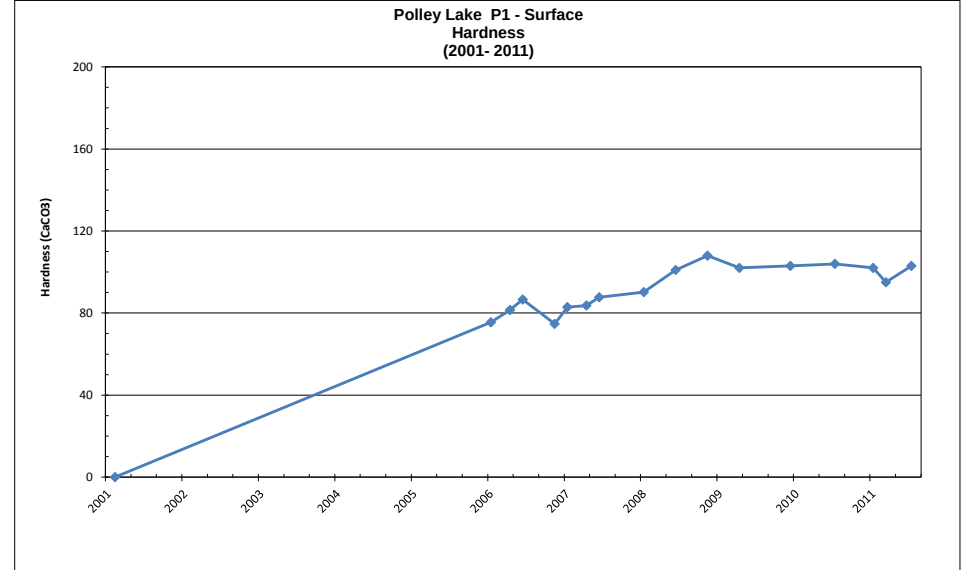
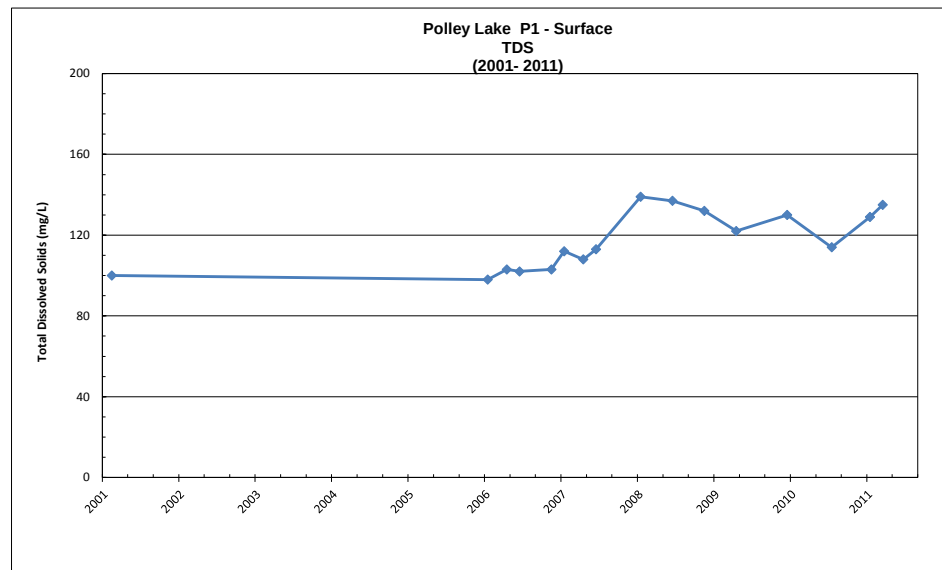
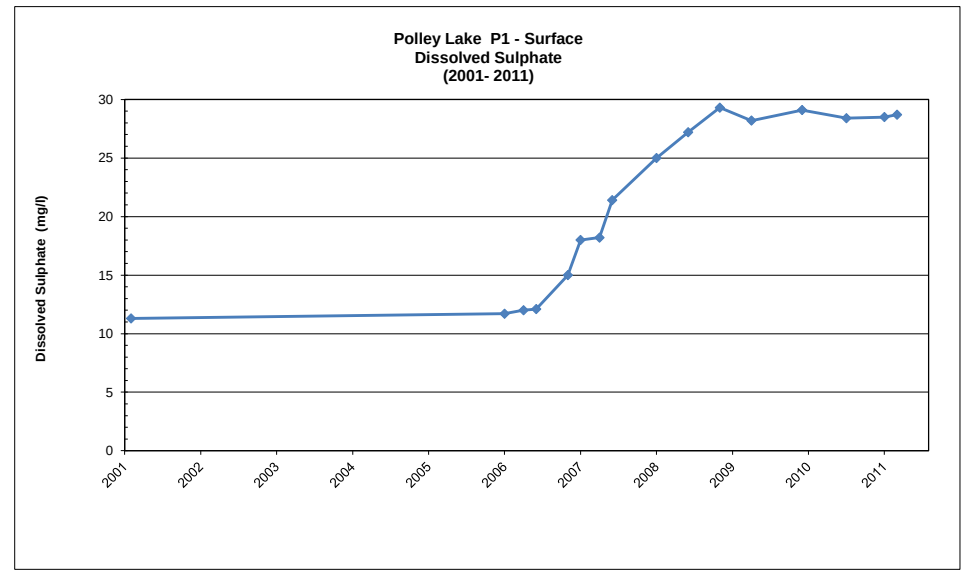
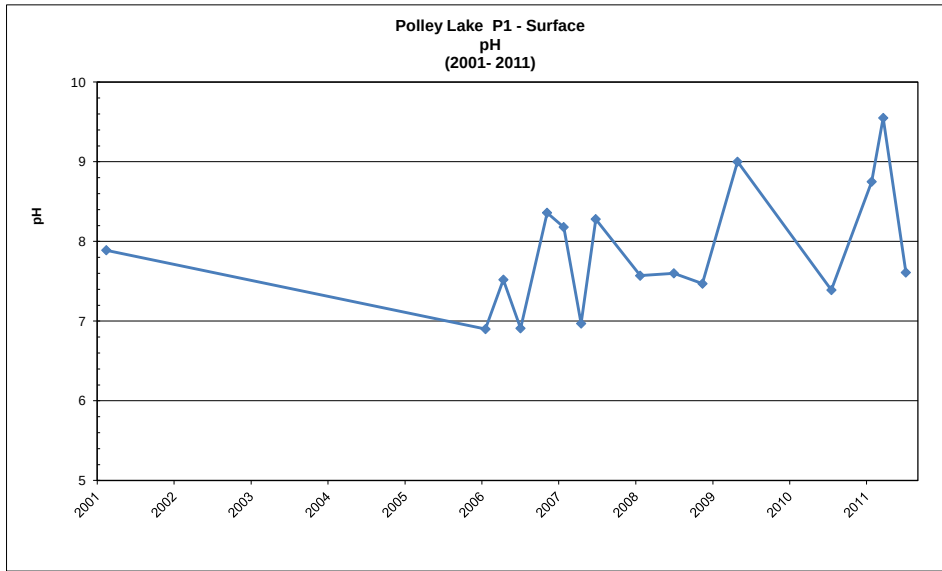


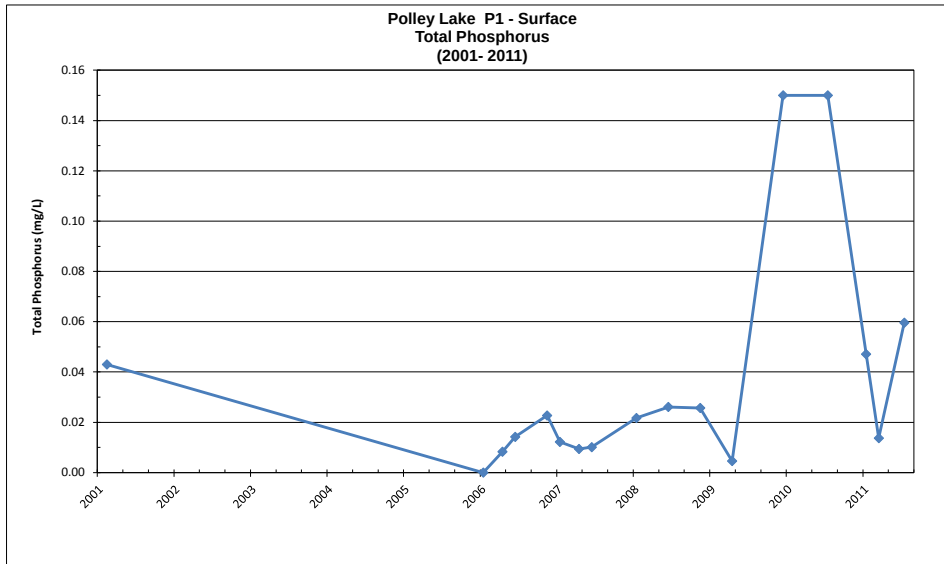
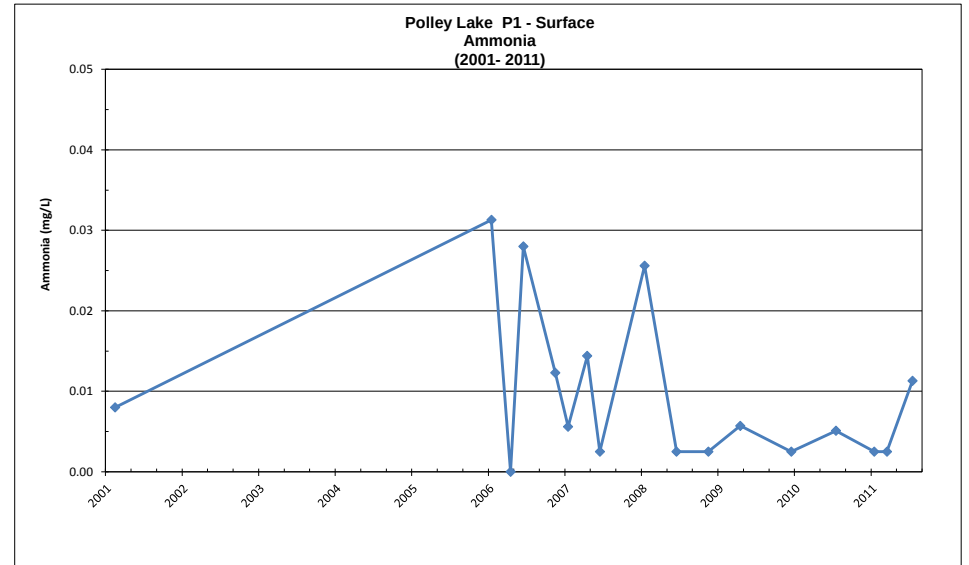
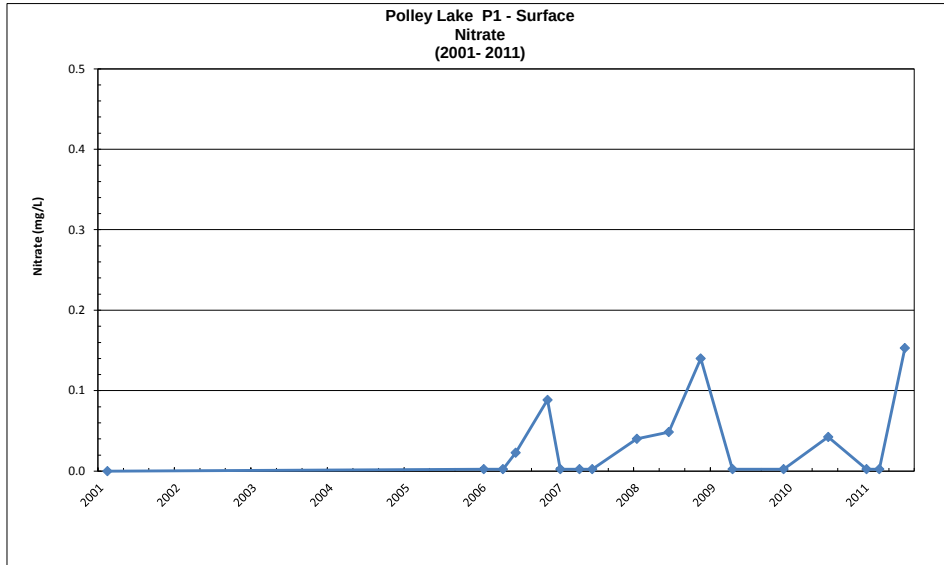
Annual Report 2011
Water Quality at Site P1 - Surface (Polley Lake)

Date/Time Sampled	13-Jun-01	18-May-06	11-Aug-06	31-Oct-06	6-Mar-07	24-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	13-Mar-09	26-Aug-09	15-Nov-10	25-May-11	19-Jul-11	3-Nov-11
In Situ Parameters																
pH	7.89	6.9	7.52	6.91	8.36	8.18	6.97	8.28	7.57	7.6	7.47	9	7.39	8.75	9.55	7.61
Conductivity (µS/cm)	144	157	159	164	175	117	181	174	114		114	206	212	151	197	226
Temperature (°C)	12.4	11.4	18.1	6.97	0.82	9.6	18.3	8.11	4.56	7.87	0.19	17.8	6.7	9.4	18.4	6.27
Physical Tests																
Alkalinity (as CaCO ₃)	67	70.4	64.7	85.2	67.9	72.3	74	74	76.5	76.5	81.4	103	78	73.2	74.1	78.8
Hardness (Total)		75.5	81.5	86.6	74.7	82.9	83.7	87.7	90.2	101	108	102	104	102	95	103
Total Dissolved Solids		100	98	103	102	103	112	108	113	139	137	132	130	114	129	135
Total Suspended Solids	<4	46.9	<3	<3	<3	<3	<3	<3	<3	<3	<3	5.5	<3	<3	<3	<3.0
Turbidity (NTU)	0.4	0.55	0.62	0.87	4.81	0.88	0.92	0.98	0.86	1.12	0.59	0.54	1.19	0.82	1.35	1.61
Dissolved Anions																
Chloride (Total)													<0.5	<0.5	<0.5	<0.50
Sulphate (Dissolved)	4.2	11.3	11.7	12	12.1	15	18	18.2	21.4	25	27.2	29.3	29.1	28.4	28.5	28.7
Nutrients																
Ammonia (Un-ionized)	0.008	0.0313	<0.02	0.028	0.0123	0.0056	0.0144	<0.005	0.0256	<0.005	<0.005	0.0057	0.0051	<0.005	<0.005	0.0113
Nitrate (Dissolved)	<0.02	<0.005	<0.005	0.0229	0.0885	<0.005	<0.005	<0.005	0.0402	0.0486	0.14	<0.005	0.0425	<0.005	<0.005	0.153
Nitrate+Nitrite (Dissolved)	<0.005	<0.005	<0.005	0.0237	0.0885	<0.005	<0.005	<0.005	0.0402	0.0486	0.14	<0.005	0.0436	<0.0051	<0.0051	0.155
Nitrite (as N)	<0.005	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	0.0019
Nitrogen (Total)	<0.12	0.14	0.273	0.283	0.33	0.3	0.35	0.37	0.2	0.18	0.33	0.18	0.21	0.22	0.33	0.55
Orthophosphate	0.043	0.0016	<0.001	0.005	0.0123	<0.001	<0.001	<0.001	0.0011	0.0063	0.0193	<0.001	0.0371	0.0143	<0.001	0.0394
Phosphorus (Dissolved)	0.043	0.0051	0.004	0.0075	0.0152	0.0038	0.0042	0.0038	0.005	0.01	0.0219	<0.002	<0.3	0.0166	0.0038	0.0436
Phosphorus (Total)	0.043		0.0083	0.0142	0.0227	0.0122	0.0094	0.0101	0.0217	0.0261	0.0257	0.0046	<0.3	0.0471	0.0137	0.0596
Trace Metals																
Aluminum (Dissolved)		0.0018	0.002	0.001	0.0036	0.0019	0.0021	<0.001	0.0011	<0.001	0.0013	0.0024	<0.003	0.0035	0.0031	<0.0030
Antimony (Dissolved)		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Dissolved)		0.00031	0.00036	0.00037	0.00035	0.00034	0.00035	0.00034	0.00035	0.00038	0.00042	0.00039	0.00045	0.00038	0.00039	0.00053
Barium (Dissolved)		0.00447	0.00507	0.0057	0.0064	0.00596	0.00631	0.00642	0.00654	0.00663	0.00729	0.00706	0.00695	0.00649	0.00664	0.00601
Cadmium (Dissolved)		<0.00005	<0.00005	<0.00005	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)		24.2	26.3	27.7	23.7	26.2	26.6	28.3	29	33	35.3	32.7	33.5	33.1	30.4	33.2
Chromium (Dissolved)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Dissolved)		0.00175	0.00199	0.00176	0.0101	0.00195	0.00252	0.00159	0.00171	0.00163	0.00225	0.00204	0.00136	0.00139	0.00148	0.00113
Iron (Dissolved)		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)		<0.00005	<0.00005	<0.00005	0.000064	<0.00005	<0.00005	<0.00005	0.000148	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)		3.65	3.82	4.24	3.78	4.22	4.18	4.1	4.28	4.42	4.87	4.85	4.94	4.69	4.65	4.81
Manganese (Dissolved)		0.00147	0.000457	0.000418	0.00345	0.0221	0.000446	0.000111	0.000898	0.000509	0.000312	0.000122	0.000205	0.000457	0.000835	0.000231
Molybdenum (Dissolved)		0.000596	0.000673	0.000744	0.000688	0.000845	0.000894	0.000936	0.00151	0.00199	0.00205	0.00228	0.00199	0.00195	0.00212	0.00196
Nickel (Dissolved)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)		<2	0.327	0.357	0.392	0.356	0.366	0.348	0.324	0.394	0.426	0.423	0.438	0.395	0.359	0.416
Selenium (Dissolved)		<0.001	0.0011	0.0011	<0.001	0.0011	0.0011	0.001	<0.001	0.0011	0.0013	0.0011	<0.001	0.00075	0.00082	0.00073
Silicon (Dissolved)		3.21	2.81	3.56	3.26	3.48	2.91	3.42	3.63	3.66	4.28	3.41	3.6	3.58	3.25	3.88
Sodium (Dissolved)		3.6	3.77	3.97	3.68	3.75	4.08	4.04	3.8	4.17	4.46	4.33	4.5	4.22	4.36	4.39
Strontium (Dissolved)		0.103	0.11	0.117	0.114	0.12	0.131	0.133	0.175	0.186	0.206	0.237	0.236	0.21	0.233	0.218
Zinc (Dissolved)		0.001	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.001	<0.003	<0.003	<0.003	<0.0030
Total Metals																
Aluminum (Total)		0.0081	0.0054	0.0113	0.112	0.0087	0.0057	0.0061	0.0158	<0.013	0.0554	<0.007	0.0189	0.0151	0.0096	0.0173
Antimony (Total)		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Total)		0.00033	0.00037	0.00037	0.00058	0.00035	0.00037	0.00036	0.00045	0.00035	0.00044	0.0004	0.00044	0.0004	0.00038	0.00051
Barium (Total)		0.00482	0.00517	0.00591	0.00757	0.00648	0.00635	0.00681	0.00726	0.00698	0.00917	0.00742	0.00767	0.00804	0.00703	0.0067
Cadmium (Total)		<0.00005	<0.00005	<0.00005	0.00002	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	0.000022	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Total)		24.8	26.6	28	25	26.5	29.7	28.4	28.8	31.4	33.7	35.4	33.2	33.4	31.9	34.2
Chromium (Total)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Total)		0.00201	0.00192	0.00192	0.0316	0.002	0.00191	0.00183	0.00315	0.00252	0.0074	0.00242	0.00188	0.00178	0.0017	0.00151
Iron (Total)		0.088	<0.03	<0.03	0.094	<0.03	<0.03	<0.03	<0.03	<0.03	0.046	<0.03	<0.03	<0.03	<0.03	0.038
Lead (Total)		<0.00005	<0.00005	<0.00005	0.000338	<0.00005	<0.00005	<0.00005	0.000115	<0.00005	0.000056	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Total)		3.7	3.84	4.25	3.56	4.24	4.25	4.12	4.26	4.38	4.79	4.97	4.96	4.76	4.85	5.02
Manganese (Total)		0.00918	0.00496	0.0195	0.00772	0.0378	0.00541	0.0122	0.0139	0.0221	0.0026	0.00594	0.0424	0.00938	0.00751	0.048
Molybdenum (Total)		0.000597	0.00066	0.000717	0.000611	0.000801	0.000922	0.00093	0.00152	0.00195	0.00223	0.0022	0.00205	0.00204	0.00217	0.0022
Nickel (Total)		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)		0.334	<2	0.402	0.364	0.366	0.359	0.343	0.38	0.475	0.405	0.456	0.409	0.382	0.448	
Selenium (Total)		<0.001	0.0012	<0.001	<0.001	0.0011	0.0012	0.0011	<0.001	<0.001	0.0012	0.0012	<0.001	0.00073	0.00081	0.00071
Silicon (Total)		3.28	2.86	3.59	3.43	3.51	2.94	3.48	3.64	3.58	4.21	3.55	3.68	3.65	3.39	4.09
Sodium (Total)		3.52	3.69	3.89	3.6	3.79	4.09	4.09	3.91	4.11	4.56	4.22	4.61	4.21	4.54	4.56
Strontium (Total)		0.102	0.11	0.117	0.103	0.122	0.133	0.137	0.178	0.183	0.213	0.233	0.24	0.219	0.239	0.24
Zinc (Total)		0.0011	<0.001	<0.001	0.011	<0.001	<0.001	<0.001	0.0016	0.0013	<0.006	<0.001	<0.003	<0.003	<0.003	<0.0030
Organics																
Carbon Organic (Dissolved)	15.3	6.5	4.9	5.26	5.15	5.72	5.49	6.34	5.08	5.05	5.18	5.48	5.2	5.59	5.41	5.21

