

## **APPENDIX I. WATER QUALITY TESTS FOR LONG POND SOUTH**

**Physical Tests: Temperature (° C) and dissolved oxygen (ppm) at Site 1. Data were collected by CEAT May – September 2007.**

Depth (m)	31-May-07		7-Jun-07		14-Jun-07		21-Jun-07		27-Jun-07		3-Jul-07		11-Jul-07	
	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO
0	-	-	-	-	-	-	-	9.4	-	-	21.0	9.0	21.4	8.3
1	13.3	17.1	17.1	11.4	19.2	10.5	21.2	9.9	22.9	8.1	21.0	9.1	21.3	8.3
2	10.3	16.7	17.1	11.1	19.1	10.2	21.1	9.9	22.5	8.2	20.7	9.2	21.3	8.2
3	10.3	16.2	17.0	11.0	19.0	10.2	21.0	9.8	21.6	8.2	20.6	9.2	21.3	8.2
4	10.4	15.7	16.8	11.0	18.7	10.2	20.9	9.8	20.1	8.2	20.6	9.2	21.1	8.2
5	10.7	14.5	16.8	10.8	16.5	10.3	18.8	10.0	19.4	8.2	20.5	9.2	21.0	7.9
6	11.1	12.8	13.5	11.4	14.8	10.6	15.1	10.5	17.0	8.1	17.0	8.9	18.2	6.9
7	11.2	11.3	11.9	11.5	12.1	11.0	12.8	10.5	12.7	7.7	13.6	8.3	14.6	5.9
8	11.0	10.9	11.3	11.3	11.0	10.4	11.5	10.3	11.7	7.5	12.2	7.8	12.4	5.5
9	10.9	10.5	10.8	11.1	10.8	10.2	10.9	10.2	11.0	7.2	11.3	7.7	11.5	5.7
10	10.8	9.8	10.2	10.8	10.3	9.9	10.5	9.4	10.6	7.2	10.9	7.6	10.9	5.6
11	10.7	9.4	9.8	10.7	9.9	9.9	10.2	9.4	10.3	7.2	10.5	7.6	10.6	5.8
12	10.6	9.0	9.5	10.6	9.4	10.1	9.9	9.5	9.9	7.3	10.0	7.5	10.2	6.0
13	10.6	8.6	8.9	10.7	8.8	10.5	9.3	9.8	9.4	7.7	9.6	7.6	9.7	6.5
14	10.6	8.0	8.2	10.9	7.8	10.8	8.6	10.0	8.3	8.0	8.5	8.1	8.2	7.8
15	10.8	7.1	7.2	11.2	7.2	10.9	7.8	10.3	7.5	8.2	8.1	8.5	7.8	8.2
16	10.8	6.9	7.0	11.2	7.1	10.9	7.2	10.5	7.2	8.3	7.2	8.7	7.4	8.7
17	10.8	6.7	6.9	11.2	6.8	11.0	6.8	10.8	7.0	8.4	7.0	8.7	7.1	8.7
18	10.8	6.6	6.7	11.2	6.7	10.9	6.7	11.0	6.9	8.4	6.7	8.7	6.9	8.6
19	10.8	6.6	6.5	11.1	6.6	10.9	6.6	11.0	6.7	8.3	6.7	8.8	6.7	8.6
20	10.8	6.5	6.5	11.1	6.5	10.8	6.5	10.8	6.5	8.3	6.5	8.8	6.5	8.5
21	10.5	6.4	6.4	11.1	6.5	10.8	6.4	10.7	6.4	8.2	6.4	8.8	6.5	8.4
22	10.5	6.4	6.3	11.1	6.3	10.8	6.4	10.7	6.4	8.1	6.3	8.7	6.4	8.3
23	10.5	6.3	6.3	11.1	6.3	10.7	6.3	10.7	6.3	8.1	6.3	8.6	6.3	8.1
24	10.6	6.2	6.2	11.0	6.2	10.7	6.3	10.7	6.3	8.0	6.3	8.6	6.3	7.5
25	10.5	6.2	6.2	10.9	6.2	10.4	6.2	10.6	6.2	7.7	6.2	8.5	6.2	7.1
26	10.4	6.2	6.2	10.8	6.2	10.2	6.2	10.2	6.2	7.4	6.2	8.3	6.2	5.1
27	6.7	6.1	6.1	10.5	-	-	6.1	9.8	6.1	7.1	6.1	8.2	6.1	4.1
28	-	-	6.1	9.9	-	-	-	-	6.1	6.4	-	8.0	6.1	3.9
28.5	-	-	6.1	9.2	-	-	6.3	2.6	6.1	1.2	-	3.1*	6.1	0.1

