

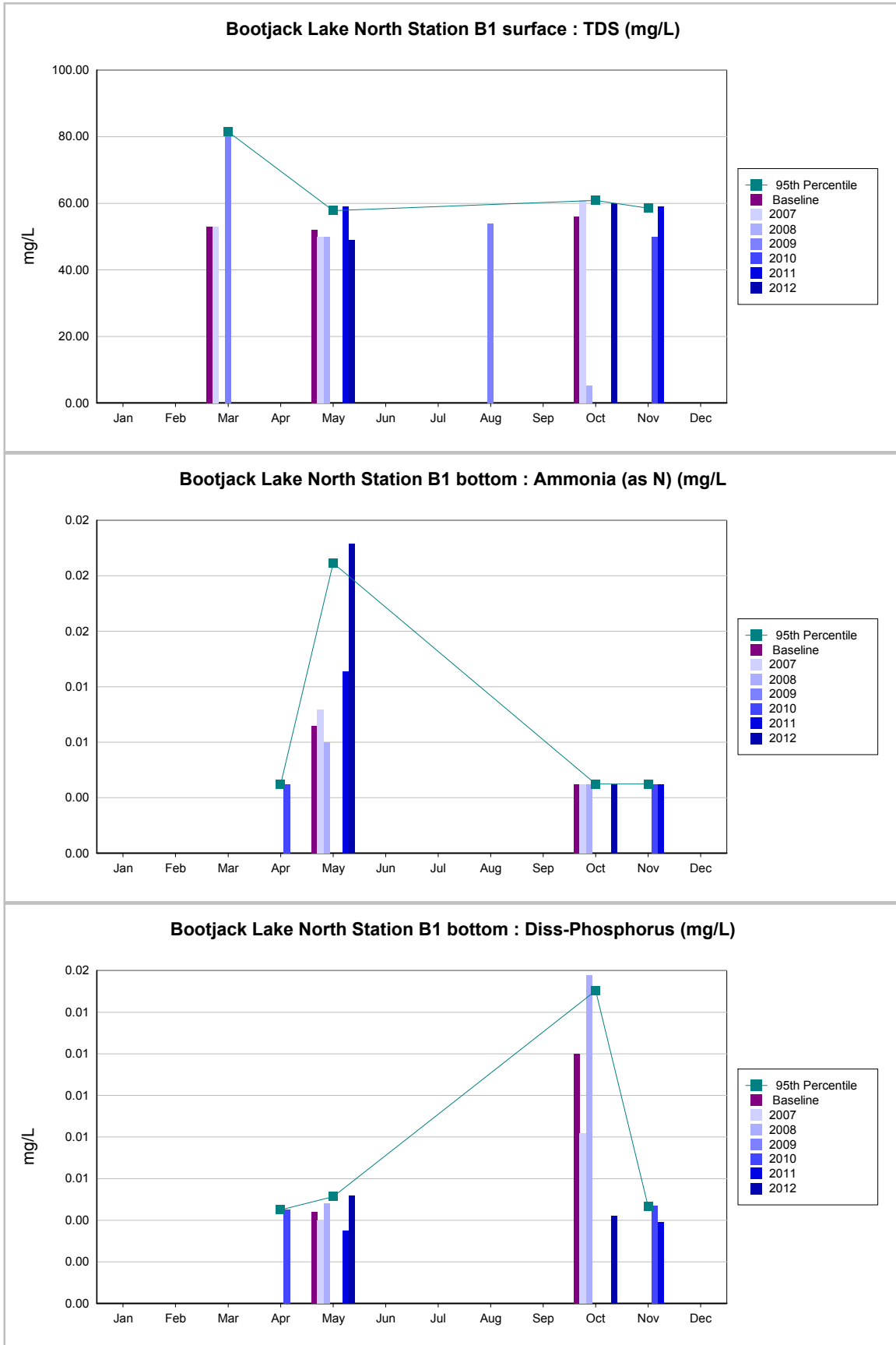
Water Quality Report



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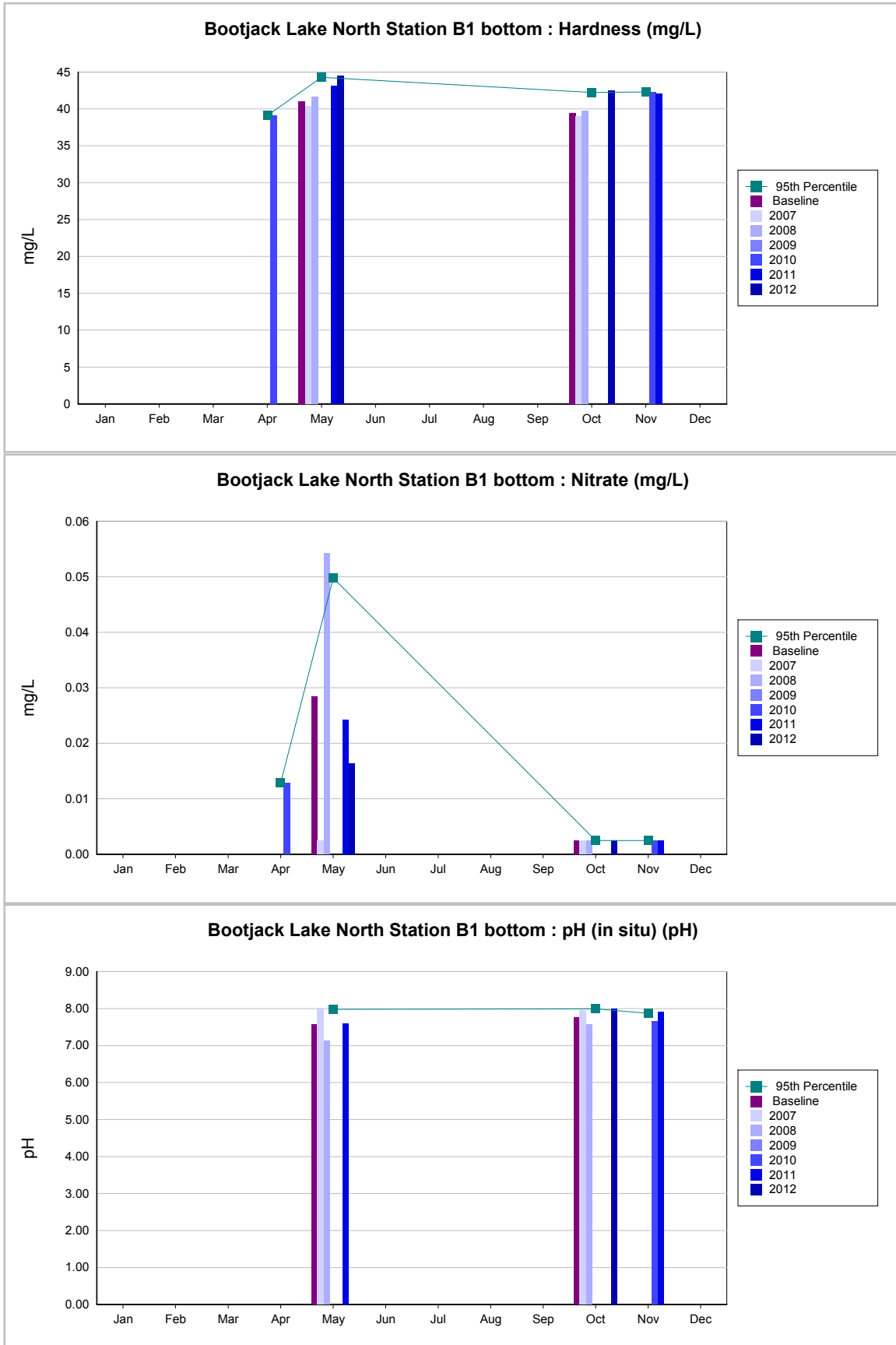
Water Quality Report

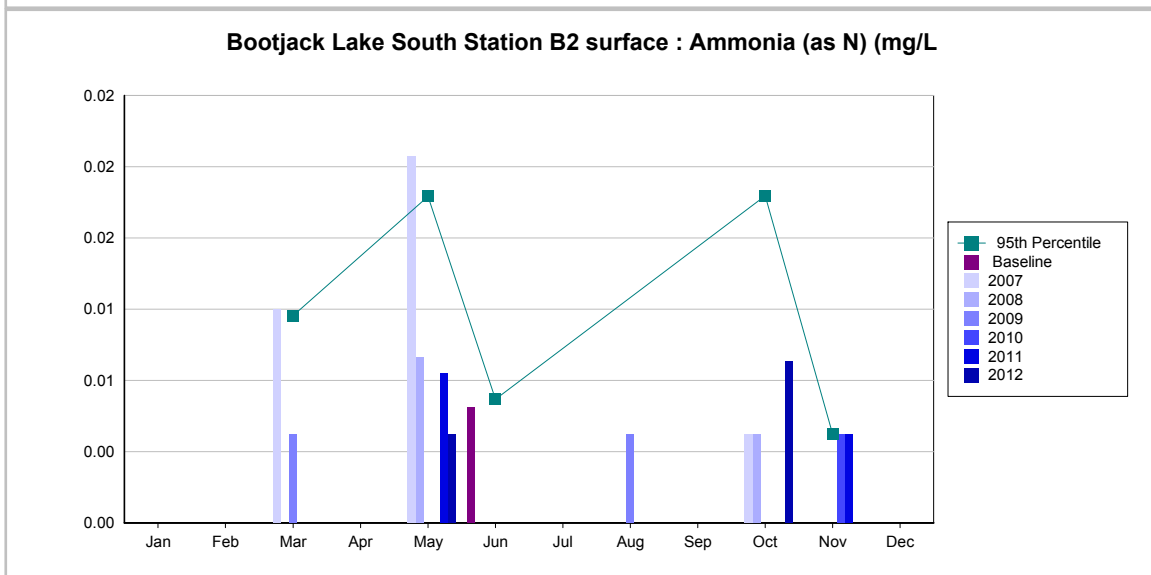
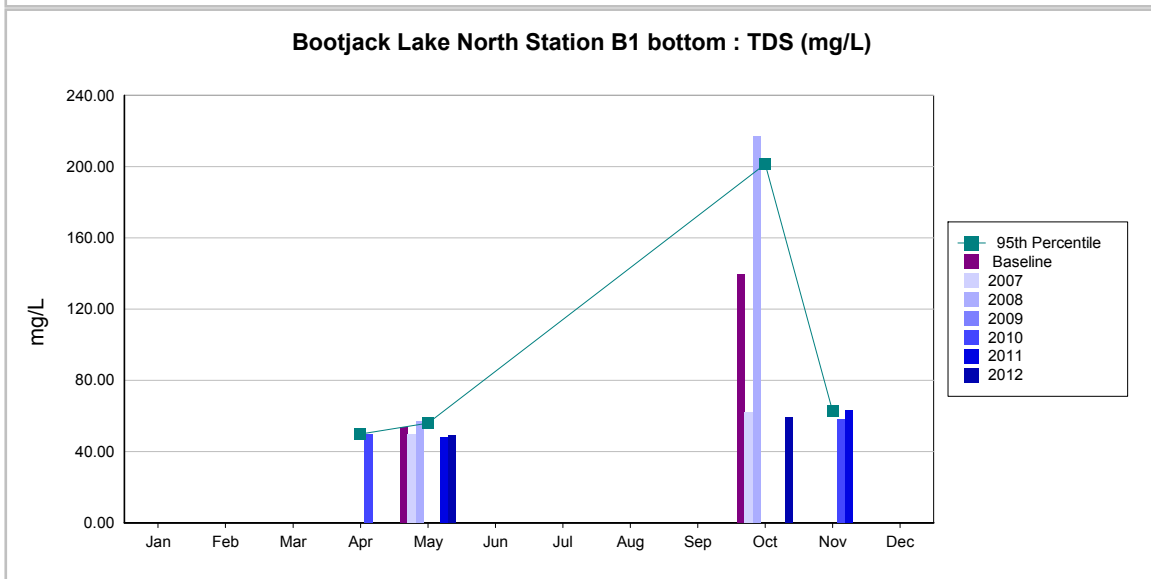
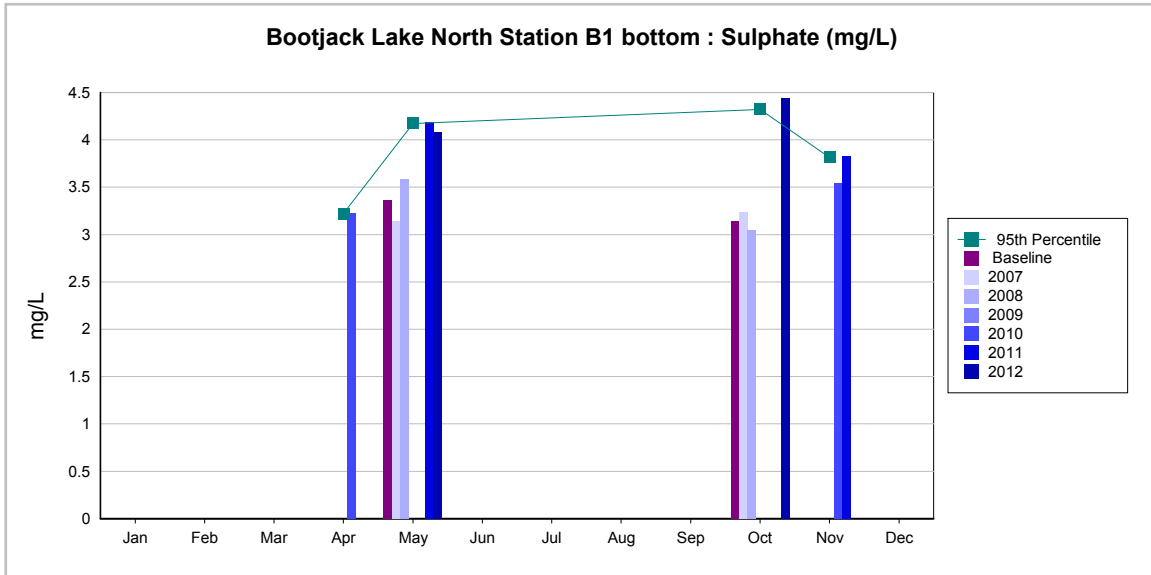


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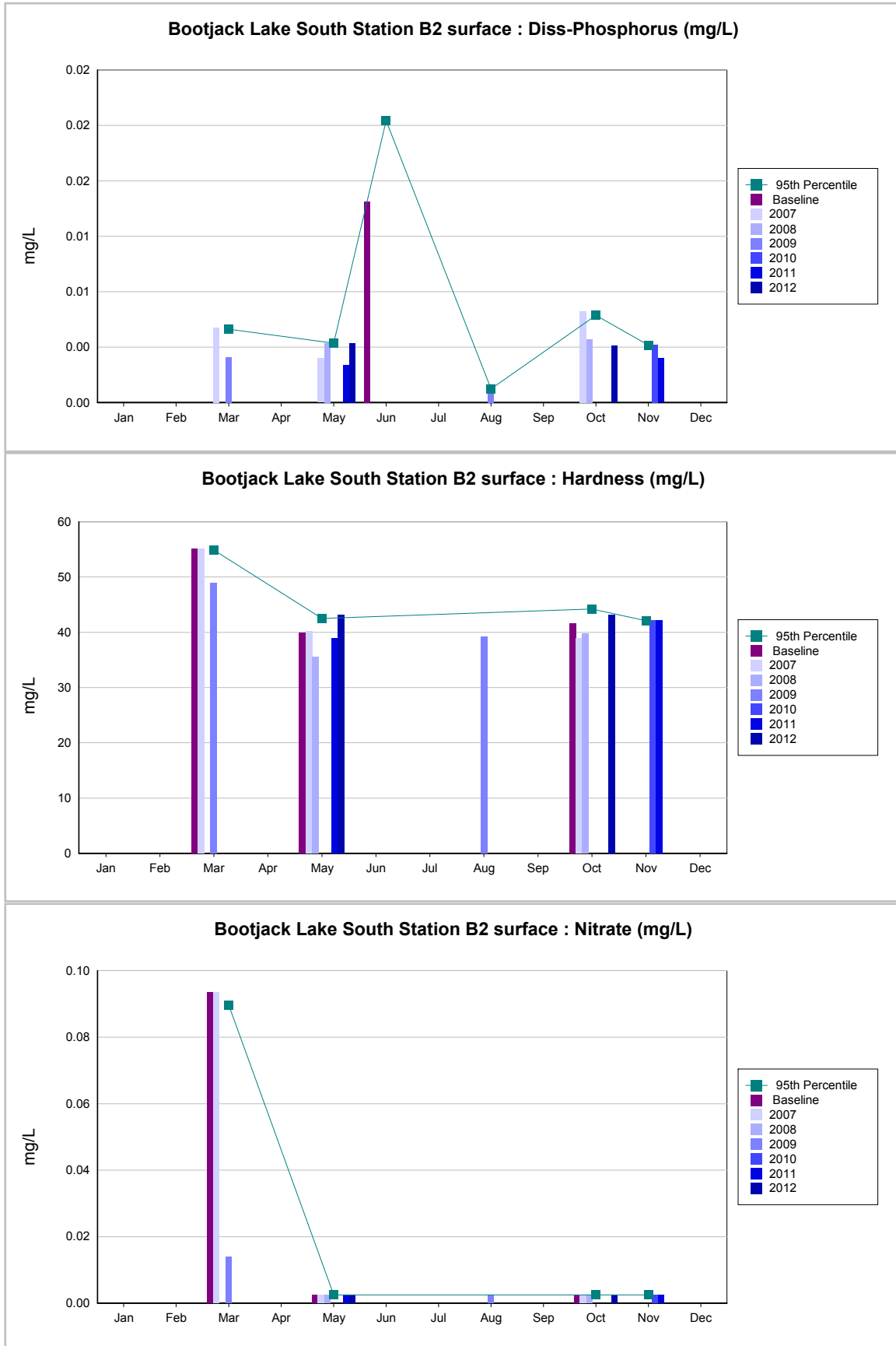
Water Quality Report