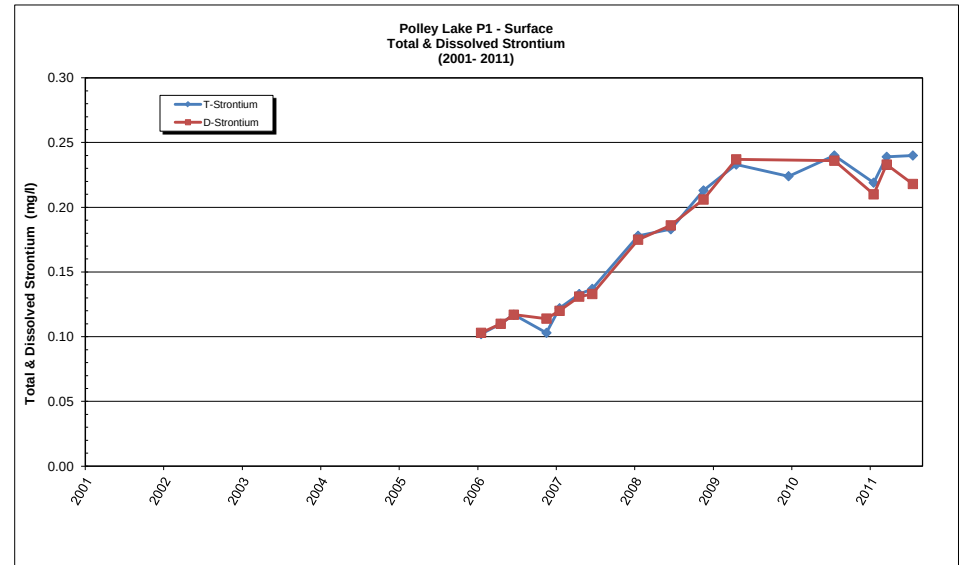
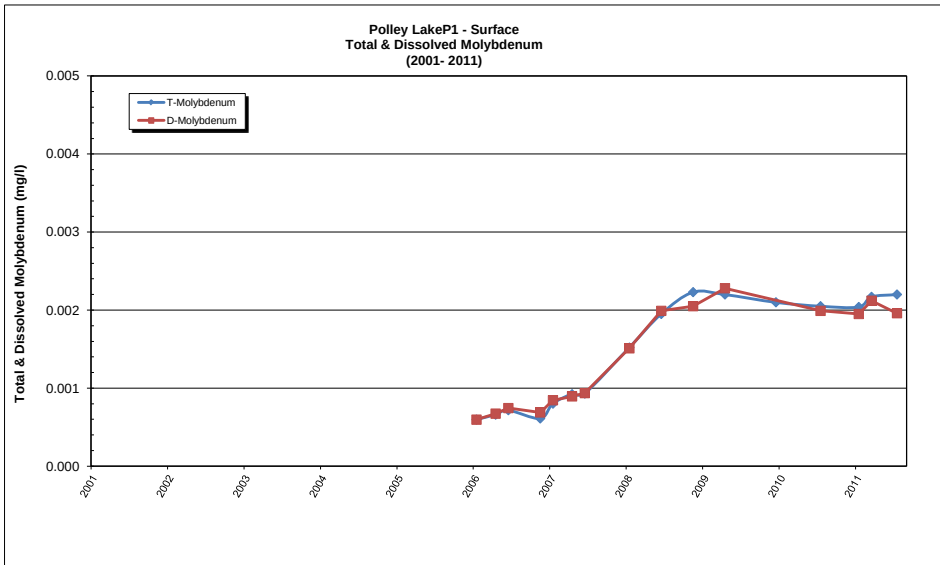
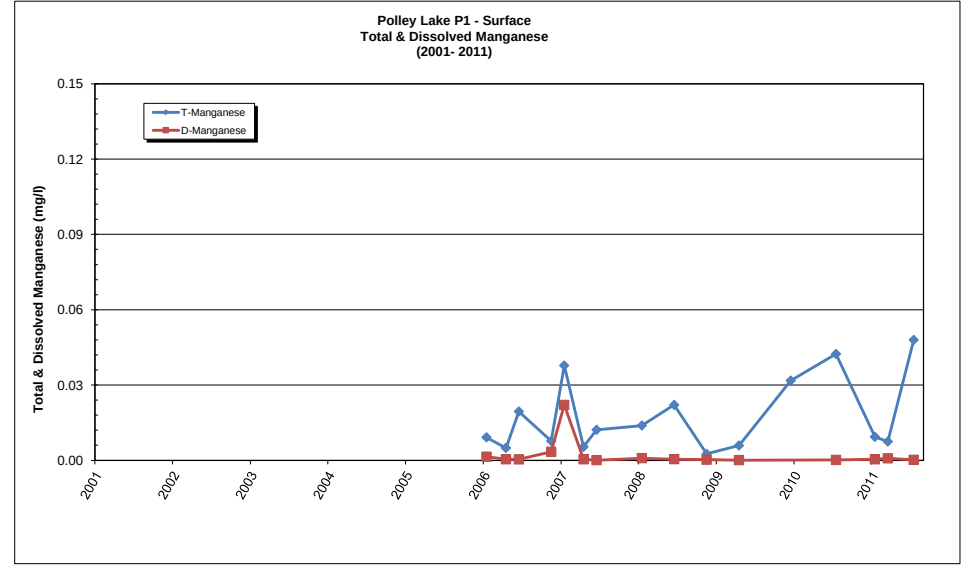
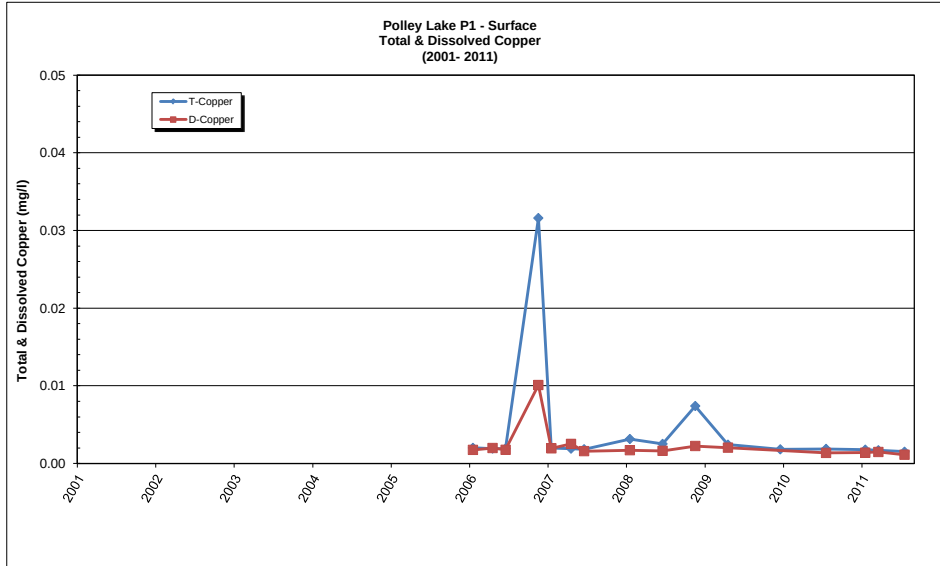
Annual Report 2011
Water Quality at Polley Lake
P1-Surface



Annual Report 2011
Water Quality at Polley Lake
P1-Surface



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Water Quality at Polley Lake
P1-Surface

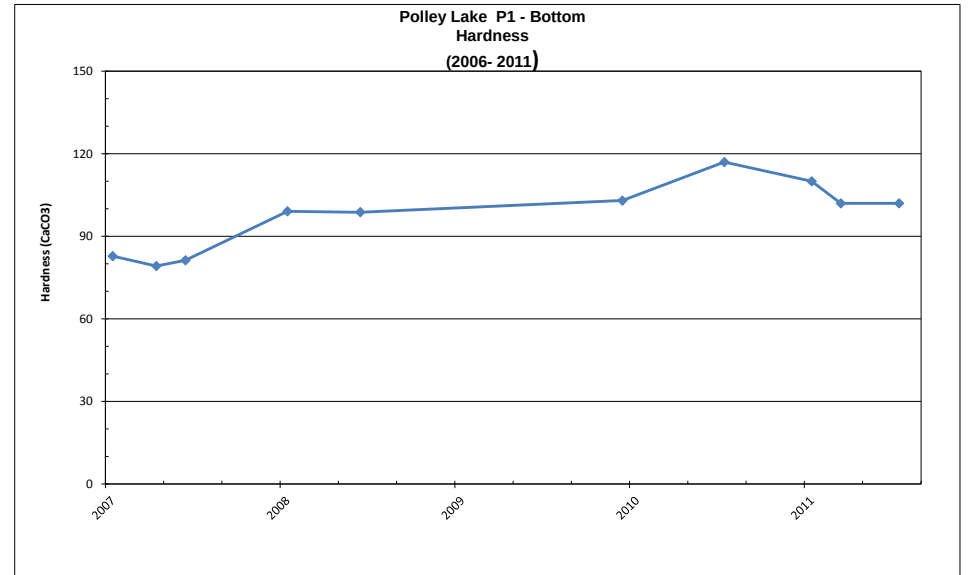
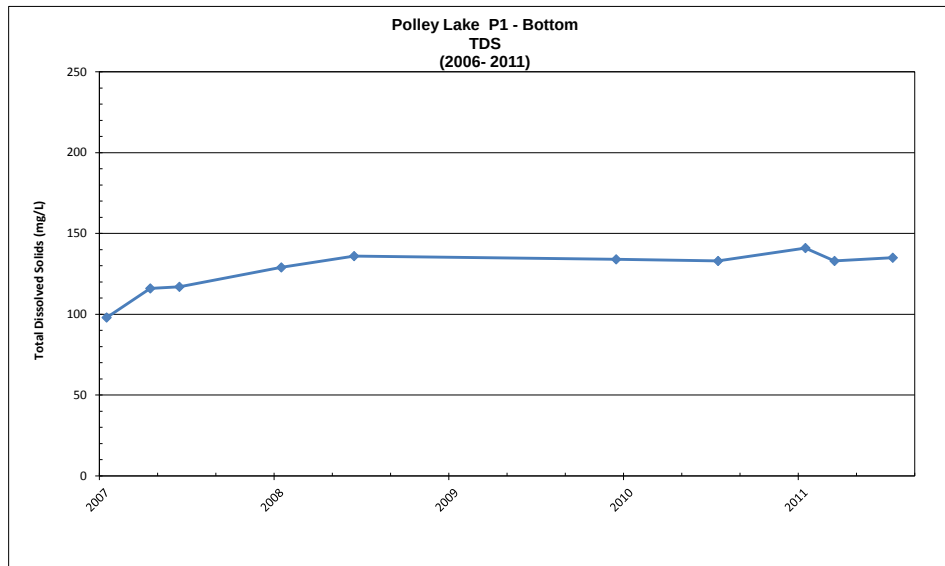
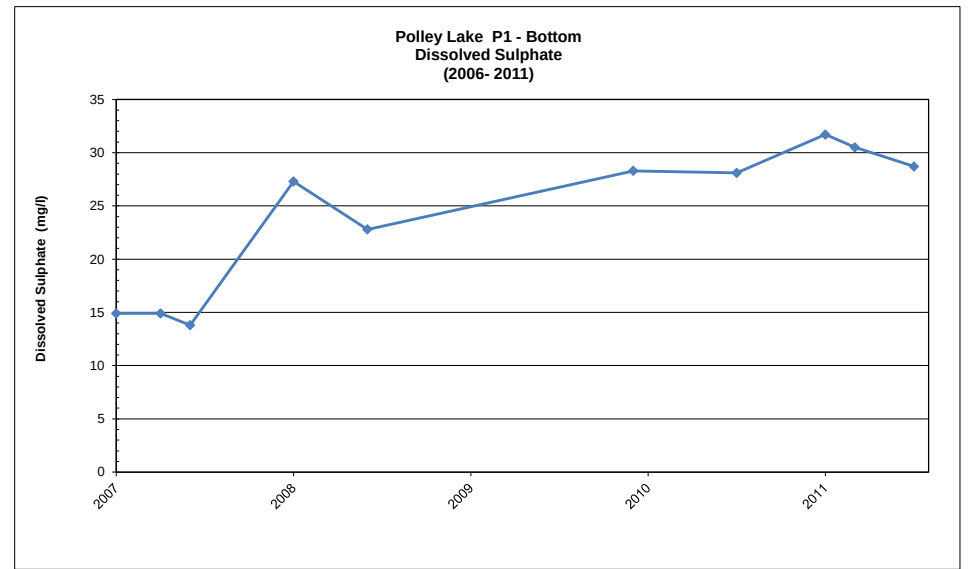
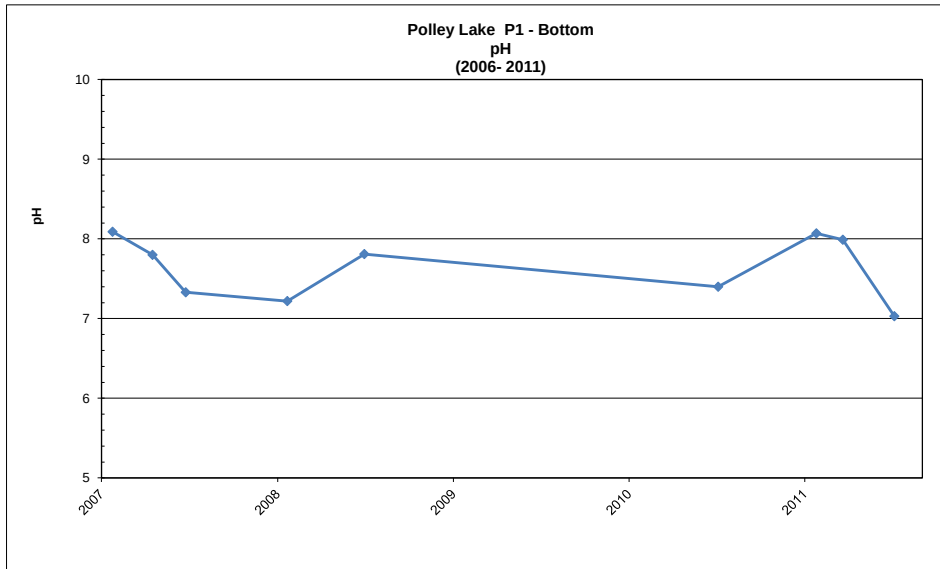


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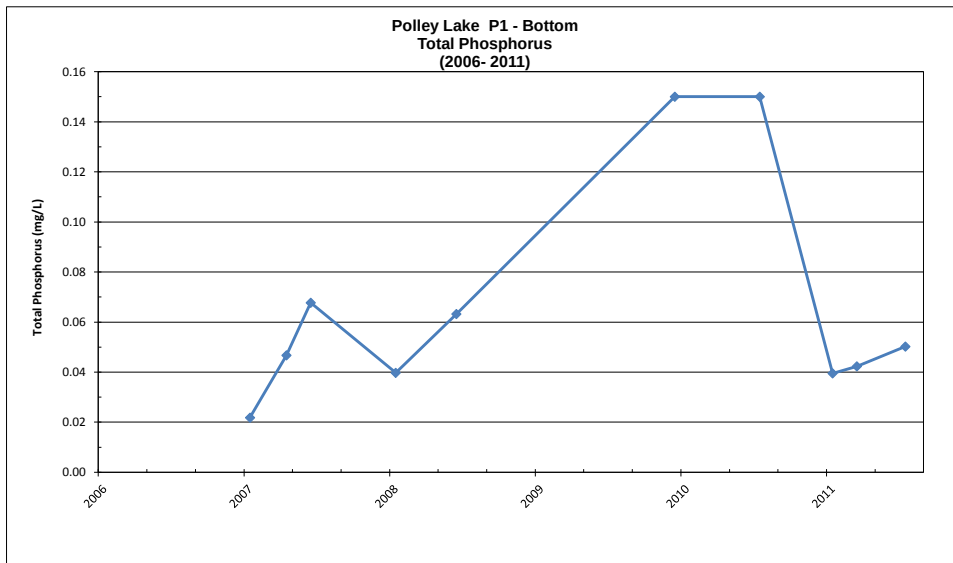
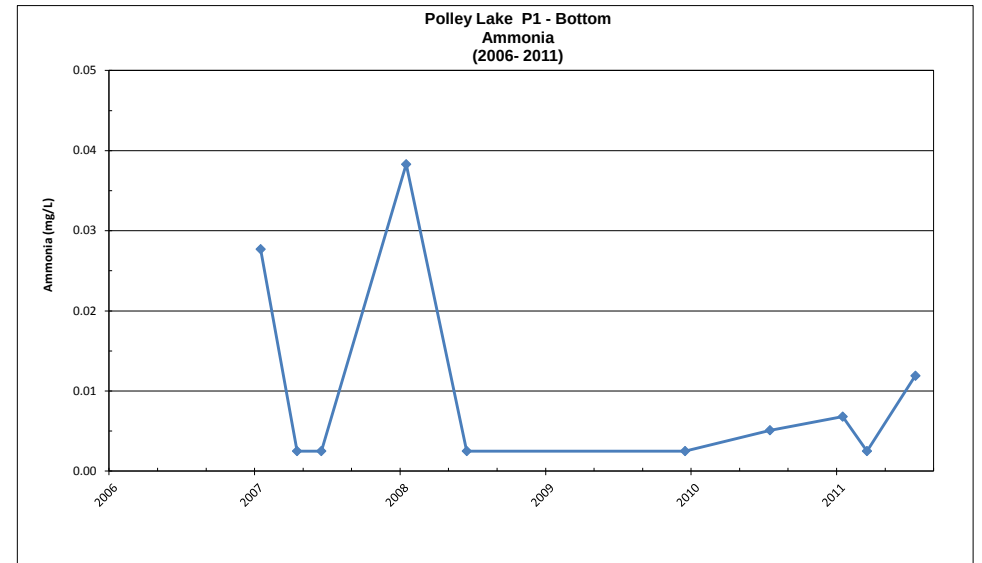
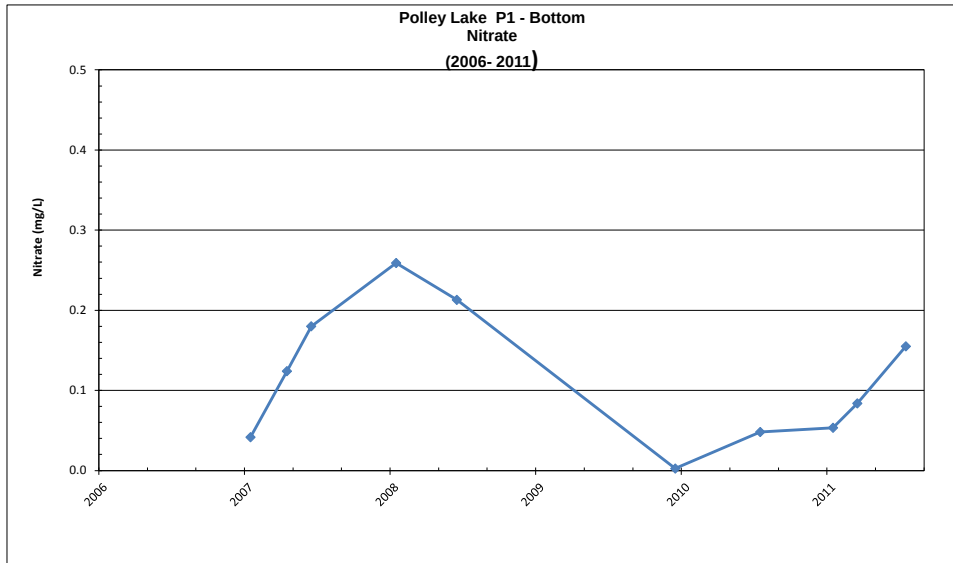
Water Quality at Site P1 - Bottom (Polley Lake)

Date/Time Sampled	24-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	26-Apr-10	2-Nov-10	25-May-11	19-Jul-11	3-Nov-11
In Situ Parameters										
pH	8.09	7.8	7.33	7.22	7.81		7.4	8.07	7.99	7.03
Conductivity (µS/cm)	102	173	167	139			141			220
Temperature (°C)	4.66	5.13	5.55	3.25	6.71		7.53	4.3	11.2	6.29
Physical Tests										
Alkalinity (as CaCO3)	72.3	73.6	74.2	80.7	76.4	78.1	78.6	78.4	78.7	79.2
Hardness (Total)	82.8	79.2	81.3	99.1	98.8	103	117	110	102	102
Total Dissolved Solids	98	116	117	129	136	134	133	141	133	135
Total Suspended Solids	3	3.3	<3	3.2	<3	<3	<3	<3	<3	<3.0
Turbidity (NTU)	1.64	1.16	2.34	3.89	1.77	1.1	1.06	0.67	0.6	1.75
Dissolved Anions										
Chloride (Total)						<0.5	<0.5	<0.5	<0.5	<0.50
Sulphate (Dissolved)	14.9	14.9	13.8	27.3	22.8	28.3	28.1	31.7	30.5	28.7
Nutrients										
Ammonia (Total)	0.0277	<0.005	<0.005	0.0383	<0.005	<0.005	0.0051	0.0068	<0.005	0.0119
Nitrate (Dissolved)	0.0416	0.124	0.18	0.259	0.213	<0.005	0.0481	0.0534	0.0838	0.155
Nitrate+Nitrite (Dissolved)	0.0434	0.124	0.18	0.266	0.213	<0.005	0.0481	0.0534	0.0838	0.157
Nitrite (as N)	0.0018	<0.001	<0.001	0.0065	<0.001	<0.001	<0.001	<0.001	<0.001	0.0025
Nitrogen (Total)	0.36	0.45	0.52	0.44	0.79	0.24	0.23	0.28	0.36	0.33
Orthophosphate	0.0069	0.0286	0.0583	0.0234	0.0522	0.0056	0.0475	0.0316	0.0313	0.0399
Phosphorus (Dissolved)	0.0101	0.0312	0.0569	0.0253	0.0564	<0.3	<0.3	0.0347	0.0357	0.0431
Phosphorus (Total)	0.0218	0.0467	0.0677	0.0397	0.0632	<0.3	<0.3	0.0395	0.0423	0.0502
Dissolved Metals										
Aluminum (Dissolved)	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.003	<0.003	<0.0030
Antimony (Dissolved)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Dissolved)	0.00034	0.00037	0.00046	0.0004	0.00043	0.00057	0.00041	0.00041	0.0004	0.00052
Barium (Dissolved)	0.00755	0.00678	0.00437	0.00583	0.00521	0.00678	0.00671	0.00731	0.008	0.00619
Cadmium (Dissolved)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)	26.2	25.3	26.1	31.9	32.3	33.5	38.5	35.8	32.9	33.1
Chromium (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Dissolved)	0.00195	0.00172	0.00145	0.00153	0.00143	0.00152	0.00126	0.00129	0.0013	0.00104
Iron (Dissolved)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)	4.2	3.92	3.93	4.74	4.42	4.8	4.99	5.06	4.91	4.82
Manganese (Dissolved)	0.0969	0.000376	0.0001	0.000174	0.000223	0.0101	0.000128	0.000222	0.00027	0.000156
Molybdenum (Dissolved)	0.000789	0.000756	0.000698	0.00223	0.00173	0.00206	0.002	0.00211	0.0021	0.00211
Nickel (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)	0.351	0.371	0.384	0.397	0.42	0.398	0.431	0.426	0.42	0.399
Selenium (Dissolved)	0.0011	<0.001	<0.001	0.0012	<0.001	<0.001	<0.001	0.00085	0.00079	0.00075
Silicon (Dissolved)	3.67	3.93	5.09	4.58	4.68	3.62	3.69	3.87	4.02	3.91
Sodium (Dissolved)	3.75	3.91	3.99	4.22	4.24	4.23	4.3	4.33	4.51	4.31
Strontium (Dissolved)	0.118	0.12	0.116	0.253	0.181	0.229	0.244	0.231	0.251	0.232
Zinc (Dissolved)	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.003	<0.003	<0.0030
Total Metals										
Aluminum (Total)	0.0293	0.0065	0.0052	0.021	<0.009	0.0115	0.0135	0.0163	0.0084	0.015
Antimony (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Total)	0.00035	0.00036	0.00046	0.00037	0.00042	0.0005	0.00045	0.00041	0.00044	0.00052
Barium (Total)	0.00804	0.00728	0.00552	0.00794	0.00622	0.00695	0.00741	0.00772	0.00866	0.00675
Cadmium (Total)	<0.000017	<0.000017	<0.000017	<0.000017	0.000021	<0.000017	<0.00001	<0.00001	<0.00001	<0.000010
Calcium (Total)	25.7	24.9	25.6	31.6	31.5	31.6	39.5	36.3	34.5	33.9
Chromium (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Total)	0.00218	0.00198	0.00168	0.00278	0.00173	0.0021	0.00158	0.0016	0.00167	0.00134
Iron (Total)	0.065	<0.03	0.037	0.063	0.035	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Total)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Total)	4.1	3.86	3.82	4.69	4.28	4.55	5.13	5.16	5.22	4.92
Manganese (Total)	0.122	0.0462	0.165	0.282	0.129	0.0464	0.0538	0.0319	0.0215	0.0458
Molybdenum (Total)	0.00082	0.000743	0.000666	0.00222	0.00159	0.00209	0.00194	0.00216	0.00224	0.00213
Nickel (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)	0.365	0.386	0.38	0.349	0.418	0.406	0.458	0.434	0.449	0.409
Selenium (Total)	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.00076	0.00083	0.00073
Silicon (Total)	3.6	3.92	4.95	4.57	4.58	3.5	3.79	4.02	4.28	4.01
Sodium (Total)	3.78	3.9	3.87	4.03	4.23	4.19	4.4	4.39	4.83	4.39
Strontium (Total)	0.121	0.122	0.114	0.234	0.179	0.225	0.253	0.237	0.264	0.23
Zinc (Total)	<0.001	<0.001	<0.001	<0.002	0.002	<0.001	<0.003	<0.003	<0.003	<0.0030
Organics										
Carbon Organic (Dissolved)	5.44	5.14	6.26	5.01	4.7	4.71	5.1	5.19	4.85	5.3