**APPENDIX I (continued)**

**Temperature and DO at Site 1 17-July-07 through 13-September-2007.**

Depth (m)	17-Jul-07*		25-Jul-07*		1-Aug-07*		9-Aug-07*		16-Aug-07*		23-Aug-07*		13-Sept-07	
	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO
0	24.1	8.3	24.4	8.8	27.3	8.1	23.4	8.1	23.4	8.2	21.7	8.2	20.2	10.2
1	23.3	8.3	23.7	8.7	27.0	8.3	-	-	23.3	8.2	21.7	7.9	20.2	10.2
2	23.1	8.2	23.6	8.6	26.6	8.6	23.5	8.0	23.2	8.2	21.7	8.0	20.2	10.2
3	22.8	8.2	23.5	8.6	25.4	9.0	-	-	23.1	8.2	21.7	8.0	20.2	10.2
4	22.2	8.2	23.2	8.5	23.9	9.0	23.4	7.9	23.1	8.1	21.7	8.0	20.2	10.2
5	21.3	7.9	21.2	7.6	21.7	8.2	-	-	23.0	8.1	21.7	8.1	20.2	10.2
6	18.5	6.9	18.8	6.6	19.0	6.7	18.9	5.8	20.7	6.0	21.2	7.6	20.1	10.1
7	15.0	5.9	15.9	5.2	16.1	5.3	-	-	17.2	4.4	18.9	5.2	19.9	10.1
8	13.1	5.5	13.0	5.2	13.7	4.8	13.5	3.8	14.0	3.4	14.9	3.1	19.1	9.3
9	11.8	5.7	12.0	5.3	12.2	4.7	-	-	12.5	3.5	13.0	2.6	13.7	4.7
10	11.3	5.6	11.4	5.3	11.4	5.1	11.9	3.9	11.7	3.6	12.2	2.7	12.7	2.5
11	10.9	5.8	10.7	5.3	10.8	5.5	-	-	11.2	3.8	11.6	2.9	11.8	2.4
12	10.1	6.0	10.2	5.9	10.3	5.6	10.6	4.7	10.7	4.0	10.9	3.4	11.1	2.5
13	9.3	6.5	10.0	6.6	9.7	6.5	-	-	9.9	5.0	10.0	3.9	10.2	3.2
14	8.5	7.8	8.9	7.4	8.9	7.5	8.6	5.9	8.8	6.5	8.5	5.7	9.1	4.3
15	7.8	8.2	8.1	8.4	8.0	8.6	-	-	8.0	7.4	8.0	6.7	8.2	5.6
16	7.3	8.7	7.3	8.7	7.3	8.9	7.4	7.5	7.4	7.6	7.5	7.2	7.6	6.8
17	6.9	8.7	6.9	8.9	7.0	8.8	-	-	7.1	7.7	7.1	7.6	7.2	7.3
18	6.7	8.6	6.8	8.9	6.8	8.8	6.7	8.5	6.9	8.0	6.8	7.3	7.0	8.1
19	6.6	8.6	6.6	8.9	6.5	8.8	-	-	6.7	8.0	6.7	7.7	6.8	8.1
20	6.5	8.5	6.5	8.8	6.5	8.7	6.6	8.3	6.6	8.0	6.6	7.4	6.6	8.1
21	6.4	8.4	6.4	9.1	6.4	8.7	-	-	6.5	7.7	6.5	7.3	6.5	7.9
22	6.3	8.3	6.4	8.8	6.4	8.9	6.5	7.8	6.5	7.6	6.5	7.2	6.4	7.8
23	6.2	8.1	6.3	8.0	6.3	8.2	-	-	6.4	7.3	6.4	7.0	6.4	7.5
24	6.2	7.5	6.3	7.7	6.2	7.7	6.3	7.7	6.3	7.0	6.3	6.4	6.3	7.2
25	6.2	7.1	6.3	7.4	6.2	7.1	-	-	6.3	6.5	6.3	5.8	6.3	6.3
26	6.1	5.1	6.2	5.0	6.1	6.5	6.2	6.3	6.2	5.6	6.3	4.8	6.2	5.8
27	6.1	4.1	6.1	4.0	6.1	4.4	-	-	6.1	4.8	6.2	3.5	6.2	4.3
28	6.1	3.9	6.1	2.2	6.1	2.6	-	2.0	-	2.1	6.2	2.0	6.2	1.8
28.5	6.1	0.1	6.2	-	-	-	-	-	-	0.2	-	0.1	6.2	0.1

