7.0	3.0	1.1	8.0	154.0		15	34.6	31.7	34.1	
Max	23.0	5.8	4.9	13.6	466.0		58	44.1	46.2	41.8	
Count	13	13	13	13	13		13	13	13	13	

Welcome

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
22-Apr	10.0	1.6	5.43	16.1	637	NR	40	53.2	47.2	44.2	Secchi taken at dawn
5-May	11.9	1.9	10.10	11.6	632	NR	54	50.7	53.3	39.5	
19-May	15.7	2.4	4.94	13.7	553	NR	40	47.4	46.2	41.9	
3-Jun	19.0	2.6	1.42	14.2	516	NR	36	46.2	34.0	42.4	
16-Jun	21.2	2.5	8.25	15.3	518	NR	34	46.8	51.3	43.5	
30-Jun	21.2	2.4	12.30	12.8	417	NR	33	47.4	55.2	40.9	
14-Jul	23.0	1.9	5.61	12.4	399	NR	32	50.7	47.5	40.5	
28-Jul	22.2	2.0	19.40	17	526	Some	31	50.0	59.7	45.0	Some strands of algae. "Briny" look to water.
9-Aug	21.5	2.6	4.61	12.1	432	NR	36	46.2	45.6	40.1	
25-Aug	21.5	3.3	3.52	14.8	464	NR	31	42.8	42.9	43.0	
8-Sep	18.8	3.0	2.40	11.5	446	NR	39	44.1	39.2	39.4	
22-Sep	17.0	3.8	2.72	12.7	475	NR	37	40.7	40.4	40.8	
6-Oct	14.8	3.1	2.24	17.5	456	NR	26	43.7	38.5	45.4	
21-Oct	12.3	2.7	1.46	11.1	585	NR	53	45.7	34.3	38.9	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	17.9	2.6	6.0	13.8	504.0		37	46.8	45.4	41.8	**TSI Average = 44.7**
Median	18.9	2.6	4.8	13.3	495.5		36	46.5	45.9	41.4	
Min	10.0	1.6	1.4	11.1	399.0		26	40.7	34.0	38.9	
Max	23.0	3.8	19.4	17.5	637.0		54	53.2	59.7	45.4	
Count	14	14	14	14	14		14	14	14	14	

Wilderness

Date (2002)	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)	Algae Obsv.	N:P	Calculated TSI Secc	chl-a	TP	Notes
21-Apr	10.0	5.5	3.90	23.6	796	P1	34	35.4	43.9	49.8	
5-May	11.0	6.0	1.88	14.2	795	P1	56	34.1	36.8	42.4	
19-May	15.0	5.0	3.69	16.3	720	P1	44	36.8	43.4	44.4	
2-Jun	18.0	7.0	1.80	10.9	563	None	52	31.9	36.3	38.6	
16-Jun	21.0	5.0	6.89	15.3	489	P2	32	36.8	49.5	43.5	
30-Jun	21.0	4.5	7.37	12.6	324	P2	26	38.3	50.2	40.7	
14-Jul	23.5	3.3	4.65	16.15	285	P2	18	42.8	45.6	44.3	
28-Jul	22.5	6.8	2.40	13.6	312	P1	23	32.3	39.2	41.8	
11-Aug	22.5	6.8	2.56	13.9	244	P1	18	32.3	39.8	42.1	
25-Aug	22.0	6.5	2.56	13.1	255	P2	19	33.0	39.8	41.3	
8-Sep	19.0	4.3	9.77	20.2	322	P1	16	39.0	52.9	47.5	
22-Sep	19.0	5.5	5.74	18	304	P1	17	35.4	47.7	45.8	
6-Oct	17.0	8.0	1.80	14.9	227	none	15	30.0	36.3	43.1	
20-Oct	14.5	6.5	10.50	24.7	330	P2	13	33.0	53.6	50.4	
	Temp (°C)	Secchi (m)	Chl-*a* (µg/l)	TP (µg/l)	TN (µg/l)		N:P	Calculated TSI Secc	chl-a	TP	
Mean	18.3	5.8	4.7	16.2	426.1		27	35.1	43.9	44.0	**TSI Average = 41**
Median	19.0	5.8	3.8	15.1	323.0		21	34.8	43.6	43.3	
Min	10.0	3.3	1.8	10.9	227.0		13	30.0	36.3	38.6	
Max	23.5	8.0	10.5	24.7	796.0		56	42.8	53.6	50.4	
Count	14	14	14	14	14		14	14	14	14	