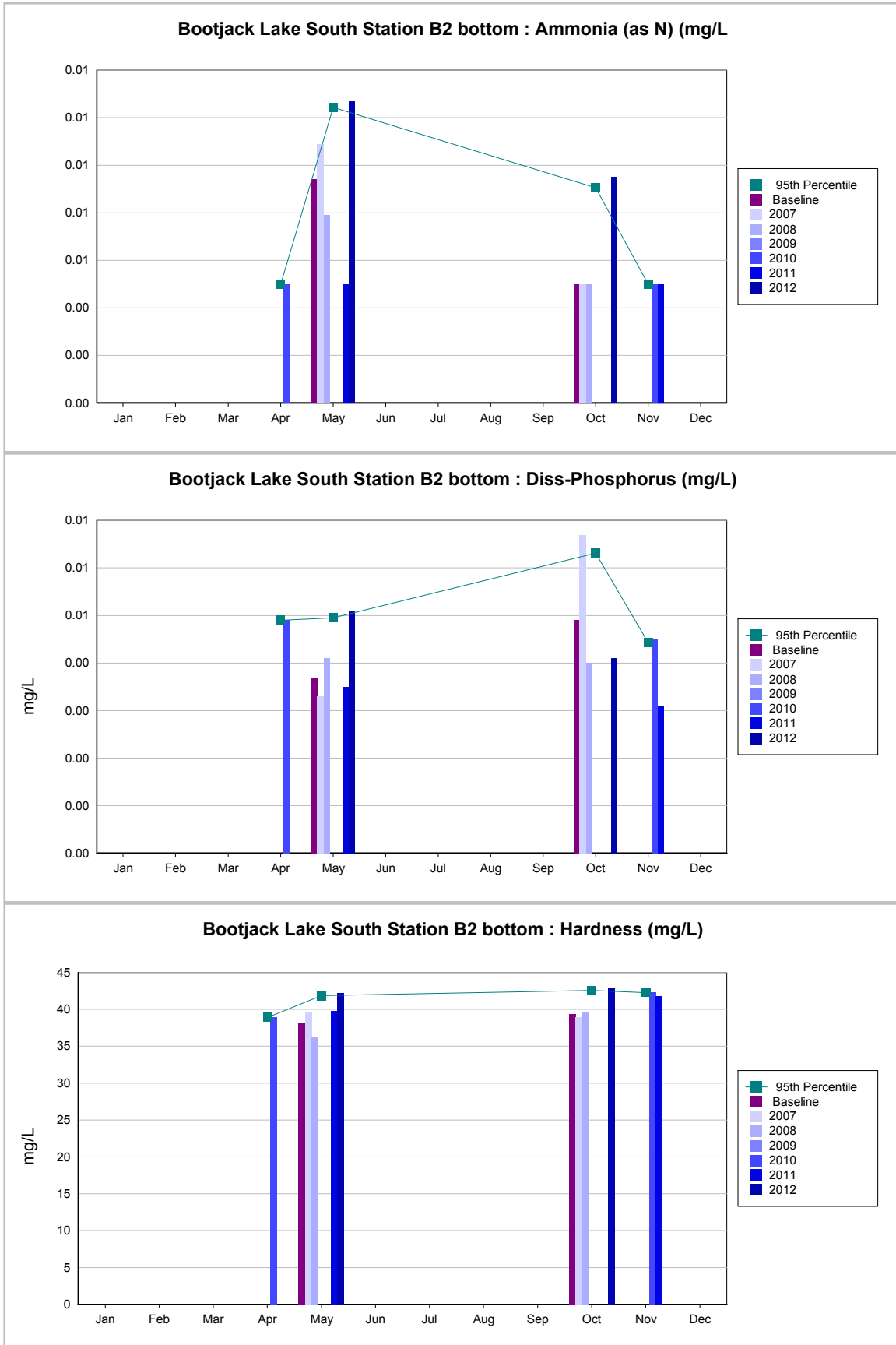


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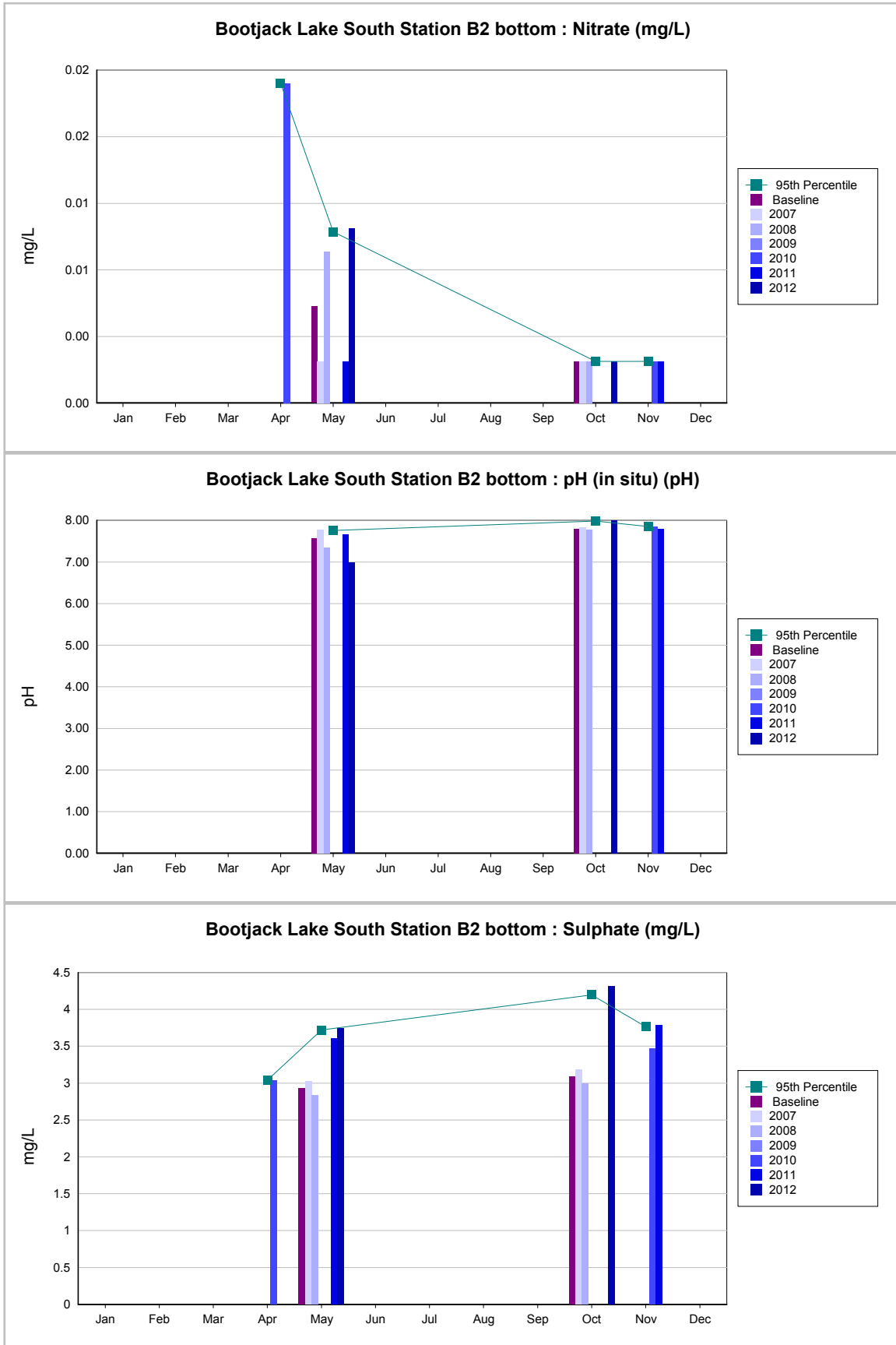
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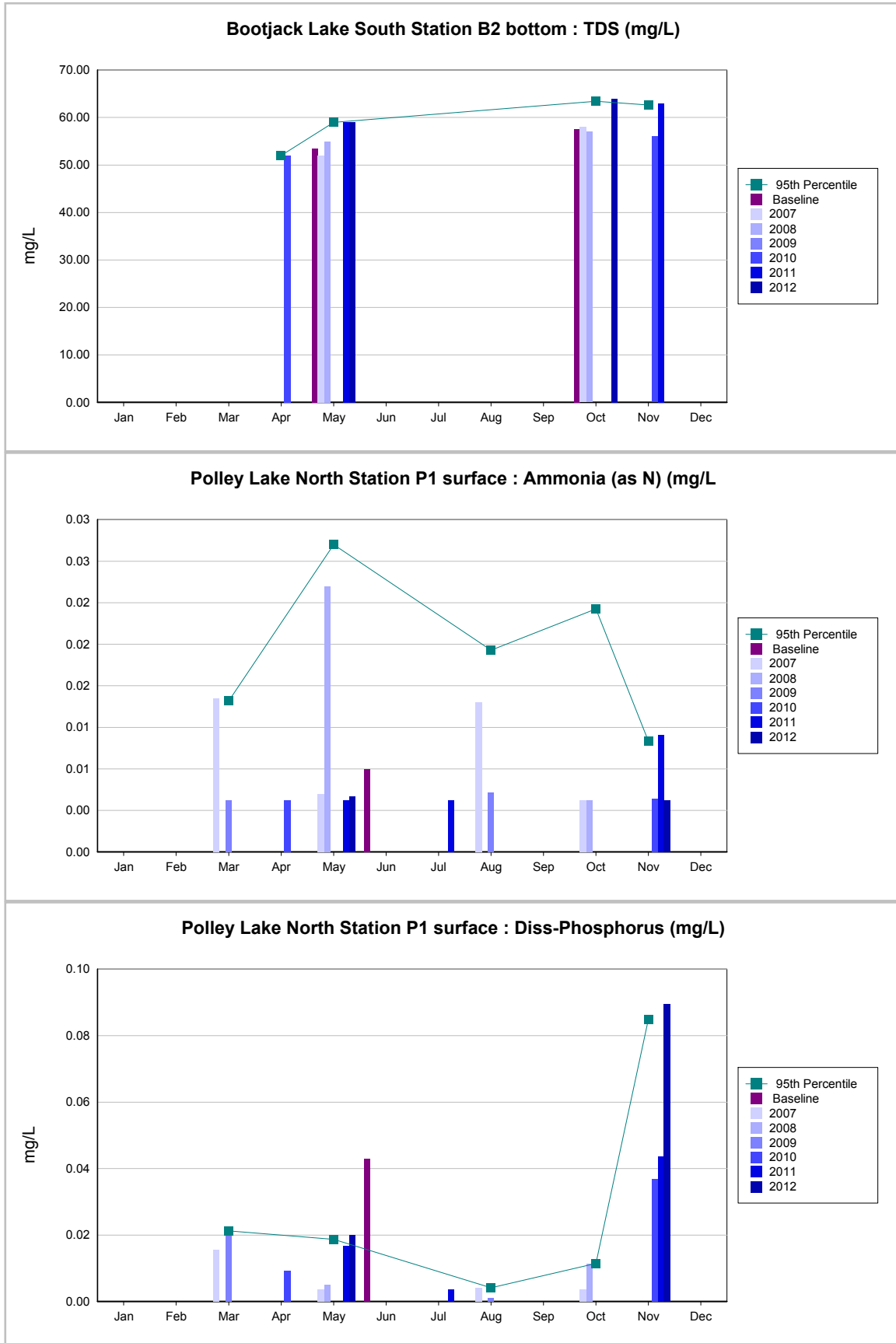
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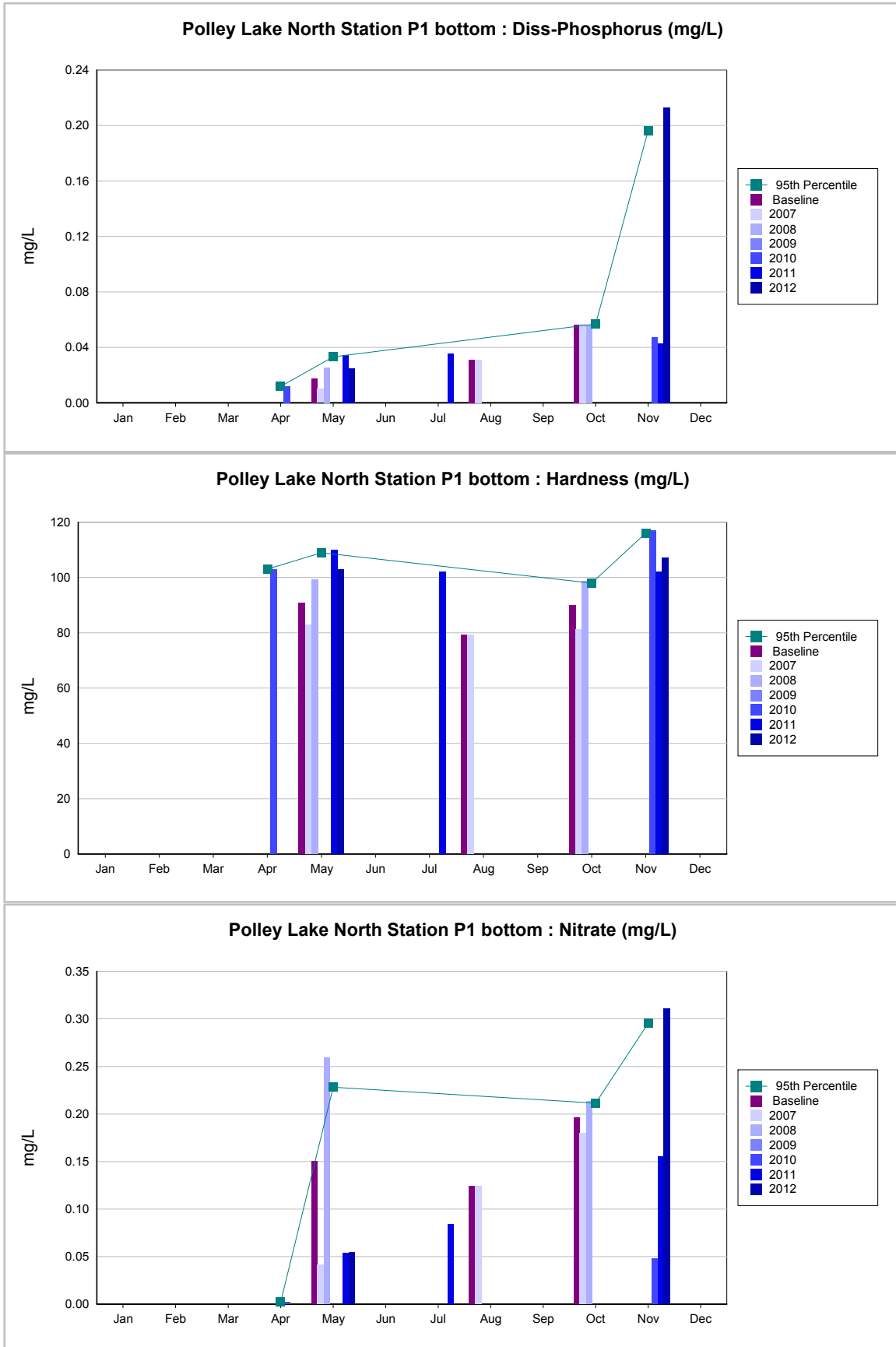
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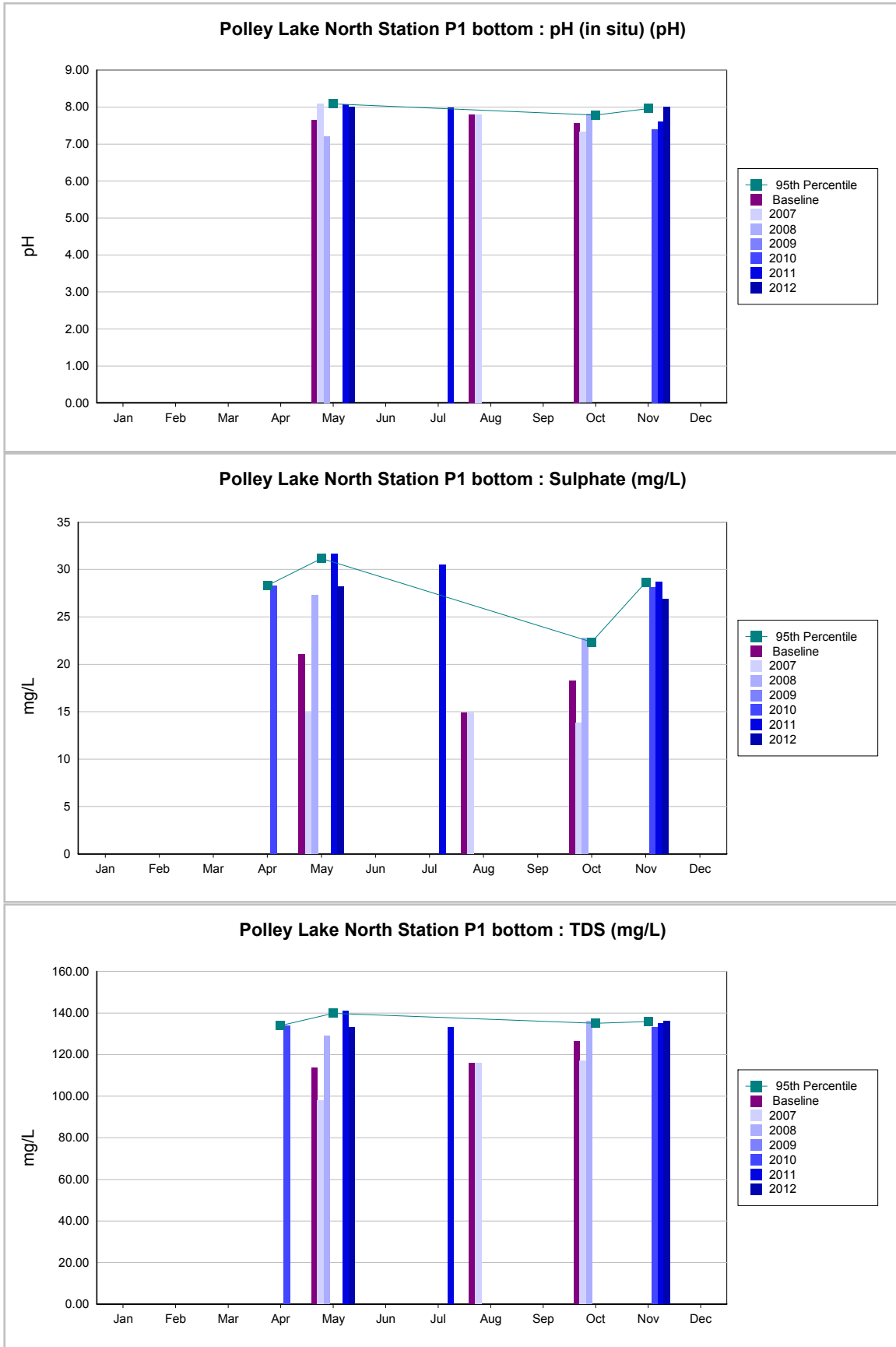
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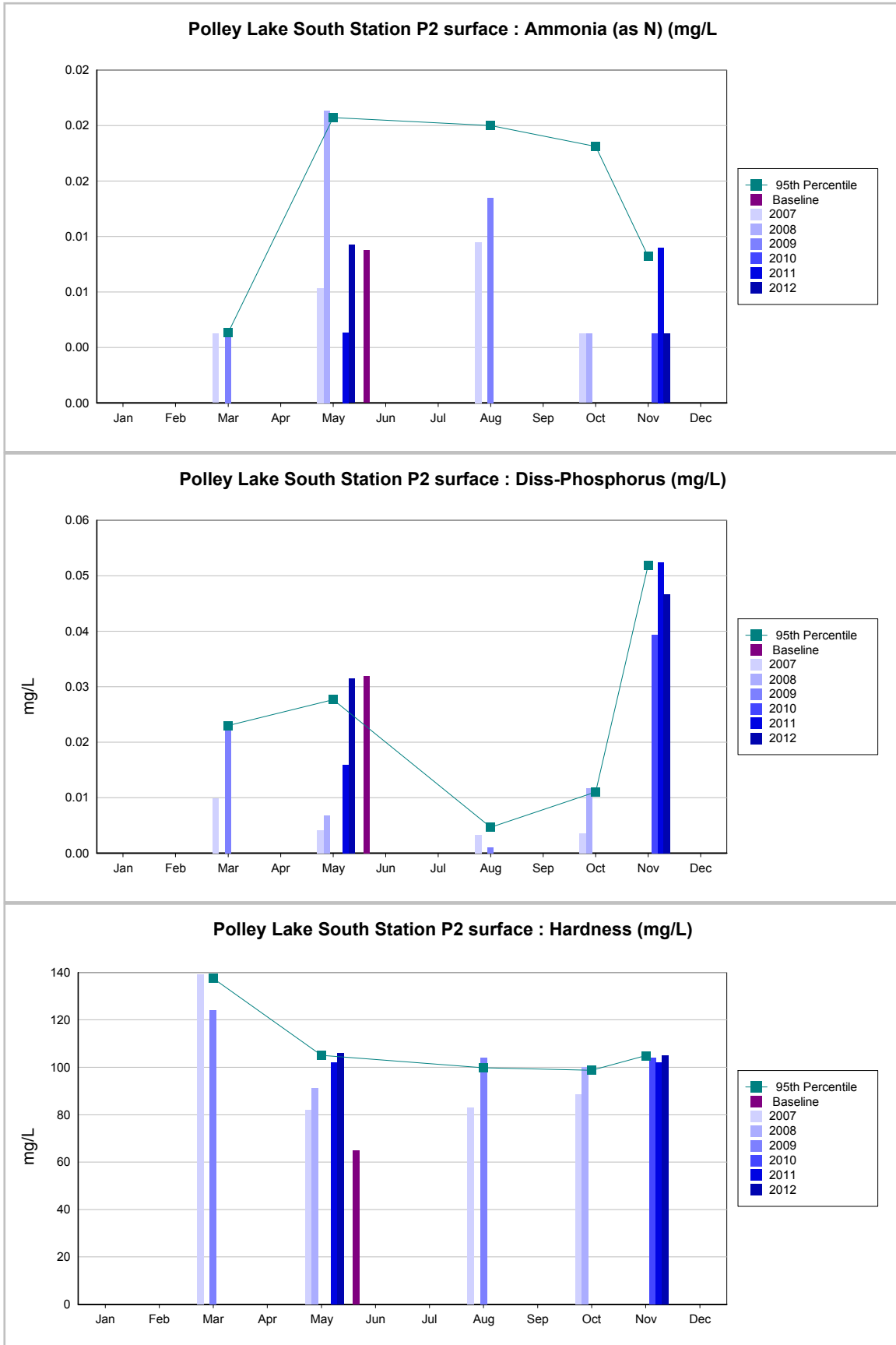
Water Quality Report