\*readings from separate DO meter

**APPENDIX I (continued)**

**Physical Parameters: Temperature (° C) and dissolved oxygen (ppm) at Sites 2, 3, and A. Data were collected by CEAT May – September 2007.**

Depth (m)	31-May-07		7-Jun-07		14-Jun-07		21-Jun-07		27-Jun-07		3-Jul-07		11-Jul-07	
	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO	Temp.	DO
<b>Site 2</b>														
0	18.3	9.2	17.4	10.9	19.4	9.7	20.3	9.0	24.2	8.6	20.7	-	20.9	-
<b>Site 3</b>														
0	-	-	-	-	-	-	-	-	-	-	20.9	8.6	21.9	8.7
1	16.5	11.1	17.1	10.4	19.2	10.0	21.3	9.7	22.4	8.4	20.9	7.9	21.9	8.7
2	16.0	11.1	16.9	10.3	18.1	10.3	20.9	9.7	22.1	8.3	20.6	7.7	21.9	8.7
3	15.4	11.1	16.9	10.2	17.5	10.4	20.4	9.7	21.0	8.3	20.5	7.6	21.9	8.8
4	14.5	11.4	16.8	10.1	16.7	10.4	18.8	9.9	19.5	8.2	20.5	7.8	21.9	8.7
5	13.5	11.6	16.7	10.1	15.4	10.5	16.1	10.1	19.0	8.2	20.3	7.5	21.8	8.7
6	12.6	11.8	15.8	10.3	-	-	-	-	-	-	16.5	6.0	20.7	8.4
6.5	-	-	-	-	-	-	-	-	-	-	20.9	8.5	21.9	5.9
<b>Site A</b>														
0	17.2	10.8	-	-	19.2	10.6	20.7	8.6	-	8.2	20.8	-	21.0	7.2

**APPENDIX I (continued)**

**Physical Parameters: Temperature (° C) and dissolved oxygen (ppm) at Sites 4-6 and Site B. Data were collected by CEAT 13-September-07.**

<b>Depth (m)</b>	<b>Temp.</b>	<b>DO</b>
<b>Site 4*</b>		
0	20.6	6.8
1	20.1	7.2
2	19.8	6.8
3	19.7	6.8
4	19.7	6.8
<b>Site 5</b>		
0	20.8	8.3
1	20.7	8.3
2	20.5	8.3
3	20.3	8.3
4	20.1	8.3
5	20.0	8.3
6	19.9	8.2
7	19.9	8.1
8	19.2	6.2
9	16.2	1.1
10	14.0	0.8

<b>Depth (m)</b>	<b>Temp.</b>	<b>DO</b>
<b>Site 6</b>		
0	20.4	8.4
1	20.3	8.4
2	20.3	8.4
3	20.2	8.5
4	19.8	8.3
5	19.6	8.3
6	19.4	8.2
<b>Site B*</b>		
0	18.0	4.7
0.5	16.7	4.7

\*DO converted from % saturation to ppm according to Water Action Volunteers (2006).

**APPENDIX I (continued)**

**Physical Parameters: Turbidity (NTU) and Transparency (Secchi depth (m)) readings at Sites 1, 2, 3, and A on selected dates throughout the summer of 2007 as measured by CEAT (see Figure 30 for site locations).**