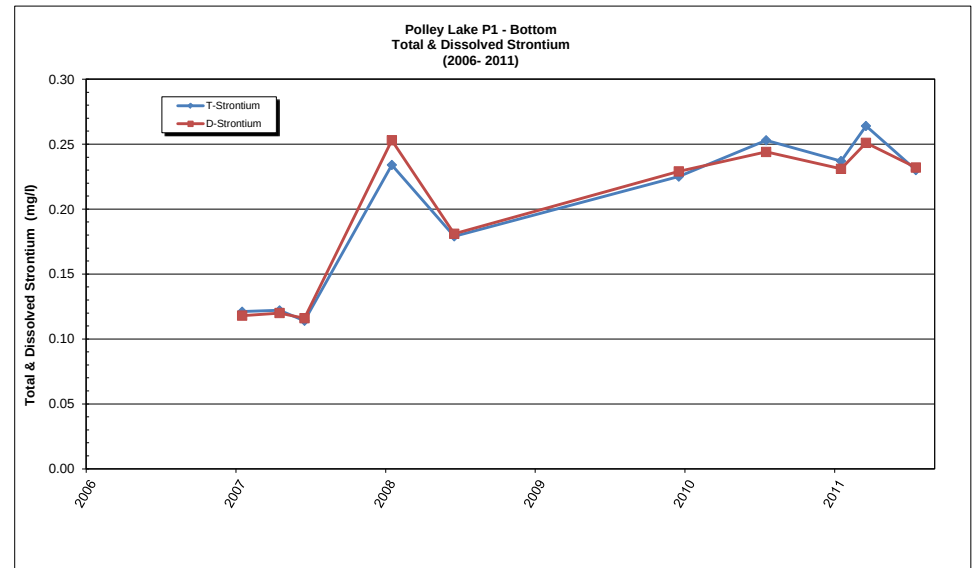
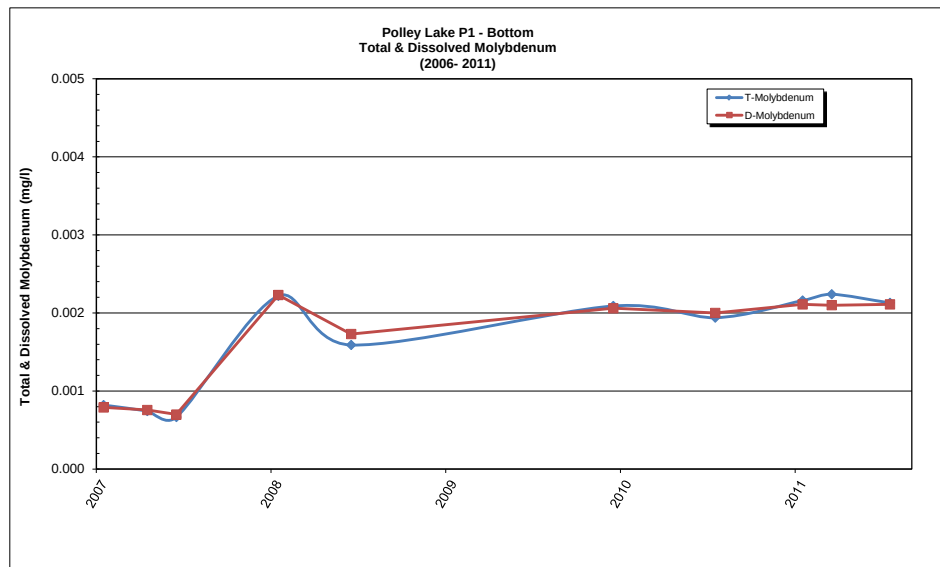
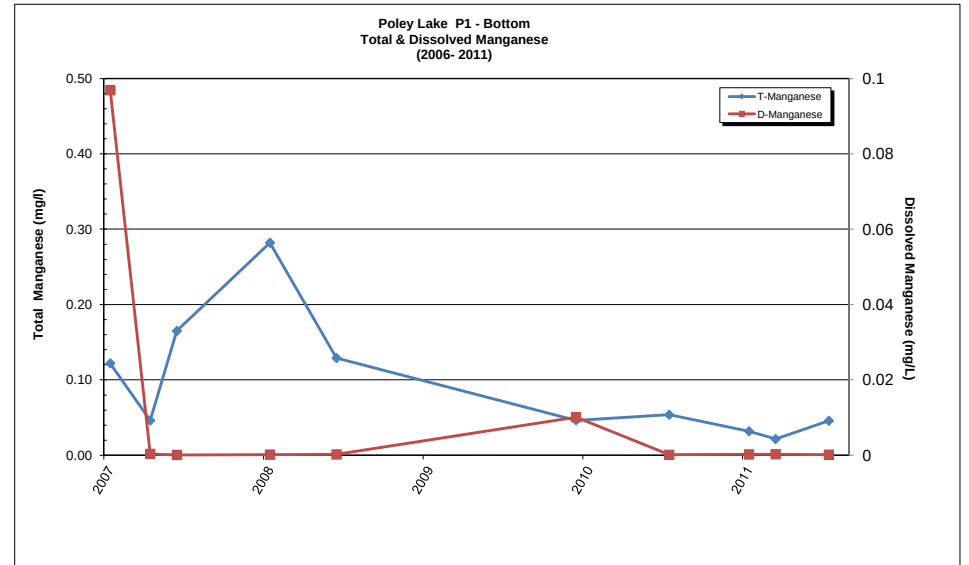
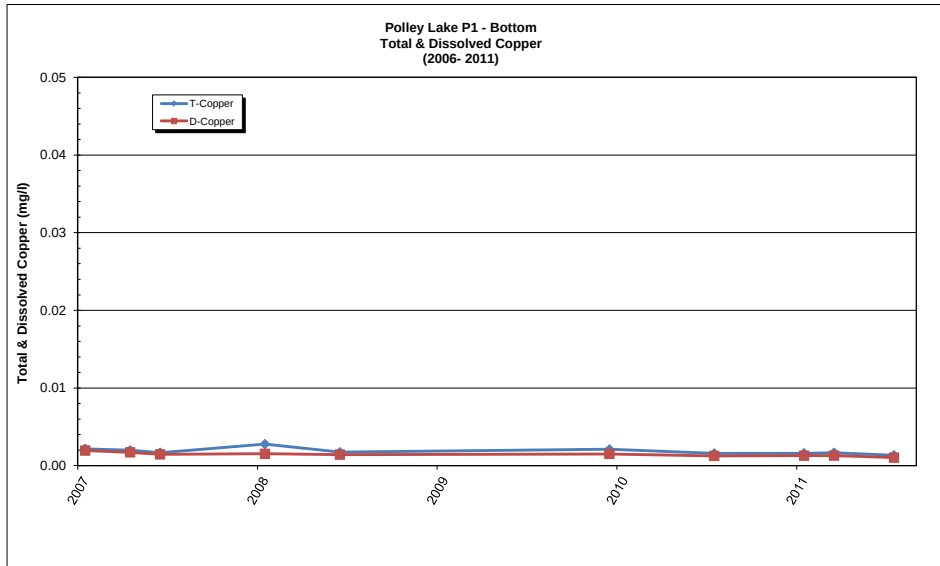
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Water Quality at Polley Lake
P1-Bottom



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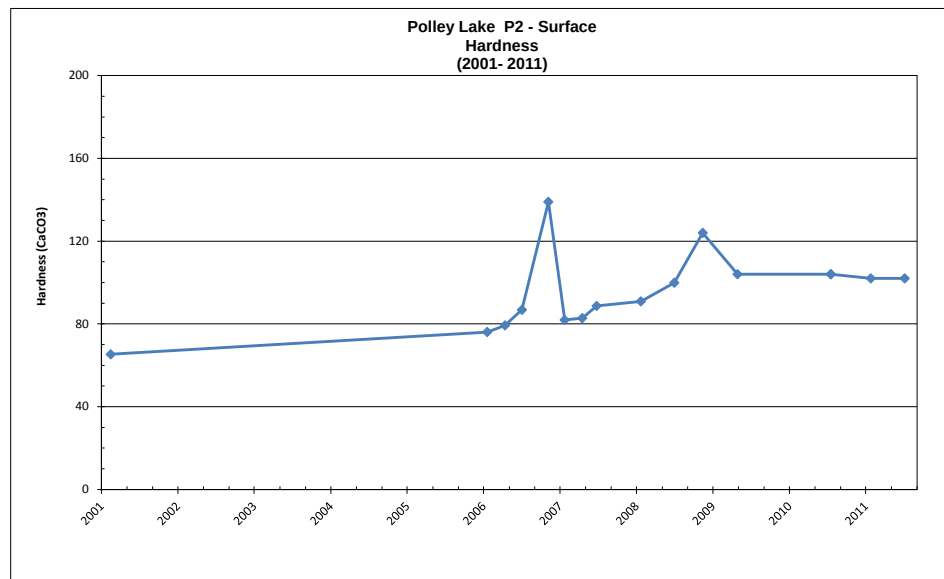
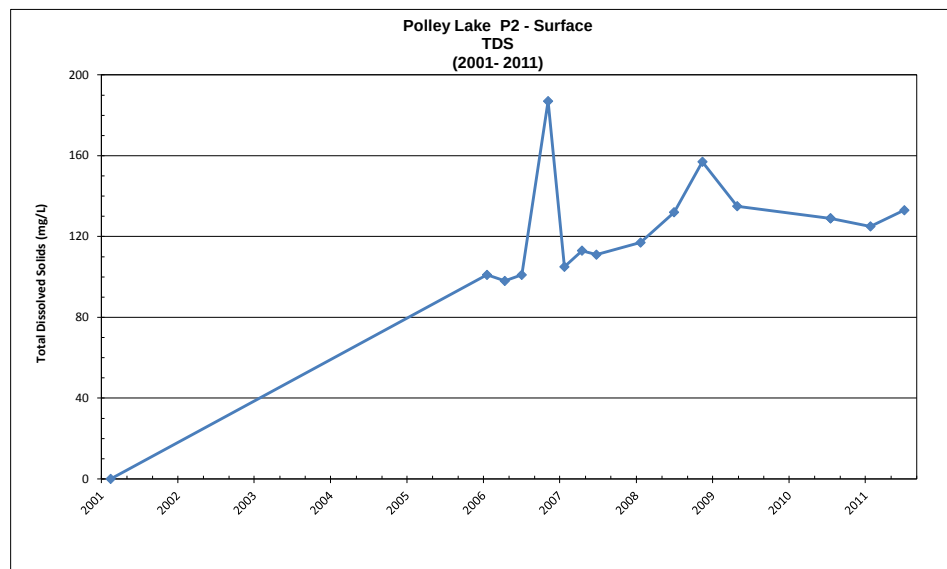
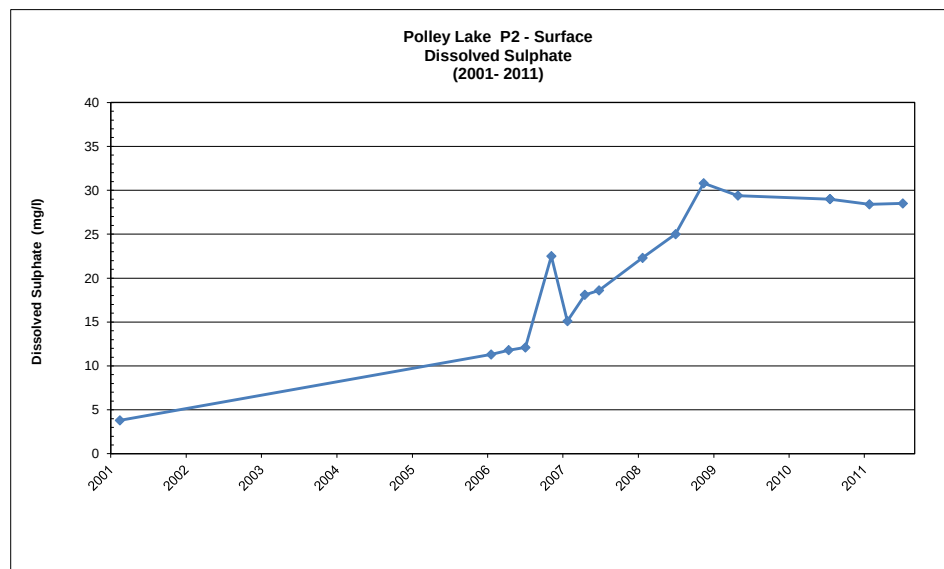
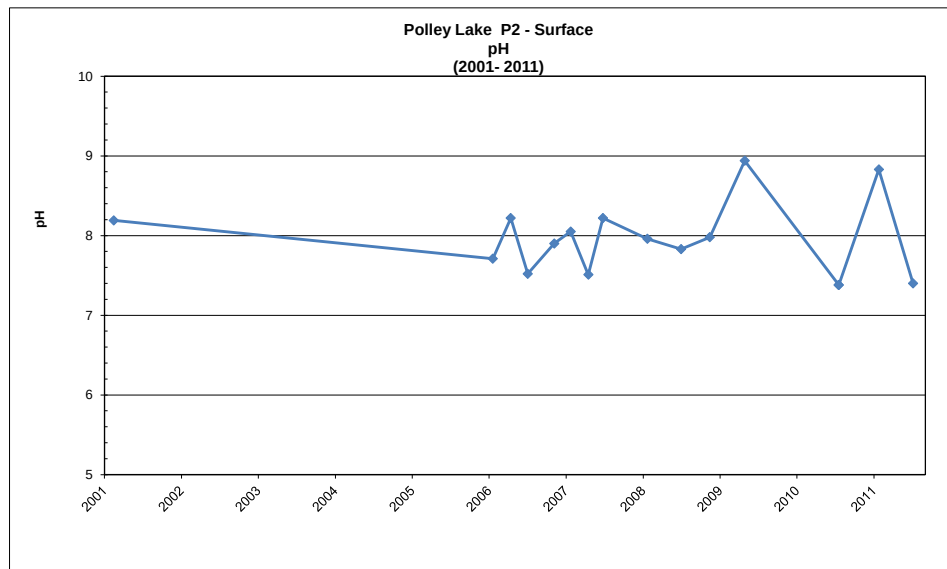
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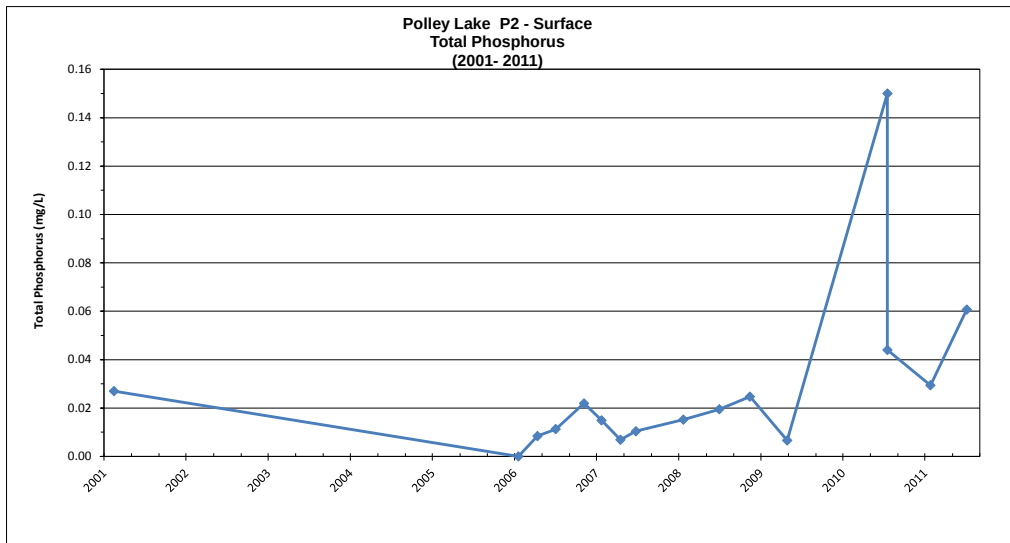
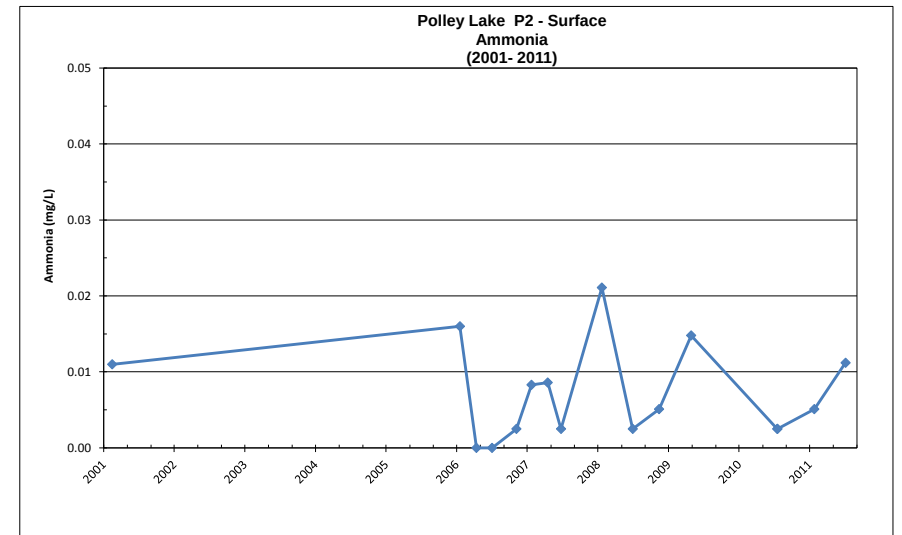
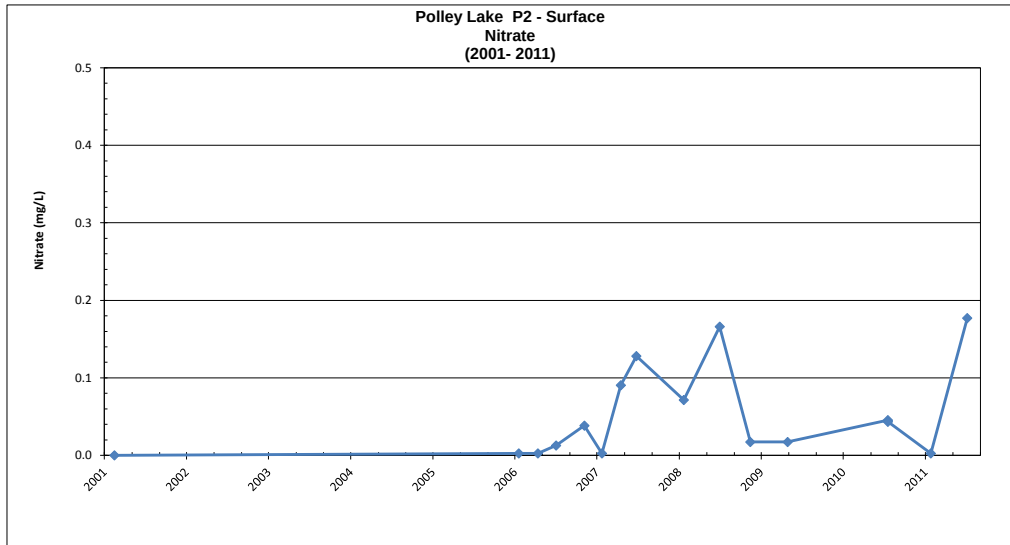
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Water Quality at Site P2 - Surface (Polley Lake)