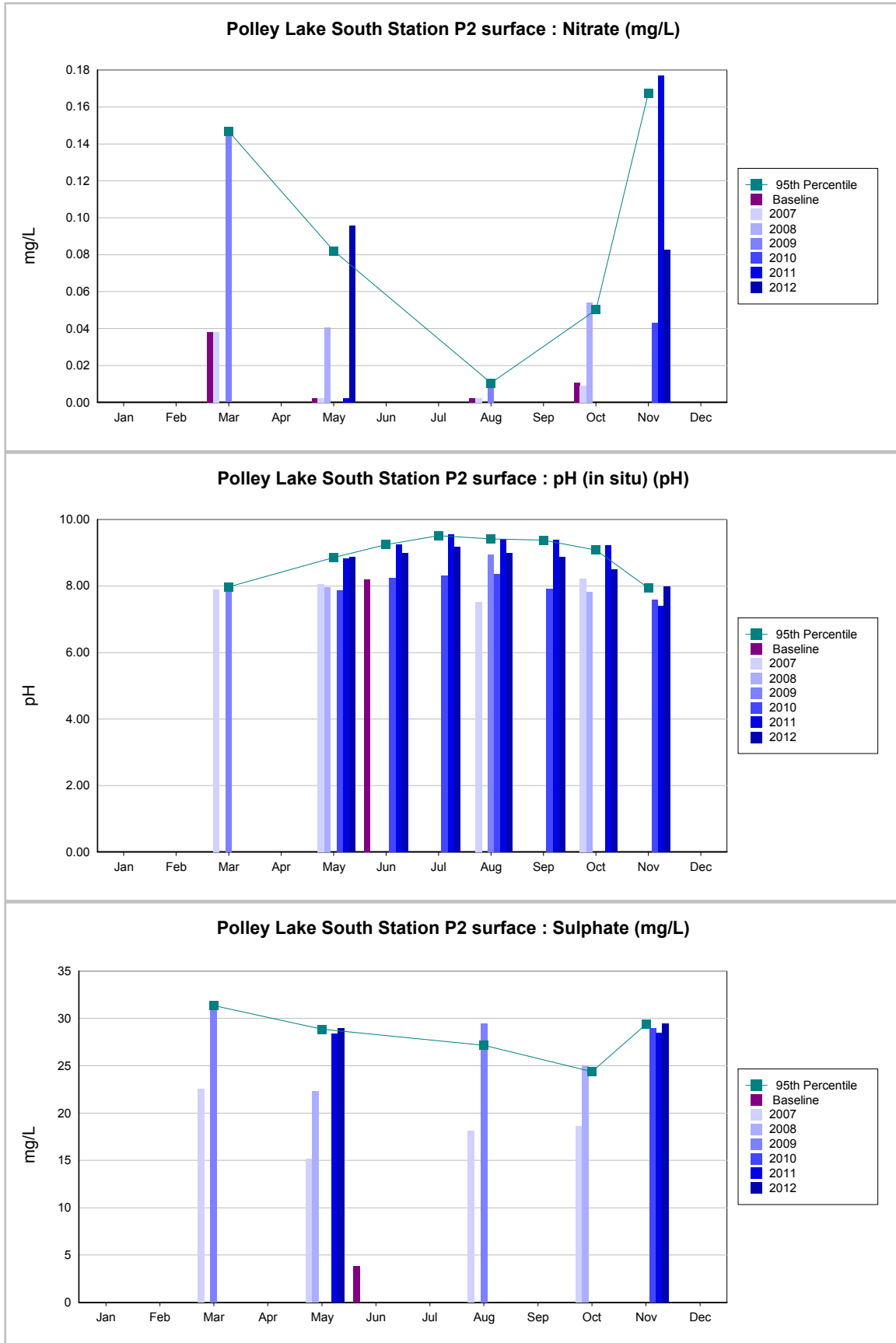


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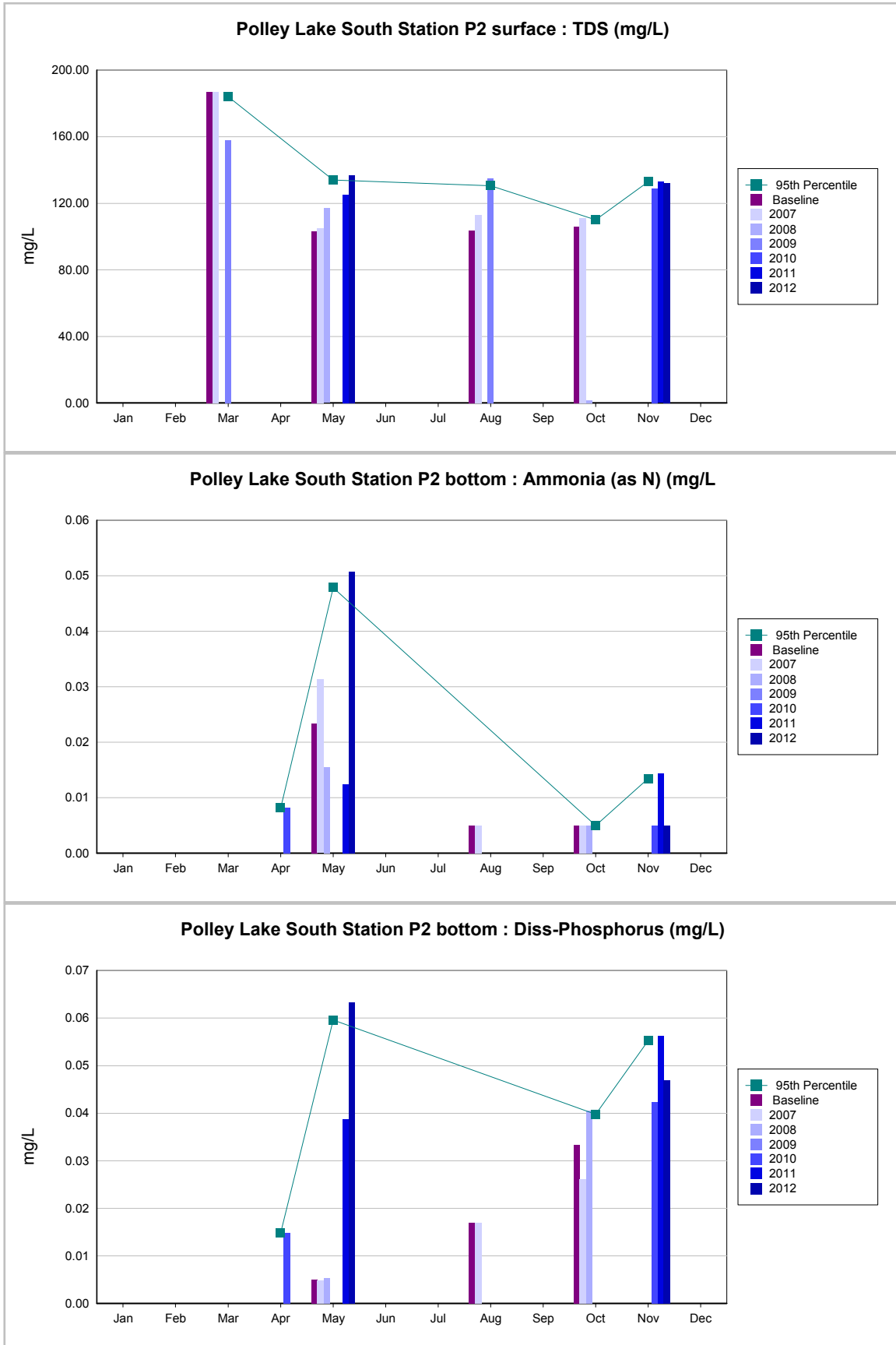
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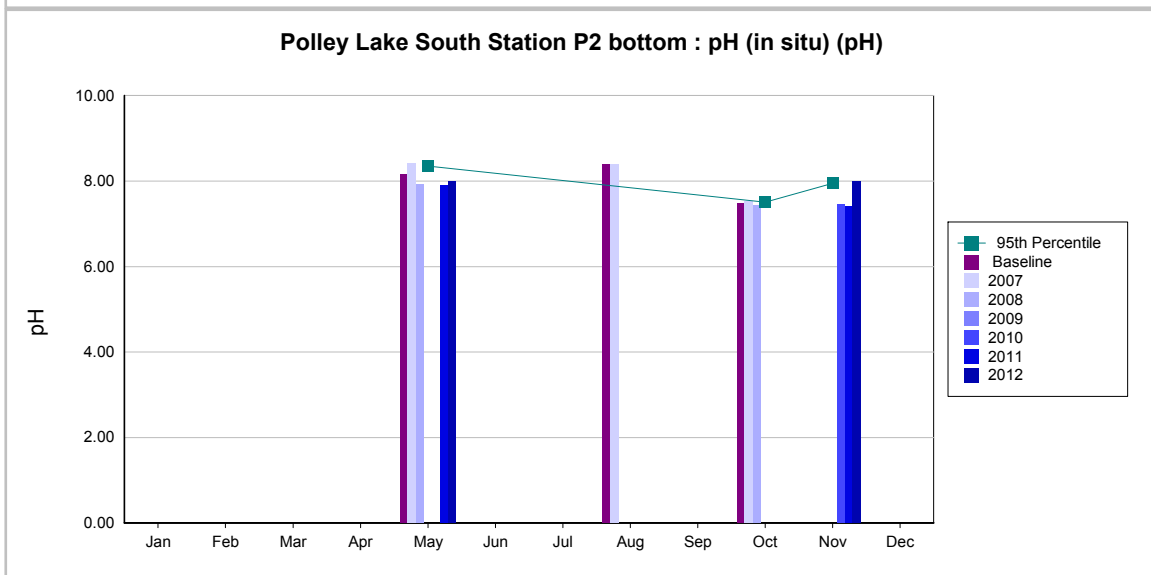
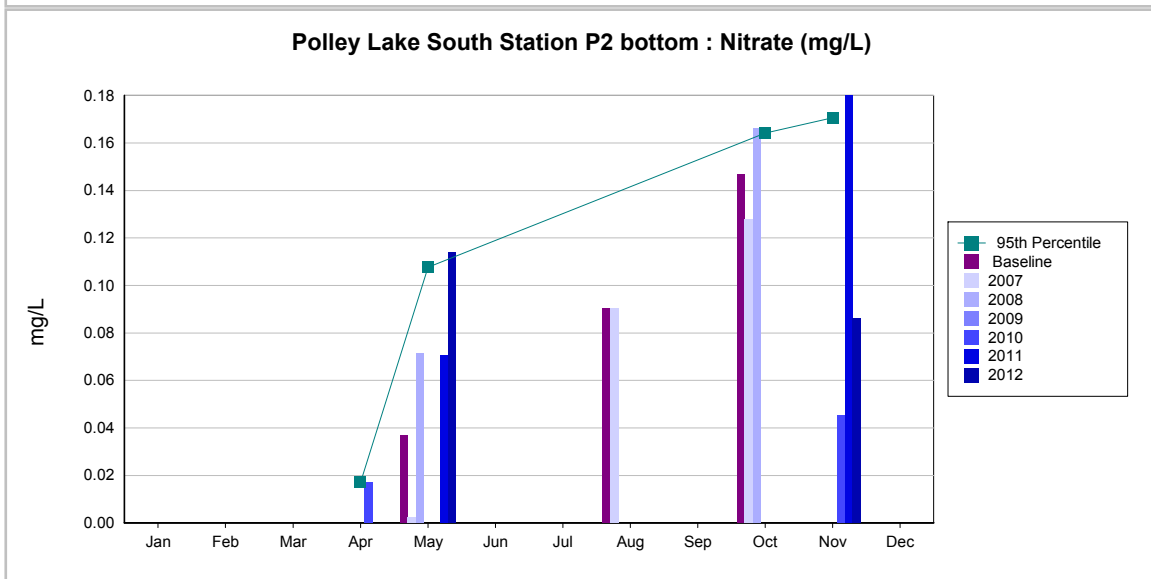
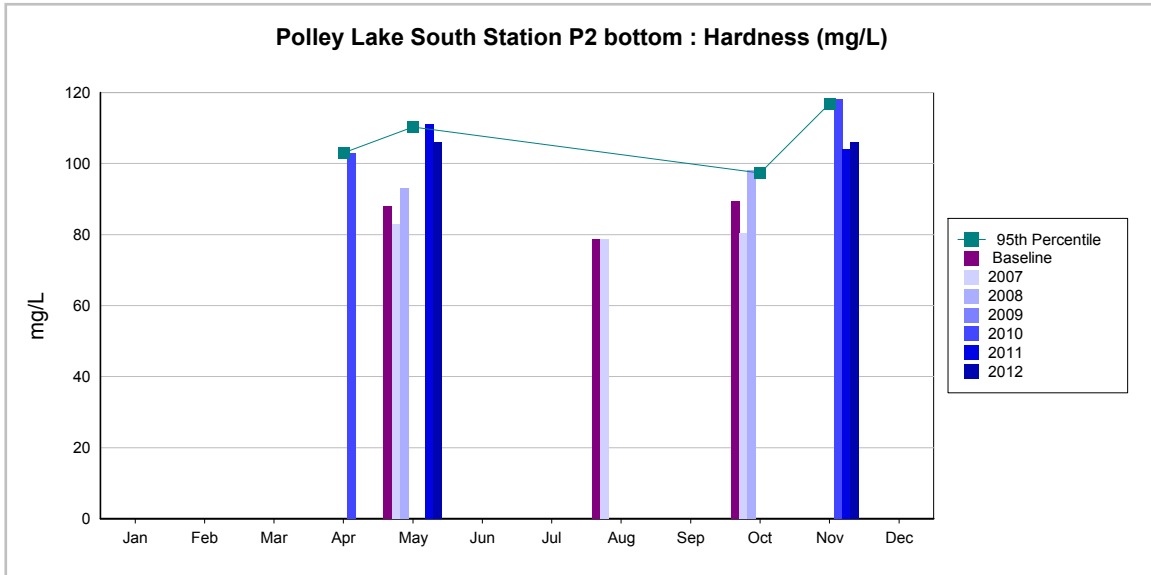
Water Quality Report

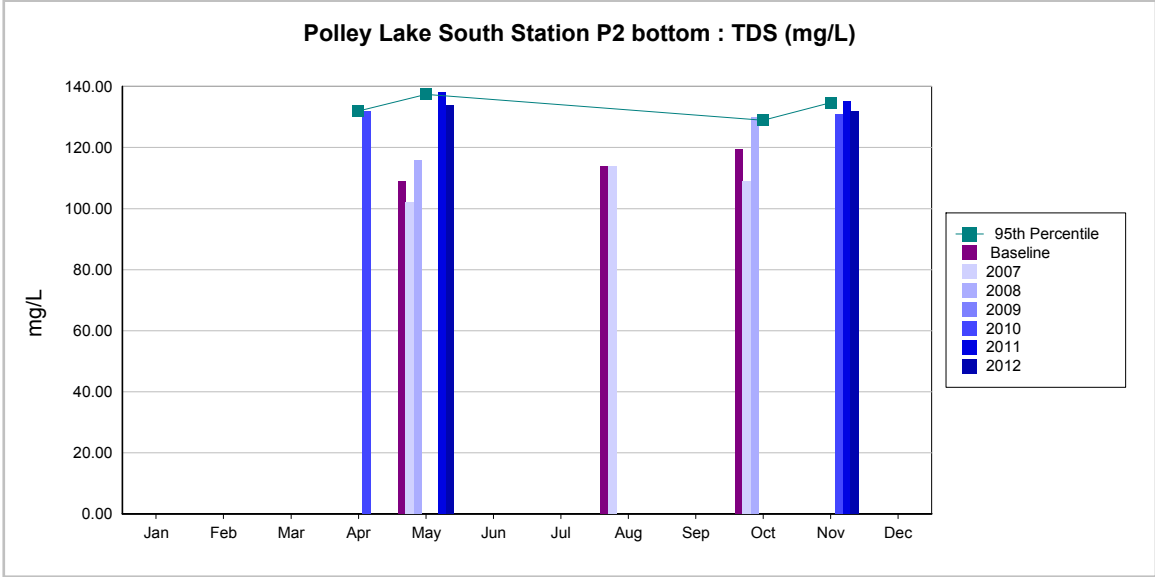
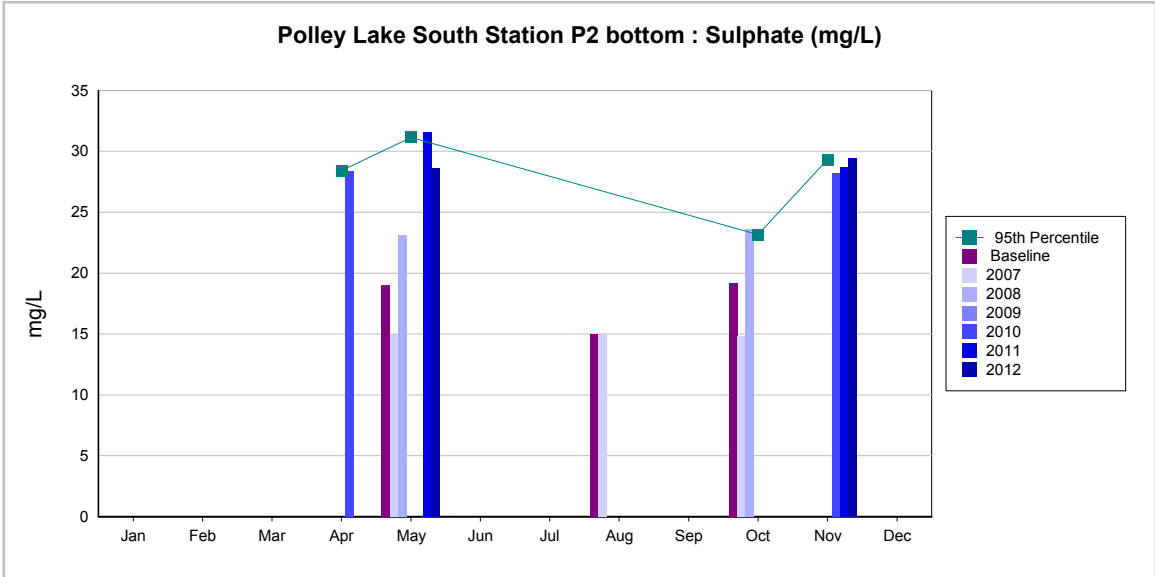


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E207972 : Bootjack Lake North Station B1 bottom