	31- May	7-Jun	14- Jun	21- Jun	27- Jul	3-Jul	11- Jul	17- Jul	25- Jul	1- Aug	9-Aug	16- Aug	23- Aug	13- Sept
<b>Site 1</b>														
<u>Turbidity</u>														
Surface	-	0.61	0.58	1.07	0.84	0.75	0.82	0.69	0.62	0.54	0.68	0.55	0.69	0.93
Mid	0.89	0.92	0.54	0.55	0.44	0.58	0.57	0.51	1.07	0.49	0.49	0.54	0.50	0.72
Bottom	9.46	2.17	1.18	1.59	3.19	1.02	0.89	11.80	5.27	4.09	3.57	18.20	9.09	11.30
<u>Secchi</u>	6.20	5.70	5.80	5.40	6.55	6.25	5.70	5.80	6.25	6.00	6.30	6.20	-	5.90
<b>Site 2</b>														
<u>Turbidity</u>														
Surface	0.82	-	0.70	0.64	-	0.68	0.73	0.79	0.60	0.61	0.66	0.78	0.54	0.67
<b>Site 3</b>														
<u>Turbidity</u>														
Surface	-	0.57	0.69	1.23	0.77	0.70	0.73	0.67	0.56	0.63	0.64	0.59	0.61	0.55
Mid	0.70	0.68	0.82	0.95	0.79	0.69	0.79	0.78	0.60	0.68	0.80	0.71	0.85	0.66
Bottom	-	1.60	0.77	0.91	0.93	0.89	0.76	0.90	0.71	0.72	0.71	0.72	0.73	0.67
<u>Secchi</u>	6.05	5.90	5.25	-	6.25	5.90	6.00	6.20	6.60	6.50	5.90	-	-	-
<b>Site A</b>														
<u>Turbidity</u>														
Surface	-	-	-	0.76	0.96	1.49	1.41	1.01	1.00	0.89	0.96	0.92	-	1.27

**APPENDIX I (continued)**

**Physical Parameters: Turbidity readings for lake Sites 4-7 and stream Sites B-D as measured by CEAT on 13-September-07 (see Figure 30 for site locations).**

	<b>Site 4</b>	<b>Site 5</b>	<b>Site 6</b>	<b>Site 7</b>	<b>Site B</b>	<b>Site C</b>	<b>Site D</b>
<b>Surface</b>	0.89	0.52	0.57	0.47	0.89	1.97	0.75
<b>Mid</b>	-	-	0.59	0.59	-	-	-
<b>Bottom</b>	-	-	1.29	0.65	-	-	-

**Physical Parameters: True color (SPU) at sites 1-7 and A-D June through September 2007. Data were collected by CEAT.**

<b>Site</b>	<b>14-Jun-07</b>	<b>27-Jun-07</b>	<b>11-Jul-07</b>	<b>1-Aug-07</b>	<b>13-Sept-07</b>
1	1	-	25	-	25
2	28	-	17	-	21
3	19	-	19	-	92
4	-	-	-	-	17
5	-	-	-	-	16
6	-	-	-	-	16
7	-	-	-	-	15
A	29	78	55	27	83
B	-	-	-	-	81
C	-	-	-	-	68
D	-	-	-	-	18