Date/Time Sampled	14-Jun-01	18-May-06	11-Aug-06	31-Oct-06	6-Mar-07	23-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	13-Mar-09	26-Aug-09	15-Nov-10	25-May-11	3-Nov-11
In Situ Parameters															
pH	8.19	7.71	8.22	7.52	7.9	8.05	7.51	8.22	7.96	7.83	7.98	8.94	7.38	8.83	7.4
Conductivity (µS/cm)	141	156	159	64	175	116	184	174	115		126	207	212	203	220
Temperature (°C)	12.4	13.9	19	6.43	0.74	9.43	20.9	8	4.69	6.79	0.39	18	6.7	9.7	6.29
Physical Tests															
Alkalinity (as CaCO3)	66	73.9	76.8	87.5	128	72	74.5	74.4	83.8	76.3	92.6	76.6	78.2	73.1	79.3
Hardness	65.3	76.1	79.3	86.8	139	81.9	82.8	88.7	90.9	99.9	124	104	104	102	102
Total Dissolved Solids		101	98	101	187	105	113	111	117	132	157	135	129	125	133
Total Suspended Solids	<4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	4.5	<3	<3	<3.0
Turbidity (NTU)	0.57	0.35	0.61	1.14	1.31	1.02	0.73	0.96	0.83	0.88	1.06	0.78	1.14	0.84	2.24
Dissolved Anions															
Chloride (Total)													<0.5	<0.5	<0.50
Sulphate (Dissolved)	3.8	11.3	11.8	12.1	22.5	15.1	18.1	18.6	22.3	25	30.8	29.4	29	28.4	28.5
Nutrients															
Ammonia (Total)	0.011	0.016	<0.02	<0.02	<0.005	0.0083	0.0086	<0.005	0.0211	<0.005	0.0051	0.0148	<0.005	0.0051	0.0112
Nitrate		<0.005	<0.005	0.0127	0.0383	<0.005	0.0904	0.128	0.0714	0.166	0.0172	0.0172	0.0433	<0.005	0.177
Nitrate+Nitrite (Dissolved)	<0.005	<0.005	<0.005	0.0133	0.0383	<0.005	<0.005	0.0089	0.0408	0.0543	0.144	0.0125	0.0433	<0.0051	0.179
Nitrite		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018	<0.001	<0.0010	<0.001	<0.001	0.0013
Nitrogen (Total)	<0.12	0.184	0.218	0.296	0.53	0.38	0.34	0.37	0.22	0.15	0.4	0.14	0.18	0.24	0.33
Orthophosphate	0.026	0.0011	<0.001	0.002	0.0053	<0.001	<0.001	0.0011	<0.001	0.0076	0.0169	<0.001	0.0383	0.014	0.0487
Phosphorus (Dissolved)	0.032	0.0048	0.0043	0.0053	0.0099	0.0042	0.0034	0.0036	0.0048	0.0117	0.023	<0.002	0.0394	0.0159	0.0525
Phosphorus (Total)	0.027		0.0084	0.0113	0.0219	0.0149	0.0069	0.0104	0.0152	0.0195	0.0247	0.0066	0.044	0.0294	0.0607
Dissolved Metals															
Aluminum (Dissolved)	0.0037	0.0037	0.0023	0.0015	0.001	0.0018	0.0018	<0.001	0.0012	0.0016	<0.001	0.0039	<0.003	0.0036	<0.0030
Antimony (Dissolved)	0.00019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Dissolved)	0.0003	0.00031	0.00039	0.00035	0.00065	0.00032	0.00036	0.00036	0.00033	0.00038	0.00046	0.00038	0.00046	0.00039	0.00057
Barium (Dissolved)	0.00461	0.00425	0.00534	0.00581	0.0104	0.00615	0.00618	0.0065	0.00658	0.00683	0.00788	0.00715	0.00691	0.0065	0.00601
Cadmium (Dissolved)	0.00004	<0.00005	<0.00005	<0.00005	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	0.000021	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)	21.3	24.5	25.6	27.7	43.7	25.9	26.4	28.7	29.3	32.6	40.4	33.6	33.7	33.2	33
Chromium (Dissolved)	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)		<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Dissolved)	0.0027	0.00179	0.00221	0.00179	0.00339	0.00185	0.00179	0.00174	0.00165	0.00164	0.00216	0.00392	0.00135	0.00147	0.00104
Iron (Dissolved)	<0.005	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)	0.00006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000051	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)	2.94	3.62	3.73	4.25	7.18	4.18	4.12	4.17	4.33	4.49	5.56	4.86	4.95	4.72	4.81
Manganese (Dissolved)	0.00113	0.00214	0.000521	0.00105	0.00054	0.0213	0.000614	0.000107	0.0016	0.000266	0.00064	0.000187	0.000114	0.000367	0.000137
Molybdenum (Dissolved)	0.00079	0.000646	0.000712	0.000715	0.00131	0.000839	0.000927	0.00105	0.00172	0.00199	0.00232	0.00222	0.00196	0.00199	0.00211
Nickel (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)	0.43	<2	0.352	0.358	0.715	0.347	0.349	0.369	0.349	0.394	0.522	0.464	0.434	0.396	0.414
Selenium (Dissolved)	<0.0005	0.001	0.0012	0.0011	0.0016	0.0011	0.0012	<0.001	0.0012	0.0011	0.0014	0.0011	<0.001	0.00075	0.00074
Silicon (Dissolved)	3.46	3.22	2.74	3.43	6.05	3.47	2.91	3.52	3.57	3.69	5.02	3.46	3.61	3.57	3.99
Sodium (Dissolved)	3.61	3.7	3.93	3.92	7.3	3.7	4.03	4.29	3.98	4.27	5.07	4.3	4.49	4.11	4.38
Strontium (Dissolved)	0.0908	0.104	0.115	0.116	0.213	0.116	0.129	0.142	0.193	0.189	0.233	0.234	0.235	0.212	0.233
Zinc (Dissolved)	0.0065	<0.001	<0.001	0.0013	0.0194	<0.001	<0.001	<0.001	<0.001	<0.001	0.0432	0.0031	<0.003	<0.003	<0.0030
Total Metals															
Aluminum (Total)	0.0062	0.0043	0.0052	0.0097	0.0076	0.0105	0.0048	0.0106	0.0316	0.0045	0.0108	0.011	0.01	0.0197	0.0121
Antimony (Total)	0.00013	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Total)	0.0004	0.00034	0.00036	0.00037	0.00071	0.00034	0.00037	0.0004	0.00047	0.00042	0.00047	0.00039	0.00045	0.00039	0.00054
Barium (Total)	0.00389	0.00465	0.00529	0.00605	0.0111	0.00668	0.00645	0.00706	0.00747	0.00693	0.00861	0.00725	0.00747	0.00669	0.00661
Cadmium (Total)	<0.00002	<0.00005	<0.00005	<0.00005	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Total)	20.8	24.6	26.2	27.8	48.8	26.2	26.6	29	29.3	32.8	38.2	31.1	33.4	33.2	33.5
Chromium (Total)	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)		<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Total)	0.0024	0.00194	0.00196	0.002	0.00436	0.00205	0.00196	0.00206	0.0034	0.0019	0.00352	0.00419	0.00169	0.00179	0.00122
Iron (Total)	0.076	<0.03	<0.03	<0.03	0.037	0.097	<0.03	<0.03	<0.03	<0.03	0.085	<0.03	<0.03	<0.03	<0.030
Lead (Total)	0.00002	<0.00005	<0.00005	<0.00005	0.000077	<0.00005	<0.00005	<0.00005	0.000147	<0.00005	<0.00005	0.000055	<0.00005	<0.00005	<0.000050
Magnesium (Total)	3.12	3.69	3.8	4.22	6.99	4.21	4.19	4.19	4.29	4.61	5.38	4.74	4.94	4.69	4.88
Manganese (Total)	0.00501	0.008	0.0051	0.0115	0.00167	0.0401	0.00491	0.0153	0.0151	0.0243	0.00171	0.00614	0.0366	0.00958	0.0676
Molybdenum (Total)	0.00084	0.00062	0.000666	0.000719	0.00129	0.000788	0.000921	0.00101	0.00168	0.00192	0.00248	0.00228	0.00206	0.00197	0.00215
Nickel (Total)	<0.0005	<0.0005	<0.0005	<0.0005	0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)	0.33	0.339	<2	<2	0.728	0.364	0.372	0.378	0.357	0.396	0.562	0.414	0.357	0.402	0.406
Selenium (Total)	<0.0005	<0.001	0.0012	0.0011	0.0019	0.001	0.0012	0.0012	0.0011	0.0013	0.0013	0.0011	<0.001	0.00074	0.00069
Silicon (Total)	3.4	3.28	2.8	3.45	6.5	3.51	2.94	3.56	3.57	3.77	4.83	3.31	3.63	3.6	4.08
Sodium (Total)	5.5	3.67	3.84	4	7.46	3.75	4.13	4.33	3.95	4.28	5.36	4.31	4.55	4.15	4.33
Strontium (Total)	0.0918	0.106	0.114	0.118	0.222	0.119	0.134	0.147	0.195	0.191	0.241	0.239	0.242	0.21	0.23
Zinc (Total)	0.0045	0.001	<0.001	<0.001	0.0296	<0.001	<0.001	<0.001	0.0042	0.0016	0.0599	0.0017	<0.003	<0.003	<0.0030
Organics															
Carbon Organic (Dissolved)	14.1	6.5	5	5.33	9.48	5.46	5.59	6.26	5.18	4.82	5.79	5.89	5.31	5.48	5.29

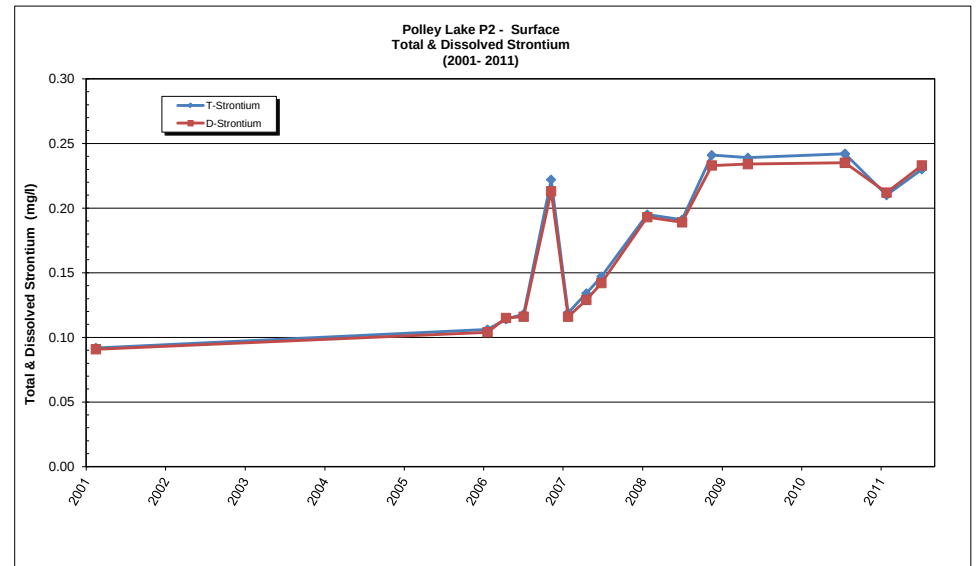
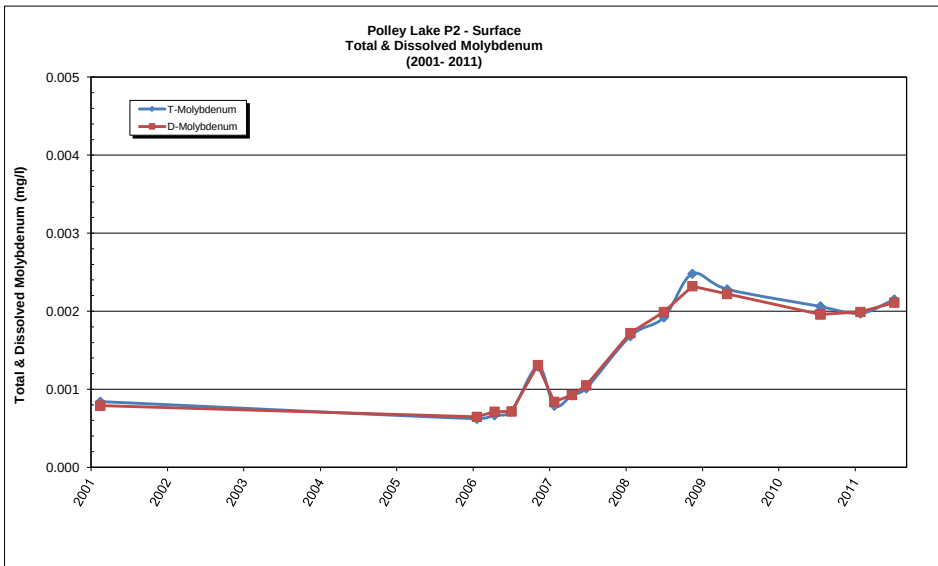
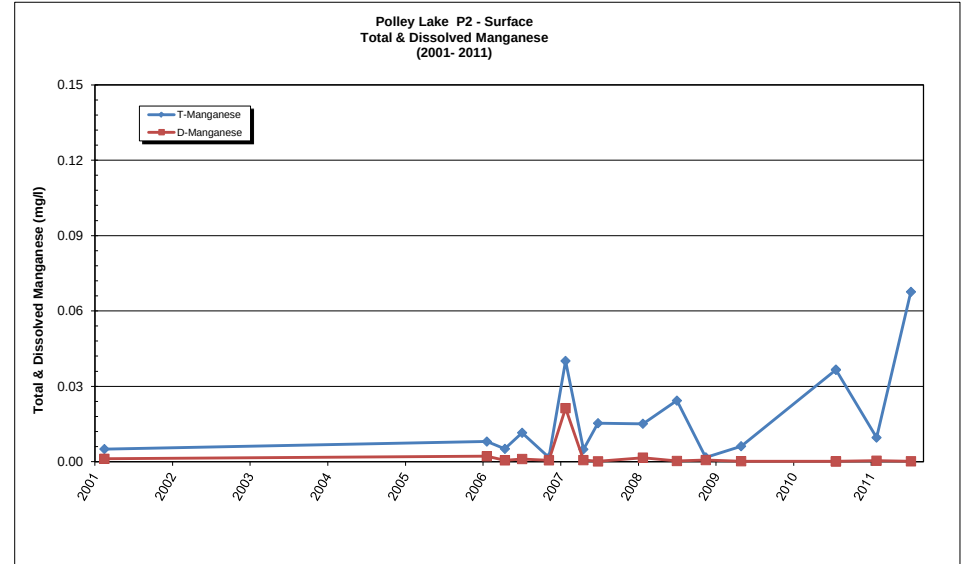
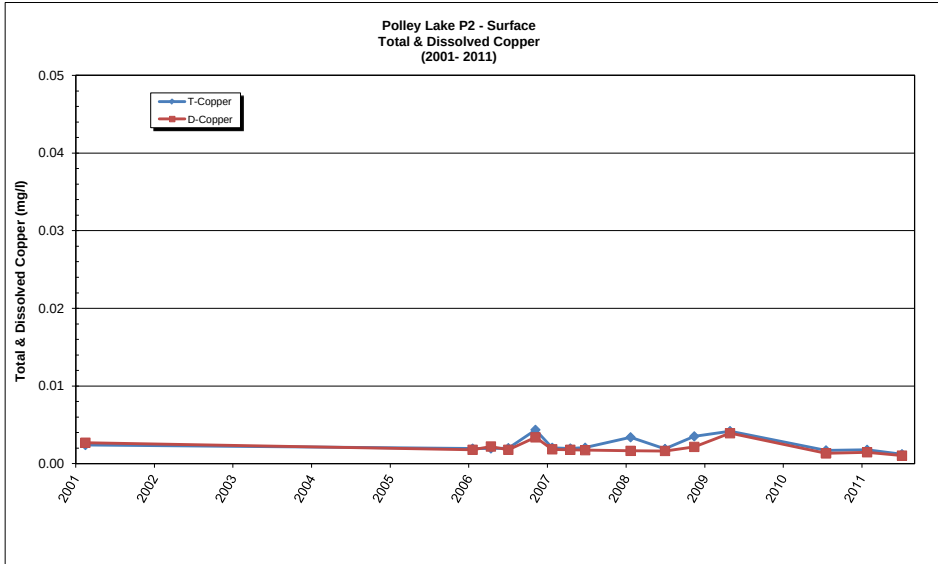
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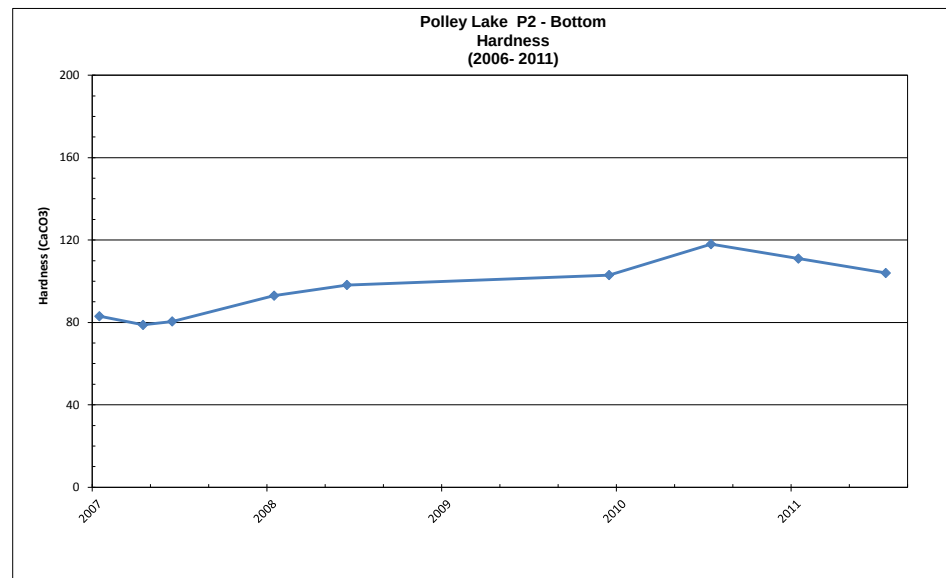
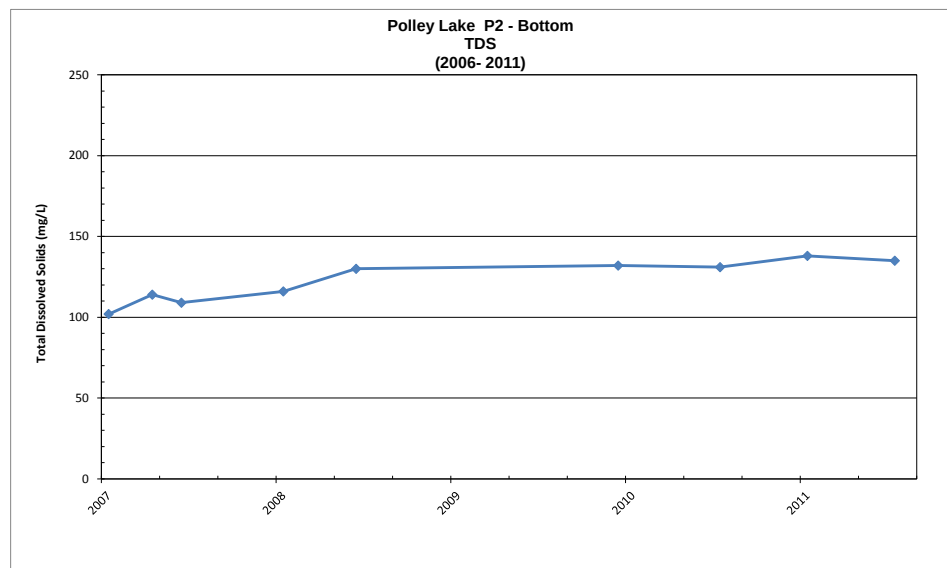
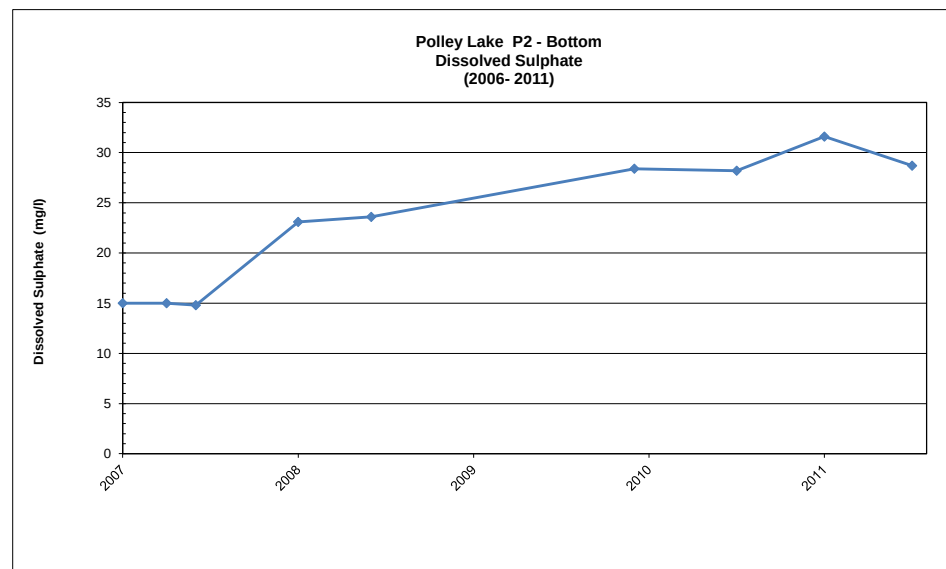
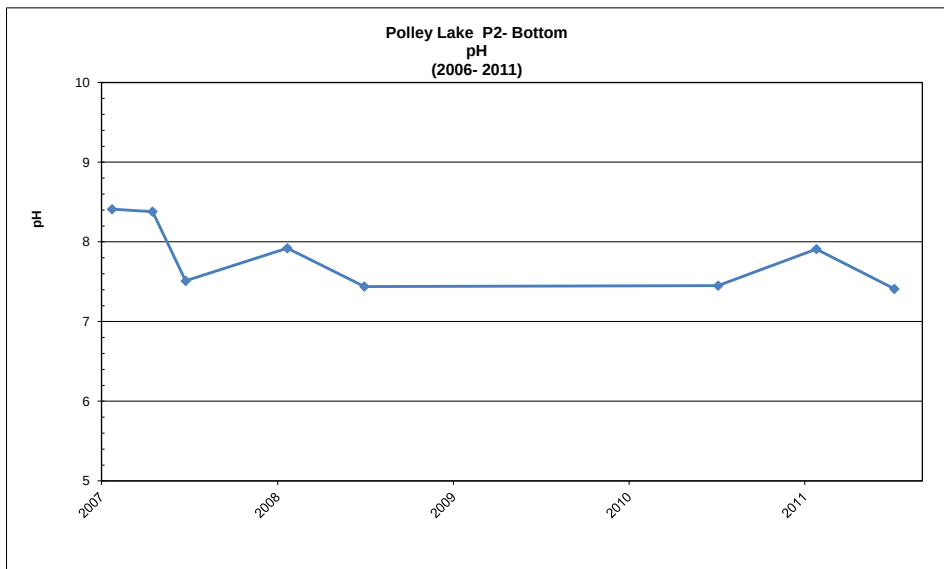
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Water Quality at Polley Lake
P2-Surface



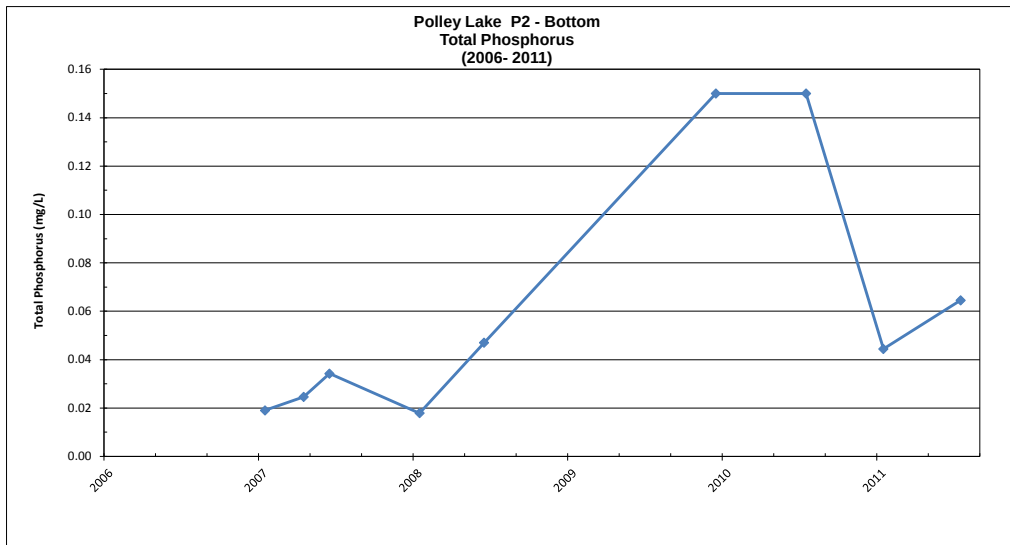
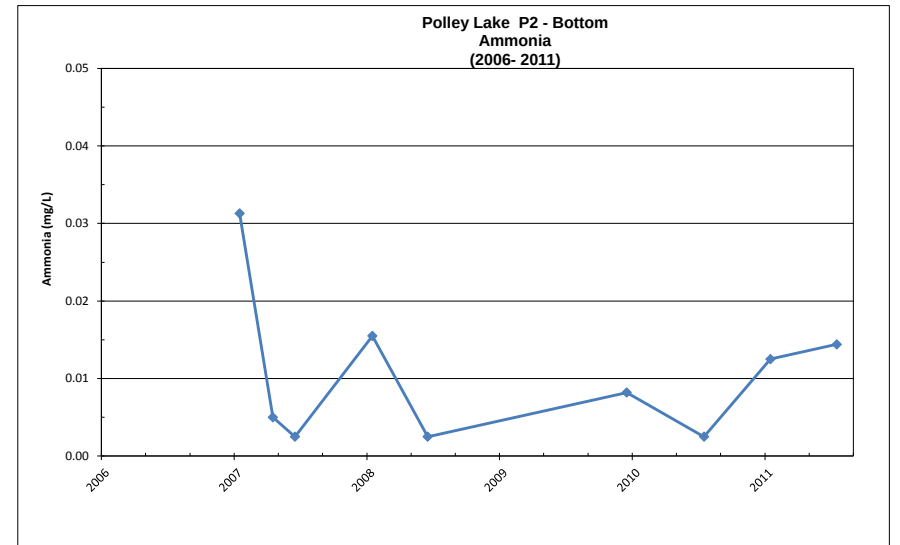
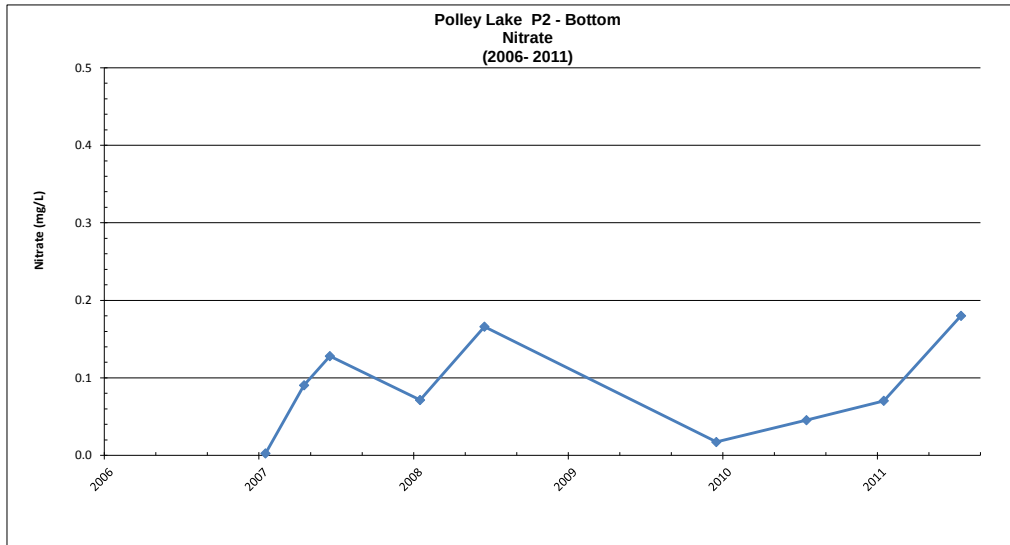
Annual Report 2011
Water Quality at Site P2 - Bottom (Polley Lake)