	23-May-07	23-Oct-07	21-May-08	27-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11	16-May-12	31-Oct-12
Anions and Nutrients										
Ammonia (as N) (mg/L)	0.0104	<0.005	0.008	<0.005	<0.0050	<0.005	0.0131	<0.0050	0.0223	<0.0050
Chloride (mg/L)					1.19	1.19	1.72	1.44	1.59	1.92
Diss-Orthophosphate (mg/L)	0.0012	0.0014	0.0021	0.0012	<0.0010	0.0012	0.002	<0.0010	<0.0010	<0.0010
Diss-Phosphorus (mg/L)	0.004	0.0082	0.0048	0.0158	0.0045	0.0047	0.0035	0.0039	0.0052	0.0042
Nitrate (mg/L)	<0.005	<0.005	0.0543	<0.005	0.0129	<0.005	0.0242	<0.0050	0.0164	<0.0050
Nitrate and Nitrite (mg/L)					0.0129	<0.0051	0.0242	<0.0051	0.0164	<0.0051
Nitrite (mg/L)	<0.001	<0.001	0.0018	<0.001	<0.0010	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Sulphate (mg/L)	3.14	3.24	3.59	3.05	3.22	3.54	4.19	3.83	4.08	4.44
Total Nitrogen (mg/L)	0.34	0.4	0.19	0.18	0.24	0.24	0.22	0.180	0.3	0.32
Dissolved Metals										
Diss-Aluminum (Al) (mg/L)	0.005	0.0011	0.0049	0.0014	0.003	<0.003	0.006	<0.0030		<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	0.0001	<0.0001	<0.0001	<0.00010	0.00011	<0.0001	<0.00010		<0.00010
Diss-Arsenic (As) (mg/L)	0.00026	0.00034	0.00026	0.00033	0.00076	0.00032	0.00024	0.00028		0.00036
Diss-Barium (Ba) (mg/L)	0.0156	0.016	0.0158	0.0156	0.0165	0.0175	0.0174	0.0176		0.0172
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00010		<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Boron (B) (mg/L)	0.047	0.043	0.043	0.045	0.044	0.05	0.052	0.047		0.045
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Calcium (Ca) (mg/L)	12.3	12.1	12.9	12.3	12	13.1	13.3	13.0		13.2
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Copper (Cu) (mg/L)	0.00202	0.00181	0.0022	0.00192	0.00218	0.00193	0.002	0.00189		0.00179
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.030	<0.03	<0.03	<0.030		<0.030
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.000050		<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.00050		<0.00050
Diss-Magnesium (Mg) (mg/L)	2.33	2.17	2.33	2.19	2.2	2.34	2.41	2.31		2.34
Diss-Manganese (Mn) (mg/L)	0.00238	0.0116	0.00118	0.00144	0.0184	0.000427	0.00285	0.0108		0.0028
Diss-Molybdenum (Mo) (mg/L)	0.000885	0.000996	0.000987	0.00106	0.00102	0.00119	0.00114	0.00108		0.00114
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.0005	<0.00050		<0.00050
Diss-Silicon (Si) (mg/L)	2.05	1.71	2.63	1.52	1.9	0.514	1.69	0.384		0.926
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Sodium (Na) (mg/L)	2.26	2.4	2.39	2.38	2.31	2.46	2.48	2.49		2.58
Diss-Strontium (Sr) (mg/L)	0.1	0.107	0.113	0.0967	0.109	0.124	0.126	0.142		0.121

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IMPERIAL METALS CORPORATION

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Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010		<0.010
Diss-Uranium (U) (mg/L)	0.000026	0.000035	0.000023	0.000036	0.00003	0.000042	0.00003	0.000039		0.000037
Diss-Vanadium (V) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.0010		<0.0010
Diss-Zinc (Zn) (mg/L)	0.0016	<0.001	0.0013	0.0011	<0.0010	<0.003	<0.003	<0.0030		<0.0030
TDS (mg/L)	50	62	57	217	50	58	48	63	49	59
Physical Test										
Alkalinity (CaCO3) (	37.9	39.7	42.6	42.2	39.5	41.3	40.5	41.2	40.9	44
Conductivity (µs/cm)						89.1	91.7	90.1	87.7	92.5
Hardness (mg/L)	40.4	39	41.7	39.8	39.1	42.3	43.1	42.1	44.5	42.5
NTU (ntu)	1.28	1.78	1.75	1.6	1.02	1.73	1.34	1.41	2.58	1.82
pH (pH)						7.8	7.71	7.98	7.76	7.88
TDS (mg/L)	50	62	57	217	50	58	48	63	49	59
TSS (mg/L)	<3	3.3	3.7	3.3	<3.0	4.1	<3	4.3	<3.0	<3.0
Total Metals										
Antimony (Sb)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	0.00010	0.00012	<0.00010
Arsenic (As)-Total (	0.00029	0.00034	0.00026	0.00035	0.00102	0.00038	0.0003	0.00031	0.00032	0.00039
Barium (Ba)-Total	0.0165	0.0168	0.0172	0.0163	0.0166	0.0181	0.0183	0.0184	0.0192	0.018
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.045	0.043	0.041	0.046	0.044	0.049	0.049	0.048	0.051	0.046
Calcium (Ca)-Total (	12.3	11.9	12.5	12.2	11.6	12.8	13.4	13.3	13.6	13.2
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	2.33	2.18	2.27	2.15	2.14	2.31	2.42	2.37	2.53	2.38
Nickel (Ni)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	2.08	1.83	2.57	1.58	1.91	0.67	1.76	0.517	1.56	1.06
Silver (Ag)-Total (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	2.26	2.38	2.34	2.46	2.24	2.4	2.51	2.56	2.54	2.41
Strontium (Sr)-Total (mg/L)	0.1	0.104	0.106	0.0974	0.107	0.123	0.116	0.147	0.125	0.128
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010	<0.010	<0.010

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Total Aluminum (mg/L)	0.0152	0.0188	0.0224	0.0553	0.0243	0.0415	0.0264	0.0263	0.0416	0.0237
Total Cadmium (mg/L)	<0.000017	<0.000017	<0.000017	0.000023	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.00224	0.00223	0.00271	0.00307	0.00267	0.00307	0.00237	0.00253	0.00273	0.00257
Total Iron (mg/L)	0.087	0.089	0.14	0.071	0.067	0.107	0.124	0.114	0.167	0.086
Total Lead	<0.00005	<0.00005	<0.00005	0.000066	<0.000050	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.0274	0.0385	0.129	0.0202	0.039	0.0258	0.0681	0.0343	0.0668	0.0284
Total Molybdenum (mg/L)	0.000841	0.000967	0.00101	0.00104	0.000969	0.00119	0.0011	0.00113	0.00108	0.0012
Total Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Uranium (U)-Total (mg/L)	0.000029	0.000039	0.000031	0.000041	0.000032	0.000046	0.000032	0.000043	0.00004	0.000042
Vanadium (V)-Total (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	0.0017	<0.001	<0.003	0.0027	0.0011	<0.003	<0.003	<0.0030	<0.0030	<0.0030

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	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	11	4	0.00500	0.02230	0.00807	0.01770	0.00547
Chloride (mg/L)	7	7	1.19000	1.92000	1.46286	1.86000	0.29301
Diss-Orthophosphate (mg/L)	11	6	0.00050	0.00210	0.00105	0.00205	0.00061
Diss-Phosphorus (mg/L)	11	11	0.00350	0.01580	0.00575	0.01200	0.00356
Nitrate (mg/L)	11	5	0.00250	0.05430	0.01234	0.03925	0.01581
Nitrate and Nitrite (mg/L)	7	4	0.00255	0.02420	0.01058	0.02186	0.00840
Nitrite (mg/L)	11	1	0.00050	0.00180	0.00062	0.00115	0.00039
Sulphate (mg/L)	11	11	3.05000	4.44000	3.59455	4.31500	0.47675
Total Nitrogen (mg/L)	11	11	0.18000	0.40000	0.25909	0.37000	0.07190
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	10	7	0.00110	0.00600	0.00289	0.00555	0.00181
Diss-Antimony (Sb) (mg/L)	10	2	0.00005	0.00011	0.00006	0.00011	0.00002
Diss-Arsenic (As) (mg/L)	10	10	0.00024	0.00076	0.00039	0.00076	0.00020
Diss-Barium (Ba) (mg/L)	10	10	0.01560	0.01760	0.01657	0.01756	0.00080
Diss-Beryllium (Be) (mg/L)	10	0	0.00005	0.00025	0.00021	0.00025	0.00008
Diss-Bismuth (Bi) (mg/L)	10	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Boron (B) (mg/L)	10	10	0.04300	0.05200	0.04600	0.05110	0.00302
Diss-Cadmium (Cd) (mg/L)	10	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Calcium (Ca) (mg/L)	10	10	12.00000	13.30000	12.62000	13.25500	0.52662
Diss-Chromium (Cr) (mg/L)	10	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Cobalt (Co) (mg/L)	10	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Copper (Cu) (mg/L)	10	10	0.00179	0.00220	0.00199	0.00219	0.00015
Diss-Iron (Fe) (mg/L)	10	0	0.01500	0.01500	0.01500	0.01500	0.00000
Diss-Lead (Pb) (mg/L)	10	0	0.00003	0.00003	0.00003	0.00003	0.00000
Diss-Lithium (Li) (mg/L)	10	0	0.00025	0.00250	0.00205	0.00250	0.00095
Diss-Magnesium (Mg) (mg/L)	10	10	2.17000	2.41000	2.28200	2.37850	0.08364
Diss-Manganese (Mn) (mg/L)	10	10	0.00043	0.01840	0.00703	0.01840	0.00715
Diss-Molybdenum (Mo) (mg/L)	10	10	0.00089	0.00119	0.00105	0.00117	0.00009
Diss-Nickel (Ni) (mg/L)	10	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Selenium (mg/L)	10	0	0.00025	0.00050	0.00043	0.00050	0.00012
Diss-Silicon (Si) (mg/L)	10	10	0.38400	2.63000	1.52240	2.36900	0.70884
Diss-Silver (Ag) (mg/L)	10	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	10	10	2.26000	2.58000	2.40600	2.53950	0.09800

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207972 : Bootjack Lake North Station B1 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	10	10	0.09670	0.14200	0.11477	0.13480	0.01361
Diss-Thallium (Tl) (mg/L)	10	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	10	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Titanium (Ti) (mg/L)	10	0	0.00500	0.00500	0.00500	0.00500	0.00000
Diss-Uranium (U) (mg/L)	10	10	0.00002	0.00004	0.00003	0.00004	0.00001
Diss-Vanadium (V) (mg/L)	10	0	0.00050	0.00050	0.00050	0.00050	0.00000
Diss-Zinc (Zn) (mg/L)	10	3	0.00050	0.00160	0.00115	0.00156	0.00047
TDS (mg/L)	11	11	48.00000	217.00000	69.36364	140.00000	49.27123
Physical Test							
Alkalinity (CaCO3) ()	11	11	37.90000	44.00000	40.84545	43.30000	1.70080
Conductivity (µs/cm)	5	5	87.70000	92.50000	90.22000	92.34000	1.93701
Hardness (mg/L)	11	11	39.00000	44.50000	41.23636	43.80000	1.86294
NTU (ntu)	11	11	1.02000	2.58000	1.57545	2.20000	0.44191
pH (pH)	5	5	7.71000	7.98000	7.82600	7.96000	0.10621
TDS (mg/L)	11	11	48.00000	217.00000	69.36364	140.00000	49.27123
TSS (mg/L)	11	5	1.50000	4.30000	2.51818	4.20000	1.20484
Total Metals							
Antimony (Sb)-Total (mg/L)	11	2	0.00005	0.00012	0.00006	0.00011	0.00002
Arsenic (As)-Total ()	11	11	0.00026	0.00102	0.00045	0.00102	0.00028
Barium (Ba)-Total	11	11	0.01630	0.01920	0.01745	0.01880	0.00098
Beryllium (Be)-Total (mg/L)	11	0	0.00005	0.00025	0.00020	0.00025	0.00009
Bismuth (Bi)-Total (mg/L)	11	0	0.00025	0.00025	0.00025	0.00025	0.00000
Boron (B)-Total (mg/L)	11	11	0.04100	0.05100	0.04600	0.05000	0.00300
Calcium (Ca)-Total ()	11	11	11.60000	13.60000	12.58182	13.50000	0.72639
Chromium (Cr)-Total (mg/L)	11	0	0.00025	0.00025	0.00025	0.00025	0.00000
Cobalt (Co)-Total (m	11	0	0.00010	0.00010	0.00010	0.00010	0.00000
Lithium (Li)-Total (mg/L)	11	0	0.00025	0.00250	0.00189	0.00250	0.00105
Magnesium (Mg)-Total (mg/L)	11	11	2.14000	2.53000	2.29273	2.47500	0.12962
Nickel (Ni)-Total (mg/L)	11	0	0.00025	0.00025	0.00025	0.00025	0.00000
Silicon (Si)-Total (mg/L)	11	11	0.51700	2.57000	1.58609	2.32500	0.61411
Silver (Ag)-Total (mg/L)	11	0	0.00001	0.00001	0.00001	0.00001	0.00000
Sodium (Na)-Total (mg/L)	11	11	2.24000	2.56000	2.39455	2.55000	0.11639
Strontium (Sr)-Total (mg/L)	11	11	0.09740	0.14700	0.11458	0.13750	0.01490
Thallium (Tl)-Total (mg/L)	11	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	11	0	0.00005	0.00005	0.00005	0.00005	0.00000

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207972 : Bootjack Lake North Station B1 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	11	0	0.00500	0.00500	0.00500	0.00500	0.00000
Total Aluminum (mg/L)	11	11	0.01520	0.05530	0.02907	0.04845	0.01196
Total Cadmium (mg/L)	11	1	0.00001	0.00002	0.00001	0.00002	0.00000
Total Copper (mg/L)	11	11	0.00223	0.00307	0.00262	0.00307	0.00028
Total Iron (mg/L)	11	11	0.06700	0.16700	0.10173	0.15350	0.03222
Total Lead	11	1	0.00005	0.00007	0.00005	0.00006	0.00000
Total Manganese (mg/L)	11	11	0.02020	0.12900	0.04695	0.09855	0.03134
Total Molybdenum (mg/L)	11	11	0.00084	0.00120	0.00105	0.00120	0.00011
Total Selenium (mg/L)	11	0	0.00025	0.00050	0.00041	0.00050	0.00013
Uranium (U)-Total (mg/L)	11	11	0.00003	0.00005	0.00004	0.00004	0.00001
Vanadium (V)-Total (mg/L)	11	0	0.00050	0.00050	0.00050	0.00050	0.00000
Zinc (Zn)-Total (mg/L)	11	4	0.00050	0.00270	0.00146	0.00220	0.00053

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Mining Corporation

IMPERIAL METALS CORPORATION

E207972 : Bootjack Lake North Station B1 surface												
	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	16-May-12	31-Oct-12
Anions and Nutrients												
Ammonia (as N) (mg/L)	<0.005	0.0052	<0.005	0.0093	<0.005	0.0412	0.0057	<0.005	<0.005	<0.0050	0.0167	<0.0050
Chloride (mg/L)						1.43	0.99	1.28	1.42	1.44	1.48	1.69
Diss-Orthophosphate (mg/L)	<0.001	<0.001	0.0013	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Diss-Phosphorus (mg/L)	0.003	0.0034	0.0057	0.0036	0.0055	0.0056	<0.002	0.0042	0.0029	0.0033	0.0046	0.0037
Nitrate (mg/L)	0.0241	<0.005	<0.005	<0.005	<0.005	0.0168	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)								<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	0.0014	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Sulphate (mg/L)	2.93	3.15	3.24	3.1	3.04	4.71	3.13	3.72	3.7	3.83	3.92	4.39
Total Nitrogen (mg/L)	0.29	0.33	0.38	0.18	0.18	0.33	0.24	0.16	0.18	0.130	0.28	0.31
Dissolved Metals												
Diss-Aluminum (Al) (mg/L)	0.001	0.0052	0.0012	0.013	0.0013	0.0045	0.0035	<0.003	0.0129	<0.0030		<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	0.00013	<0.0001	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Arsenic (As) (mg/L)	0.00028	0.00027	0.00032	0.00025	0.00032	0.0004	0.00032	0.0003	0.00025	0.00031		0.00034
Diss-Barium (Ba) (mg/L)	0.0148	0.0152	0.0157	0.0146	0.0156	0.0233	0.0157	0.0177	0.0156	0.0179		0.0171
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00010		<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Boron (B) (mg/L)	0.043	0.045	0.041	0.039	0.045	0.065	0.045	0.048	0.044	0.047		0.045
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	0.000033	<0.000017	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Calcium (Ca) (mg/L)	11.6	12.1	12	11.2	12.3	17.4	12.3	13.1	11.8	13.0		13.4
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Copper (Cu) (mg/L)	0.00175	0.00225	0.00181	0.00234	0.00186	0.0027	0.00235	0.00206	0.00224	0.00187		0.00174
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030		<0.030
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050		<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00050		<0.00050
Diss-Magnesium (Mg) (mg/L)	2.12	2.3	2.18	2.07	2.2	3.11	2.27	2.31	2.14	2.30		2.38
Diss-Manganese (Mn) (mg/L)	0.000461	0.00343	0.00709	0.0024	0.00167	0.000364	0.00027	0.00049	0.00182	0.0108		0.0026
Diss-Molybdenum (Mo) (mg/L)	0.000905	0.000911	0.00103	0.00091	0.00101	0.00146	0.00105	0.00117	0.000979	0.00108		0.00112
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050		<0.00050
Diss-Silicon (Si) (mg/L)	1.2	1.79	1.7	1.93	1.51	1.91	1.52	0.387	1.11	0.400		0.935
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Sodium (Na) (mg/L)	2.15	2.26	2.37	2.16	2.36	3.5	2.26	2.66	2.34	2.51		2.46
Diss-Strontium (Sr) (mg/L)	0.0953	0.1	0.104	0.101	0.0965	0.139	0.115	0.118	0.104	0.140		0.12

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	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	16-May-12	31-Oct-12
Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000010		<0.000010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010		<0.010
Diss-Uranium (U) (mg/L)	0.000031	0.00003	0.000037	0.00003	0.000037	0.000053	0.00004	0.000041	0.000034	0.000040		0.000037
Diss-Vanadium (V) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010		<0.0010
Diss-Zinc (Zn) (mg/L)	0.0045	<0.001	<0.001	<0.001	<0.001	0.0056	<0.001	<0.003	<0.003	<0.0030		<0.0030
TDS (mg/L)	53	50	61	50	5.3	83	54	50	59	59	49	60
Physical Test												
Alkalinity (CaCO3) (	36.1	37.7	39.8	37.8	43.7	57.4	43.4	40.4	37.6	40.9	41.3	44.1
Conductivity (µs/cm)								89.6	83.6	89.7	86.4	91.9
Hardness (mg/L)	37.6	39.8	38.9	36.5	39.9	56.3	40.1	42.3	38.4	42.0	43.2	43.3
NTU (ntu)	0.91	0.98	1.46	1	1.58	1.72	0.86	1.37	0.73	1.53	1.77	2.26
pH (pH)								7.77	7.78	7.96	7.79	7.89
TDS (mg/L)	53	50	61	50	5.3	83	54	50	59	59	49	60
TSS (mg/L)	<3	<3	3.3	<3	158	<3	<3	<3	<3	<3.0	4.7	6.7
Total Metals												
Antimony (Sb)-Total (mg/L)	<0.0001	0.0001	0.00011	<0.0001	<0.0001	0.00016	<0.0001	0.00011	<0.0001	<0.00010	0.00011	<0.00010
Arsenic (As)-Total (	0.0003	0.00029	0.00039	0.00026	0.00035	0.00048	0.0003	0.00036	0.00026	0.00034	0.00033	0.0004
Barium (Ba)-Total	0.0149	0.016	0.0172	0.0156	0.017	0.0265	0.0157	0.0183	0.0164	0.0185	0.0185	0.0173
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.043	0.046	0.043	0.04	0.046	0.067	0.046	0.049	0.047	0.049	0.049	0.039
Calcium (Ca)-Total (	11.4	12.3	12	11.3	12.2	17.3	11	13	12.2	13.1	13.3	13.2
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00129	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	1.96	2.34	2.16	2.1	2.17	3.12	2.15	2.3	2.22	2.34	2.45	2.3
Nickel (Ni)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00052	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	1.29	1.83	1.81	1.99	1.61	1.96	1.44	0.482	1.21	0.484	1.3	1.03
Silver (Ag)-Total (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000013	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	2.14	2.31	2.55	2.17	2.52	3.77	2.27	2.62	2.38	2.60	2.53	2.49
Strontium (Sr)-Total (mg/L)	0.0964	0.103	0.114	0.101	0.0974	0.151	0.114	0.122	0.112	0.147	0.123	0.111
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010

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	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	16-May-12	31-Oct-12
Total Aluminum (mg/L)	0.0044	0.0134	0.018	0.0312	0.0313	0.0344	0.0152	0.0205	0.0335	0.0183	0.0352	0.024
Total Cadmium (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	0.000051	0.000047	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.00193	0.00226	0.00227	0.00272	0.0031	0.00757	0.00281	0.0026	0.00267	0.00248	0.00261	0.00249
Total Iron (mg/L)	0.04	0.051	0.082	0.062	0.08	0.104	<0.03	0.068	0.047	0.081	0.116	0.084
Total Lead	<0.00005	<0.00005	<0.00005	<0.00005	0.00006	0.000113	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.00148	0.0208	0.0396	0.0244	0.0202	0.0037	0.0124	0.0138	0.0181	0.0340	0.0481	0.0273
Total Molybdenum (mg/L)	0.000896	0.000865	0.00102	0.000892	0.00101	0.00163	0.0011	0.00124	0.00104	0.00114	0.00104	0.00101
Total Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Uranium (U)-Total (mg/L)	0.00003	0.000032	0.000037	0.000034	0.000045	0.000055	0.000044	0.000043	0.000038	0.000041	0.000041	0.000037
Vanadium (V)-Total (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	0.0046	<0.001	<0.001	<0.001	0.0026	<0.01	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030