**APPENDIX I (continued)**

**Chemical Parameters: pH at Long Pond South Site 1 May-September 2007. Data were collected by CEAT.**

Depth (m)	31-May	7-Jun	14-Jun	21-Jun	27-Jun	3-Jul	11-Jul	17-Jul	25-Jul	1-Aug	9-Aug	16-Aug	23-Aug	13-Sept
0	-	-	-	-	-	6.8	6.5	6.5	6.8	6.3	6.5	7.2	7.2	7.1
1	7.4	6.6	7.1	7.2	7.2	7.0	6.8	6.8	6.8	6.8	6.8	7.3	7.3	7.1
2	7.4	6.9	7.3	7.3	7.3	7.1	6.9	7.0	6.9	7.0	7.0	7.3	7.3	7.1
3	7.3	7.0	7.3	7.3	7.3	7.1	7.0	7.1	7.0	7.0	7.1	7.3	7.3	7.1
4	7.3	7.1	7.3	7.3	7.2	7.1	7.1	7.1	7.1	7.1	7.2	7.4	7.3	7.1
5	7.3	7.1	7.1	7.1	7.2	7.2	7.1	7.1	7.0	7.0	6.8	7.4	7.3	7.1
6	7.2	7.0	7.1	7.0	7.0	6.8	6.9	6.8	6.9	6.8	6.4	7.1	7.3	7.1
7	7.1	6.9	7.0	6.9	6.7	6.7	6.6	6.6	6.6	6.6	6.4	6.7	6.9	7.1
8	7.0	6.8	6.8	6.8	6.5	6.6	6.4	6.5	6.4	6.3	6.3	6.4	6.5	7.0
9	7.0	6.7	6.7	6.7	6.5	6.5	6.4	6.4	6.3	6.3	6.2	6.3	6.3	6.5
10	6.9	6.7	6.7	6.6	6.4	6.4	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2
11	6.9	6.6	6.7	6.6	6.4	6.4	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.1
12	6.8	6.6	6.7	6.6	6.4	6.4	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.1
13	6.8	6.6	6.7	6.6	6.5	6.4	6.3	6.2	6.2	6.2	6.2	6.2	6.2	6.1
14	6.7	6.6	6.7	6.6	6.5	6.4	6.3	6.3	6.2	6.2	6.2	6.2	6.3	6.1
15	6.7	6.6	6.7	6.6	6.5	6.4	6.4	6.3	6.3	6.3	6.3	6.2	6.3	6.2
16	6.7	6.5	6.7	6.6	6.5	6.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.2
17	6.7	6.5	6.7	6.6	6.5	6.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.2
18	6.7	6.5	6.7	6.6	6.5	6.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.2
19	6.7	6.5	6.7	6.6	6.5	6.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3	6.2
20	6.7	6.5	6.7	6.6	6.5	6.4	6.3	6.2	6.3	6.3	6.3	6.3	6.3	6.2
21	6.6	6.5	6.7	6.6	6.5	6.4	6.3	6.2	6.3	6.2	6.3	6.3	6.3	6.2
22	6.6	6.5	6.7	6.6	6.5	6.4	6.3	6.2	6.2	6.2	6.3	6.3	6.3	6.2
23	6.6	6.5	6.7	6.6	6.5	6.4	6.3	6.2	6.2	6.2	6.3	6.2	6.3	6.2
24	6.6	6.5	6.7	6.6	6.4	6.4	6.3	6.2	6.2	6.2	6.3	6.2	6.2	6.1
25	6.6	6.5	6.7	6.6	6.4	6.4	6.2	6.1	6.2	6.2	6.2	6.2	6.2	6.1
26	6.6	6.5	6.6	6.6	6.4	6.3	6.2	6.1	6.2	6.2	6.2	6.2	6.2	6.1
27	6.6	6.5	-	6.5	6.4	6.5	6.2	6.1	6.2	6.3	-	-	6.2	6.1
28	-	6.4	-	-	6.4	-	6.2	6.6	6.1	6.2	-	-	6.1	6.1
28.5	-	6.5	-	7.1	7.3	-	6.2	6.8	6.2	-	-	-	-	6.2

**APPENDIX I (continued)**

**Chemical Parameters: pH at Sites 2, 3, and A from May–September 2007. All data were collected by CEAT.**

Depth (m)	31-May	7-Jun	14-Jun	21-Jun	27-Jun	3-Jul	11-Jul	17-Jul	25-Jul	1-Aug	9-Aug	16-Aug	23-Aug	13-Sept
<b>Site 2</b>														
0	7.2	6.9	6.7	7.0	6.9	6.8	6.7	6.7	6.8	6.7	6.6	6.8	-	7.6
<b>Site 3</b>														
0	-	-	-	-	-	6.9	6.5	6.7	6.4	6.7	7.1	6.8	6.9	7.2
1	7.6	6.7	7.0	6.9	7.1	7.1	6.9	6.9	6.8	6.9	7.1	7.0	7.1	7.1
2	7.5	6.8	7.1	7.1	7.2	7.1	7.0	7.1	6.9	7.0	7.2	7.1	7.2	7.2
3	7.5	6.9	7.1	7.1	7.1	7.2	7.0	7.1	7.0	7.1	7.1	7.2	7.2	7.2
4	7.4	6.9	7.1	7.1	7.0	7.2	7.1	7.1	7.0	7.2	6.9	7.2	7.2	7.2
5	7.4	7.0	7.0	6.9	7.0	7.1	7.1	7.1	7.0	7.1	6.7	7.2	7.2	7.2
6	7.3	7.0	-	6.8	6.9	6.9	7.0	6.6	6.8	6.9	6.6	7.2	7.1	-
6.5	-	-	-	-	-	-	-	-	6.5	6.5	6.4	-	6.8	-
<b>Site A</b>														
0	6.5	6.6	6.7	6.9	6.6	6.4	6.5	6.4	6.5	6.6	6.5	-	-	7.9

**Chemical Parameters: Surface pH at Sites 4-7 and B-D on 13-September-07. Data were collected by CEAT.**

Site 4	Site 5	Site 6	Site 7	Site B	Site C	Site D
6.2	7.4	7.3	8.3	6.5	5.5	7.1

**APPENDIX I (continued)**

**Chemical Parameters: Conductivity ( $\mu\text{S}/\text{cm}$ ) at Site 1 May-September 2007. Data were collected by CEAT.**