Date/Time Sampled	23-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	26-Apr-10	2-Nov-10	25-May-11	3-Nov-11
In Situ Parameters									
pH	8.41	8.38	7.51	7.92	7.44		7.45	7.91	7.41
Conductivity (µS/cm)	111	173	167	116			142	213	234
Temperature (°C)	7.47	5.41	5.77	4.2	5.73		7.57	4	6.22
Physical Tests									
Alkalinity (as CaCO3)	72.5	73.3	73.9	77.8	76.4	78.4	78.5	78.6	79.4
Hardness (Dissolved)	83	78.8	80.5	93	98.2	103	118	111	104
Total Dissolved Solids	102	114	109	116	130	132	131	138	135
Total Suspended Solids	<3	<3	<3	4.2	<3	3.3	<3	3.4	<3.0
Turbidity (NTU)	1.23	1.06	1.3	1.38	1.35	1.25	0.9	0.89	2.73
Dissolved Anions									
Chloride (Total)						<0.5	<0.5	<0.5	<0.50
Sulphate (Dissolved)	15	15	14.8	23.1	23.6	28.4	28.2	31.6	28.7
Nutrients									
Ammonia (Total)	0.0313	0.005	<0.005	0.0155	<0.005	0.0082	<0.005	0.0125	0.0144
Nitrate	<0.005	0.0904	0.128	0.0714	0.166	0.0172	0.0454	0.0704	0.18
Nitrate+Nitrite (Dissolved)	<0.005	0.0904	0.128	0.0732	0.166	0.0172	0.0454	0.0704	0.186
Nitrite								<0.001	0.0061
Nitrogen (Total)	0.33	0.42	0.46	0.18	0.26	0.22	0.23	0.27	0.37
Orthophosphate	0.0014	0.0144	0.0251	0.0018	0.0365	0.0093	0.0424	0.0359	0.0488
Phosphorus (Dissolved)	0.0048	0.0169	0.0261	0.0053	0.0405	<0.3	<0.3	0.0388	0.0562
Phosphorus (Total)	0.019	0.0246	0.0342	0.0179	0.047	<0.3	<0.3	0.0444	0.0645
Dissolved Metals									
Aluminum (Dissolved)	0.0018	0.0011	<0.001	0.0019	0.0012	<0.001	<0.003	<0.003	<0.0030
Antimony (Dissolved)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Dissolved)	0.00032	0.00034	0.00041	0.00032	0.00042	0.00068	0.00044	0.00041	0.00052
Barium (Dissolved)	0.00614	0.0071	0.00588	0.00688	0.00575	0.007	0.00623	0.00747	0.00613
Cadmium (Dissolved)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)	26.3	25.1	25.9	30	32	33.3	38.8	35.9	33.4
Chromium (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Dissolved)	0.00186	0.00172	0.00187	0.00167	0.00156	0.00138	0.00132	0.00133	0.00106
Iron (Dissolved)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)	4.22	3.9	3.87	4.38	4.44	4.78	5.05	5.05	4.9
Manganese (Dissolved)	0.0223	0.000706	0.000305	0.00593	0.000278	0.0266	0.000192	0.00031	0.000173
Molybdenum (Dissolved)	0.00081	0.000786	0.000833	0.00182	0.00182	0.00206	0.00191	0.00211	0.00212
Nickel (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)	0.348	0.368	0.4	0.341	0.421	0.39	0.396	0.429	0.421
Selenium (Dissolved)	<0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	0.00083	0.00076
Silicon (Dissolved)	3.49	3.79	4.49	3.63	4.33	3.67	3.67	4.03	4.07
Sodium (Dissolved)	3.77	3.96	4.39	3.94	4.26	4.15	4.12	4.36	4.38
Strontium (Dissolved)	0.118	0.119	0.127	0.199	0.184	0.226	0.218	0.234	0.234
Zinc (Dissolved)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.003	<0.003	<0.0030
Total Metals									
Aluminum (Total)	0.0109	0.0246	0.0076	0.0171	0.0053	0.0255	0.0096	0.0202	0.0193
Antimony (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Total)	0.00033	0.00034	0.00045	0.00034	0.00045	0.00074	0.00039	0.0004	0.00055
Barium (Total)	0.00669	0.00774	0.0064	0.00706	0.00633	0.00741	0.00617	0.00812	0.00712
Cadmium (Total)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Total)	25.4	24.9	26.4	29.7	33.2	32.3	39.2	36.4	33.1
Chromium (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Total)	0.00202	0.00245	0.00188	0.00198	0.0018	0.00255	0.0015	0.00155	0.00131
Iron (Total)	<0.03	0.06	0.041	0.035	<0.03	0.05	<0.03	<0.03	0.047
Lead (Total)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000072	<0.00005	<0.000050
Magnesium (Total)	4.07	3.85	3.94	4.42	4.51	4.65	5.18	5.15	4.82
Manganese (Total)	0.0443	0.0363	0.0683	0.0317	0.0798	0.0782	0.0377	0.0617	0.104
Molybdenum (Total)	0.000818	0.000771	0.000802	0.00188	0.00175	0.00207	0.00181	0.00213	0.00208
Nickel (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)	0.368	0.374	0.399	0.349	0.424	0.411	0.357	0.431	0.414
Selenium (Total)	0.001	<0.001	<0.001	0.0011	0.0012	<0.001	<0.001	0.00077	0.00069
Silicon (Total)	3.4	3.82	4.61	3.7	4.44	3.68	3.78	4.14	4.07
Sodium (Total)	3.86	3.92	4.34	3.95	4.29	4.16	3.79	4.35	4.28
Strontium (Total)	0.121	0.121	0.127	0.203	0.185	0.222	0.219	0.239	0.228
Zinc (Total)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.003	<0.0030
Organics									
Carbon Organic (Dissolved)	5.55	5.16	6.08	5.26	4.87	4.25	5.18	5.12	5.24

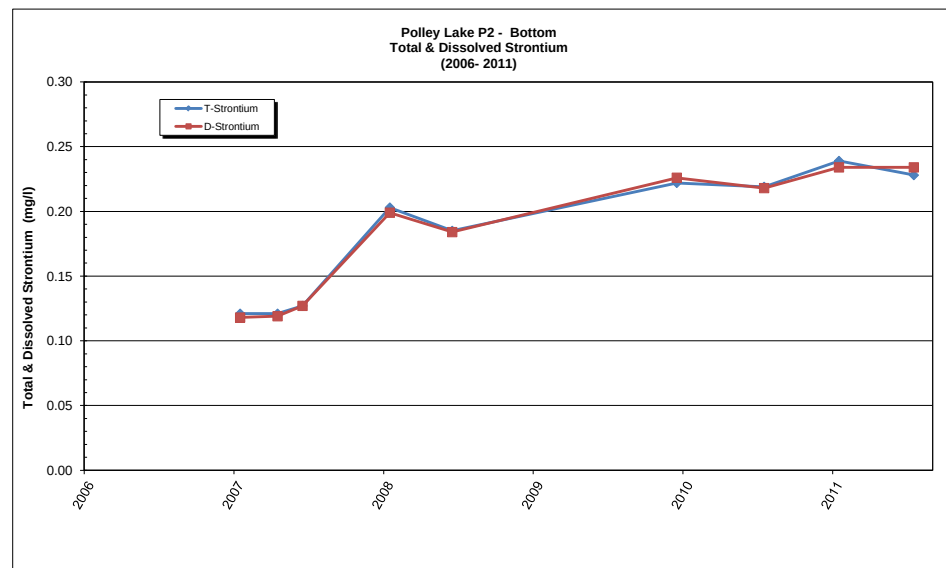
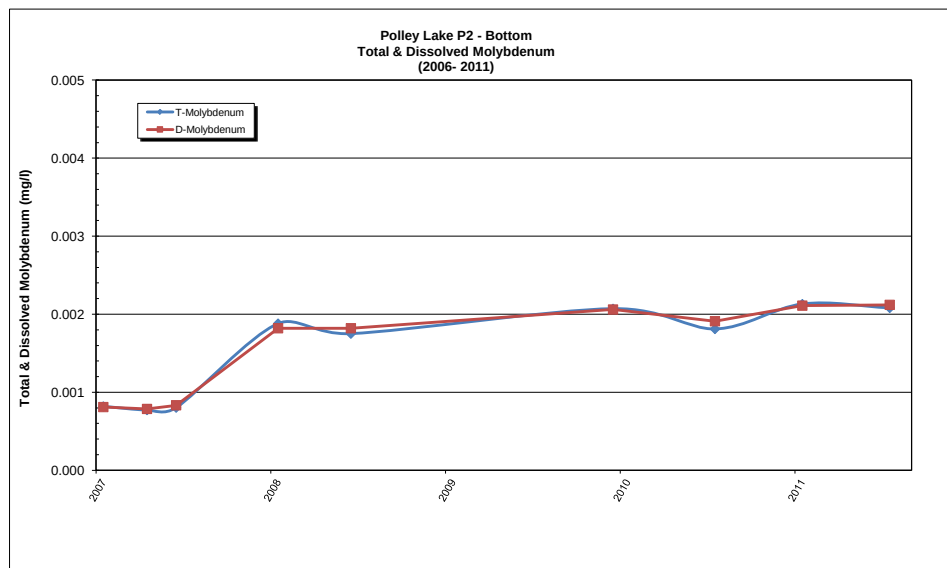
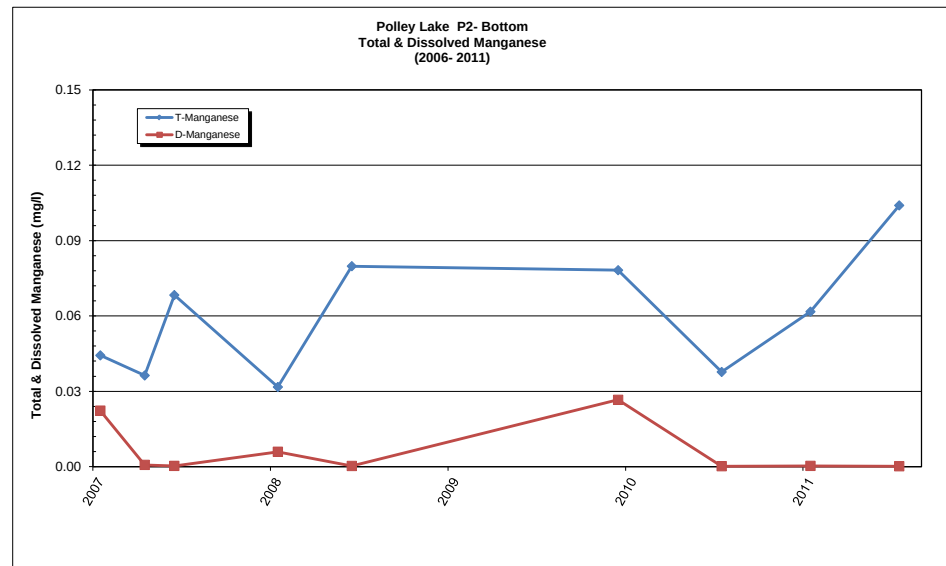
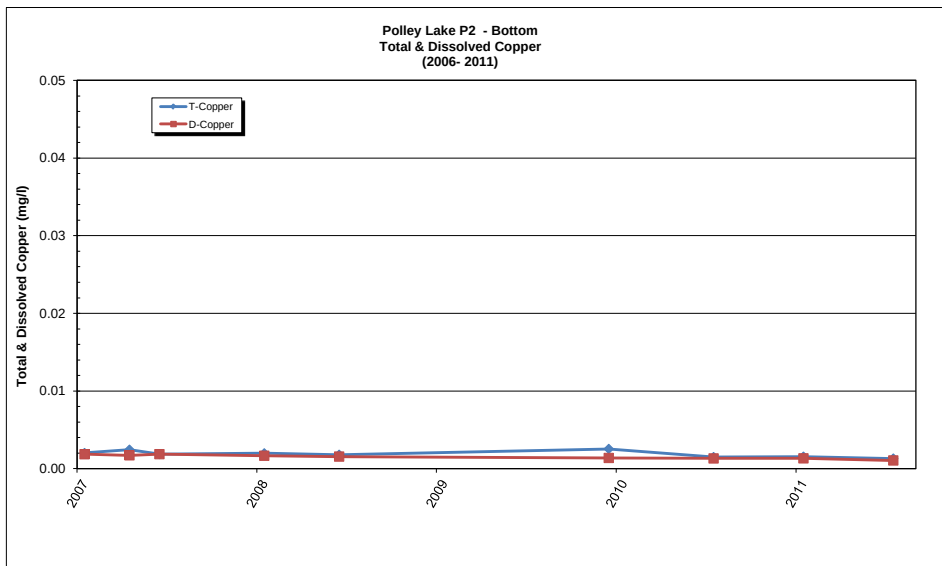
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Water Quality at Polley Lake
P2-Bottom



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Water Quality at Polley Lake
P2-Bottom



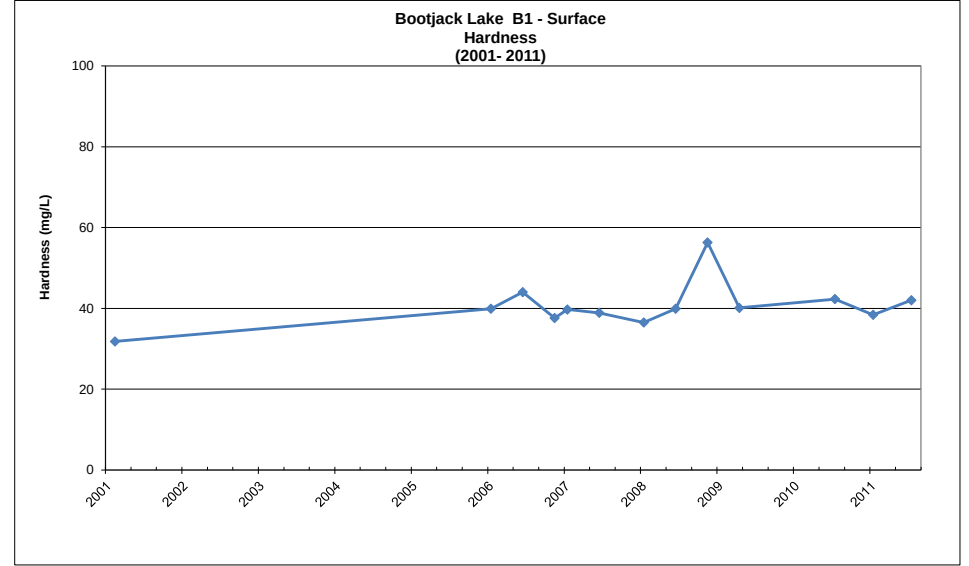
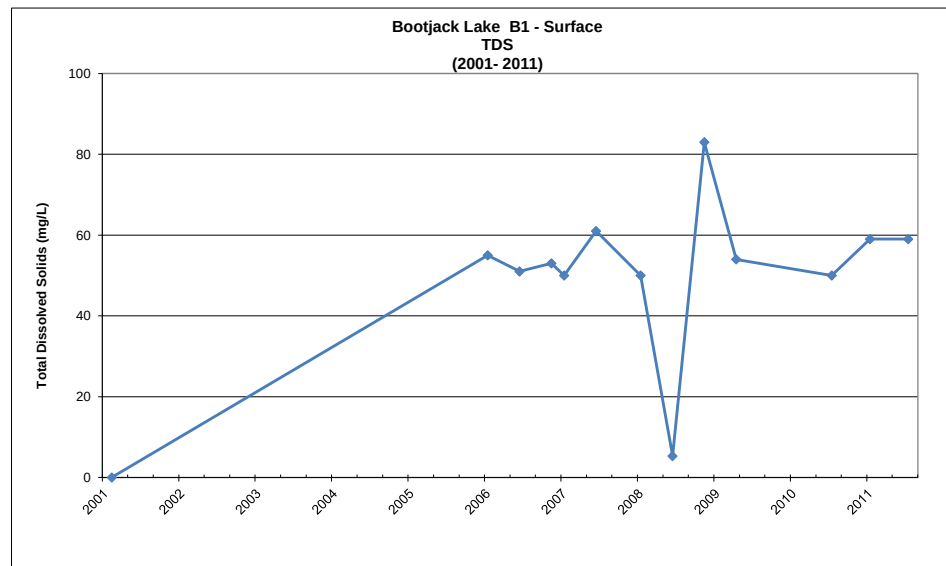
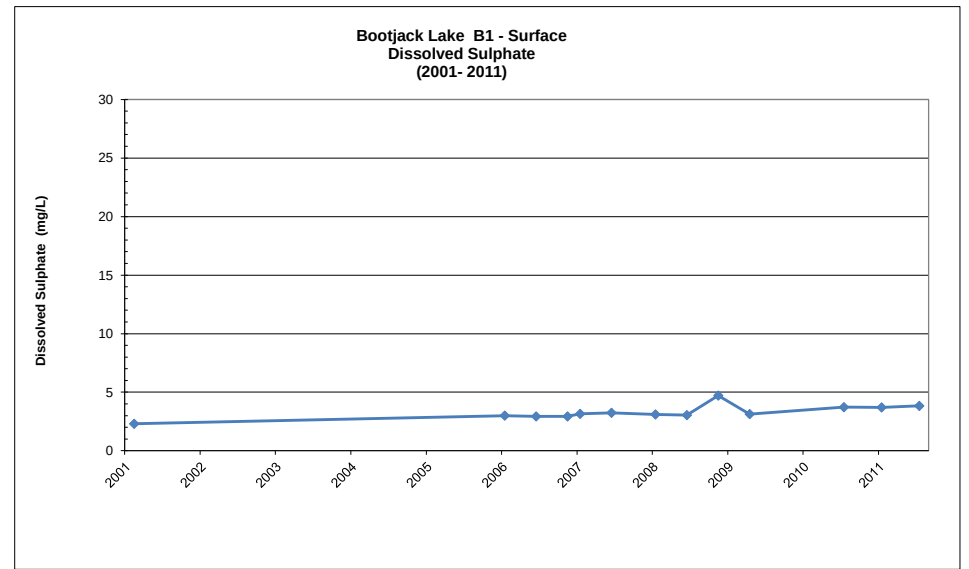
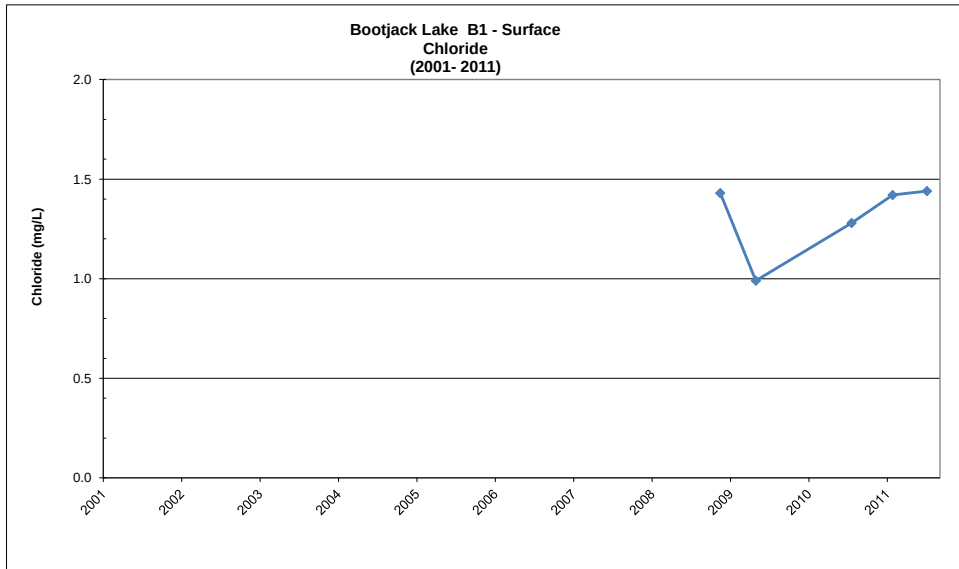
Annual Report 2011
Water Quality at Polley Lake
P2-Bottom