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IMPERIAL METALS CORPORATION

E207972 : Bootjack Lake North Station B1 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	17	8	0.00500	0.04120	0.00989	0.02424	0.00928
Chloride (mg/L)	7	7	0.99000	1.69000	1.39000	1.62700	0.21417
Diss-Orthophosphate (mg/L)	17	3	0.00050	0.00500	0.00085	0.00204	0.00110
Diss-Phosphorus (mg/L)	17	16	0.00100	0.00700	0.00385	0.00596	0.00147
Nitrate (mg/L)	14	2	0.00250	0.02410	0.00506	0.01936	0.00667
Nitrate and Nitrite (mg/L)	6	0	0.00255	0.01000	0.00379	0.00814	0.00304
Nitrite (mg/L)	14	2	0.00050	0.00140	0.00063	0.00140	0.00033
Sulphate (mg/L)	17	17	2.30000	4.71000	3.36529	4.45400	0.59970
Total Nitrogen (mg/L)	17	16	0.06000	0.38000	0.25365	0.34000	0.08908
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	16	13	0.00100	0.01300	0.00388	0.01293	0.00380
Diss-Antimony (Sb) (mg/L)	16	5	0.00005	0.00019	0.00007	0.00015	0.00004
Diss-Arsenic (As) (mg/L)	16	16	0.00024	0.00040	0.00030	0.00036	0.00004
Diss-Barium (Ba) (mg/L)	16	16	0.01440	0.02330	0.01627	0.01925	0.00214
Diss-Beryllium (Be) (mg/L)	16	0	0.00003	0.00025	0.00021	0.00025	0.00008
Diss-Bismuth (Bi) (mg/L)	16	0	0.00003	0.00025	0.00024	0.00025	0.00006
Diss-Boron (B) (mg/L)	15	15	0.03900	0.06500	0.04593	0.05310	0.00575
Diss-Cadmium (Cd) (mg/L)	16	1	0.00001	0.00003	0.00001	0.00003	0.00001
Diss-Calcium (Ca) (mg/L)	16	16	10.80000	17.40000	12.56875	14.47500	1.48356
Diss-Chromium (Cr) (mg/L)	16	0	0.00010	0.00025	0.00024	0.00025	0.00004
Diss-Cobalt (Co) (mg/L)	16	1	0.00002	0.00005	0.00005	0.00005	0.00001
Diss-Copper (Cu) (mg/L)	16	16	0.00174	0.00270	0.00213	0.00270	0.00030
Diss-Iron (Fe) (mg/L)	16	1	0.00250	0.04600	0.01616	0.02275	0.00855
Diss-Lead (Pb) (mg/L)	16	1	0.00003	0.00008	0.00003	0.00004	0.00001
Diss-Lithium (Li) (mg/L)	16	1	0.00025	0.00250	0.00208	0.00250	0.00090
Diss-Magnesium (Mg) (mg/L)	16	16	2.04000	3.11000	2.29875	2.66750	0.24714
Diss-Manganese (Mn) (mg/L)	16	16	0.00027	0.01080	0.00300	0.00802	0.00297
Diss-Molybdenum (Mo) (mg/L)	16	16	0.00084	0.00146	0.00102	0.00124	0.00015
Diss-Nickel (Ni) (mg/L)	16	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Selenium (mg/L)	16	0	0.00025	0.00050	0.00044	0.00050	0.00011
Diss-Silicon (Si) (mg/L)	16	16	0.38700	1.93000	1.29762	1.91500	0.49938
Diss-Silver (Ag) (mg/L)	16	1	0.00001	0.00002	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	16	16	2.15000	3.50000	2.49438	3.48500	0.40945

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207972 : Bootjack Lake North Station B1 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	16	16	0.09530	0.14000	0.10981	0.13925	0.01363
Diss-Thallium (Tl) (mg/L)	16	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	16	1	0.00005	0.00089	0.00010	0.00026	0.00021
Diss-Titanium (Ti) (mg/L)	16	1	0.00033	0.00500	0.00471	0.00500	0.00117
Diss-Uranium (U) (mg/L)	16	16	0.00003	0.00005	0.00004	0.00004	0.00001
Diss-Vanadium (V) (mg/L)	16	1	0.00023	0.00050	0.00048	0.00050	0.00007
Diss-Zinc (Zn) (mg/L)	16	4	0.00050	0.00560	0.00148	0.00478	0.00150
TDS (mg/L)	16	16	5.30000	83.00000	52.64375	66.50000	15.14213
Physical Test							
Alkalinity (CaCO3) ()	17	17	35.20000	57.40000	40.54706	46.76000	5.14127
Conductivity (µs/cm)	5	5	83.60000	91.90000	88.24000	91.46000	3.25161
Hardness (mg/L)	17	17	31.80000	56.30000	40.81765	46.46000	4.93688
NTU (ntu)	17	17	0.52000	2.47000	1.24000	2.30200	0.59119
pH (pH)	5	5	7.77000	7.96000	7.83800	7.94600	0.08349
TDS (mg/L)	16	16	5.30000	83.00000	52.64375	66.50000	15.14213
TSS (mg/L)	17	4	1.50000	158.00000	11.33529	36.96000	37.82241
Total Metals							
Antimony (Sb)-Total (mg/L)	17	8	0.00005	0.00016	0.00008	0.00013	0.00004
Arsenic (As)-Total ()	17	17	0.00024	0.00048	0.00033	0.00042	0.00007
Barium (Ba)-Total	17	17	0.01490	0.02650	0.01722	0.02010	0.00263
Beryllium (Be)-Total (mg/L)	17	0	0.00003	0.00025	0.00020	0.00025	0.00009
Bismuth (Bi)-Total (mg/L)	17	1	0.00003	0.00060	0.00026	0.00032	0.00010
Boron (B)-Total (mg/L)	16	16	0.03900	0.06700	0.04688	0.05350	0.00613
Calcium (Ca)-Total ()	17	17	9.76000	17.30000	12.47412	14.26000	1.56097
Chromium (Cr)-Total (mg/L)	17	1	0.00010	0.00129	0.00030	0.00046	0.00026
Cobalt (Co)-Total (m	17	1	0.00010	0.00010	0.00010	0.00010	0.00000
Lithium (Li)-Total (mg/L)	17	1	0.00020	0.00250	0.00197	0.00250	0.00099
Magnesium (Mg)-Total (mg/L)	17	17	1.81000	3.12000	2.28235	2.64800	0.27513
Nickel (Ni)-Total (mg/L)	17	1	0.00025	0.00052	0.00027	0.00030	0.00007
Silicon (Si)-Total (mg/L)	17	17	0.48200	1.99000	1.35035	1.96600	0.47143
Silver (Ag)-Total (mg/L)	17	1	0.00001	0.00001	0.00001	0.00001	0.00000
Sodium (Na)-Total (mg/L)	17	17	2.14000	3.77000	2.48647	2.85000	0.36495
Strontium (Sr)-Total (mg/L)	17	17	0.09640	0.15100	0.11358	0.14780	0.01539
Thallium (Tl)-Total (mg/L)	17	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	17	0	0.00003	0.00005	0.00005	0.00005	0.00001

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207972 : Bootjack Lake North Station B1 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	17	1	0.00046	0.00500	0.00473	0.00500	0.00110
Total Aluminum (mg/L)	17	17	0.00440	0.03520	0.01972	0.03456	0.01015
Total Cadmium (mg/L)	17	2	0.00001	0.00005	0.00002	0.00005	0.00002
Total Copper (mg/L)	17	17	0.00193	0.00757	0.00285	0.00415	0.00126
Total Iron (mg/L)	17	14	0.03000	0.11600	0.06194	0.10640	0.02668
Total Lead	17	3	0.00005	0.00012	0.00006	0.00011	0.00002
Total Manganese (mg/L)	17	17	0.00148	0.04810	0.01974	0.04130	0.01227
Total Molybdenum (mg/L)	17	17	0.00083	0.00163	0.00103	0.00132	0.00019
Total Selenium (mg/L)	17	0	0.00025	0.00050	0.00043	0.00050	0.00012
Uranium (U)-Total (mg/L)	17	17	0.00003	0.00006	0.00004	0.00005	0.00001
Vanadium (V)-Total (mg/L)	17	1	0.00026	0.00050	0.00049	0.00050	0.00006
Zinc (Zn)-Total (mg/L)	17	4	0.00050	0.00500	0.00171	0.00468	0.00149

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From 1 Jan 2007 to 31 Dec 2012

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Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 bottom

	23-May-07	23-Oct-07	21-May-08	27-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11	15-May-12	31-Oct-12
Anions and Nutrients										
Ammonia (as N) (mg/L)	0.0109	<0.005	0.0079	<0.005	<0.0050	<0.005	<0.005	<0.0050	0.0127	0.0095
Chloride (mg/L)					0.98	1.17	1.34	1.43	1.39	1.69
Diss-Orthophosphate (mg/L)	<0.001	0.0028	<0.001	0.0013	<0.0010	0.0013	0.0011	<0.0010	0.0012	<0.0010
Diss-Phosphorus (mg/L)	0.0033	0.0067	0.0041	0.004	0.0049	0.0045	0.0035	0.0031	0.0051	0.0041
Nitrate (mg/L)	<0.005	<0.005	0.0091	<0.005	0.0192	<0.005	<0.005	<0.0050	0.0105	<0.0050
Nitrate and Nitrite (mg/L)					0.0192	<0.0051	<0.0051	<0.0051	0.0105	<0.0051
Nitrite (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Sulphate (mg/L)	3.03	3.18	2.83	2.99	3.04	3.47	3.61	3.78	3.74	4.31
Total Nitrogen (mg/L)	0.4	0.37	0.18	0.16	0.22	0.26	0.21	0.160	0.24	0.32
Dissolved Metals										
Diss-Aluminum (Al) (mg/L)	0.0053	0.0017	0.0156	0.0025	0.0073	<0.003	0.0116	<0.0030		<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	0.00011	<0.0001	<0.00010		<0.00010
Diss-Arsenic (As) (mg/L)	0.00026	0.00035	0.00024	0.00033	0.00086	0.00031	0.00027	0.00029		0.00035
Diss-Barium (Ba) (mg/L)	0.0152	0.0165	0.0154	0.0157	0.0167	0.0174	0.0167	0.0178		0.0171
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00010		<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Boron (B) (mg/L)	0.045	0.043	0.042	0.044	0.045	0.05	0.046	0.049		0.047
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Calcium (Ca) (mg/L)	12.1	12	11.1	12.3	12	13.1	12.3	12.9		13.3
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Copper (Cu) (mg/L)	0.0021	0.00185	0.00214	0.0019	0.00205	0.00193	0.00211	0.00188		0.00172
Diss-Iron (Fe) (mg/L)	<0.03	0.034	<0.03	<0.03	<0.030	<0.03	<0.03	<0.030		<0.030
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.000050		<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	0.00057		<0.00050
Diss-Magnesium (Mg) (mg/L)	2.3	2.18	2.09	2.17	2.2	2.33	2.21	2.30		2.35
Diss-Manganese (Mn) (mg/L)	0.00445	0.0379	0.00725	0.00577	0.0198	0.000225	0.000858	0.0286		0.000695
Diss-Molybdenum (Mo) (mg/L)	0.000887	0.00106	0.000796	0.00103	0.000925	0.0012	0.000984	0.00110		0.00117
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.0005	<0.00050		<0.00050
Diss-Silicon (Si) (mg/L)	1.79	1.88	1.94	1.64	2.02	0.447	1.29	0.409		1.23
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Sodium (Na) (mg/L)	2.27	2.46	2.2	2.33	2.28	2.45	2.38	2.49		2.58
Diss-Strontium (Sr) (mg/L)	0.0997	0.111	0.104	0.0963	0.11	0.123	0.109	0.142		0.128

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 bottom

	23-May-07	23-Oct-07	21-May-08	27-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11	15-May-12	31-Oct-12
Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010		<0.010
Diss-Uranium (U) (mg/L)	0.000031	0.000035	0.000032	0.000034	0.000032	0.000042	0.000034	0.000037		0.000037
Diss-Vanadium (V) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.0010		<0.0010
Diss-Zinc (Zn) (mg/L)	0.0011	<0.001	0.0015	0.002	<0.0020	<0.003	<0.003	<0.0030		<0.0030
TDS (mg/L)	52	58	55	57	52	56	59	63	59	64
Physical Test										
Alkalinity (CaCO3) (	37.8	39.8	37.6	42.1	39	41.5	38.4	41.2	40.8	44.7
Conductivity (µs/cm)						89.3	84.4	88.2	86.3	92.2
Hardness (mg/L)	39.7	38.9	36.3	39.7	38.9	42.3	39.8	41.8	42.2	42.9
NTU (ntu)	0.81	1.35	1.04	1.49	1.04	1.51	0.87	1.67	1.6	2.18
pH (pH)						7.86	7.69	7.96	7.79	7.88
TDS (mg/L)	52	58	55	57	52	56	59	63	59	64
TSS (mg/L)	<3	3.3	3.2	3.8	<3.0	3.6	<3	4.3	3.3	<3.0
Total Metals										
Antimony (Sb)-Total (mg/L)	<0.0001	0.0001	<0.0001	<0.0001	<0.00010	0.00011	<0.0001	0.00010	0.00011	<0.00010
Arsenic (As)-Total (	0.00027	0.00036	0.00028	0.00036	0.00118	0.00036	0.00028	0.00036	0.00031	0.00039
Barium (Ba)-Total	0.0158	0.0171	0.0162	0.017	0.0173	0.019	0.0174	0.0190	0.0183	0.017
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.048	0.042	0.042	0.045	0.047	0.051	0.048	0.049	0.05	0.043
Calcium (Ca)-Total (	12	12	11.1	12.3	11.7	13.1	12.5	13.3	13	12.5
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	2.27	2.19	2.02	2.19	2.15	2.31	2.25	2.37	2.38	2.2
Nickel (Ni)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	1.8	2.01	2.01	1.73	2.08	0.679	1.37	0.545	1.38	1.26
Silver (Ag)-Total (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	2.31	2.33	2.24	2.45	2.32	2.5	2.37	2.54	2.44	2.43
Strontium (Sr)-Total (mg/L)	0.103	0.106	0.106	0.0981	0.112	0.125	0.113	0.149	0.12	0.119
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010	<0.010	<0.010

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 bottom

	23-May-07	23-Oct-07	21-May-08	27-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11	15-May-12	31-Oct-12
Total Aluminum (mg/L)	0.0143	0.0159	0.0424	0.0214	0.0332	0.0382	0.0333	0.0280	0.0401	0.0203
Total Cadmium (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.00222	0.00211	0.00256	0.00248	0.00406	0.00273	0.00231	0.00245	0.00245	0.00243
Total Iron (mg/L)	0.053	0.109	0.073	0.083	0.091	0.117	0.078	0.092	0.144	0.095
Total Lead	<0.00005	<0.00005	<0.00005	<0.00005	0.000056	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.0231	0.0672	0.0262	0.0333	0.0461	0.0421	0.0348	0.0590	0.0635	0.0357
Total Molybdenum (mg/L)	0.000885	0.00101	0.000866	0.00105	0.000965	0.00124	0.00101	0.00115	0.000987	0.00109
Total Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Uranium (U)-Total (mg/L)	0.000035	0.000038	0.000039	0.00004	0.000036	0.000048	0.000037	0.000042	0.000042	0.000039
Vanadium (V)-Total (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	<0.001	0.0013	0.0017	0.0022	0.0023	<0.003	<0.003	<0.0030	<0.0030	<0.0030

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E215897 : Bootjack Lake South Station B2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	11	4	0.00500	0.01270	0.00691	0.01180	0.00288
Chloride (mg/L)	7	7	0.98000	1.69000	1.28286	1.41800	0.25766
Diss-Orthophosphate (mg/L)	11	5	0.00050	0.00280	0.00097	0.00205	0.00070
Diss-Phosphorus (mg/L)	12	12	0.00310	0.00670	0.00435	0.00582	0.00098
Nitrate (mg/L)	11	4	0.00250	0.01920	0.00686	0.01920	0.00675
Nitrate and Nitrite (mg/L)	7	3	0.00255	0.01920	0.00844	0.01920	0.00790
Nitrite (mg/L)	11	0	0.00050	0.00050	0.00050	0.00050	0.00000
Sulphate (mg/L)	11	11	2.83000	4.31000	3.36545	4.04500	0.45403
Total Nitrogen (mg/L)	11	11	0.16000	0.40000	0.24909	0.37500	0.08154
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	10	7	0.00150	0.01560	0.00558	0.00967	0.00491
Diss-Antimony (Sb) (mg/L)	10	1	0.00005	0.00011	0.00006	0.00005	0.00002
Diss-Arsenic (As) (mg/L)	10	10	0.00024	0.00086	0.00041	0.00073	0.00024
Diss-Barium (Ba) (mg/L)	10	10	0.01520	0.01780	0.01652	0.01727	0.00085
Diss-Beryllium (Be) (mg/L)	10	0	0.00005	0.00025	0.00021	0.00025	0.00008
Diss-Bismuth (Bi) (mg/L)	10	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Boron (B) (mg/L)	10	10	0.04200	0.05000	0.04560	0.04810	0.00250
Diss-Cadmium (Cd) (mg/L)	10	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Calcium (Ca) (mg/L)	10	10	11.10000	13.30000	12.31000	13.21000	0.64541
Diss-Chromium (Cr) (mg/L)	10	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Cobalt (Co) (mg/L)	10	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Copper (Cu) (mg/L)	10	10	0.00172	0.00214	0.00197	0.00211	0.00014
Diss-Iron (Fe) (mg/L)	10	1	0.01500	0.03400	0.01690	0.01500	0.00601
Diss-Lead (Pb) (mg/L)	10	0	0.00003	0.00003	0.00003	0.00003	0.00000
Diss-Lithium (Li) (mg/L)	10	1	0.00025	0.00250	0.00208	0.00250	0.00088
Diss-Magnesium (Mg) (mg/L)	10	10	2.09000	2.35000	2.23300	2.34100	0.08301
Diss-Manganese (Mn) (mg/L)	10	10	0.00023	0.03790	0.01253	0.03372	0.01323
Diss-Molybdenum (Mo) (mg/L)	10	10	0.00080	0.00120	0.00101	0.00119	0.00013
Diss-Nickel (Ni) (mg/L)	10	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Selenium (mg/L)	10	0	0.00025	0.00050	0.00043	0.00050	0.00012
Diss-Silicon (Si) (mg/L)	10	10	0.40900	2.02000	1.46660	2.02000	0.61350
Diss-Silver (Ag) (mg/L)	10	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	10	10	2.20000	2.58000	2.37200	2.53950	0.12007