Depth (m)	31-May	7-Jun	14-Jun	21-Jun	27-Jun	3-Jul	11-Jul	17-Jul	25-Jul	1-Aug	9-Aug	16-Aug	23-Aug	13-Sept
0	-	-	-	-	-	48	49	49	49	52	53	54	53	55
1	46	46	45	46	48	48	49	48	49	52	53	53	53	55
2	46	46	45	46	48	48	49	48	49	52	53	53	53	55
3	46	46	45	46	48	48	49	48	49	51	52	53	53	55
4	46	46	45	46	48	48	49	48	49	51	52	53	53	55
5	46	45	45	46	48	48	49	48	49	51	52	53	53	55
6	46	46	45	45	48	47	49	48	49	51	52	53	53	55
7	45	45	45	46	47	47	49	47	49	51	52	53	53	54
8	45	45	45	46	47	47	48	47	48	51	52	53	53	55
9	45	45	45	46	47	47	48	47	48	51	52	53	53	56
10	45	45	45	46	47	47	49	47	48	50	52	53	53	55
11	45	45	45	45	47	47	48	47	48	50	51	52	53	55
12	45	45	45	46	47	47	48	47	48	50	51	52	52	55
13	45	45	45	46	47	47	48	47	48	50	51	52	52	54
14	45	45	45	45	47	47	48	47	48	50	51	52	52	53
15	45	45	45	45	47	47	48	47	48	50	51	52	52	53
16	45	45	45	45	47	47	48	47	48	50	51	52	52	53
17	45	45	45	46	47	47	48	47	48	50	51	52	52	53
18	45	45	45	46	47	47	48	47	48	50	50	52	52	53
19	45	45	45	46	47	47	48	47	48	50	50	52	52	54
20	45	45	45	46	47	47	48	47	48	50	51	52	52	54
21	45	45	45	46	47	47	48	47	48	50	51	52	52	54
22	45	45	45	46	47	47	49	47	48	50	51	52	52	54
23	45	45	45	46	48	47	49	47	48	50	51	52	52	54
24	45	45	45	46	48	47	48	47	48	50	51	52	53	54
25	45	45	46	46	48	47	49	48	48	51	51	53	53	55
26	45	45	46	46	48	48	49	49	49	52	52	53	53	56
27	45	46	-	47	49	57	50	49	50	53	-	56	54	57
28	-	46	-	-	50	-	51	81	56	55	-	-	56	58
28.5	-	51	-	106	67	-	63	87	58	-	-	-	-	69

**APPENDIX I (continued)**

**Chemical Parameters: Conductivity ( $\mu\text{S}/\text{cm}$ ) at Sites 2, 3, and A from May to September 2007. Data were collected by CEAT.**

Depth (m)	31-May	7-Jun	13-Jun	21-Jun	27-Jun	3-Jul	11-Jul	17-Jul	25-Jul	1-Aug	9-Aug	16-Aug	23-Aug	13-Sep
<b>Site 2</b>														
0	45	45	46	47	49	48	50	48	49	52	53	54	-	34
<b>Site 3</b>														
0	-	-	-	-	-	48	49	49	49	52	53	55	56	59
1	45	47	45	46	48	48	49	49	49	52	53	54	55	57
2	45	47	45	46	48	48	49	49	49	52	53	54	55	56
3	45	47	45	46	48	48	49	49	49	51	53	54	55	56
4	45	47	45	46	48	48	49	48	49	51	53	54	54	55
5	44	47	45	46	48	48	49	48	49	51	53	54	54	55
6	44	47	-	46	48	47	49	48	49	51	53	54	54	-
6.5	-	-	-	-	-	-	-	-	48	51	53	-	56	-
<b>Site A</b>														
0	47	-	46	48	49	49	50	50	50	53	54	-	-	36

**Chemical Parameters: Surface conductivity ( $\mu\text{S}/\text{cm}$ ) on 13-September-07 at lake sites 4-7 and stream sites B-D. Data were collected by CEAT.**

Site 4	Site 5	Site 6	Site 7	Site B	Site C	Site D
34	34	34	34	42	36	69

**APPENDIX I (continued)**

**Chemical Parameters: Total Phosphorus (ppb) for Sites 1, 2, and 3 on selected dates during the summer of 2007 as measured by CEAT (see Figure 30 for site locations).**