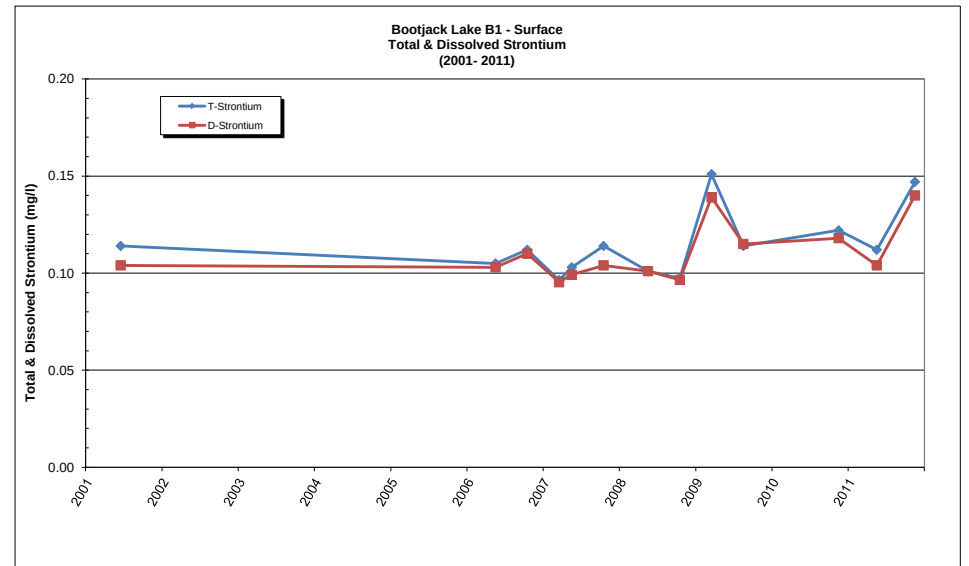
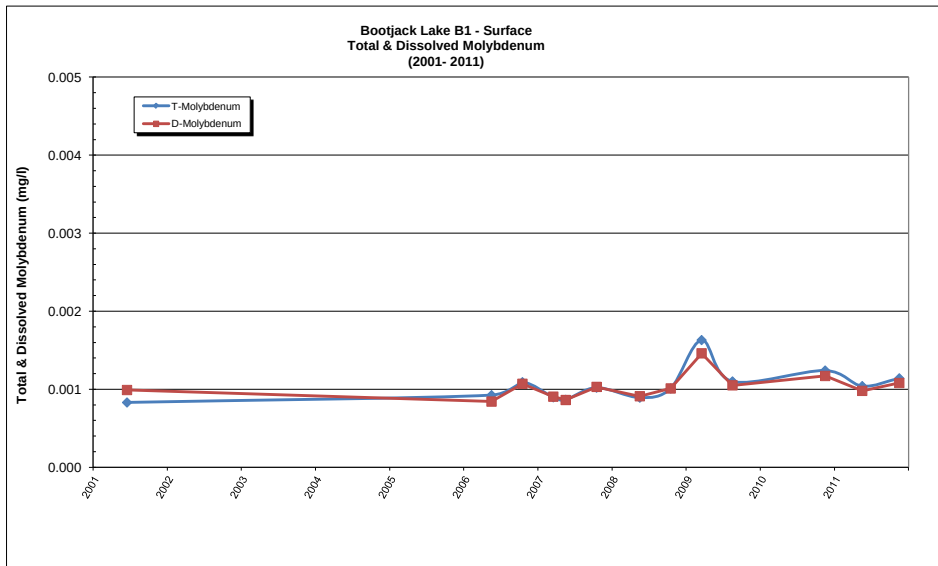
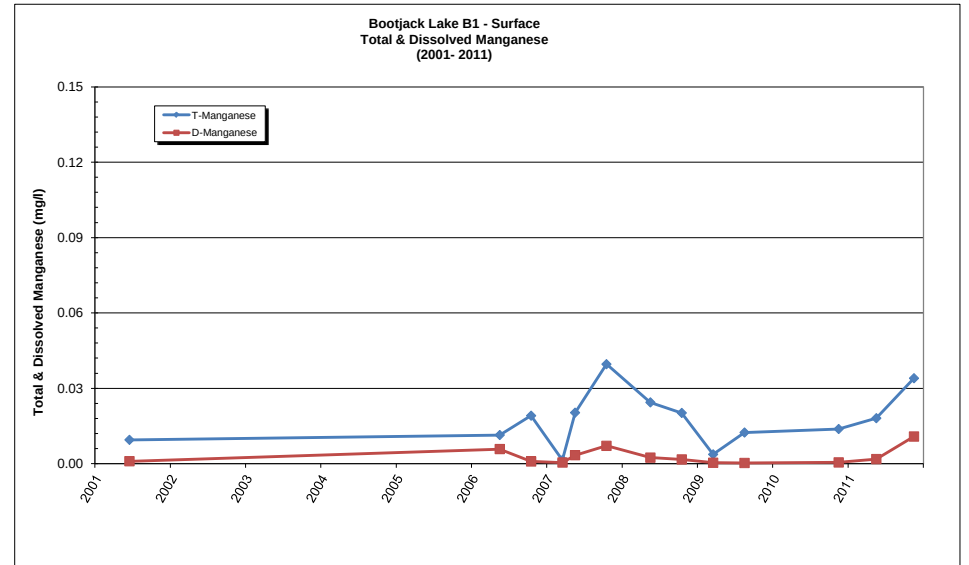
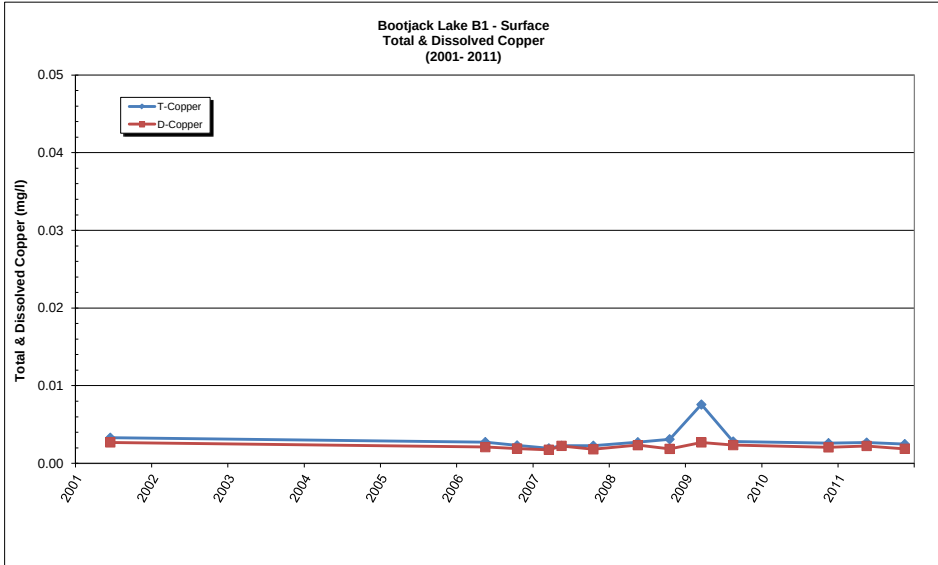
Annual Report 2011
Water Quality at Site B1 - Surface (Bootjack Lake)

Date/Time Sampled	7-Jun-01	23-May-06	31-Oct-06	6-Mar-07	23-May-07	23-Oct-07	21-May-08	27-Oct-08	13-Mar-09	26-Aug-09	15-Nov-10	25-May-11	1-Nov-11
In Situ Parameters													
pH	7.18	7.68	7.57	7.84	8.42	7.96	7.44	8.1	7.16	8.29	7.78	8.05	7.87
Conductivity (µS/cm)	82	80	85	89	58	83	52		65	88	61	67	93
Temperature (°C)	13.2	14.1	5.06	0.71	10.7	6.74	6.78	5.64	0.38	18.2	6.9	8.5	5.4
Physical Tests													
Alkalinity (as CaCO3)	36	35.2	41.5	36.1	37.3	39.8	37.8	43.7	57.4	43.4	40.4	37.6	40.9
Hardness (Total)	31.8	39.9	44	37.6	39.7	38.9	36.5	39.9	56.3	40.1	42.3	38.4	42
Total Dissolved Solids		55	51	53	50	61	50	5.3	83	54	50	59	59
Total Suspended Solids	<4	<3	<3	<3	<3	3.3	<3	158	<3	<3	<3	<3	<3.0
Turbidity (NTU)	0.52	0.57	2.47	0.91	0.98	1.46	1	1.58	1.72	0.86	1.37	0.73	1.53
Dissolved Anions													
Chloride (Total)									1.43	0.99	1.28	1.42	1.44
Sulphate (Dissolved)	2.3	3	2.93	2.93	3.15	3.24	3.1	3.04	4.71	3.13	3.72	3.7	3.83
Nutrients													
Ammonia (Total)	0.012	0.0067	<0.02	<0.005	0.0052	<0.005	0.0093	<0.005	0.0412	0.0057	<0.005	<0.005	<0.0050
Nitrate (Dissolved)	<0.02		<0.005	0.0241	<0.005	<0.005	<0.005	<0.005	0.0168	<0.005	<0.005	<0.005	<0.0050
Nitrate+Nitrite (Dissolved)	<0.005	<0.005	<0.005	0.0255	<0.005	<0.005	<0.005	<0.005	0.0168	<0.005	<0.0051	<0.0051	<0.0051
Nitrite (as N)	<0.005		<0.001	0.0014	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Nitrogen (Total)	<0.12	0.3	0.302	0.29	0.33	0.38	0.18	0.18	0.33	0.24	0.16	0.18	0.13
Orthophosphate	0.005	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.0010
Phosphorus (Dissolved)	0.007	0.0021	0.0029	0.003	0.0032	0.0057	0.0036	0.0055	0.0056	<0.002	<0.3	0.0029	0.0033
Phosphorus (Total)	0.014	0.0041	0.0146	0.0186	0.0098	0.0166	0.0111	0.0146	0.0378	0.0047	<0.3	0.0071	0.0126
Dissolved Metals													
Aluminum (Dissolved)	0.0038	0.0023	0.0019	0.001	0.0052	0.0012	0.013	0.0013	0.0045	0.0035	<0.003	0.0129	<0.0030
Antimony (Dissolved)	0.00019	<0.0001	0.00011	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	0.00013	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Dissolved)	0.0003	0.00024	0.00034	0.00028	0.00027	0.00032	0.00025	0.00032	0.0004	0.00032	0.0003	0.00025	0.00031
Barium (Dissolved)	0.0144	0.0152	0.0167	0.0148	0.0151	0.0157	0.0146	0.0156	0.0233	0.0157	0.0177	0.0156	0.0179
Cadmium (Dissolved)	<0.00002	<0.00005	<0.00005	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	0.000033	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)	10.8	12.2	13.5	11.6	12.1	12	11.2	12.3	17.4	12.3	13.1	11.8	13
Chromium (Dissolved)	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Dissolved)	0.0027	0.00209	0.00191	0.00175	0.00225	0.00181	0.00234	0.00186	0.0027	0.00235	0.00206	0.00224	0.00187
Iron (Dissolved)	<0.005	0.046	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)	0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)	2.04	2.27	2.52	2.12	2.29	2.18	2.07	2.2	3.11	2.27	2.31	2.14	2.3
Manganese (Dissolved)	0.00097	0.00581	0.000873	0.000461	0.00338	0.00709	0.0024	0.00167	0.000364	0.00027	0.00049	0.00182	0.0108
Molybdenum (Dissolved)	0.00099	0.000842	0.00107	0.000905	0.000862	0.00103	0.00091	0.00101	0.00146	0.00105	0.00117	0.000979	0.00108
Nickel (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)	0.53	0.459	0.482	0.451	0.44	0.444	0.404	0.45	0.663	0.456	0.49	0.445	0.472
Selenium (Dissolved)	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Dissolved)	0.74	1.15	1.54	1.2	1.79	1.7	1.93	1.51	1.91	1.52	0.387	1.11	0.4
Sodium (Dissolved)	3.48	2.31	2.46	2.15	2.26	2.37	2.16	2.36	3.5	2.26	2.66	2.34	2.51
Strontium (Dissolved)	0.104	0.103	0.11	0.0953	0.0991	0.104	0.101	0.0965	0.139	0.115	0.118	0.104	0.14
Zinc (Dissolved)	0.0018	0.0017	<0.001	0.0045	<0.001	<0.001	<0.001	<0.001	0.0056	<0.001	<0.003	<0.003	<0.0030
Total Metals													
Aluminum (Total)	0.0092	0.0085	0.0166	0.0044	0.0132	0.018	0.0312	0.0313	0.0344	0.0152	0.0205	0.0335	0.0183
Antimony (Total)	0.0001	0.0001	0.00012	<0.0001	0.0001	0.00011	<0.0001	<0.0001	0.00016	<0.0001	0.00011	<0.0001	<0.00010
Arsenic (Total)	0.0004	0.00024	0.00038	0.0003	0.00028	0.00039	0.00026	0.00035	0.00048	0.0003	0.00036	0.00026	0.00034
Barium (Total)	0.016	0.0156	0.0175	0.0149	0.016	0.0172	0.0156	0.017	0.0265	0.0157	0.0183	0.0164	0.0185
Cadmium (Total)	<0.00002	<0.00005	<0.00005	<0.000017	<0.000017	<0.000017	<0.000017	0.000051	0.000047	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Total)	9.76	12.1	13.5	11.4	12.2	12	11.3	12.2	17.3	11	13	12.2	13.1
Chromium (Total)	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00129	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Total)	0.0033	0.00274	0.00231	0.00193	0.00226	0.00227	0.00272	0.0031	0.00757	0.00281	0.0026	0.00267	0.00248
Iron (Total)	0.03	<0.03	0.068	0.04	0.051	0.082	0.062	0.08	0.104	<0.03	0.068	0.047	0.081
Lead (Total)	0.00012	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00006	0.000113	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Total)	1.81	2.27	2.53	1.96	2.33	2.16	2.1	2.17	3.12	2.15	2.3	2.22	2.34
Manganese (Total)	0.00948	0.0114	0.0191	0.00148	0.0203	0.0396	0.0244	0.0202	0.0037	0.0124	0.0138	0.0181	0.034
Molybdenum (Total)	0.00083	0.000924	0.00109	0.000896	0.000865	0.00102	0.000892	0.00101	0.00163	0.0011	0.00124	0.00104	0.00114
Nickel (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00052	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)	0.58	0.459	<2	0.461	0.463	0.481	0.41	0.49	0.748	0.459	0.484	0.461	0.501
Selenium (Total)	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Total)	0.8	1.16	1.55	1.29	1.83	1.81	1.99	1.61	1.96	1.44	0.482	1.21	0.484
Sodium (Total)	2.6	2.28	2.45	2.14	2.31	2.55	2.17	2.52	3.77	2.27	2.62	2.38	2.6
Strontium (Total)	0.114	0.105	0.112	0.0964	0.103	0.114	0.101	0.0974	0.151	0.114	0.122	0.112	0.147
Zinc (Total)	0.0018	0.004	<0.001	0.0046	<0.001	<0.001	<0.001	0.0026	<0.01	<0.001	<0.003	<0.003	<0.0030
Organics													
Carbon Organic (Dissolved)	7.6	7.16	6.03	5.63	6.6	6.81	6.09	5.76	7.86	6.1	6.05	7.04	6.48

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Water Quality at Bootjack Lake
B1-Surface



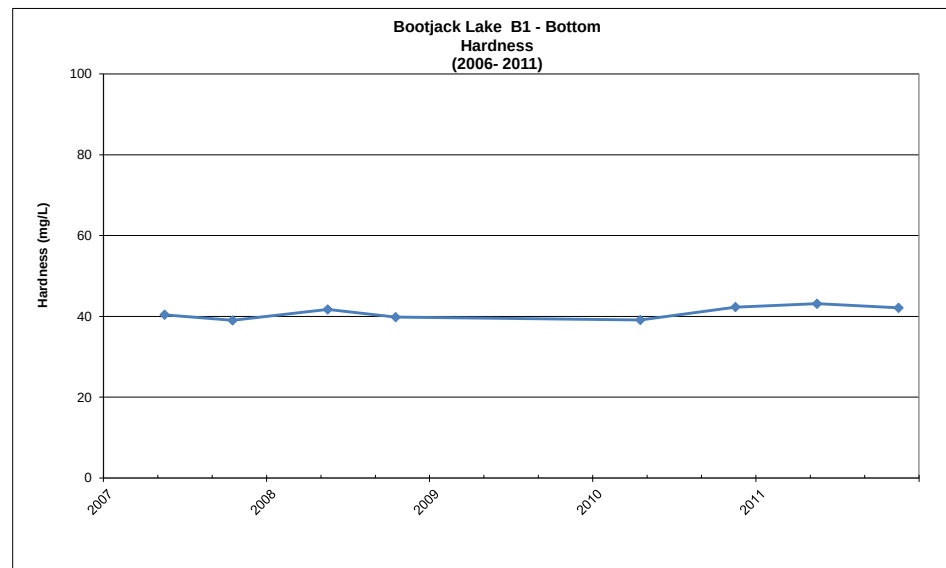
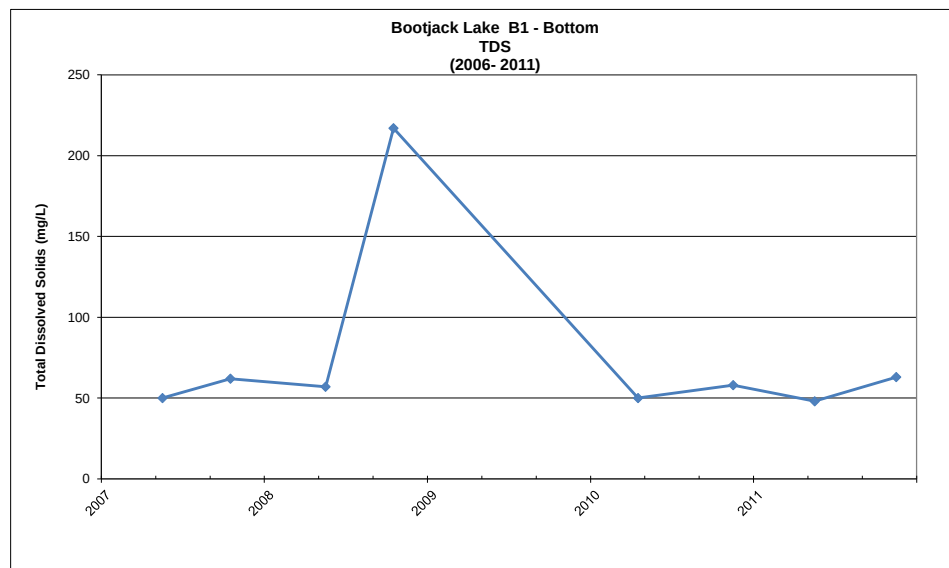
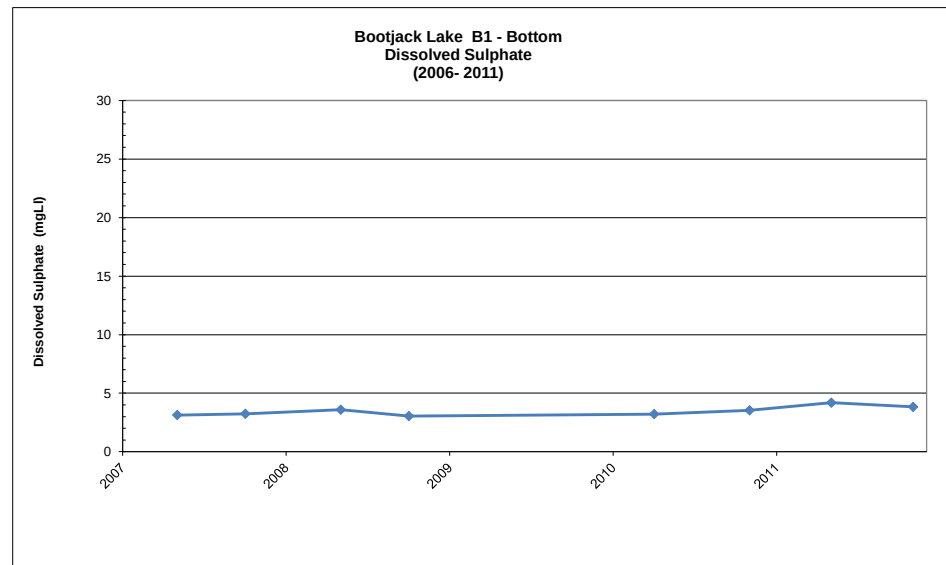
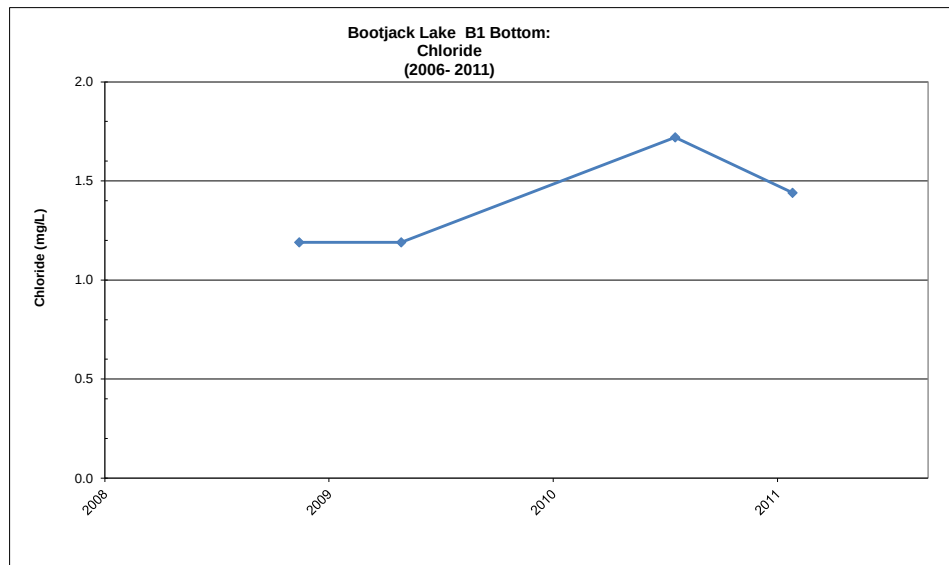
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Water Quality at Bootjack Lake
B1-Surface