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	10	10	0.09630	0.14200	0.11330	0.13570	0.01390
Diss-Thallium (Tl) (mg/L)	10	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	10	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Titanium (Ti) (mg/L)	10	0	0.00500	0.00500	0.00500	0.00500	0.00000
Diss-Uranium (U) (mg/L)	10	10	0.00003	0.00004	0.00003	0.00004	0.00000
Diss-Vanadium (V) (mg/L)	10	0	0.00050	0.00050	0.00050	0.00050	0.00000
Diss-Zinc (Zn) (mg/L)	10	3	0.00050	0.00200	0.00131	0.00150	0.00041
TDS (mg/L)	11	11	52.00000	64.00000	57.00000	63.50000	4.17133
Physical Test							
Alkalinity (CaCO3) ()	11	11	37.60000	44.70000	40.17273	43.40000	2.13780
Conductivity (µs/cm)	5	5	84.40000	92.20000	88.08000	91.62000	2.96597
Hardness (mg/L)	11	11	36.30000	42.90000	40.12727	42.60000	1.97843
NTU (ntu)	11	11	0.81000	2.18000	1.32727	1.63500	0.41275
pH (pH)	5	5	7.69000	7.96000	7.83600	7.87600	0.10164
TDS (mg/L)	11	11	52.00000	64.00000	57.00000	63.50000	4.17133
TSS (mg/L)	11	6	1.50000	4.30000	2.63636	3.70000	1.12718
Total Metals							
Antimony (Sb)-Total (mg/L)	11	4	0.00005	0.00011	0.00007	0.00011	0.00003
Arsenic (As)-Total ()	11	11	0.00027	0.00118	0.00048	0.00087	0.00035
Barium (Ba)-Total	11	11	0.01580	0.01900	0.01740	0.01865	0.00102
Beryllium (Be)-Total (mg/L)	11	0	0.00005	0.00025	0.00020	0.00025	0.00009
Bismuth (Bi)-Total (mg/L)	11	0	0.00025	0.00025	0.00025	0.00025	0.00000
Boron (B)-Total (mg/L)	11	11	0.04200	0.05100	0.04655	0.04950	0.00314
Calcium (Ca)-Total ()	11	11	11.10000	13.30000	12.29091	13.20000	0.67447
Chromium (Cr)-Total (mg/L)	11	0	0.00025	0.00025	0.00025	0.00025	0.00000
Cobalt (Co)-Total (m	11	0	0.00010	0.00010	0.00010	0.00010	0.00000
Lithium (Li)-Total (mg/L)	11	0	0.00025	0.00250	0.00189	0.00250	0.00105
Magnesium (Mg)-Total (mg/L)	11	11	2.02000	2.38000	2.22545	2.37500	0.10549
Nickel (Ni)-Total (mg/L)	11	0	0.00025	0.00025	0.00025	0.00025	0.00000
Silicon (Si)-Total (mg/L)	11	11	0.54500	2.08000	1.54036	2.08000	0.54708
Silver (Ag)-Total (mg/L)	11	0	0.00001	0.00001	0.00001	0.00001	0.00000
Sodium (Na)-Total (mg/L)	11	11	2.24000	2.54000	2.38636	2.52000	0.09212
Strontium (Sr)-Total (mg/L)	11	11	0.09810	0.14900	0.11483	0.13700	0.01382
Thallium (Tl)-Total (mg/L)	11	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	11	0	0.00005	0.00005	0.00005	0.00005	0.00000

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	11	0	0.00500	0.00500	0.00500	0.00500	0.00000
Total Aluminum (mg/L)	11	11	0.01430	0.04240	0.02912	0.03915	0.00981
Total Cadmium (mg/L)	11	0	0.00001	0.00002	0.00001	0.00002	0.00000
Total Copper (mg/L)	11	11	0.00211	0.00406	0.00271	0.00340	0.00069
Total Iron (mg/L)	11	11	0.05300	0.14400	0.09327	0.11300	0.02402
Total Lead	11	2	0.00005	0.00006	0.00005	0.00005	0.00000
Total Manganese (mg/L)	11	11	0.02310	0.06720	0.04337	0.06535	0.01474
Total Molybdenum (mg/L)	11	11	0.00087	0.00124	0.00102	0.00120	0.00011
Total Selenium (mg/L)	11	0	0.00025	0.00050	0.00041	0.00050	0.00013
Uranium (U)-Total (mg/L)	11	11	0.00004	0.00005	0.00004	0.00005	0.00000
Vanadium (V)-Total (mg/L)	11	0	0.00050	0.00050	0.00050	0.00050	0.00000
Zinc (Zn)-Total (mg/L)	11	5	0.00050	0.00230	0.00162	0.00225	0.00052

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 surface

	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	15-May-12	31-Oct-12
Anions and Nutrients												
Ammonia (as N) (mg/L)	0.012	0.0206	<0.005	0.0093	<0.005	<0.005	<0.005	<0.005	0.0084	<0.0050	<0.0050	0.0091
Chloride (mg/L)						1.14	0.98	1.25	1.3	1.43	1.46	1.69
Diss-Orthophosphate (mg/L)	<0.001	<0.001	0.0027	<0.001	0.0012	<0.001	<0.001	0.0012	<0.001	<0.0010	<0.0010	0.0012
Diss-Phosphorus (mg/L)	0.0054	0.0032	0.0066	0.0043	0.0046	0.0033	<0.002	0.0042	0.0027	0.0032	0.0043	0.0041
Nitrate (mg/L)	0.0936	<0.005	<0.005	<0.005	<0.005	0.0139	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)								<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	0.0031	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	0.0011
Sulphate (mg/L)	4.41	3.07	3.27	2.82	2.98	3.93	3.13	3.65	3.5	3.77	3.88	4.31
Total Nitrogen (mg/L)	0.51	0.37	0.4	0.17	0.16	0.24	0.17	0.18	0.22	0.160	0.25	0.33
Dissolved Metals												
Diss-Aluminum (Al) (mg/L)	0.0028	0.006	<0.001	0.0174	<0.001	0.005	0.003	<0.003	0.0152	<0.0030		<0.0030
Diss-Antimony (Sb) (mg/L)	0.00015	<0.0001	0.00011	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Arsenic (As) (mg/L)	0.00045	0.00026	0.00031	0.00027	0.00035	0.00035	0.0003	0.00032	0.00026	0.00033		0.00034
Diss-Barium (Ba) (mg/L)	0.0221	0.0152	0.0162	0.0152	0.0161	0.0206	0.0155	0.018	0.016	0.0180		0.0173
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00010		<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Boron (B) (mg/L)	0.065	0.045	0.042	0.041	0.043	0.056	0.045	0.049	0.045	0.048		0.045
Diss-Cadmium (Cd) (mg/L)	0.000029	<0.000017	<0.000017	<0.000017	<0.000017	0.000032	<0.000017	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Calcium (Ca) (mg/L)	16.9	12.3	11.9	10.9	12.3	15.2	11.9	13.1	12	13.0		13.3
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Copper (Cu) (mg/L)	0.00294	0.00215	0.00177	0.00221	0.00198	0.00269	0.00226	0.00305	0.00212	0.00185		0.00175
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030		<0.030
Diss-Lead (Pb) (mg/L)	0.000061	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050		<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00050		<0.00050
Diss-Magnesium (Mg) (mg/L)	3.17	2.33	2.25	2	2.17	2.69	2.28	2.29	2.21	2.32		2.41
Diss-Manganese (Mn) (mg/L)	0.00202	0.00672	0.0186	0.00312	0.000206	0.000682	0.000273	0.000232	0.00112	0.0290		0.000745
Diss-Molybdenum (Mo) (mg/L)	0.00138	0.000854	0.00103	0.000852	0.00101	0.00123	0.000981	0.00116	0.00095	0.00110		0.00112
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050		<0.00050
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050		<0.00050
Diss-Silicon (Si) (mg/L)	1.84	1.82	1.85	1.9	1.64	1.66	1.5	0.395	1.19	0.423		1.25
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010		<0.000010
Diss-Sodium (Na) (mg/L)	3.19	2.26	2.22	2.18	2.38	2.9	2.23	2.64	2.34	2.49		2.45
Diss-Strontium (Sr) (mg/L)	0.146	0.1	0.109	0.104	0.0987	0.121	0.114	0.118	0.108	0.141		0.122

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IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 surface

	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	15-May-12	31-Oct-12
Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010		<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010		<0.010
Diss-Uranium (U) (mg/L)	0.000045	0.00003	0.000034	0.000034	0.000037	0.000045	0.000038	0.000041	0.000037	0.000037		0.000035
Diss-Vanadium (V) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010		<0.0010
Diss-Zinc (Zn) (mg/L)	0.0075	<0.001	<0.001	<0.001	<0.001	0.0261	<0.001	<0.003	<0.003	<0.0030		<0.0030
TDS (mg/L)	76	47	57	47	3.8	70	55	52	53	54	43	61
Physical Test												
Alkalinity (CaCO3) (	52.8	37.8	39.8	37.6	41.2	48.6	42.1	40.8	37.3	41.2	40.9	44.5
Conductivity (µs/cm)								89.9	82.4	86.9	86.4	91.6
Hardness (mg/L)	55.2	40.2	38.9	35.5	39.8	48.9	39.2	42.1	39	42.1	43.1	43.2
NTU (ntu)	0.53	0.84	2.24	0.75	1.34	0.99	0.55	1.41	0.94	1.85	1.8	1.64
pH (pH)								7.79	7.76	7.94	7.82	7.89
TDS (mg/L)	76	47	57	47	3.8	70	55	52	53	54	43	61
TSS (mg/L)	<3	<3	3.8	<3	55	<3	4.5	<3	<3	3.7	<3.0	6.7
Total Metals												
Antimony (Sb)-Total (mg/L)	0.00015	<0.0001	0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.0001	<0.0001	0.00011	0.00011	0.00011
Arsenic (As)-Total (	0.00045	0.00028	0.00036	0.00026	0.00036	0.00038	0.00031	0.00036	0.00028	0.00035	0.00031	0.0004
Barium (Ba)-Total	0.0218	0.0157	0.0176	0.0156	0.0166	0.023	0.0153	0.0184	0.0169	0.0186	0.0175	0.0176
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00051	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.065	0.047	0.043	0.042	0.044	0.058	0.041	0.048	0.045	0.048	0.05	0.043
Calcium (Ca)-Total (	17.3	12.3	11.9	11	11.9	14.7	12.5	12.6	12.2	13.1	13.2	13
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	2.99	2.33	2.09	2.04	2.12	2.64	2.3	2.23	2.22	2.35	2.43	2.37
Nickel (Ni)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00103	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	1.92	1.86	1.96	1.96	1.68	1.68	1.57	0.472	1.26	0.551	1.2	1.34
Silver (Ag)-Total (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	3.16	2.28	2.37	2.2	2.46	3.05	2.19	2.58	2.35	2.53	2.51	2.4
Strontium (Sr)-Total (mg/L)	0.142	0.101	0.103	0.105	0.0979	0.133	0.108	0.116	0.111	0.146	0.121	0.123
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010

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Total Aluminum (mg/L)	0.0053	0.0149	0.0172	0.0317	0.0211	0.0413	0.0078	0.0256	0.0406	0.0253	0.0283	0.0217
Total Cadmium (mg/L)	0.000021	<0.000017	<0.000017	<0.000017	<0.000017	0.000025	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.00289	0.00224	0.00217	0.00239	0.00244	0.0103	0.00242	0.00268	0.0025	0.00245	0.00241	0.00253
Total Iron (mg/L)	<0.03	0.054	0.102	0.048	0.089	0.085	<0.03	0.085	0.058	0.083	0.087	0.09
Total Lead	0.000102	<0.00005	<0.00005	<0.00005	<0.00005	0.000076	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.00238	0.0207	0.0682	0.0168	0.0314	0.00338	0.00898	0.0242	0.0205	0.0566	0.0435	0.0327
Total Molybdenum (mg/L)	0.00134	0.000904	0.000978	0.000843	0.00104	0.00135	0.000955	0.00114	0.00101	0.00112	0.001	0.00111
Total Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Uranium (U)-Total (mg/L)	0.000043	0.000034	0.000042	0.000038	0.00004	0.000052	0.000036	0.000043	0.000039	0.000042	0.000043	0.000039
Vanadium (V)-Total (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	0.0058	<0.001	<0.001	<0.001	0.0011	0.0374	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	16	7	0.00500	0.02060	0.00828	0.02015	0.00515
Chloride (mg/L)	7	7	0.98000	1.69000	1.32143	1.62100	0.23162
Diss-Orthophosphate (mg/L)	16	6	0.00050	0.00600	0.00139	0.00525	0.00171
Diss-Phosphorus (mg/L)	17	15	0.00100	0.02100	0.00488	0.00822	0.00451
Nitrate (mg/L)	13	2	0.00250	0.09360	0.01038	0.04578	0.02520
Nitrate and Nitrite (mg/L)	7	0	0.00255	0.01000	0.00468	0.01000	0.00364
Nitrite (mg/L)	13	2	0.00050	0.00310	0.00075	0.00190	0.00073
Sulphate (mg/L)	16	16	2.20000	4.41000	3.31938	4.33500	0.63953
Total Nitrogen (mg/L)	16	14	0.06000	0.51000	0.24244	0.42750	0.12165
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	13	8	0.00050	0.01740	0.00464	0.01608	0.00546
Diss-Antimony (Sb) (mg/L)	13	5	0.00005	0.00015	0.00008	0.00013	0.00004
Diss-Arsenic (As) (mg/L)	13	13	0.00023	0.00045	0.00032	0.00039	0.00006
Diss-Barium (Ba) (mg/L)	13	13	0.01520	0.02210	0.01705	0.02120	0.00216
Diss-Beryllium (Be) (mg/L)	13	0	0.00005	0.00025	0.00022	0.00025	0.00008
Diss-Bismuth (Bi) (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Boron (B) (mg/L)	13	13	0.04100	0.06500	0.04715	0.05960	0.00656
Diss-Cadmium (Cd) (mg/L)	13	2	0.00001	0.00003	0.00001	0.00003	0.00001
Diss-Calcium (Ca) (mg/L)	13	13	10.90000	16.90000	12.96154	15.88000	1.58406
Diss-Chromium (Cr) (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Cobalt (Co) (mg/L)	13	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Copper (Cu) (mg/L)	13	13	0.00175	0.00315	0.00230	0.00309	0.00049
Diss-Iron (Fe) (mg/L)	13	0	0.01500	0.01500	0.01500	0.01500	0.00000
Diss-Lead (Pb) (mg/L)	13	2	0.00003	0.00013	0.00004	0.00009	0.00003
Diss-Lithium (Li) (mg/L)	13	1	0.00025	0.00250	0.00217	0.00250	0.00080
Diss-Magnesium (Mg) (mg/L)	13	13	2.00000	3.17000	2.37769	2.88200	0.29104
Diss-Manganese (Mn) (mg/L)	13	13	0.00021	0.02900	0.00499	0.02276	0.00879
Diss-Molybdenum (Mo) (mg/L)	13	13	0.00082	0.00138	0.00104	0.00129	0.00016
Diss-Nickel (Ni) (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Selenium (mg/L)	13	0	0.00025	0.00050	0.00044	0.00050	0.00011
Diss-Silicon (Si) (mg/L)	13	13	0.39500	1.90000	1.40677	1.87000	0.51107
Diss-Silver (Ag) (mg/L)	13	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	13	13	2.18000	3.19000	2.45615	3.01600	0.29579

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E215897 : Bootjack Lake South Station B2 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	13	13	0.09870	0.14600	0.11498	0.14300	0.01471
Diss-Thallium (Tl) (mg/L)	13	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	13	1	0.00005	0.00013	0.00006	0.00008	0.00002
Diss-Titanium (Ti) (mg/L)	13	0	0.00500	0.00500	0.00500	0.00500	0.00000
Diss-Uranium (U) (mg/L)	13	13	0.00003	0.00005	0.00004	0.00005	0.00000
Diss-Vanadium (V) (mg/L)	13	0	0.00050	0.00050	0.00050	0.00050	0.00000
Diss-Zinc (Zn) (mg/L)	13	3	0.00050	0.02610	0.00344	0.01494	0.00706
TDS (mg/L)	14	14	3.80000	76.00000	51.98571	72.10000	16.37831
Physical Test							
Alkalinity (CaCO3) ()	16	16	35.00000	52.80000	40.76250	49.65000	4.71011
Conductivity (µs/cm)	5	5	82.40000	91.60000	87.44000	91.26000	3.54020
Hardness (mg/L)	14	14	35.50000	55.20000	42.22857	51.10500	4.89967
NTU (ntu)	16	16	0.49000	2.62000	1.19938	2.33500	0.66840
pH (pH)	5	5	7.76000	7.94000	7.84000	7.93000	0.07382
TDS (mg/L)	14	14	3.80000	76.00000	51.98571	72.10000	16.37831
TSS (mg/L)	16	5	1.50000	55.00000	5.70000	18.77500	13.23299
Total Metals							
Antimony (Sb)-Total (mg/L)	14	8	0.00005	0.00019	0.00009	0.00016	0.00004
Arsenic (As)-Total ()	14	14	0.00024	0.00045	0.00034	0.00042	0.00006
Barium (Ba)-Total	14	14	0.01530	0.02300	0.01771	0.02222	0.00227
Beryllium (Be)-Total (mg/L)	14	0	0.00005	0.00025	0.00021	0.00025	0.00009
Bismuth (Bi)-Total (mg/L)	14	1	0.00025	0.00051	0.00027	0.00034	0.00007
Boron (B)-Total (mg/L)	14	14	0.04100	0.06500	0.04750	0.06045	0.00665
Calcium (Ca)-Total ()	14	14	11.00000	17.30000	12.92857	15.61000	1.51831
Chromium (Cr)-Total (mg/L)	14	0	0.00025	0.00025	0.00025	0.00025	0.00000
Cobalt (Co)-Total (m	14	0	0.00010	0.00010	0.00010	0.00010	0.00000
Lithium (Li)-Total (mg/L)	14	0	0.00025	0.00250	0.00202	0.00250	0.00096
Magnesium (Mg)-Total (mg/L)	14	14	2.04000	2.99000	2.34143	2.76250	0.24261
Nickel (Ni)-Total (mg/L)	14	1	0.00025	0.00103	0.00031	0.00052	0.00021
Silicon (Si)-Total (mg/L)	14	14	0.47200	1.96000	1.44950	1.96000	0.48137
Silver (Ag)-Total (mg/L)	14	1	0.00001	0.00002	0.00001	0.00001	0.00000
Sodium (Na)-Total (mg/L)	14	14	2.19000	3.16000	2.49071	3.08850	0.28934
Strontium (Sr)-Total (mg/L)	14	14	0.09790	0.14600	0.11592	0.14340	0.01531
Thallium (Tl)-Total (mg/L)	14	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	14	0	0.00005	0.00005	0.00005	0.00005	0.00000

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IMPERIAL METALS CORPORATION

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	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	14	0	0.00500	0.00500	0.00500	0.00500	0.00000
Total Aluminum (mg/L)	14	14	0.00530	0.04130	0.02261	0.04085	0.01129
Total Cadmium (mg/L)	14	2	0.00001	0.00005	0.00002	0.00005	0.00001
Total Copper (mg/L)	14	14	0.00217	0.01030	0.00313	0.00637	0.00213
Total Iron (mg/L)	14	11	0.03000	0.10200	0.06821	0.09420	0.02561
Total Lead	14	3	0.00005	0.00010	0.00006	0.00009	0.00001
Total Manganese (mg/L)	14	14	0.00238	0.06820	0.02656	0.06066	0.01934
Total Molybdenum (mg/L)	14	14	0.00083	0.00135	0.00105	0.00134	0.00016
Total Selenium (mg/L)	14	0	0.00025	0.00050	0.00043	0.00050	0.00012
Uranium (U)-Total (mg/L)	14	14	0.00003	0.00005	0.00004	0.00005	0.00000
Vanadium (V)-Total (mg/L)	14	0	0.00050	0.00050	0.00050	0.00050	0.00000
Zinc (Zn)-Total (mg/L)	14	5	0.00050	0.03740	0.00433	0.01686	0.00964

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Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 bottom