	<b>31- May</b>	<b>7- Jun</b>	<b>14- Jun</b>	<b>21- Jun</b>	<b>27- Jun</b>	<b>3-Jul</b>	<b>11- Jul</b>	<b>17- Jul</b>	<b>25- Jul</b>	<b>1-Aug</b>	<b>9- Aug</b>	<b>16- Aug</b>	<b>23- Aug</b>	<b>13- Sep</b>
<b>Site 1</b>														
Surface	5.8	6.1	8.5	10.9	10.5	6.5	8.7	5.9	26.6	--	7.1	9.0	7.2	8.6
Epicore	10.5	11.5	14.0	10.9	13.9	6.0	10.3	8.7	5.3	6.0	6.5	-	5.8	9.2
Mid	8.3	9.0	8.7	8.1	7.7	6.6	12.9	5.3	4.7	7.1	6.2	6.4	6.0	7.2
Bottom	34.5	32.0	20.7	25.3	42.6	10.4*	7.3*	54.4	7.2	23.3	22.1	-	53.6	71.8
<b>Site 2</b>														
Surface	8.9	12.2	14.6	8.0	8.1	8.3	9.7	7.0	-	3.3	3.8	7.5	-	7.1
<b>Site 3</b>														
Surface	9.2	5.7	10.1	7.7	6.1	10.3	10.1	7.6	5.0	7.3	5.9	8.4	9.8	7.8
Mid	6.3	10.6	7.3	9.6	9.0	8.7	10.4	5.6	5.7	9.0	7.0	6.9	6.5	6.6
Bottom	11.0	9.2	8.3	8.8	8.2	6.5	6.6	7.4	7.2	8.0	-	10.1	6.0	8.3

\*Bottom may not have been reached due to boat movement

**APPENDIX I (continued)**

**Chemical Parameters: Total phosphorus (ppb) for all lake sites and stream sites sampled on September 13, 2007 by CEAT (see Figure 30 for site locations).**

<b>Site:</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Surface</b>	8.6	7.1	7.8	6.5	6.5	6.2	6.2	16.6	18.7	26.4	10.7
<b>Mid</b>	7.2	-	6.6	-	-	23.7	5.9	-	-	-	-
<b>Bottom</b>	71.8	-	8.3	-	-	18.6	7.6	-	-	-	-
<b>Epicore</b>	9.2	-	-	-	-	-	-	-	-	-	-

**Chemical Parameters: Total phosphorus (ppb) concentrations for stream Sites E, F, and G as measured by CEAT after rainstorms in the summer of 2007 (see Figure 30 for site locations).**

<b>Site:</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>Single</b>	26.8	70.0	30.0
<b>Continuous</b>	26.9	36.8	20.4

**APPENDIX I (continued)**

**Biological Parameters: Chlorophyll-*a* profile (ppb) for Long Pond South Site 1 as measured on selected dates by CEAT during the summer of 2007.**

