

Appendix 4

Fish Lake
Lake Water Quality Data

	A	B	C	D	E	F	G	H	I	J	K
1	Date	Depth (m)	Temp (°C)	SpCond (µS/cm)	pH	Secchi (m)	DO (mg/L)	DO (%)	TP (mg/L)	TN (mg/L)	CHL_A (µg/L)
2	4/18/2006	0.0	12.2	428	8.29	0.99	16.38	152.8	0.118	1.46	58.7
3	4/18/2006	1.0	12.1	426	8.34	0.99	15.69	146.1			
4	4/18/2006	2.0	12.0	425	8.36	0.99	15.61	145.2			
5	4/18/2006	3.0	11.4	425	8.35	0.99	15.27	139.9			
6	4/18/2006	4.0	10.9	424	8.31	0.99	14.45	130.8			
7	4/18/2006	5.0	10.4	426	8.25	0.99	13.65	122.2			
8	4/18/2006	6.0	7.8	419	8.12	0.99	11.12	93.5			
9	4/18/2006	7.0	7.5	417	8.03	0.99	8.29	69.3			
10	4/18/2006	8.0	7.2	415	7.96	0.99	7.50	62.1			
11	4/18/2006	9.0	6.8	414	7.86	0.99	6.83	56.1			
12	4/18/2006	10.0	6.5	413	7.77	0.99	5.94	48.4			
13	4/18/2006	11.0	5.7	420	7.69	0.99	4.36	34.8			
14	4/18/2006	12.0	5.3	429	7.63	0.99	2.48	19.6			
15	4/18/2006	13.0	5.1	436	7.57	0.99	0.98	7.7			
16	4/18/2006	13.5	4.9	462	7.33	0.99	0.74	5.8			
17	5/1/2006	0.0	13.2	424	7.46	1.46	11.79	112.5	0.079	1.84	22.2
18	5/1/2006	1.0	13.0	422	7.54	1.46	12.06	114.7			
19	5/1/2006	2.0	12.9	421	7.60	1.46	12.08	114.5			
20	5/1/2006	3.0	12.7	421	7.61	1.46	11.91	112.5			
21	5/1/2006	4.0	12.5	421	7.61	1.46	11.64	109.3			
22	5/1/2006	5.0	11.9	428	7.59	1.46	11.17	103.5			
23	5/1/2006	6.0	8.3	444	7.40	1.46	5.25	44.7			
24	5/1/2006	7.0	7.5	442	7.26	1.46	1.97	16.4			
25	5/1/2006	8.0	7.5	442	7.19	1.46	1.55	12.9			
26	5/1/2006	9.0	7.0	441	7.13	1.46	1.42	11.7			
27	5/1/2006	10.0	6.8	441	7.08	1.46	1.39	11.4			
28	5/1/2006	11.0	6.3	448	7.07	1.46	1.21	9.8			
29	5/1/2006	12.0	5.7	462	6.99	1.46	0.77	6.2			
30	5/1/2006	13.0	5.6	467	6.98	1.46	0.64	5.1			
31	5/1/2006	13.5	5.5	489	6.76	1.46	0.53	4.2			
32	5/17/2006	0.0	15.1	443	7.63	2.19	17.70	176.1	0.047	1.05	10.1
33	5/17/2006	1.0	15.1	447	7.69	2.19	17.64	175.5			
34	5/17/2006	2.0	14.8	447	7.81	2.19	16.19	160.2			
35	5/17/2006	3.0	14.4	448	7.90	2.19	15.91	156.1			
36	5/17/2006	4.0	14.3	447	7.92	2.19	15.38	150.4			
37	5/17/2006	5.0	14.2	447	7.89	2.19	15.21	148.3			
38	5/17/2006	6.0	12.1	454	7.85	2.19	9.28	86.4			
39	5/17/2006	7.0	11.4	457	7.85	2.19	5.97	54.7			
40	5/17/2006	8.0	9.6	468	7.82	2.19	0.27	2.3			
41	5/17/2006	9.0	7.0	482	7.82	2.19	-2.02	-16.6			
42	5/17/2006	10.0	6.6	490	7.84	2.19	-3.09	-25.2			
43	5/17/2006	11.0	6.4	492	7.85	2.19	-1.34	-10.9			
44	5/17/2006	12.0	6.3	495	7.87	2.19	-3.16	-25.6			
45	5/17/2006	13.0	6.0	552	7.80	2.19	-4.14	-33.3			
