

Table 3.
BLUE MARSH LAKE - WATER CHEMISTRY
Station BM-6, Surface
COE

Parameter	Units	Date										
		3/14/1988	4/18/1988	5/11/1988	5/23/1988	6/14/1988	6/28/1988	7/11/1988	7/25/1988	8/8/1988	8/22/1988	9/19/1988
Temp.	°C	6	11.5	16	21.5	25	24	26	26.5	29.5	25.5	22
pH	pH units	8	8.8	8.9	7.8	8.6	8.5	7.9	8.3	8.2	7.9	8
Conductance	µmhos/cm	268	286	292	284	272	288	292	303	290	300	308
Diss. O ₂	mg/l	13.6	11.4	10.7	11.8	14.6	8.5	10.2	8	8.1	6.9	9.6
Alkalinity	mg/l	-	-	-	-	-	-	-	-	-	-	-
Diss. Solids	mg/l	155	178	150	201	197	194	218	213	220	223	222
Susp. Solids	mg/l	-	-	-	-	-	-	-	-	-	-	-
NH ₃ -N	mg/l	<0.03	0.054	<0.03	0.024	<0.03	<0.03	<0.03	<0.03	0.089	0.125	<0.03
NO ₃ -N	mg/l	-	-	-	-	-	-	-	-	-	-	-
NO ₂ -N	mg/l	-	-	-	-	-	-	-	-	-	-	-
N-Kjeldahl	mg/l	-	-	-	-	-	-	-	-	-	-	-
P	mg/l	-	-	-	-	-	-	-	-	-	-	-
P-total	mg/l	0.309	0.05	<0.03	0.17	<0.03	0.03	0.04	0.03	0.05	0.03	<0.03
Diss. P	mg/l	0.142	<0.03	<0.03	0.03	<0.03	<0.03	0.04	<0.03	<0.03	<0.03	<0.03
SO ₄	mg/l	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll a	µg/l	-	-	-	<0	-	7.8	-	3.7	-	5.3	10.1

Parameter	Units	Date									
		5/25/1995	6/21/1995	7/20/1995	8/22/1995	10/3/1995	5/22/2001	6/12/2001	7/19/2001	8/8/2001	9/26/2001
Temp.	°C	20.06	25.33	28.08	27.74	19.99	-	-	-	-	-
pH	pH units	8.63	8.35	8.16	8.7	8.47	-	-	-	-	-
Conductance	µmhos/cm	1.78	1.58	1.61	1.64	1.9	-	-	-	-	-
Diss. O ₂	mg/l	9.93	12.61	8.95	11.23	9.82	-	-	-	-	-
Alkalinity	mg/l	-	-	-	-	-	110	95	99	98	108
Diss. Solids	mg/l	190	160	180	140	240	182	146	208	184	182
Susp. Solids	mg/l	<5	13	<5	9	<5	<2	10	4	16	5
NH ₃ -N	mg/l	<0.1	0.1	<0.1	<0.1	0.2	0.2	0.1	0.133	0.12	0.1
NO ₃ -N	mg/l	4.2	3.8	3.1	2.7	2	5.6	5.1	1.09	1.1	1.4
NO ₂ -N	mg/l	0.06	0.06	0.05	0.03	0.04	0.036	0.05	0.043	<0.1	0.1
N-Kjeldahl	mg/l	0.5	0.7	0.3	2.1	0.9	1.2	0.6	0.176	0.75	<0.2
P	mg/l	-	-	-	-	-	-	0.25	0.07	0.05	0.85
P-total	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	0.1	<0.05	<0.05	0.28
Diss. P	mg/l	-	-	-	-	-	-	-	-	-	-
SO ₄	mg/l	<1	<1	<1	<1	<1	-	-	-	-	-
Chlorophyll a	µg/l	-	-	-	-	-	1.352	11.207	8.535	9.331	20.081

Table 4.
BLUE MARSH LAKE - WATER CHEMISTRY
Station BM-6, Bottom
COE

Parameter	Units	Date										
		5/23/1988	6/28/1988	7/25/1988	8/22/1988	9/19/1988	5/25/1995	6/21/1995	7/20/1995	8/22/1995	10/3/1995	5/22/2001
Temp.	°C	12.5	16.5	17.5	27	19.5	11.07	13.86	20.43	20.95	18.7	-
pH	pH units	7.1	7.8	7.1	7.4	7.3	9.08	8.98	7.67	7.73	7.73	-
Conductance	µmhos/cm	258	273	348	333	312	1.87	2	2.15	2.1	2.1	-
Diss. O ₂	mg/l	8	1.5	0.5	0.2	0.5	5.7	6.61	0.21	0.24	1.4	-
Alkalinity	mg/l	-	-	-	-	-	-	-	-	-	-	175
Diss. Solids	mg/l	192	192	243	233	224	200	200	240	210	220	212
Susp. Solids	mg/l	-	-	-	-	-	<5	<5	<5	<5	8	4
NH ₃ -N	mg/l	0.243	0.102	2.04	0.741	<0.03	<0.1	0.1	0.3	1	0.7	0.6
NO ₃ -N	mg/l	3.72	3.39	1.8	2.11	3.15	4.1	4	3.4	1.7	2.6	4.6
NO ₂ -N	mg/l	0.067	0.386	0.048	0.016	0.365	0.07	0.05	0.03	0.03	0.05	0.062
N-Kjeldahl	mg/l	-	-	-	-	-	0.7	0.4	0.7	1.7	1	1.4
P	mg/l	-	-	-	-	-	-	-	-	-	-	-
P-total	mg/l	0.33	0.03	0.45	0.04	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
Diss. P	mg/l	0.1	<0.03	0.18	<0.03	0.05	-	-	-	-	-	-
SO ₄	mg/l	-	-	-	-	-	<1	<1	<1	<1	<1	-
Chlorophyll a	µg/l	8	1.4	15.5	<0	<0	-	-	-	-	-	4.617

Parameter	Units	Date			
		6/12/2001	7/19/2001	8/8/2001	9/26/2001
Temp.	°C	-	-	-	-
pH	pH units	-	-	-	-
Conductance	µmhos/cm	-	-	-	-
Diss. O ₂	mg/l	-	-	-	-
Alkalinity	mg/l	135	152	150	142
Diss. Solids	mg/l	172	190	232	184
Susp. Solids	mg/l	13	8	24	10
NH ₃ -N	mg/l	1.3	1.15	1.41	2.7
NO ₃ -N	mg/l	5	0.167	9	0.7
NO ₂ -N	mg/l	0.158	0.04	<0.1	<0.1
N-Kjeldahl	mg/l	1.3	1.66	1.62	<0.2
P	mg/l	0.1	0.22	0.9	0.28
P-total	mg/l	<0.05	0.08	0.3	0.1
Diss. P	mg/l	-	-	-	-
SO ₄	mg/l	-	-	-	-
Chlorophyll a	µg/l	8.61	25.061	49.323	96.297