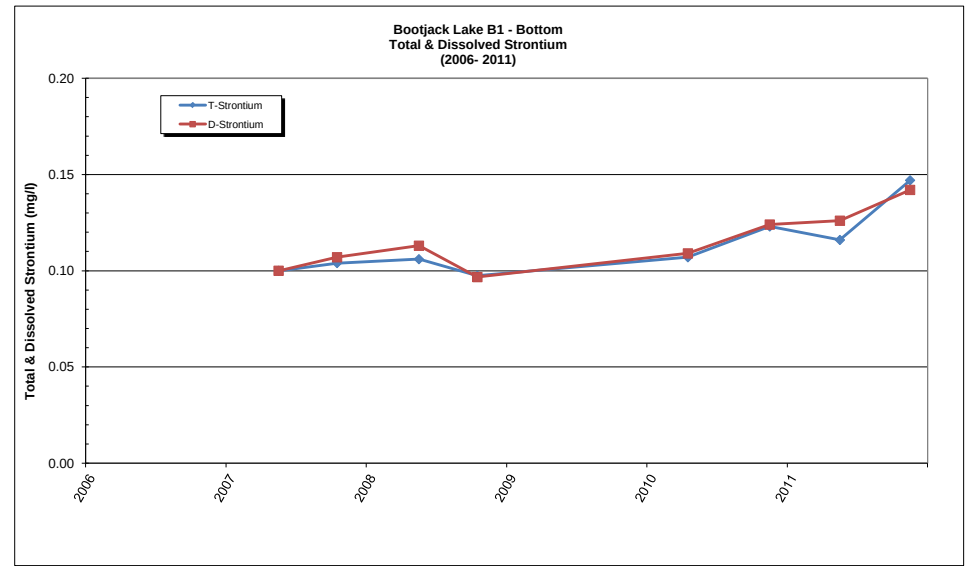
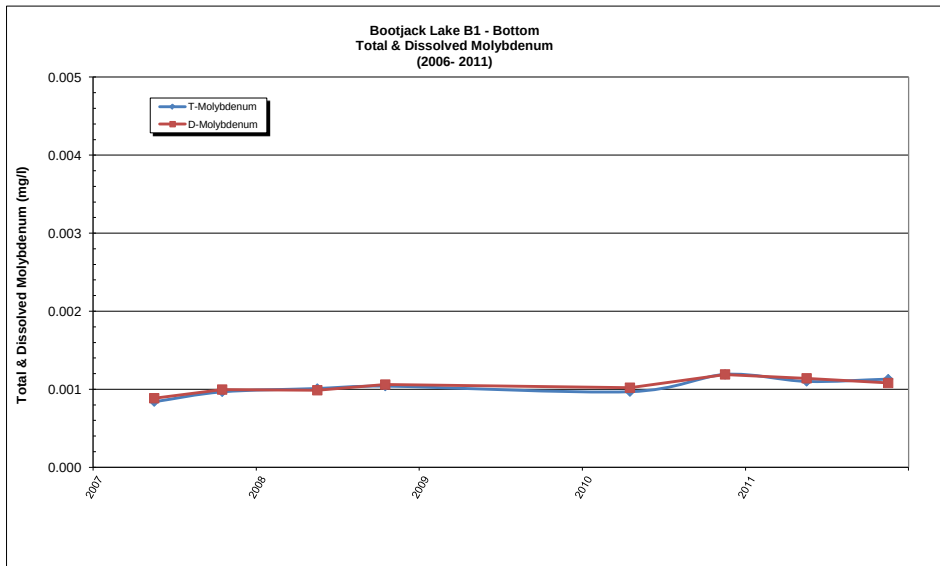
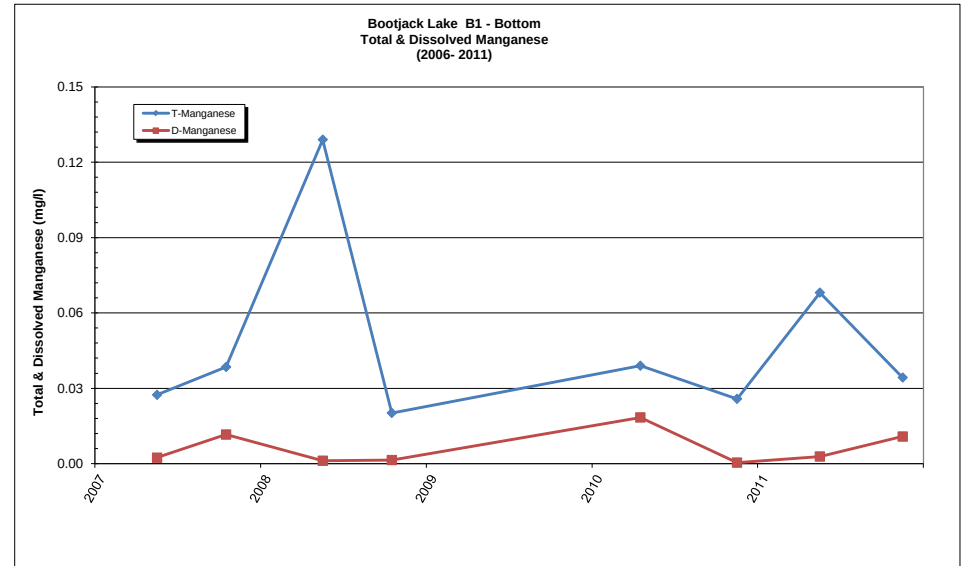
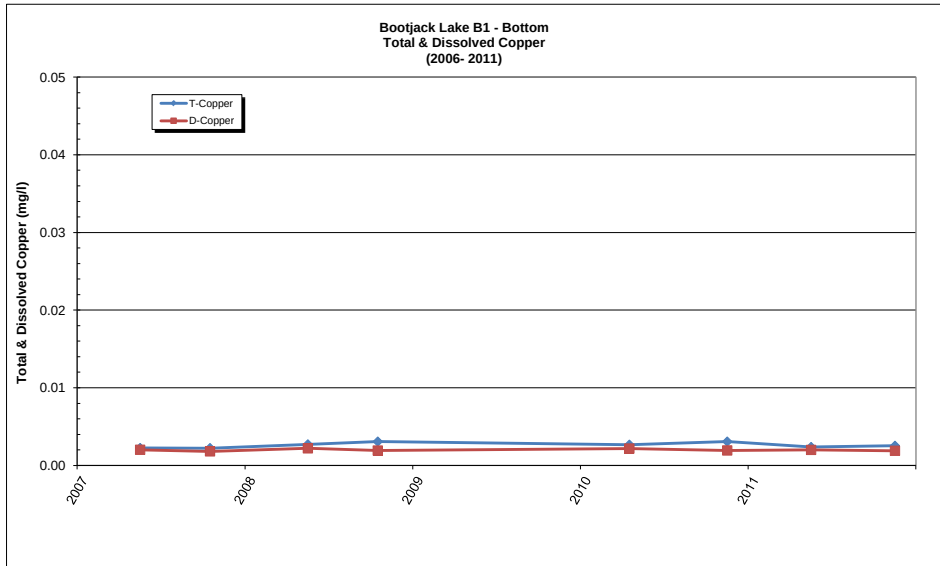
Annual Report 2011
Water Quality at Site B1 - Bottom (Bootjack Lake)

Date/Time Sampled	23-May-07	23-Oct-07	21-May-08	27-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11
In Situ Parameters								
pH	8.02	7.95	7.13	7.56		7.65	7.58	7.9
Conductivity	51	83	58			61	65.6	95
Temperature(°C)	5.86	6.71	4.27	5.62		6.63	4.8	5.39
Physical Tests								
Alkalinity (as CaCO ₃)	37.9	39.7	42.6	42.2	39.5	41.3	40.5	41.2
Hardness (Dissolved)	40.4	39	41.7	39.8	39.1	42.3	43.1	42.1
Total Dissolved Solids	50	62	57	217	50	58	48	63
Total Suspended Solids	<3	3.3	3.7	3.3	<3	4.1	<3	4.3
Turbidity (NTU)	1.28	1.78	1.75	1.6	1.02	1.73	1.34	1.41
Dissolved Anions								
Chloride (Total)					1.19	1.19	1.72	1.44
Sulphate (Dissolved)	3.14	3.24	3.59	3.05	3.22	3.54	4.19	3.83
Nutrients								
Ammonia (Total)	0.0104	<0.005	0.008	<0.005	<0.005	<0.005	0.0131	<0.0050
Nitrate (Dissolved)	<0.005	<0.005	0.0543	<0.005	0.0129	<0.005	0.0242	<0.0050
Nitrate+Nitrite (Dissolved)	<0.005	<0.005	0.0561	<0.005	0.0129	<0.0051	0.0242	<0.0051
Nitrite (as N)	<0.001	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.0010
Nitrogen (Total)	0.34	0.4	0.19	0.18	0.24	0.24	0.22	0.18
Orthophosphate	0.0012	0.0014	0.0021	0.0012	<0.001	0.0012	0.002	<0.0010
Phosphorus (Dissolved)	0.004	0.0082	0.0048	0.0158	<0.3	<0.3	0.0035	0.0039
Phosphorus (Total)	0.0152	0.0165	0.0152	0.0166	<0.3	<0.3	0.016	0.0134
Dissolved Metals								
Aluminum (Dissolved)	0.005	0.0011	0.0049	0.0014	0.003	<0.003	0.006	<0.0030
Antimony (Dissolved)	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	0.00011	<0.0001	<0.00010
Arsenic (Dissolved)	0.00026	0.00034	0.00026	0.00033	0.00076	0.00032	0.00024	0.00028
Barium (Dissolved)	0.0156	0.016	0.0158	0.0156	0.0165	0.0175	0.0174	0.0176
Cadmium (Dissolved)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)	12.3	12.1	12.9	12.3	12	13.1	13.3	13
Chromium (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010
Copper (Dissolved)	0.00202	0.00181	0.0022	0.00192	0.00218	0.00193	0.002	0.00189
Iron (Dissolved)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)	2.33	2.17	2.33	2.19	2.2	2.34	2.41	2.31
Manganese (Dissolved)	0.00238	0.0116	0.00118	0.00144	0.0184	0.000427	0.00285	0.0108
Molybdenum (Dissolved)	0.000885	0.000996	0.000987	0.00106	0.00102	0.00119	0.00114	0.00108
Nickel (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)	0.452	0.45	0.451	0.454	0.442	0.482	0.486	0.469
Selenium (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Dissolved)	2.05	1.71	2.63	1.52	1.9	0.514	1.69	0.384
Sodium (Dissolved)	2.26	2.4	2.39	2.38	2.31	2.46	2.48	2.49
Strontium (Dissolved)	0.1	0.107	0.113	0.0967	0.109	0.124	0.126	0.142
Zinc (Dissolved)	0.0016	<0.001	0.0013	0.0011	<0.001	<0.003	<0.003	<0.0030
Total Metals								
Aluminum (Total)	0.0152	0.0188	0.0224	0.0553	0.0243	0.0415	0.0264	0.0263
Antimony (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	0.0001
Arsenic (Total)	0.00029	0.00034	0.00026	0.00035	0.00102	0.00038	0.0003	0.00031
Barium (Total)	0.0165	0.0168	0.0172	0.0163	0.0166	0.0181	0.0183	0.0184
Cadmium (Total)	<0.000017	<0.000017	<0.000017	0.000023	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Total)	12.3	11.9	12.5	12.2	11.6	12.8	13.4	13.3
Chromium (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010
Copper (Total)	0.00224	0.00223	0.00271	0.00307	0.00267	0.00307	0.00237	0.00253
Iron (Total)	0.087	0.089	0.14	0.071	0.067	0.107	0.124	0.114
Lead (Total)	<0.00005	<0.00005	<0.00005	0.000066	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Total)	2.33	2.18	2.27	2.15	2.14	2.31	2.42	2.37
Manganese (Total)	0.0274	0.0385	0.129	0.0202	0.039	0.0258	0.0681	0.0343
Molybdenum (Total)	0.000841	0.000967	0.00101	0.00104	0.000969	0.00119	0.0011	0.00113
Nickel (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)	0.46	0.461	0.402	0.485	0.446	0.48	0.484	0.503
Selenium (Total)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Total)	2.08	1.83	2.57	1.58	1.91	0.67	1.76	0.517
Sodium (Total)	2.26	2.38	2.34	2.46	2.24	2.4	2.51	2.56
Strontium (Total)	0.1	0.104	0.106	0.0974	0.107	0.123	0.116	0.147
Zinc (Total)	0.0017	<0.001	<0.003	0.0027	0.0011	<0.003	<0.003	<0.0030
Organics								
Carbon Organic (Dissolved)	6.52	6.9	5.89	5.63	5.68	6.18	5.96	6.37

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B1-Bottom



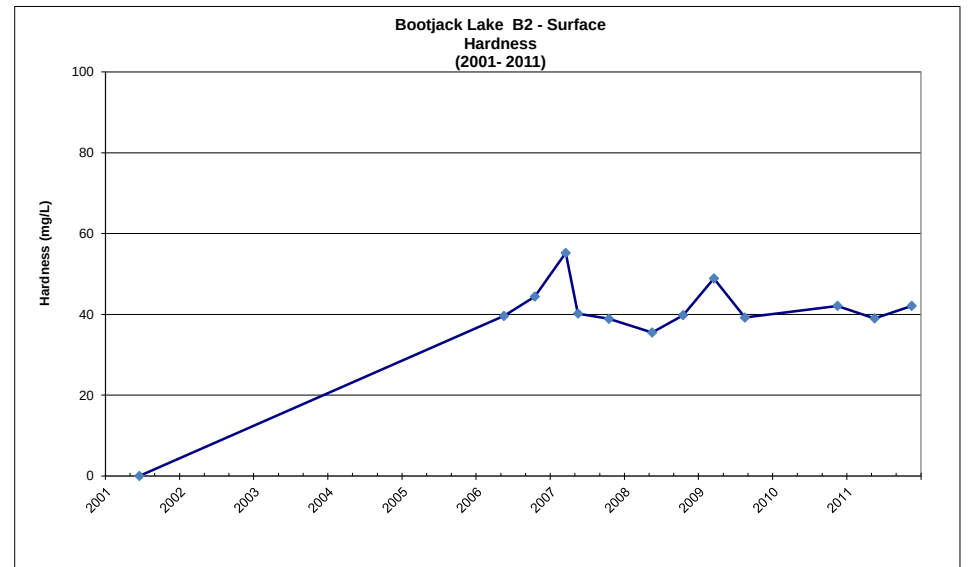
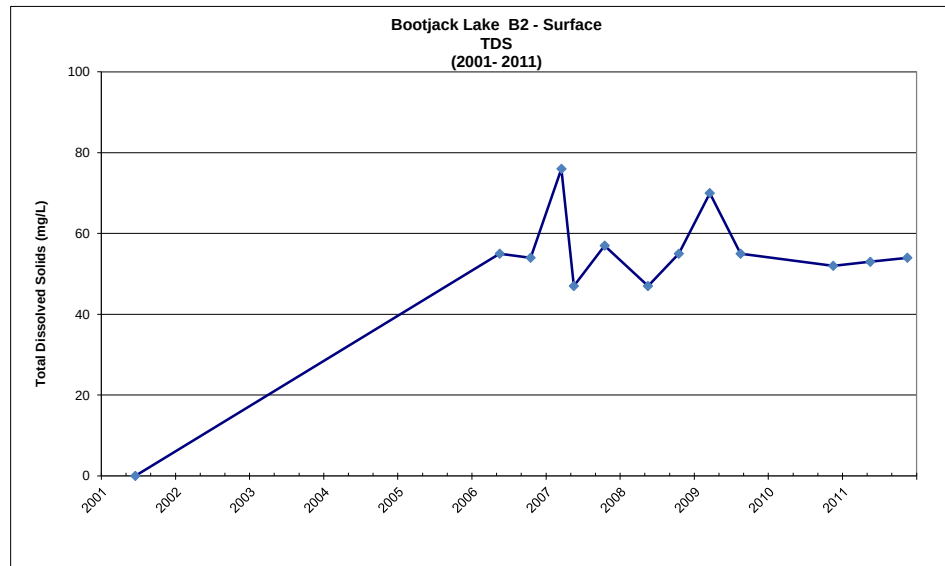
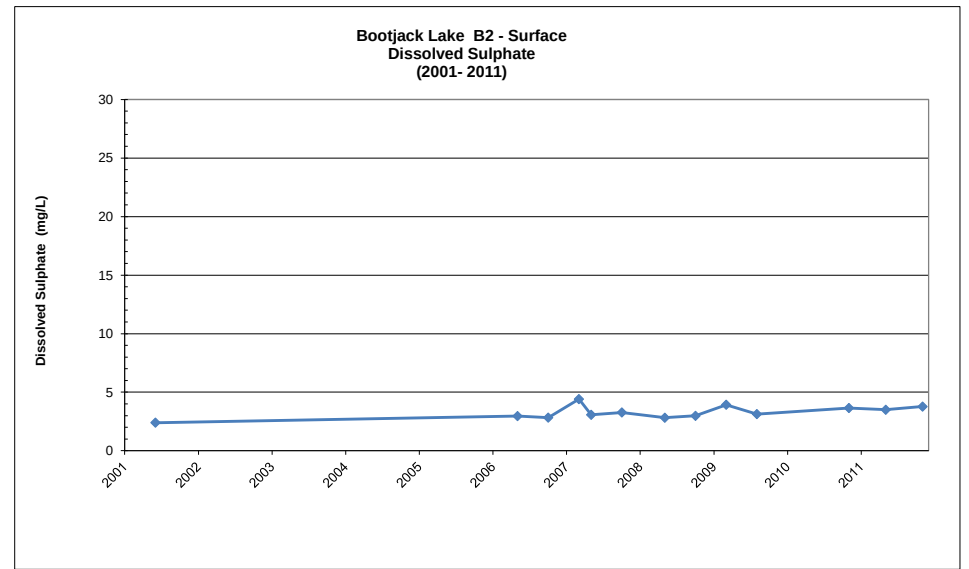
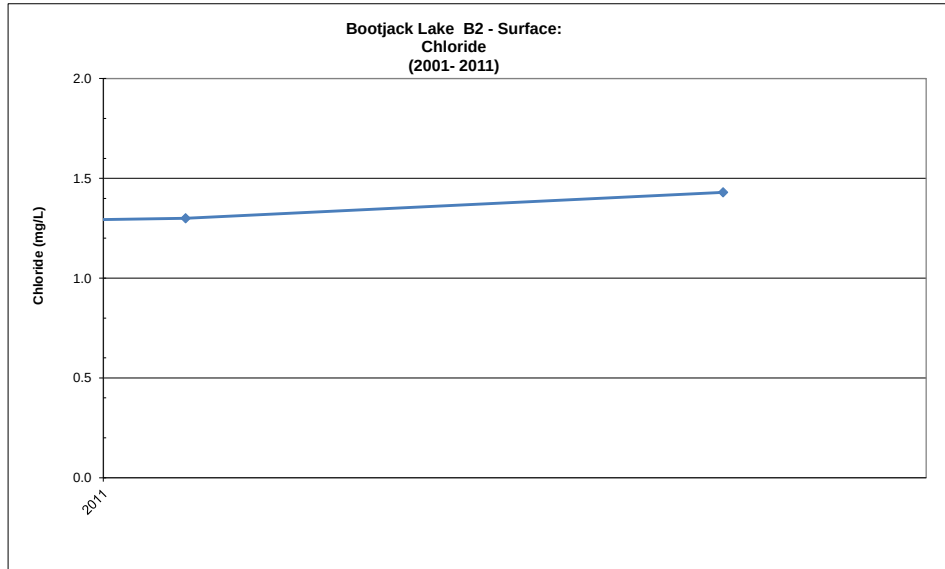
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Water Quality at Bootjack Lake
B1-Bottom



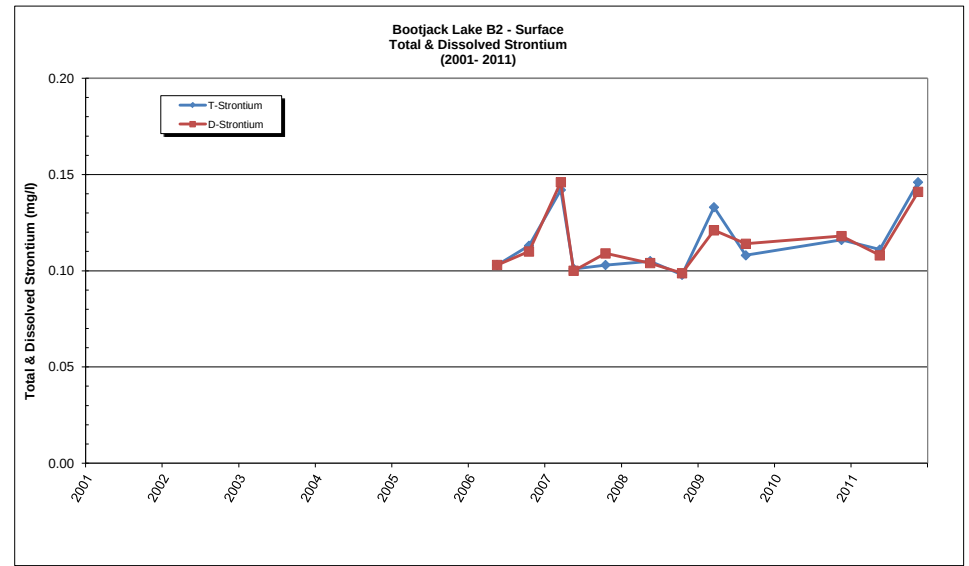
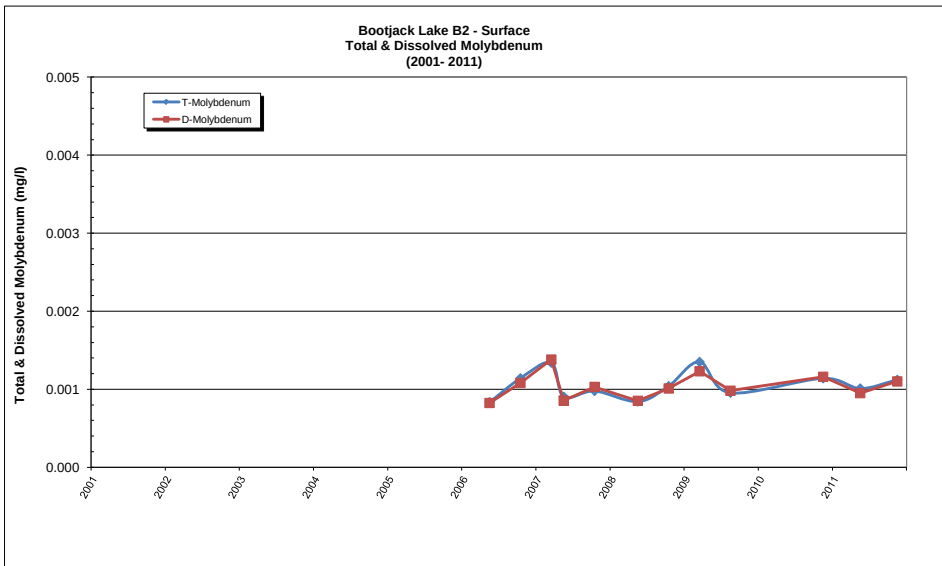
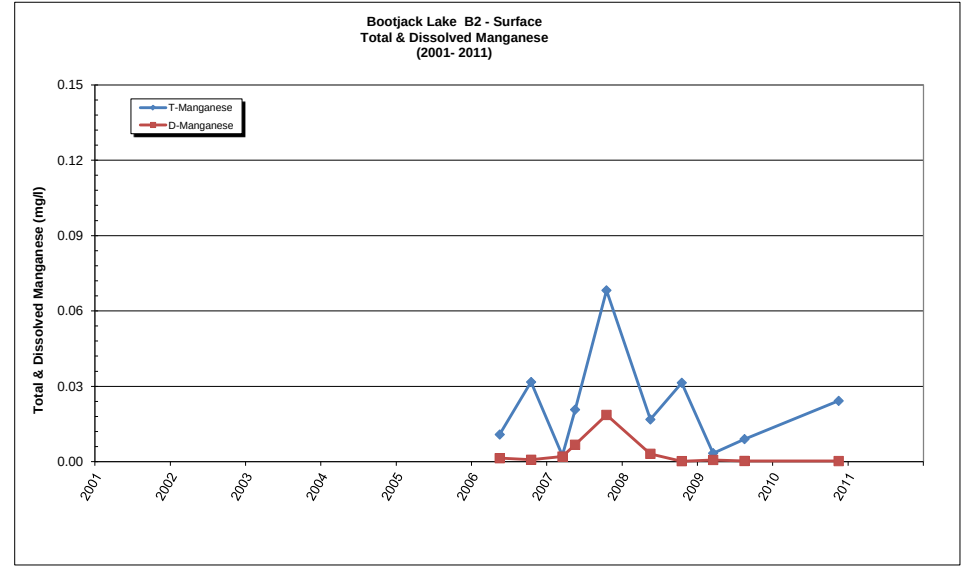
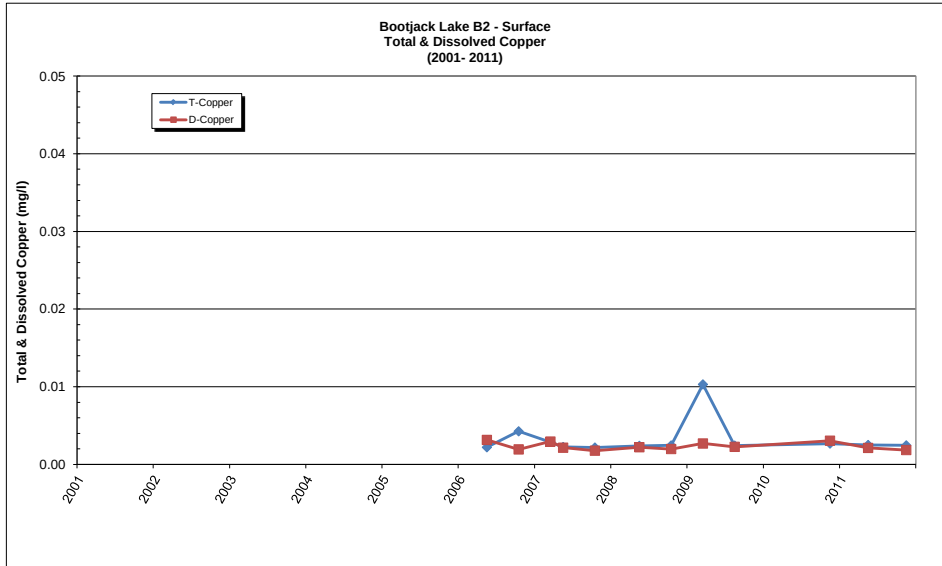
Annual Report 2011
Water Quality at Site B2 - Surface (Bootjack Lake)