46	5/17/2006	13.1	6.0	554	7.82	2.19	-3.62	-29.1			
47	5/31/2006	0.0	26.0	459	7.98	2.14	12.22	150.6	0.047	0.92	18.4
48	5/31/2006	1.0	24.0	454	8.07	2.14	12.27	146.1			
49	5/31/2006	2.0	23.8	454	8.08	2.14	11.73	138.9			
50	5/31/2006	3.0	22.3	461	7.94	2.14	9.11	104.9			
51	5/31/2006	4.0	19.0	462	7.92	2.14	8.31	89.6			
52	5/31/2006	5.0	14.4	461	7.81	2.14	5.33	52.2			
53	5/31/2006	6.0	13.0	464	7.74	2.14	1.79	17.0			
54	5/31/2006	7.0	11.2	473	7.76	2.14	0.98	9.0			
55	5/31/2006	8.0	9.7	480	7.77	2.14	0.61	5.4			

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56	5/31/2006	9.0	7.8	493	7.80	2.14	0.57	4.8			
57	5/31/2006	10.0	6.7	507	7.81	2.14	0.51	4.1			
58	5/31/2006	11.0	6.6	509	7.81	2.14	0.48	3.9			
59	5/31/2006	12.0	6.1	523	7.81	2.14	0.45	3.7			
60	5/31/2006	12.5	6.0	539	7.74	2.14	0.44	3.6			
61	6/12/2006	0.0	23.0	416	8.22	1.72	10.22	119.2	0.038	1.09	17.2
62	6/12/2006	1.0	21.6	414	8.26	1.72	9.91	112.6			
63	6/12/2006	2.0	21.1	413	8.26	1.72	9.77	110.0			
64	6/12/2006	3.0	20.8	414	8.21	1.72	8.85	98.9			
65	6/12/2006	4.0	20.5	417	8.02	1.72	7.31	81.3			
66	6/12/2006	5.0	15.3	430	7.63	1.72	1.27	12.6			
67	6/12/2006	6.0	12.9	433	7.67	1.72	0.84	8.0			
68	6/12/2006	7.0	11.5	439	7.67	1.72	0.65	5.9			
69	6/12/2006	8.0	10.1	444	7.68	1.72	0.63	5.6			
70	6/12/2006	9.7	7.6	463	7.65	1.72	0.57	4.7			
71	6/26/2006	0.0	25.0	418	8.27	1.15	11.31	137.1	0.037	1.39	16.7
72	6/26/2006	1.0	24.3	418	8.32	1.15	11.23	134.3			
73	6/26/2006	2.0	24.0	420	8.31	1.15	10.51	125.0			
74	6/26/2006	3.0	23.9	420	8.26	1.15	9.63	114.3			
75	6/26/2006	4.0	22.3	433	7.71	1.15	2.57	29.6			
76	6/26/2006	5.0	18.8	448	7.79	1.15	0.93	10.0			
77	6/26/2006	6.0	14.7	457	7.94	1.15	0.64	6.3			
78	6/26/2006	7.0	12.0	464	8.01	1.15	0.61	5.7			
79	6/26/2006	8.0	10.1	474	8.07	1.15	0.51	4.5			
80	6/26/2006	9.0	8.7	483	8.09	1.15	0.46	4.0			
81	6/26/2006	10.0	7.3	500	8.11	1.15	0.48	3.9			
82	6/26/2006	11.0	6.9	505	8.11	1.15	0.42	3.5			
83	6/26/2006	11.7	6.6	526	8.02	1.15	0.42	3.4			
84	7/10/2006	0.0	26.0	403	8.67	0.87	10.71	132.1	0.041	1.10	28.4
85	7/10/2006	1.0	25.6	402	8.71	0.87	10.47	128.2			
86	7/10/2006	2.0	25.0	403	8.64	0.87	9.67	117.1			
87	7/10/2006	3.0	24.8	403	8.60	0.87	9.10	109.8			
88	7/10/2006	4.0	23.3	410	7.92	0.87	3.30	38.8			
89	7/10/2006	5.0	17.7	432	7.75	0.87	0.90	9.5			
90	7/10/2006	6.0	15.0	436	7.71	0.87	0.64	6.3			
91	7/10/2006	7.0	11.4	455	7.53	0.87	0.40	3.7			
92	7/10/2006	8.0	10.6	453	7.48	0.87	0.38	3.4			