	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	1-Nov-11	8-May-12	1-Nov-12
Anions and Nutrients												
Ammonia (as N) (mg/L)	0.0277	<0.005	<0.005	0.0383	<0.005	<0.0050	0.0051	0.0068	<0.005	0.0119	0.011	0.0132
Chloride (mg/L)						<0.50	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Diss-Orthophosphate (mg/L)	0.0069	0.0286	0.0583	0.0234	0.0522	0.0056	0.0475	0.0316	0.0313	0.0399	0.0179	0.216
Diss-Phosphorus (mg/L)	0.0101	0.0312	0.0569	0.0253	0.0564	0.0119	0.0472	0.0347	0.0357	0.0431	0.0252	0.213
Nitrate (mg/L)	0.0416	0.124	0.18	0.259	0.213	<0.0050	0.0481	0.0534	0.0838	0.155	0.0544	0.311
Nitrate and Nitrite (mg/L)						<0.0050	0.0481	0.0534	0.0838	0.157	0.0544	0.313
Nitrite (mg/L)	0.0018	<0.001	<0.001	0.0065	<0.001	<0.0010	<0.001	<0.001	<0.001	0.0025	<0.0010	0.0019
Sulphate (mg/L)	14.9	14.9	13.8	27.3	22.8	28.3	28.1	31.7	30.5	28.7	28.2	26.9
Total Nitrogen (mg/L)	0.36	0.45	0.52	0.44	0.79	0.24	0.23	0.28	0.36	0.330	0.31	0.58
Dissolved Metals												
Diss-Aluminum (Al) (mg/L)	0.0017	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Arsenic (As) (mg/L)	0.00034	0.00037	0.00046	0.0004	0.00043	0.00057	0.00041	0.00041	0.0004	0.00052	0.00053	0.00075
Diss-Barium (Ba) (mg/L)	0.00755	0.00678	0.00437	0.00583	0.00521	0.00678	0.00671	0.00731	0.008	0.00619	0.00689	0.00378
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Boron (B) (mg/L)	0.015	0.013	0.013	0.021	0.019	0.022	0.025	0.023	0.024	0.024	0.023	0.02
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	26.2	25.3	26.1	31.9	32.3	33.5	38.5	35.8	32.9	33.1	33.2	34.7
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00195	0.00172	0.00145	0.00153	0.00143	0.00152	0.00126	0.00129	0.0013	0.00104	0.00101	0.0008
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030	<0.03	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Magnesium (Mg) (mg/L)	4.2	3.92	3.93	4.74	4.42	4.8	4.99	5.06	4.91	4.82	4.89	4.93
Diss-Manganese (Mn) (mg/L)	0.0969	0.000376	<0.0002	0.000174	0.000223	0.0101	0.000128	0.000222	0.00027	0.000156	0.0116	0.000185
Diss-Molybdenum (Mo) (mg/L)	0.000789	0.000756	0.000698	0.00223	0.00173	0.00206	0.002	0.00211	0.0021	0.00211	0.00215	0.00202
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Selenium (mg/L)	0.0011	<0.001	<0.001	0.0012	<0.001	<0.0010	<0.001	0.00085	0.00079	0.00075	0.00069	0.00059
Diss-Silicon (Si) (mg/L)	3.67	3.93	5.09	4.58	4.68	3.62	3.69	3.87	4.02	3.91	3.86	4.72
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Sodium (Na) (mg/L)	3.75	3.91	3.99	4.22	4.24	4.23	4.3	4.33	4.51	4.31	4.08	4.29
Diss-Strontium (Sr) (mg/L)	0.118	0.12	0.116	0.253	0.181	0.229	0.244	0.231	0.251	0.232	0.219	0.242

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E207974 : Polley Lake North Station P1 bottom

	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	1-Nov-11	8-May-12	1-Nov-12
Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010
Diss-Uranium (U) (mg/L)	0.000059	0.000056	0.000054	0.00008	0.000072	0.000077	0.000082	0.000081	0.000082	0.000087	0.00009	0.000083
Diss-Vanadium (V) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Diss-Zinc (Zn) (mg/L)	0.0015	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030
TDS (mg/L)	98	116	117	129	136	134	133	141	133	135	133	136
Physical Test												
Alkalinity (CaCO3) (	72.3	73.6	74.2	80.7	76.4	78.1	78.6	78.4	78.7	79.2	80.9	82
Conductivity (µs/cm)							205	212	210	207	201	201
Hardness (mg/L)	82.8	79.2	81.3	99.1	98.8	103	117	110	102	102	103	107
NTU (ntu)	1.64	1.16	2.34	3.89	1.77	1.1	1.06	0.67	0.6	1.75	1.1	2.68
pH (pH)							7.88	8	7.58	8.05	7.68	7.78
TDS (mg/L)	98	116	117	129	136	134	133	141	133	135	133	136
TSS (mg/L)	3	3.3	<3	3.2	<3	<3.0	<3	<3	<3	<3.0	<3.0	<3.0
Total Metals												
Antimony (Sb)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total (	0.00035	0.00036	0.00046	0.00037	0.00042	0.0005	0.00045	0.00041	0.00044	0.00052	0.00055	0.00078
Barium (Ba)-Total	0.00804	0.00728	0.00552	0.00794	0.00622	0.00695	0.00741	0.00772	0.00866	0.00675	0.00711	0.00469
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0001	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.015	0.014	0.013	0.02	0.019	0.023	0.027	0.025	0.03	0.025	0.024	0.02
Calcium (Ca)-Total (	25.7	24.9	25.6	31.6	31.5	31.6	39.5	36.3	34.5	33.9	34.9	33.6
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.0005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	4.1	3.86	3.82	4.69	4.28	4.55	5.13	5.16	5.22	4.92	5.13	4.78
Nickel (Ni)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	3.6	3.92	4.95	4.57	4.58	3.5	3.79	4.02	4.28	4.01	4.1	4.54
Silver (Ag)-Total (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	3.78	3.9	3.87	4.03	4.23	4.19	4.4	4.39	4.83	4.39	4.2	4.22
Strontium (Sr)-Total (mg/L)	0.121	0.122	0.114	0.234	0.179	0.225	0.253	0.237	0.264	0.230	0.227	0.237
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 bottom

	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	1-Nov-11	8-May-12	1-Nov-12
Total Aluminum (mg/L)	0.0293	0.0065	0.0052	0.021	<0.009	0.0115	0.0135	0.0163	0.0084	0.0150	0.0167	0.0107
Total Cadmium (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	0.000021	<0.000017	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.00218	0.00198	0.00168	0.00278	0.00173	0.0021	0.00158	0.0016	0.00167	0.00134	0.00142	0.0015
Total Iron (mg/L)	0.065	<0.03	0.037	0.063	0.035	<0.030	<0.03	<0.03	<0.03	<0.030	<0.030	0.035
Total Lead	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.122	0.0462	0.165	0.282	0.129	0.0464	0.0538	0.0319	0.0215	0.0458	0.04	0.206
Total Molybdenum (mg/L)	0.00082	0.000743	0.000666	0.00222	0.00159	0.00209	0.00194	0.00216	0.00224	0.00213	0.00222	0.00207
Total Selenium (mg/L)	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.00076	0.00083	0.00073	0.00083	0.0006
Uranium (U)-Total (mg/L)	0.000061	0.000057	0.000057	0.000081	0.000072	0.000082	0.000082	0.00008	0.000085	0.000088	0.000088	0.000087
Vanadium (V)-Total (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	<0.001	<0.001	<0.001	<0.002	0.002	<0.0010	<0.003	<0.003	<0.003	<0.0030	<0.0030	0.0038

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	13	7	0.00500	0.03830	0.01108	0.03194	0.01040
Chloride (mg/L)	8	0	0.25000	0.25000	0.25000	0.25000	0.00000
Diss-Orthophosphate (mg/L)	13	13	0.00560	0.21600	0.04345	0.12138	0.05467
Diss-Phosphorus (mg/L)	13	13	0.01010	0.21300	0.04635	0.11934	0.05248
Nitrate (mg/L)	13	11	0.00250	0.31100	0.11756	0.27980	0.09924
Nitrate and Nitrite (mg/L)	8	6	0.00250	0.31300	0.08934	0.25840	0.10277
Nitrite (mg/L)	13	4	0.00050	0.00650	0.00132	0.00410	0.00170
Sulphate (mg/L)	13	13	13.80000	31.70000	24.95385	30.98000	6.28246
Total Nitrogen (mg/L)	13	13	0.23000	0.79000	0.39462	0.66400	0.16159
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	13	1	0.00050	0.00170	0.00105	0.00158	0.00054
Diss-Antimony (Sb) (mg/L)	13	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Arsenic (As) (mg/L)	13	13	0.00034	0.00075	0.00047	0.00064	0.00011
Diss-Barium (Ba) (mg/L)	13	13	0.00378	0.00800	0.00632	0.00773	0.00123
Diss-Beryllium (Be) (mg/L)	13	0	0.00005	0.00025	0.00019	0.00025	0.00010
Diss-Bismuth (Bi) (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Boron (B) (mg/L)	13	13	0.01300	0.02500	0.02031	0.02440	0.00415
Diss-Cadmium (Cd) (mg/L)	13	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Calcium (Ca) (mg/L)	13	13	25.30000	38.50000	32.07692	36.88000	3.92962
Diss-Chromium (Cr) (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Cobalt (Co) (mg/L)	13	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Copper (Cu) (mg/L)	13	13	0.00080	0.00195	0.00137	0.00181	0.00031
Diss-Iron (Fe) (mg/L)	13	0	0.01500	0.01500	0.01500	0.01500	0.00000
Diss-Lead (Pb) (mg/L)	13	0	0.00003	0.00003	0.00003	0.00003	0.00000
Diss-Lithium (Li) (mg/L)	13	0	0.00025	0.00250	0.00181	0.00250	0.00108
Diss-Magnesium (Mg) (mg/L)	13	13	3.92000	5.06000	4.64692	5.01800	0.39538
Diss-Manganese (Mn) (mg/L)	13	12	0.00010	0.09690	0.01004	0.04572	0.02649
Diss-Molybdenum (Mo) (mg/L)	13	13	0.00070	0.00223	0.00175	0.00218	0.00059
Diss-Nickel (Ni) (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Selenium (mg/L)	13	7	0.00050	0.00120	0.00069	0.00114	0.00024
Diss-Silicon (Si) (mg/L)	13	13	3.62000	5.09000	4.09692	4.86800	0.49387
Diss-Silver (Ag) (mg/L)	13	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	13	13	3.75000	4.51000	4.18385	4.40200	0.20181

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	13	13	0.11600	0.25300	0.20500	0.25180	0.05272
Diss-Thallium (Tl) (mg/L)	13	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	13	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Titanium (Ti) (mg/L)	13	0	0.00500	0.00500	0.00500	0.00500	0.00000
Diss-Uranium (U) (mg/L)	13	13	0.00005	0.00009	0.00008	0.00009	0.00001
Diss-Vanadium (V) (mg/L)	13	0	0.00050	0.00050	0.00050	0.00050	0.00000
Diss-Zinc (Zn) (mg/L)	13	1	0.00050	0.00150	0.00104	0.00150	0.00052
TDS (mg/L)	13	13	98.00000	141.00000	128.84615	138.00000	11.72495
Physical Test							
Alkalinity (CaCO3) ()	13	13	72.30000	82.00000	77.78462	81.34000	2.92143
Conductivity (µs/cm)	6	6	201.00000	212.00000	206.00000	211.50000	4.56070
Hardness (mg/L)	13	13	79.20000	117.00000	99.09231	112.80000	11.33839
NTU (ntu)	13	13	0.60000	3.89000	1.60462	3.16400	0.91792
pH (pH)	6	6	7.58000	8.05000	7.82833	8.03750	0.18291
TDS (mg/L)	13	13	98.00000	141.00000	128.84615	138.00000	11.72495
TSS (mg/L)	13	3	1.50000	3.30000	1.88462	3.24000	0.73354
Total Metals							
Antimony (Sb)-Total (mg/L)	13	0	0.00005	0.00005	0.00005	0.00005	0.00000
Arsenic (As)-Total ()	13	13	0.00035	0.00078	0.00047	0.00064	0.00011
Barium (Ba)-Total	13	13	0.00469	0.00866	0.00702	0.00829	0.00107
Beryllium (Be)-Total (mg/L)	13	0	0.00005	0.00025	0.00019	0.00025	0.00010
Bismuth (Bi)-Total (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Boron (B)-Total (mg/L)	13	13	0.01300	0.03000	0.02138	0.02820	0.00516
Calcium (Ca)-Total ()	13	13	24.90000	39.50000	31.93846	37.58000	4.35231
Chromium (Cr)-Total (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Cobalt (Co)-Total (m	13	0	0.00010	0.00010	0.00010	0.00010	0.00000
Lithium (Li)-Total (mg/L)	13	0	0.00025	0.00250	0.00181	0.00250	0.00108
Magnesium (Mg)-Total (mg/L)	13	13	3.82000	5.22000	4.63000	5.18400	0.49197
Nickel (Ni)-Total (mg/L)	13	0	0.00025	0.00025	0.00025	0.00025	0.00000
Silicon (Si)-Total (mg/L)	13	13	3.50000	4.95000	4.10462	4.72800	0.45758
Silver (Ag)-Total (mg/L)	13	0	0.00001	0.00001	0.00001	0.00001	0.00000
Sodium (Na)-Total (mg/L)	13	13	3.78000	4.83000	4.20154	4.57200	0.27610
Strontium (Sr)-Total (mg/L)	13	13	0.11400	0.26400	0.20523	0.25740	0.05282
Thallium (Tl)-Total (mg/L)	13	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	13	0	0.00005	0.00005	0.00005	0.00005	0.00000

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	13	0	0.00500	0.00500	0.00500	0.00500	0.00000
Total Aluminum (mg/L)	13	12	0.00450	0.02930	0.01308	0.02432	0.00686
Total Cadmium (mg/L)	13	1	0.00001	0.00002	0.00001	0.00002	0.00000
Total Copper (mg/L)	13	13	0.00134	0.00278	0.00182	0.00242	0.00040
Total Iron (mg/L)	13	5	0.03000	0.06500	0.03654	0.06380	0.01244
Total Lead	13	0	0.00005	0.00005	0.00005	0.00005	0.00000
Total Manganese (mg/L)	13	13	0.02150	0.28200	0.09508	0.23640	0.08047
Total Molybdenum (mg/L)	13	13	0.00067	0.00224	0.00177	0.00223	0.00061
Total Selenium (mg/L)	13	7	0.00050	0.00100	0.00067	0.00100	0.00020
Uranium (U)-Total (mg/L)	13	13	0.00006	0.00009	0.00008	0.00009	0.00001
Vanadium (V)-Total (mg/L)	13	0	0.00050	0.00050	0.00050	0.00050	0.00000
Zinc (Zn)-Total (mg/L)	13	2	0.00050	0.00380	0.00129	0.00272	0.00092

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 surface

	6-Mar-07	24-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	13-Mar-09	26-Aug-09	26-Apr-10	15-Nov-10	25-May-11	19-Jul-11	1-Nov-11	8-May-12	1-Nov-12
Anions and Nutrients															
Ammonia (as N) (mg/L)	0.0148	0.0056	0.0144	<0.005	0.0256	<0.005	<0.005	0.0057	<0.0050	0.0051	<0.005	<0.005	0.0113	0.0054	<0.0050
Chloride (mg/L)							<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Diss-Orthophosphate (mg/L)	0.0123	<0.001	<0.001	<0.001	0.0011	0.0063	0.0193	<0.001	0.0036	0.0371	0.0143	<0.001	0.0394	0.0131	0.0848
Diss-Phosphorus (mg/L)	0.0156	0.0038	0.0042	0.0038	0.005	0.0115	0.0219	<0.002	0.0092	0.0369	0.0168	0.0038	0.0436	0.02	0.0895
Nitrate (mg/L)	0.0927	<0.005	<0.005	<0.005	0.0402	0.0486	0.14	<0.005	<0.0050	0.0425	<0.005	<0.005	0.153	0.0236	0.144
Nitrate and Nitrite (mg/L)									<0.0050	0.0436	<0.0051	<0.0051	0.155	0.0236	0.145
Nitrite (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.0010	0.0011	<0.001	<0.001	0.0019	<0.0010	0.0011
Sulphate (mg/L)	12.1	15	18	18.2	21.4	25	27.2	29.3	28.2	29.1	28.5	28.5	28.7	28	28.9
Total Nitrogen (mg/L)	0.33	0.3	0.35	0.37	0.2	0.19	0.33	0.18	0.17	0.21	0.22	0.33	0.550	0.4	0.45
Dissolved Metals															
Diss-Aluminum (Al) (mg/L)	0.0045	0.0019	0.0021	<0.001	0.0011	<0.001	0.0013	0.0024		<0.003	0.0035	0.0031	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Arsenic (As) (mg/L)	0.00036	0.00034	0.00035	0.00036	0.00035	0.00038	0.00042	0.00039		0.00045	0.00038	0.00039	0.00053	0.00048	0.00062
Diss-Barium (Ba) (mg/L)	0.00645	0.00596	0.00631	0.00647	0.00654	0.0069	0.00729	0.00706		0.00695	0.00649	0.00664	0.00601	0.00665	0.0061
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Boron (B) (mg/L)	0.013	0.015	0.015	0.015	0.016	0.02	0.021	0.021		0.023	0.022	0.024	0.023	0.023	0.022
Diss-Cadmium (Cd) (mg/L)	0.000019	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017		<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	23.7	26.2	26.6	28.3	29	33	35.3	32.7		33.5	33.1	30.4	33.2	33.2	34.9
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.0101	0.00195	0.00252	0.0018	0.00171	0.00165	0.00225	0.00204		0.00136	0.00148	0.00148	0.00113	0.00105	0.00097
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		<0.03	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.000064	<0.00005	<0.00005	<0.00005	0.000148	<0.00005	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.0005	<0.00050	0.00052	<0.00050
Diss-Magnesium (Mg) (mg/L)	3.78	4.22	4.18	4.11	4.28	4.51	4.87	4.85		4.94	4.7	4.65	4.81	4.85	4.91
Diss-Manganese (Mn) (mg/L)	0.00365	0.0221	0.000446	0.000112	0.000898	0.000509	0.000312	0.000122		0.000205	0.000457	0.000835	0.000231	0.000504	0.000172
Diss-Molybdenum (Mo) (mg/L)	0.000723	0.000845	0.000894	0.00102	0.00151	0.00202	0.00205	0.00228		0.00199	0.00195	0.00212	0.00196	0.00212	0.00222
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Selenium (mg/L)	<0.001	0.0011	0.0011	0.001	<0.001	0.0012	0.0013	0.0011		<0.001	0.00077	0.00082	0.00073	0.0007	0.00064
Diss-Silicon (Si) (mg/L)	3.26	3.48	2.91	3.45	3.63	3.7	4.28	3.41		3.6	3.58	3.25	3.88	3.79	3.89
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Sodium (Na) (mg/L)	3.68	3.75	4.08	4.45	3.8	4.42	4.46	4.33		4.5	4.22	4.36	4.39	4.08	4.3
Diss-Strontium (Sr) (mg/L)	0.114	0.12	0.131	0.141	0.175	0.193	0.206	0.237		0.236	0.211	0.233	0.218	0.218	0.242

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 surface

	6-Mar-07	24-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	13-Mar-09	26-Aug-09	26-Apr-10	15-Nov-10	25-May-11	19-Jul-11	1-Nov-11	8-May-12	1-Nov-12
Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.010	<0.010	<0.010
Diss-Uranium (U) (mg/L)	0.000057	0.000056	0.000062	0.000068	0.000072	0.000083	0.000083	0.00009		0.000078	0.000072	0.000082	0.000080	0.000088	0.000093
Diss-Vanadium (V) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Diss-Zinc (Zn) (mg/L)	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.001		<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030
TDS (mg/L)	102	103	112	120	113	<3	137	132	122	130	133	129	135	132	126
Physical Test															
Alkalinity (CaCO3) (	67.9	72.3	74	74.2	76.5	76.5	81.4	103	77.2	78	73.5	74.1	78.8	79.3	81
Conductivity (µs/cm)										208	197	197	208	199	201
Hardness (mg/L)	74.7	82.9	83.7	87.7	90.2	101	108	102		104	102	95	103	103	107
NTU (ntu)	4.81	0.88	0.92	0.98	0.86	1.12	0.59	0.54	1.12	1.19	0.82	1.35	1.61	1.23	1.82
pH (pH)										7.96	8.08	9.18	8.07	7.62	7.92
TDS (mg/L)	102	103	112	120	113	<3	137	132	122	130	133	129	135	132	126
TSS (mg/L)	3	<3	<3	<3	<3	139	<3	5.5	3.3	<3	<3	<3	<3.0	<3.0	<3.0
Total Metals															
Antimony (Sb)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	0.00012	<0.00010
Arsenic (As)-Total (	0.00058	0.00035	0.00037	0.00041	0.00045	0.00036	0.00044	0.0004	0.00107	0.00044	0.0004	0.00038	0.00051	0.00055	0.00064
Barium (Ba)-Total	0.00781	0.00648	0.00635	0.00681	0.00726	0.00748	0.00917	0.00742	0.00689	0.00767	0.00804	0.00703	0.00670	0.00718	0.0064
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0001	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00056	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.013	0.015	0.016	0.014	0.017	0.019	0.022	0.02	0.022	0.025	0.023	0.025	0.027	0.023	0.021
Calcium (Ca)-Total (	25.1	26.5	29.7	28.5	28.8	31.4	33.7	35.4	32.6	33.2	33.6	31.9	34.2	33.5	33.3
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.0005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	3.59	4.24	4.25	4.15	4.26	4.38	4.79	4.97	4.7	4.96	4.78	4.85	5.02	4.93	4.77
Nickel (Ni)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	3.47	3.51	2.94	3.5	3.64	3.58	4.21	3.55	3.41	3.68	3.67	3.39	4.09	3.9	3.79
Silver (Ag)-Total (mg/L)	0.000035	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	3.65	3.79	4.09	4.53	3.91	4.31	4.56	4.22	4.25	4.61	4.21	4.54	4.56	4.15	4.24
Strontium (Sr)-Total (mg/L)	0.108	0.122	0.133	0.146	0.178	0.188	0.213	0.233	0.224	0.24	0.219	0.239	0.240	0.215	0.243
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 surface