Date/Time Sampled	23-May-06	31-Oct-06	6-Mar-07	23-May-07	23-Oct-07	21-May-08	27-Oct-08	13-Mar-09	26-Aug-09	15-Nov-10	25-May-11	1-Nov-11
In Situ Parameters												
pH	8.04	7.68	7.74	7.77	8.63	7.31	7.84	7.5	8.47	7.79	7.07	7.81
Conductivity (µS/cm)	79	84	90	58	79	51		52	87	89.9	68.6	93
Temperature (°C)	11.8	5.38	0.29	10.8	7.18	6.94	6.67	0.39	18.4		9.5	5.9
Physical Tests												
Alkalinity (as CaCO3)	36	40.6	52.8	37.8	39.8	37.6	41.2	48.6	42.1	40.8	37.3	41.2
Hardness (Total)	39.6	44.4	55.2	40.2	38.9	35.5	39.8	48.9	39.2	42.1	39	42.1
Total Dissolved Solids	55	54	76	47	57	47	55	70	55	52	53	54
Total Suspended Solids	<3	<3	<3	<3	3.8	<3	3.8	<3	4.5	3	<3	3.7
Turbidity (NTU)	0.49	2.62	0.53	0.84	2.24	0.75	1.34	0.99	0.55	1.41	0.94	1.85
Dissolved Anions												
Chloride (Total)										1.25	1.3	1.43
Sulphate (Dissolved)	2.96	2.83	4.41	3.07	3.27	2.82	2.98	3.93	3.13	3.65	3.5	3.77
Nutrients												
Ammonia (Total)	<0.005	<0.02	0.012	0.0206	<0.005	0.0093	<0.005	<0.005	<0.005	<0.005	0.0084	<0.0050
Nitrate (Dissolved)	<0.02	<0.005	0.0936	<0.005	<0.005	<0.005	<0.005	0.0139	<0.005	<0.005	<0.005	<0.0050
Nitrate+Nitrite (Dissolved)	<0.005	<0.005	0.0967	<0.005	<0.005	<0.005	<0.005	0.0139	<0.005	<0.0051	<0.0051	<0.0051
Nitrite (as N)	<0.005	<0.001	0.0031	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Nitrogen (Total)	0.3	0.299	0.51	0.37	0.4	0.17	0.16	0.24	0.17	0.18	0.22	0.16
Orthophosphate	<0.001	<0.001	<0.001	<0.001	0.0027	<0.001	0.0012	<0.001	<0.001	0.0012	<0.001	<0.0010
Phosphorus (Dissolved)	0.0024	0.0037	0.0054	0.0032	0.0066	0.0043	0.0046	0.0033	<0.002	<0.3	0.0027	0.0032
Phosphorus (Total)	0.0056	0.0186	0.0097	0.0091	0.0186	0.01	0.0052	0.0092	0.0036	<0.3	0.009	0.0167
Dissolved Metals												
Aluminum (Dissolved)	0.0041	0.0013	0.0028	0.006	<0.001	0.0174	<0.001	0.005	0.003	<0.003	0.0152	<0.0030
Antimony (Dissolved)	0.00011	0.00011	0.00015	<0.0001	0.00011	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	<0.0001	<0.00010
Arsenic (Dissolved)	0.00023	0.00035	0.00045	0.00026	0.00031	0.00027	0.00035	0.00035	0.0003	0.00032	0.00026	0.00033
Barium (Dissolved)	0.0153	0.0162	0.0221	0.0152	0.0162	0.0152	0.0161	0.0206	0.0155	0.018	0.016	0.018
Cadmium (Dissolved)	<0.00005	<0.00005	0.000029	<0.000017	<0.000017	<0.000017	<0.000017	0.000032	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)	12.1	13.6	16.9	12.3	11.9	10.9	12.3	15.2	11.9	13.1	12	13
Chromium (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Dissolved)	0.00315	0.00193	0.00294	0.00215	0.00177	0.00221	0.00198	0.00269	0.00226	0.00305	0.00212	0.00185
Iron (Dissolved)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)	0.000127	<0.00005	0.000061	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)	2.26	2.53	3.17	2.33	2.25	2	2.17	2.69	2.28	2.29	2.21	2.32
Manganese (Dissolved)	0.00138	0.000739	0.00202	0.00672	0.0186	0.00312	0.000206	0.000682	0.000273	0.000232	0.00112	0.029
Molybdenum (Dissolved)	0.000824	0.00108	0.00138	0.000854	0.00103	0.000852	0.00101	0.00123	0.000981	0.00116	0.00095	0.0011
Nickel (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)	0.451	0.469	0.679	0.449	0.458	0.424	0.465	0.563	0.446	0.482	0.457	0.476
Selenium (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Dissolved)	1.14	1.68	1.84	1.82	1.85	1.9	1.64	1.66	1.5	0.395	1.19	0.423
Sodium (Dissolved)	2.28	2.37	3.19	2.26	2.22	2.18	2.38	2.9	2.23	2.64	2.34	2.49
Strontium (Dissolved)	0.103	0.11	0.146	0.1	0.109	0.104	0.0987	0.121	0.114	0.118	0.108	0.141
Zinc (Dissolved)	0.0021	<0.001	0.0075	<0.001	<0.001	<0.001	<0.001	0.0261	<0.001	<0.003	<0.003	<0.0030
Total Metals												
Aluminum (Total)	0.0079	0.0278	0.0053	0.0149	0.0172	0.0317	0.0211	0.0413	0.0078	0.0256	0.0406	0.0253
Antimony (Total)	0.00011	0.00019	0.00015	<0.0001	0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.0001	<0.0001	0.00011
Arsenic (Total)	0.00024	0.0004	0.00045	0.00028	0.00036	0.00026	0.00036	0.00038	0.00031	0.00036	0.00028	0.00035
Barium (Total)	0.0155	0.0178	0.0218	0.0157	0.0176	0.0156	0.0166	0.023	0.0153	0.0184	0.0169	0.0186
Cadmium (Total)	<0.00005	<0.00005	0.000021	<0.000017	<0.000017	<0.000017	<0.000017	0.000025	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Total)	12.2	13.1	17.3	12.3	11.9	11	11.9	14.7	12.5	12.6	12.2	13.1
Chromium (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Copper (Total)	0.0022	0.00426	0.00289	0.00224	0.00217	0.00239	0.00244	0.0103	0.00242	0.00268	0.0025	0.00245
Iron (Total)	<0.03	0.084	<0.03	0.054	0.102	0.048	0.089	0.085	<0.03	0.085	0.058	0.083
Lead (Total)	<0.00005	0.000054	0.000102	<0.00005	<0.00005	<0.00005	<0.00005	0.000076	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Total)	2.25	2.42	2.99	2.33	2.09	2.04	2.12	2.64	2.3	2.23	2.22	2.35
Manganese (Total)	0.0108	0.0317	0.00238	0.0207	0.0682	0.0168	0.0314	0.00338	0.00898	0.0242	0.0205	0.0566
Molybdenum (Total)	0.000834	0.00114	0.00134	0.000904	0.000978	0.000843	0.00104	0.00135	0.000955	0.00114	0.00101	0.00112
Nickel (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00103	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)	0.504	<2	0.672	0.465	0.468	0.422	0.477	0.592	0.427	0.471	0.457	0.492
Selenium (Total)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Total)	1.19	1.65	1.92	1.86	1.96	1.96	1.68	1.68	1.57	0.472	1.26	0.551
Sodium (Total)	2.26	2.53	3.16	2.28	2.37	2.2	2.46	3.05	2.19	2.58	2.35	2.53
Strontium (Total)	0.103	0.113	0.142	0.101	0.103	0.105	0.0979	0.133	0.108	0.116	0.111	0.146
Zinc (Total)	0.0045	0.0023	0.0058	<0.001	<0.001	<0.001	0.0011	0.0374	<0.001	<0.003	<0.003	<0.0030
Organics												
Carbon Organic (Dissolved)	7.01	6.41	8.59	6.84	6.32	6.33	5.94	6.63	6.12	5.89	6.59	6.17

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Water Quality at Bootjack Lake
B2-Surface



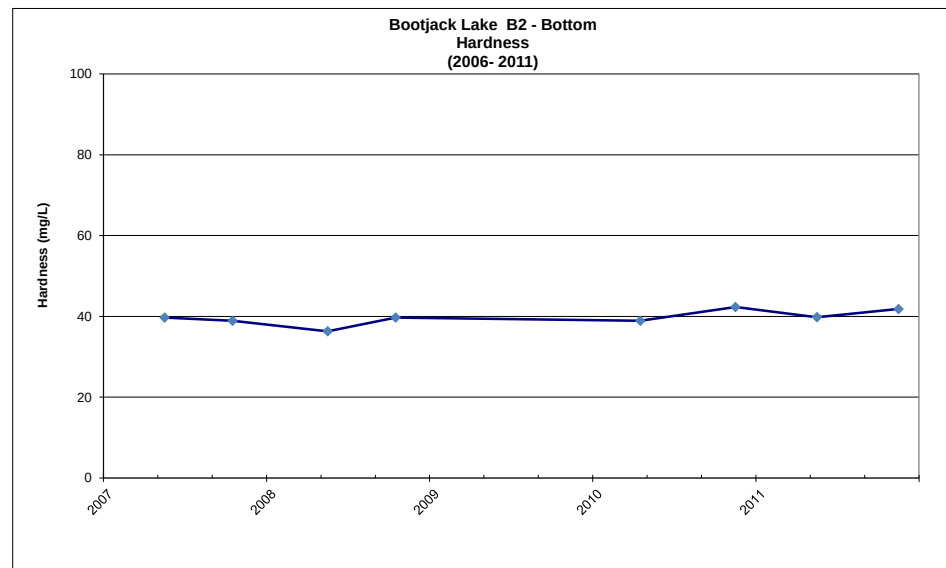
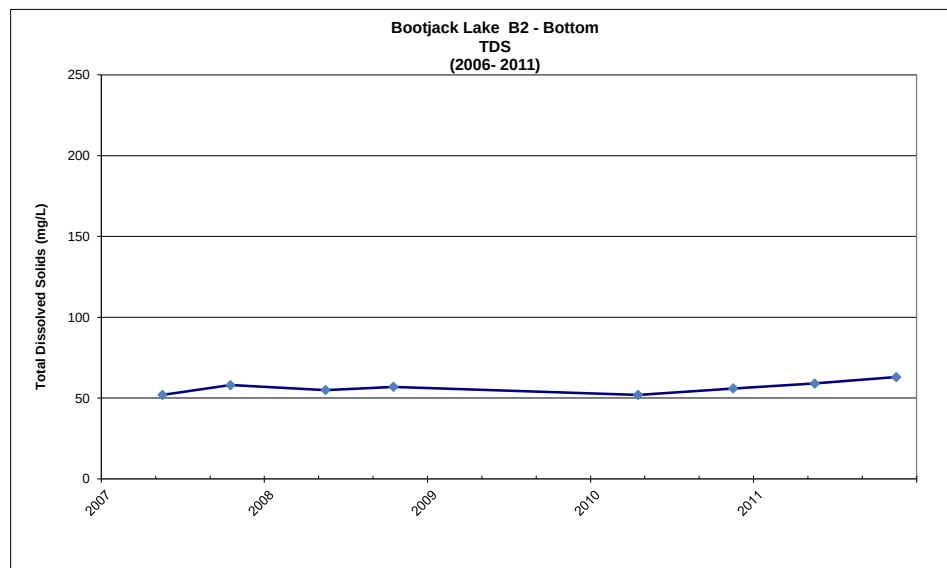
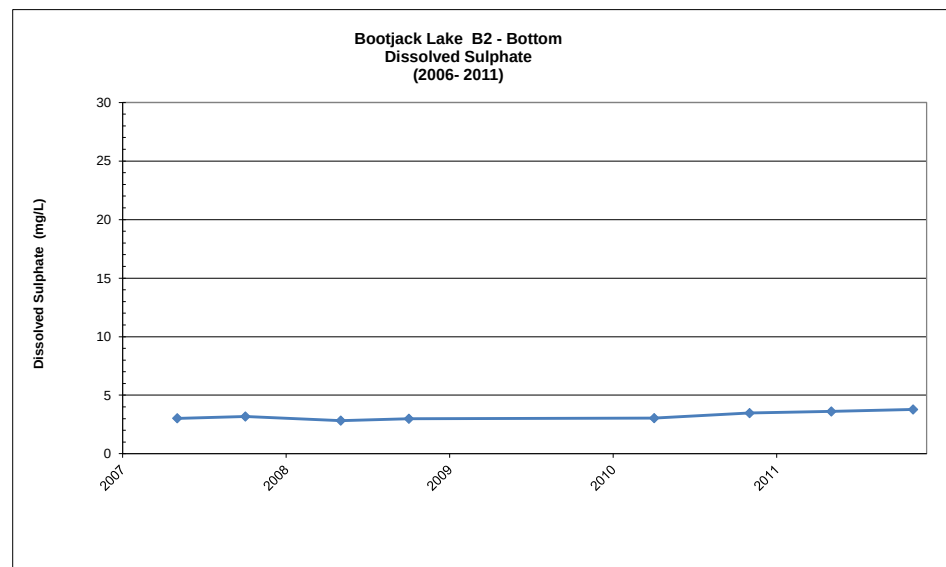
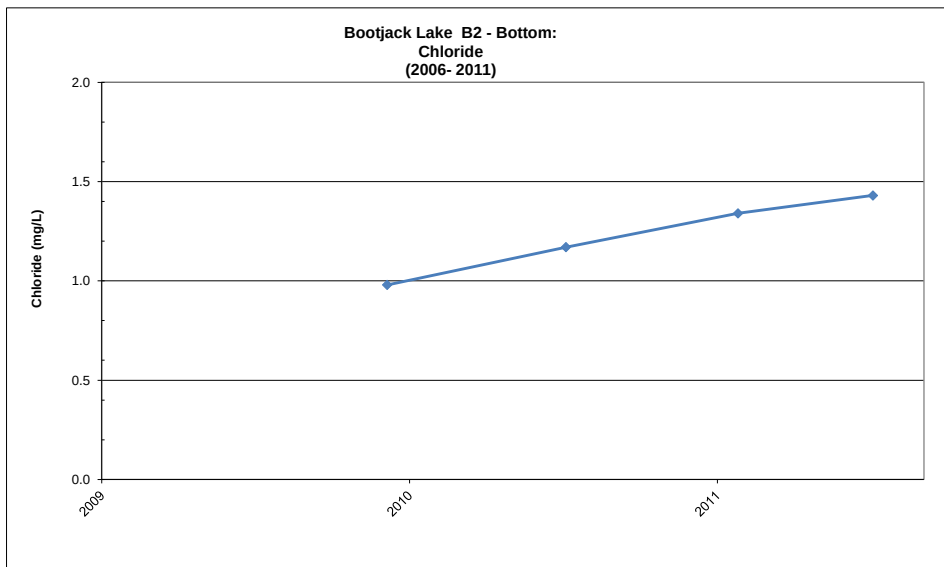
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Water Quality at Bootjack Lake
B2-Surface



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Water Quality at Site B2 - Bottom (Bootjack Lake)

Date/Time Sampled	23-May-06	31-Oct-06	6-Mar-07	23-May-07	23-Oct-07	21-May-08	27-Oct-08	4-Apr-10	2-Nov-10	25-May-11	1-Nov-11
In Situ Parameters											
pH (In Situ)	8.04	7.68	7.74	7.78	7.83	7.35	7.78		7.86	7.66	7.8
Conductivity (µS/cm)	79	84	90	57	82	51	138		89.3	64.2	95
Temperature (°C)	11.76	5.38	0.29	9.83	7.17	6.46	6.36			6	5.63
Physical Tests											
Alkalinity (as CaCO3)	36	40.6	52.8	37.8	39.8	37.6	42.1	39	41.5	38.4	41.2
Hardness (Total)	39.6	44.4	55.2	39.7	38.9	36.3	39.7	38.9	42.3	39.8	41.8
Total Dissolved Solids	55	54	76	52	58	55	57	52	56	59	63
Total Suspended Solids	<3	<3	<3	<3	3.3	3.2	3.8	<3	3.6	<3	4.3
Turbidity (NTU)	0.49	2.62	0.53	0.81	1.35	1.04	1.49	1.04	1.51	0.87	1.67
Dissolved Anions											
Chloride (Total)								0.98	1.17	1.34	1.43
Sulphate (Dissolved)	2.96	2.83	4.41	3.03	3.18	2.83	2.99	3.04	3.47	3.61	3.78
Nutrients											
Ammonia (Total)	<0.005	<0.02	0.012	0.0206	<0.005	0.0093	<0.005	<0.005	<0.005	<0.005	<0.0050
Nitrate (Dissolved)		<0.005	0.0936	<0.005	<0.005	0.0091	<0.005	0.0192	<0.005	<0.005	<0.0050
Nitrate+Nitrite (Dissolved)				<0.005	<0.005	0.0091	<0.005	0.0192	<0.0051	<0.0051	<0.0051
Nitrite (as N)		<0.001	0.0031	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Nitrogen (Total)	0.3	0.299	0.51	0.4	0.37	0.18	0.16	0.22	0.26	0.21	0.16
Orthophosphate	<0.001	<0.001	<0.001	<0.001	0.0028	<0.001	0.0013	<0.001	0.0013	0.0011	<0.0010
Phosphorus (Dissolved)	0.0024	0.0037	0.0054	0.0033	0.0067	0.0041	0.004	<0.3	<0.3	0.0035	0.0031
Phosphorus (Total)	0.0056	0.0186	0.0097	0.0106	0.0232	0.0119	0.0189	<0.3	<0.3	0.0111	0.0153
Dissolved Metals											
Aluminum (Dissolved)	0.0041	0.0013	0.0028	0.0053	0.0017	0.0156	0.0025	0.0073	<0.003	0.0116	<0.0030
Antimony (Dissolved)	0.00011	0.00011	0.00015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00011	<0.0001	<0.00010
Arsenic (Dissolved)	0.00023	0.00035	0.00045	0.00026	0.00035	0.00024	0.00033	0.00086	0.00031	0.00027	0.00029
Barium (Dissolved)	0.0153	0.0162	0.0221	0.0152	0.0165	0.0154	0.0157	0.0167	0.0174	0.0167	0.0178
Cadmium (Dissolved)	<0.00005	<0.00005	0.000029	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Dissolved)	12.1	13.6	16.9	12.1	12	11.1	12.3	12	13.1	12.3	12.9
Chromium (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Dissolved)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010
Copper (Dissolved)	0.00315	0.00193	0.00294	0.0021	0.00185	0.00214	0.0019	0.00205	0.00193	0.00211	0.00188
Iron (Dissolved)	<0.03	<0.03	<0.03	<0.03	0.034	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030
Lead (Dissolved)	0.000127	<0.00005	0.000061	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050
Magnesium (Dissolved)	2.26	2.53	3.17	2.3	2.18	2.09	2.17	2.2	2.33	2.21	2.3
Manganese (Dissolved)	0.00138	0.000739	0.00202	0.00445	0.0379	0.00725	0.00577	0.0198	0.000225	0.000858	0.0286
Molybdenum (Dissolved)	0.000824	0.00108	0.00138	0.000887	0.00106	0.000796	0.00103	0.000925	0.0012	0.000984	0.0011
Nickel (Dissolved)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Dissolved)	0.451	0.469	0.679	0.448	0.46	0.413	0.457	0.446	0.484	0.462	0.478
Selenium (Dissolved)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Dissolved)	1.14	1.68	1.84	1.79	1.88	1.94	1.64	2.02	0.447	1.29	0.409
Sodium (Dissolved)	2.28	2.37	3.19	2.27	2.46	2.2	2.33	2.28	2.45	2.38	2.49
Strontium (Dissolved)	0.103	0.11	0.146	0.0997	0.111	0.104	0.0963	0.11	0.123	0.109	0.142
Zinc (Dissolved)	0.0021	<0.001	0.0075	0.0011	<0.001	0.0015	0.002	<0.002	<0.003	<0.003	<0.0030
Total Metals											
Aluminum (Total)	0.0079	0.0278	0.0053	0.0143	0.0159	0.0424	0.0214	0.0332	0.0382	0.0333	0.028
Antimony (Total)	0.00011	0.00019	0.00015	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	0.00011	<0.0001	0.0001
Arsenic (Total)	0.00024	0.0004	0.00045	0.00027	0.00036	0.00028	0.00036	0.00118	0.00036	0.00028	0.00036
Barium (Total)	0.0155	0.0178	0.0218	0.0158	0.0171	0.0162	0.017	0.0173	0.019	0.0174	0.019
Cadmium (Total)	<0.00005	<0.00005	0.000021	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010
Calcium (Total)	12.2	13.1	17.3	12	12	11.1	12.3	11.7	13.1	12.5	13.3
Chromium (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Cobalt (Total)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010
Copper (Total)	0.0022	0.00426	0.00289	0.00222	0.00211	0.00256	0.00248	0.00406	0.00273	0.00231	0.00245
Iron (Total)	<0.03	0.084	<0.03	0.053	0.109	0.073	0.083	0.091	0.117	0.078	0.092
Lead (Total)	<0.00005	0.000054	0.000102	<0.00005	<0.00005	<0.00005	<0.00005	0.000056	<0.00005	<0.00005	<0.000050
Magnesium (Total)	2.25	2.42	2.99	2.27	2.19	2.02	2.19	2.15	2.31	2.25	2.37
Manganese (Total)	0.0108	0.0317	0.00238	0.0231	0.0672	0.0262	0.0333	0.0461	0.0421	0.0348	0.059
Molybdenum (Total)	0.000834	0.00114	0.00134	0.000885	0.00101	0.000866	0.00105	0.000965	0.00124	0.00101	0.00115
Nickel (Total)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050
Potassium (Total)				0.474	0.455	0.43	0.479	0.456	0.511	0.466	0.502
Selenium (Total)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050
Silicon (Total)	1.19	1.65	1.92	1.8	2.01	2.01	1.73	2.08	0.679	1.37	0.545
Sodium (Total)	2.26	2.53	3.16	2.31	2.33	2.24	2.45	2.32	2.5	2.37	2.54
Strontium (Total)	0.103	0.113	0.142	0.103	0.106	0.106	0.0981	0.112	0.125	0.113	0.149
Zinc (Total)	0.0045	0.0023	0.0058	<0.001	0.0013	0.0017	0.0022	0.0023	<0.003	<0.003	<0.0030
Organics											
Carbon Organic (Dissolved)	7.01	6.41	8.59	6.71	6.41	6.5	5.69	5.11	5.99	6.43	6.35

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