93	7/10/2006	9.0	9.0	462	7.38	0.87	0.32	2.8			
94	7/10/2006	10.0	7.8	475	7.32	0.87	0.30	2.6			
95	7/10/2006	11.0	6.6	489	7.25	0.87	0.27	2.2			
96	7/10/2006	12.0	6.5	491	7.22	0.87	0.25	2.1			
97	7/10/2006	12.7	6.4	507	7.07	0.87	0.23	1.8			
98	7/24/2006	0.0	28.1	393	8.67	0.45	11.28	144.4	0.053	1.79	47.3
99	7/24/2006	1.0	27.0	392	8.81	0.45	12.67	159.3			
100	7/24/2006	2.0	26.0	396	8.64	0.45	10.44	128.9			
101	7/24/2006	3.0	25.0	405	8.24	0.45	5.72	69.3			
102	7/24/2006	4.0	23.6	412	7.79	0.45	0.93	11.0			
103	7/24/2006	5.0	21.0	430	7.73	0.45	0.85	9.5			
104	7/24/2006	6.0	16.0	446	7.61	0.45	0.39	4.0			
105	7/24/2006	7.0	12.1	464	7.50	0.45	0.37	3.5			
106	7/24/2006	8.0	9.9	470	7.34	0.45	0.27	2.4			
107	7/24/2006	9.0	8.9	473	7.29	0.45	0.23	2.0			
108	7/24/2006	10.0	7.7	487	7.23	0.45	0.22	1.8			
109	7/24/2006	11.0	7.0	494	7.20	0.45	0.20	1.7			

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110	7/24/2006	12.0	6.7	499	7.17	0.45	0.19	1.5			
111	7/24/2006	12.8	6.6	505	7.03	0.45	0.17	1.4			
112	8/7/2006	0.0	27.2	441	8.28	0.65	11.67	147.1	0.037	1.65	50.4
113	8/7/2006	1.0	27.0	440	8.44	0.65	12.00	150.7			
114	8/7/2006	2.0	26.4	441	8.40	0.65	11.23	139.4			
115	8/7/2006	3.0	26.1	441	8.27	0.65	9.51	117.6			
116	8/7/2006	4.0	25.6	446	7.92	0.65	6.41	78.6			
117	8/7/2006	5.0	19.8	503	7.62	0.65	0.99	10.8			
118	8/7/2006	6.0	15.5	516	7.38	0.65	0.42	4.2			
119	8/7/2006	7.0	12.8	524	7.22	0.65	0.30	2.9			
120	8/7/2006	8.0	10.8	529	7.11	0.65	0.27	2.4			
121	8/7/2006	9.0	8.9	541	6.99	0.65	0.21	1.8			
122	8/7/2006	10.0	7.6	556	6.91	0.65	0.19	1.6			
123	8/7/2006	11.0	7.1	562	6.88	0.65	0.20	1.6			
124	8/7/2006	12.0	6.9	570	6.69	0.65	0.16	1.3			
125	8/21/2006	0.0	26.0	435	8.62	0.51	12.12	149.4	0.044	1.53	62.9
126	8/21/2006	1.0	24.3	431	8.84	0.51	12.91	154.4			
127	8/21/2006	2.0	23.6	433	8.76	0.51	11.21	132.4			
128	8/21/2006	3.0	23.4	436	8.59	0.51	8.69	102.1			
129	8/21/2006	4.0	23.1	439	8.41	0.51	6.70	78.3			
130	8/21/2006	5.0	22.5	446	8.12	0.51	3.00	34.7			
131	8/21/2006	6.0	16.7	514	7.78	0.51	0.55	5.7			
132	8/21/2006	7.0	14.2	515	7.69	0.51	0.40	3.9			
133	8/21/2006	8.0	12.1	523	7.60	0.51	0.29	2.7			
134	8/21/2006	9.0	10.1	528	7.52	0.51	0.25	2.2			
135	8/21/2006	10.0	8.1	545	7.42	0.51	0.21	1.8			
136	8/21/2006	11.0	7.5	550	7.38	0.51	0.21	1.8			
137	8/21/2006	12.0	7.2	557	7.35	0.51	0.20	1.7			
138	8/21/2006	12.4	6.9	573	7.14	0.51	0.17	1.4			