<b>Depth</b>	<b>31-May</b>	<b>7-Jun</b>	<b>14-Jun</b>	<b>21-Jun</b>	<b>27-Jun</b>	<b>3-Jul</b>	<b>11-Jul</b>	<b>17-Jul</b>	<b>25-Jul</b>	<b>1-Aug</b>	<b>16-</b>	<b>23-</b>	<b>13-Sep</b>
0	2.2	2.2	2.7	2.2	1.4	1.9	3.2	1.5	0.2	4.2	2.4	-0.6	2.6
1	2.8	2.4	2.1	1.5	1.2	2.0	2.7	4.3	1.7	2.8	2.1	0.1	2.9
2	4.1	2.1	3.0	1.7	2.4	1.8	2.6	4.3	1.5	3.0	3.4	0.3	3.1
3	3.4	2.5	2.4	2.5	2.3	1.7	3.8	4.2	1.8	4.6	3.7	0.7	3.4
4	4.2	2.5	2.4	2.5	1.9	2.2	3.3	5.4	2.0	6.1	3	0.9	3.4
5	9.1	5.4	2.7	1.6	2.9	2.1	2.1	6.1	1.9	6.3	3.1	0.3	2.6
6	6.0	6.0	3.3	1.3	1.9	2.1	2.2	5.7	1.6	4.9	3.9	1.1	3.6
7	5.4	4.5	3.5	1.3	2.0	1.2	2.6	5.9	1.3	4.6	3.8	2.8	2.9
8	5.0	4.3	3.9	1.6	1.6	0.9	1.9	5.1	1.1	2.8	2.4	1.8	2.3
9	3.1	3.2	3.0	0.9	1.7	0.8	1.6	3.9	0.9	2.6	0.7	0.0	1.6
10	4.2	2.6	0.8	0.7	1.5	0.6	2.1	4.1	0.6	2.4	1.7	0.0	1.7
11	4.1	2.2	1.3	1.0	2.0	0.6	2.1	4.3	0.2	1.3	1.7	0.0	1.1
12	3.0	2.4	1.2	0.8	1.5	0.7	1.7	3.8	0.8	2.4	1.7	0.0	1.8
13	3.6	2.4	1.4	0.4	1.3	0.6	2.1	4.4	0.8	2.1	1.7	0.0	1.3
14	2.9	1.4	1.0	0.3	1.1	0.7	1.7	4.1	0.5	2.4	1.5	0.0	1.3
15	3.1	1.8	1.0	0.3	1.1	0.3	0.9	4.2	1.1	2.3	2.1	0.0	0.8
16	4.1	2.6	1.1	0.4	1.3	0.4	1.2	4.1	0.6	1.9	1.6	0.0	1.4
17	2.5	2.3	1.4	0.9	1.2	0.9	0.8	4.0	0.6	2.6	1.6	0.0	0.9
18	2.9	1.4	0.7	0.2	1.9	0.8	1.3	4.1	0.0	2.1	1.8	0.0	1.2
19	2.1	1.3	0.2	0.6	1.7	0.5	1.0	4.3	0.5	1.8	1.9	0.5	2.3
20	3.4	1.1	1.0	0.5	1.4	0.3	1.6	3.6	0.6	2.0	1.6	0.7	1.9
21	3.6	1.4	1.5	0.8	1.8	0.7	1.1	3.8	0.4	2.5	1.4	0.9	2.2
22	3.3	1.5	1.2	0.8	1.1	0.7	1.4	4.1	0.4	2.5	2.1	1.1	0.9
23	2.1	1.0	1.3	0.8	1.3	0.2	1.2	4.1	0.9	2.7	2.1	0.9	2.0
24	2.8	1.4	1.2	0.9	1.6	0.0	1.5	4.4	0.5	2.5	2.3	1.8	2.4
25	2.5	1.9	0.8	0.7	1.6	0.5	0.9	3.8	0.5	1.9	2.5	1.6	2.3
26	28.4	1.7	-	1.1	1.4	1.0	1.6	4.8	0.3	2.7	1.8	0.9	2.1
27	-	1.7	-	1.0	1.3	1.7	1.0	4.4	0.8	2.1	4.4	0.6	2.8
28	-	11.4	-	0.0	0.0	-	1.4	2.9	2.4	1.4	-	1.6	2.9
28.5	-	-	-	-	-	-	0.0	2.9	2.7	-	-	-	4.1

**APPENDIX I (continued)**

**Biological Parameters: Chlorophyll-*a* (ppb) profile for Long Pond South Site 3 as measured on selected dates by CEAT during the summer of 2007.**

<b>Depth</b>	<b>31- May</b>	<b>7- Jun</b>	<b>14- Jun</b>	<b>21- Jun</b>	<b>27- Jun</b>	<b>3-Jul</b>	<b>11-Jul</b>	<b>17-Jul</b>	<b>25-Jul</b>	<b>1-Aug</b>	<b>9-Aug</b>	<b>16- Aug</b>	<b>23- Aug</b>	<b>13-Sep</b>
0	-	-	-	-	-	2.0	3.9	2.5	2.4	4.2	5.4	6.7	1.5	2.5
1	3.2	1.5	2.3	1.1	1.2	1.4	3.0	4.9	0.4	2.3	4.7	3.4	2.2	3.1
2	3.0	1.6	4.3	2.1	1.6	1.6	2.2	5.1	1.2	2.6	5.3	2.5	3.4	2.5
3	3.5	3.4	4.1	1.8	2.0	1.4	2.4	4.7	1.2	3.4	5.5	3.3	2.2	2.8
4	3.6	1.9	4.7	2.4	1.1	1.8	2.8	6.0	1.1	4.2	6.8	3.8	1.4	2.9
5	3.4	2.5	3.6	2.0	2.6	2.0	3.0	5.2	1.9	6.8	6.6	4.0	1.6	2.1
6	5.0	2.4	-	1.4	2.3	2.3	2.5	5.7	1.4	4.8	5.6	4.0	1.8	-
6.5	-	-	-	-	-	-	3.9	2.5	5.8	4.8	5.8	-	28.5	-