139	9/6/2006	0.0	24.4	422	8.01	0.78	10.80	129.4	0.036	1.47	20.1
140	9/6/2006	1.0	22.9	419	8.35	0.78	10.93	127.4			
141	9/6/2006	2.0	22.0	421	8.21	0.78	8.13	93.1			
142	9/6/2006	3.0	21.7	424	8.00	0.78	5.67	64.6			
143	9/6/2006	4.0	21.5	424	7.95	0.78	5.10	57.9			
144	9/6/2006	5.0	21.0	425	7.83	0.78	2.06	23.2			
145	9/6/2006	6.0	19.1	501	7.76	0.78	0.48	5.2			
146	9/6/2006	7.0	15.0	527	7.71	0.78	0.27	2.7			
147	9/6/2006	8.0	12.2	521	7.60	0.78	0.24	2.2			
148	9/6/2006	9.0	10.8	517	7.53	0.78	0.22	2.0			
149	9/6/2006	10.0	9.0	529	7.45	0.78	0.20	1.7			
150	9/6/2006	11.0	7.8	539	7.39	0.78	0.19	1.6			
151	9/6/2006	12.0	7.5	544	7.35	0.78	0.16	1.3			
152	9/6/2006	13.0	7.2	550	7.30	0.78	0.15	1.3			
153	9/6/2006	14.0	7.1	555	7.26	0.78	0.14	1.2			
154	9/6/2006	14.8	7.0	586	7.09	0.78	0.13	1.1			
155	9/25/2006	0.0	16.2	395	7.68	1.65	7.44	75.8	0.074	1.73	21.2
156	9/25/2006	1.0	16.0	394	7.70	1.65	7.07	71.7			
157	9/25/2006	2.0	15.9	394	7.71	1.65	7.00	70.8			
158	9/25/2006	3.0	15.8	393	7.72	1.65	6.97	70.4			
159	9/25/2006	4.0	15.7	393	7.73	1.65	6.89	69.5			
160	9/25/2006	5.0	15.6	393	7.74	1.65	6.53	65.7			
161	9/25/2006	6.0	15.5	394	7.74	1.65	5.62	56.4			
162	9/25/2006	7.0	15.3	396	7.73	1.65	4.94	49.4			
163	9/25/2006	8.0	13.9	436	7.45	1.65	0.20	1.9			

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	A	B	C	D	E	F	G	H	I	J	K
1	Date	Depth (m)	Temp (°C)	SpCond (µS/cm)	pH	Secchi (m)	DO (mg/L)	DO (%)	TP (mg/L)	TN (mg/L)	CHL_A (µg/L)
164	9/25/2006	9.0	10.3	474	7.40	1.65	0.19	1.7			
165	9/25/2006	10.0	8.7	479	7.35	1.65	0.15	1.3			
166	9/25/2006	11.0	8.4	481	7.33	1.65	0.16	1.3			
167	9/25/2006	12.0	7.5	496	7.25	1.65	0.13	1.0			
168	9/25/2006	12.0	7.4	503	7.21	1.65	0.12	1.0			
169	10/10/2006	0.0	14.3	420	7.93	1.35	6.38	62.3	0.089	1.81	42.9
170	10/10/2006	1.0	14.3	419	7.97	1.35	6.25	61.1			
171	10/10/2006	2.0	14.2	419	7.99	1.35	6.20	60.6			
172	10/10/2006	3.0	14.1	419	8.01	1.35	6.02	58.6			
173	10/10/2006	4.0	14.1	419	8.02	1.35	5.82	56.6			
174	10/10/2006	5.0	14.0	419	8.01	1.35	5.74	55.8			
175	10/10/2006	6.0	14.0	420	8.01	1.35	5.59	54.3			
176	10/10/2006	7.0	13.9	421	7.99	1.35	5.41	52.4			
177	10/10/2006	8.0	13.8	425	7.97	1.35	4.98	48.1			
178	10/10/2006	9.0	13.0	435	7.84	1.35	3.22	30.6			
179	10/10/2006	10.0	8.3	515	7.64	1.35	0.93	7.9			
180	10/10/2006	11.0	7.7	517	7.53	1.35	0.40	3.4			
181	10/10/2006	12.0	7.4	538	7.38	1.35	0.21	1.7			
310											
311											
312											