	6-Mar-07	24-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	13-Mar-09	26-Aug-09	26-Apr-10	15-Nov-10	25-May-11	19-Jul-11	1-Nov-11	8-May-12	1-Nov-12
Total Aluminum (mg/L)	0.12	0.0087	0.0057	0.0068	0.0158	<0.013	0.0554	<0.007	0.0081	0.0189	0.0185	0.0096	0.0173	0.0184	0.0103
Total Cadmium (mg/L)	0.000023	<0.000017	<0.000017	<0.000017	<0.000017	0.00003	0.000022	<0.000017	<0.000017	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.032	0.002	0.00191	0.00197	0.00315	0.00252	0.0074	0.00242	0.00182	0.00188	0.00178	0.0017	0.00151	0.00137	0.00134
Total Iron (mg/L)	0.094	<0.03	<0.03	<0.03	<0.03	<0.03	0.046	<0.03	<0.030	<0.03	<0.03	<0.03	0.038	<0.030	0.03
Total Lead	0.000338	<0.00005	<0.00005	<0.00005	0.000115	<0.00005	0.000056	<0.00005	<0.000050	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.00772	0.0378	0.00541	0.0132	0.0139	0.0231	0.0026	0.00594	0.0318	0.0424	0.00938	0.00751	0.0480	0.0143	0.0615
Total Molybdenum (mg/L)	0.000672	0.000801	0.000922	0.000944	0.00152	0.00196	0.00223	0.0022	0.0021	0.00205	0.00204	0.00217	0.00220	0.00212	0.00219
Total Selenium (mg/L)	<0.001	0.0011	0.0012	0.0011	<0.001	0.001	0.0012	0.0012	<0.0010	<0.001	0.00075	0.00081	0.00071	0.00072	0.00069
Uranium (U)-Total (mg/L)	0.000055	0.000056	0.000058	0.000059	0.000067	0.000084	0.000086	0.000072	0.000075	0.00008	0.000073	0.000082	0.000101	0.000078	0.000094
Vanadium (V)-Total (mg/L)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.0010	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	0.0111	<0.001	<0.001	<0.001	0.0016	0.0013	<0.006	<0.001	0.0011	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207974 : Polley Lake North Station P1 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	24	13	0.00500	0.03130	0.01087	0.02764	0.00851
Chloride (mg/L)	10	0	0.25000	0.25000	0.25000	0.25000	0.00000
Diss-Orthophosphate (mg/L)	24	17	0.00050	0.08480	0.01326	0.04246	0.01990
Diss-Phosphorus (mg/L)	28	26	0.00100	0.08950	0.01541	0.02124	0.01863
Nitrate (mg/L)	23	11	0.00250	0.15300	0.03799	0.14360	0.05054
Nitrate and Nitrite (mg/L)	9	4	0.00250	0.15500	0.04304	0.15100	0.06221
Nitrite (mg/L)	23	5	0.00050	0.00190	0.00068	0.00155	0.00039
Sulphate (mg/L)	24	24	4.20000	29.30000	20.83750	29.07000	7.95371
Total Nitrogen (mg/L)	24	23	0.06000	0.55000	0.26942	0.44250	0.11543
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	22	14	0.00050	0.00450	0.00186	0.00360	0.00114
Diss-Antimony (Sb) (mg/L)	22	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Arsenic (As) (mg/L)	22	22	0.00031	0.00062	0.00039	0.00053	0.00007
Diss-Barium (Ba) (mg/L)	22	22	0.00433	0.00729	0.00624	0.00705	0.00076
Diss-Beryllium (Be) (mg/L)	22	0	0.00005	0.00025	0.00021	0.00025	0.00008
Diss-Bismuth (Bi) (mg/L)	22	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Boron (B) (mg/L)	22	22	0.01100	0.02400	0.01764	0.02300	0.00445
Diss-Cadmium (Cd) (mg/L)	22	1	0.00001	0.00003	0.00001	0.00003	0.00001
Diss-Calcium (Ca) (mg/L)	22	22	23.40000	35.30000	29.70455	34.83000	3.90914
Diss-Chromium (Cr) (mg/L)	22	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Cobalt (Co) (mg/L)	22	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Copper (Cu) (mg/L)	22	22	0.00097	0.01010	0.00241	0.00935	0.00245
Diss-Iron (Fe) (mg/L)	22	0	0.01500	0.01500	0.01500	0.01500	0.00000
Diss-Lead (Pb) (mg/L)	22	2	0.00003	0.00015	0.00003	0.00006	0.00003
Diss-Lithium (Li) (mg/L)	22	1	0.00025	0.00250	0.00210	0.00250	0.00086
Diss-Magnesium (Mg) (mg/L)	22	22	3.65000	4.94000	4.36273	4.90800	0.44324
Diss-Manganese (Mn) (mg/L)	22	22	0.00011	0.02210	0.00178	0.00364	0.00465
Diss-Molybdenum (Mo) (mg/L)	22	22	0.00059	0.00228	0.00145	0.00222	0.00065
Diss-Nickel (Ni) (mg/L)	22	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Selenium (mg/L)	22	17	0.00050	0.00130	0.00086	0.00120	0.00026
Diss-Silicon (Si) (mg/L)	22	22	2.81000	4.28000	3.48909	3.88950	0.33150
Diss-Silver (Ag) (mg/L)	22	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	22	22	3.60000	4.50000	4.08409	4.45950	0.30047

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

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	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	22	22	0.10300	0.24200	0.17045	0.23695	0.05162
Diss-Thallium (Tl) (mg/L)	22	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	22	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Titanium (Ti) (mg/L)	22	0	0.00500	0.00500	0.00500	0.00500	0.00000
Diss-Uranium (U) (mg/L)	22	22	0.00005	0.00009	0.00007	0.00009	0.00001
Diss-Vanadium (V) (mg/L)	22	0	0.00050	0.00050	0.00050	0.00050	0.00000
Diss-Zinc (Zn) (mg/L)	22	4	0.00050	0.00800	0.00156	0.00749	0.00211
TDS (mg/L)	23	21	1.50000	137.00000	106.52174	134.80000	35.71430
Physical Test							
Alkalinity (CaCO3) ()	24	24	61.50000	103.00000	75.29167	84.63000	8.13457
Conductivity (µs/cm)	7	7	196.00000	208.00000	200.85714	208.00000	5.14550
Hardness (mg/L)	22	22	73.80000	108.00000	92.23636	106.85000	11.54472
NTU (ntu)	24	24	0.40000	4.81000	1.25958	4.36150	1.14592
pH (pH)	7	7	7.62000	9.18000	8.12571	8.85000	0.49125
TDS (mg/L)	23	21	1.50000	137.00000	106.52174	134.80000	35.71430
TSS (mg/L)	24	7	1.50000	139.00000	15.19167	120.08500	38.34811
Total Metals							
Antimony (Sb)-Total (mg/L)	23	1	0.00005	0.00012	0.00005	0.00005	0.00001
Arsenic (As)-Total ()	23	23	0.00033	0.00107	0.00045	0.00063	0.00016
Barium (Ba)-Total	23	23	0.00482	0.00917	0.00684	0.00802	0.00101
Beryllium (Be)-Total (mg/L)	23	0	0.00005	0.00025	0.00022	0.00025	0.00008
Bismuth (Bi)-Total (mg/L)	23	1	0.00025	0.00056	0.00026	0.00025	0.00006
Boron (B)-Total (mg/L)	23	23	0.01100	0.02700	0.01804	0.02500	0.00503
Calcium (Ca)-Total ()	23	23	24.80000	35.40000	30.15652	34.15000	3.48749
Chromium (Cr)-Total (mg/L)	23	0	0.00025	0.00025	0.00025	0.00025	0.00000
Cobalt (Co)-Total (m	23	1	0.00010	0.00010	0.00010	0.00010	0.00000
Lithium (Li)-Total (mg/L)	23	0	0.00025	0.00250	0.00211	0.00250	0.00087
Magnesium (Mg)-Total (mg/L)	23	23	3.56000	5.02000	4.39000	4.96900	0.47752
Nickel (Ni)-Total (mg/L)	23	0	0.00025	0.00025	0.00025	0.00025	0.00000
Silicon (Si)-Total (mg/L)	23	23	2.86000	4.21000	3.54174	4.07100	0.30352
Silver (Ag)-Total (mg/L)	23	3	0.00001	0.00004	0.00001	0.00002	0.00001
Sodium (Na)-Total (mg/L)	23	23	3.52000	4.61000	4.10304	4.56000	0.33527
Strontium (Sr)-Total (mg/L)	23	23	0.10200	0.24300	0.17461	0.24000	0.05399
Thallium (Tl)-Total (mg/L)	23	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	23	0	0.00005	0.00005	0.00005	0.00005	0.00000

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	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	23	0	0.00500	0.00500	0.00500	0.00500	0.00000
Total Aluminum (mg/L)	23	20	0.00350	0.12000	0.02142	0.10634	0.03167
Total Cadmium (mg/L)	23	4	0.00001	0.00005	0.00002	0.00005	0.00001
Total Copper (mg/L)	23	23	0.00134	0.03200	0.00477	0.02918	0.00861
Total Iron (mg/L)	23	6	0.03000	0.09400	0.03883	0.08790	0.02049
Total Lead	23	4	0.00005	0.00034	0.00008	0.00032	0.00008
Total Manganese (mg/L)	23	23	0.00260	0.06150	0.01815	0.04744	0.01576
Total Molybdenum (mg/L)	23	23	0.00060	0.00223	0.00149	0.00220	0.00068
Total Selenium (mg/L)	23	15	0.00050	0.00120	0.00080	0.00120	0.00028
Uranium (U)-Total (mg/L)	23	23	0.00004	0.00010	0.00007	0.00009	0.00002
Vanadium (V)-Total (mg/L)	23	2	0.00050	0.00110	0.00055	0.00095	0.00016
Zinc (Zn)-Total (mg/L)	23	7	0.00050	0.01110	0.00200	0.01020	0.00292

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Mining Corporation

IMPERIAL METALS CORPORATION

E207975 : Polley Lake South Station P2 bottom											
	23-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11	8-May-12	1-Nov-12
Anions and Nutrients											
Ammonia (as N) (mg/L)	0.0313	0.005	<0.005	0.0155	<0.005	0.0082	<0.005	0.0125	0.0144	0.0508	<0.0050
Chloride (mg/L)						<0.50	<0.5	<0.5	<0.50	<0.50	<0.50
Diss-Orthophosphate (mg/L)	0.0014	0.0144	0.0251	0.0018	0.0365	0.0093	0.0424	0.0359	0.0488	0.0568	0.0423
Diss-Phosphorus (mg/L)	0.0048	0.0169	0.0261	0.0053	0.0405	0.0149	0.0424	0.0388	0.0562	0.0633	0.0469
Nitrate (mg/L)	<0.005	0.0904	0.128	0.0714	0.166	0.0172	0.0454	0.0704	0.180	0.114	0.086
Nitrate and Nitrite (mg/L)						0.0172	0.0454	0.0704	0.186	0.114	0.086
Nitrite (mg/L)	<0.001	<0.001	<0.001	0.0018	<0.001	<0.0010	<0.001	<0.001	0.0061	<0.0010	<0.0010
Sulphate (mg/L)	15	15	14.8	23.1	23.6	28.4	28.2	31.6	28.7	28.6	29.4
Total Nitrogen (mg/L)	0.33	0.42	0.46	0.18	0.26	0.22	0.23	0.27	0.370	0.38	0.38
Dissolved Metals											
Diss-Aluminum (Al) (mg/L)	0.0018	0.0011	<0.001	0.0019	0.0012	<0.0010	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Arsenic (As) (mg/L)	0.00032	0.00034	0.00041	0.00032	0.00042	0.00068	0.00044	0.00041	0.00052	0.00057	0.00056
Diss-Barium (Ba) (mg/L)	0.00614	0.0071	0.00588	0.00688	0.00575	0.007	0.00623	0.00747	0.00613	0.00728	0.00706
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Boron (B) (mg/L)	0.015	0.014	0.013	0.018	0.019	0.021	0.024	0.023	0.024	0.024	0.021
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	26.3	25.1	25.9	30	32	33.3	38.8	35.9	33.4	34.3	34.3
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00186	0.00172	0.00187	0.00167	0.00156	0.00138	0.00132	0.00133	0.00106	0.00093	0.00096
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Diss-Magnesium (Mg) (mg/L)	4.22	3.9	3.87	4.38	4.44	4.78	5.05	5.05	4.90	5.05	4.84
Diss-Manganese (Mn) (mg/L)	0.0223	0.000706	0.000305	0.00593	0.000278	0.0266	0.000192	0.00031	0.000173	0.236	0.000975
Diss-Molybdenum (Mo) (mg/L)	0.00081	0.000786	0.000833	0.00182	0.00182	0.00206	0.00191	0.00211	0.00212	0.00225	0.00226
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	0.001	0.001	<0.0010	<0.001	0.00083	0.00076	0.00074	0.00067
Diss-Silicon (Si) (mg/L)	3.49	3.79	4.49	3.63	4.33	3.67	3.67	4.03	4.07	4.27	3.56
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Sodium (Na) (mg/L)	3.77	3.96	4.39	3.94	4.26	4.15	4.12	4.36	4.38	4.31	4.38
Diss-Strontium (Sr) (mg/L)	0.118	0.119	0.127	0.199	0.184	0.226	0.218	0.234	0.234	0.233	0.245

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207975 : Polley Lake South Station P2 bottom											
	23-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11	8-May-12	1-Nov-12
Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010	<0.010	<0.010
Diss-Uranium (U) (mg/L)	0.000058	0.000055	0.000055	0.000071	0.000075	0.000078	0.000073	0.000083	0.000088	0.000092	0.000098
Diss-Vanadium (V) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Diss-Zinc (Zn) (mg/L)	<0.001	<0.001	<0.001	0.001	<0.001	<0.0010	<0.003	<0.003	<0.0030	<0.0030	<0.0030
TDS (mg/L)	102	114	109	116	130	132	131	138	135	134	132
Physical Test											
Alkalinity (CaCO3) (	72.5	73.3	73.9	77.8	76.4	78.4	78.5	78.6	79.4	83	80.5
Conductivity (µs/cm)							205	213	207	207	205
Hardness (mg/L)	83	78.8	80.5	93	98.2	103	118	111	104	106	106
NTU (ntu)	1.23	1.06	1.3	1.38	1.35	1.25	0.9	0.89	2.73	1.22	2.53
pH (pH)							7.9	7.99	8.04	7.62	7.96
TDS (mg/L)	102	114	109	116	130	132	131	138	135	134	132
TSS (mg/L)	<3	<3	<3	4.2	<3	3.3	<3	3.4	<3.0	<3.0	<3.0
Total Metals											
Antimony (Sb)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total (	0.00033	0.00034	0.00045	0.00034	0.00045	0.00074	0.00039	0.0004	0.00055	0.00056	0.00059
Barium (Ba)-Total	0.00669	0.00774	0.0064	0.00706	0.00633	0.00741	0.00617	0.00812	0.00712	0.00779	0.00746
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.015	0.014	0.013	0.017	0.019	0.023	0.025	0.024	0.025	0.025	0.02
Calcium (Ca)-Total (	25.4	24.9	26.4	29.7	33.2	32.3	39.2	36.4	33.1	34.7	33.3
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	4.07	3.85	3.94	4.42	4.51	4.65	5.18	5.15	4.82	5.15	4.76
Nickel (Ni)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	3.4	3.82	4.61	3.7	4.44	3.68	3.78	4.14	4.07	4.42	3.52
Silver (Ag)-Total (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	3.86	3.92	4.34	3.95	4.29	4.16	3.79	4.35	4.28	4.24	4.27
Strontium (Sr)-Total (mg/L)	0.121	0.121	0.127	0.203	0.185	0.222	0.219	0.239	0.228	0.233	0.244
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.010	<0.010	<0.010

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207975 : Polley Lake South Station P2 bottom

	23-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	26-Apr-10	2-Nov-10	25-May-11	1-Nov-11	8-May-12	1-Nov-12
Total Aluminum (mg/L)	0.0109	0.0246	0.0076	0.0171	0.0053	0.0255	0.0096	0.0202	0.0193	0.0157	0.0262
Total Cadmium (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.00202	0.00245	0.00188	0.00198	0.0018	0.00255	0.0015	0.00155	0.00131	0.00128	0.00147
Total Iron (mg/L)	<0.03	0.06	0.041	0.035	<0.03	0.05	<0.03	<0.03	0.047	0.039	0.045
Total Lead	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	0.000072	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.0443	0.0363	0.0683	0.0317	0.0798	0.0782	0.0377	0.0617	0.104	0.353	0.0331
Total Molybdenum (mg/L)	0.000818	0.000771	0.000802	0.00188	0.00175	0.00207	0.00181	0.00213	0.00208	0.00226	0.00226
Total Selenium (mg/L)	0.001	<0.001	<0.001	0.0011	0.0012	<0.0010	<0.001	0.00077	0.00069	0.0007	0.00069
Uranium (U)-Total (mg/L)	0.000053	0.000063	0.000057	0.000072	0.00007	0.000077	0.000074	0.000081	0.000085	0.000094	0.000091
Vanadium (V)-Total (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001	<0.0010	<0.0010	0.001
Zinc (Zn)-Total (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.003	<0.003	<0.0030	<0.0030	<0.0030

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E207975 : Polley Lake South Station P2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	12	8	0.00500	0.05080	0.01383	0.04008	0.01392
Chloride (mg/L)	7	0	0.25000	0.25000	0.25000	0.25000	0.00000
Diss-Orthophosphate (mg/L)	12	12	0.00140	0.05680	0.02700	0.05240	0.01927
Diss-Phosphorus (mg/L)	12	12	0.00480	0.06330	0.03092	0.05940	0.01977
Nitrate (mg/L)	12	11	0.00250	0.18000	0.08238	0.17230	0.05736
Nitrate and Nitrite (mg/L)	7	7	0.01720	0.18600	0.07660	0.16440	0.05989
Nitrite (mg/L)	12	2	0.00050	0.00610	0.00108	0.00374	0.00163
Sulphate (mg/L)	12	12	14.80000	31.60000	24.56667	30.39000	6.25436
Total Nitrogen (mg/L)	12	12	0.18000	0.46000	0.31000	0.43800	0.09145
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	12	4	0.00050	0.00190	0.00125	0.00185	0.00050
Diss-Antimony (Sb) (mg/L)	12	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Arsenic (As) (mg/L)	12	12	0.00032	0.00068	0.00047	0.00068	0.00013
Diss-Barium (Ba) (mg/L)	12	12	0.00575	0.00747	0.00666	0.00737	0.00059
Diss-Beryllium (Be) (mg/L)	12	0	0.00005	0.00025	0.00020	0.00025	0.00009
Diss-Bismuth (Bi) (mg/L)	12	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Boron (B) (mg/L)	12	12	0.01300	0.02400	0.01975	0.02400	0.00398
Diss-Cadmium (Cd) (mg/L)	12	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Calcium (Ca) (mg/L)	12	12	25.10000	38.80000	31.88333	37.20500	4.24817
Diss-Chromium (Cr) (mg/L)	12	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Cobalt (Co) (mg/L)	12	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Copper (Cu) (mg/L)	12	12	0.00093	0.00187	0.00142	0.00186	0.00033
Diss-Iron (Fe) (mg/L)	12	0	0.01500	0.01500	0.01500	0.01500	0.00000
Diss-Lead (Pb) (mg/L)	12	0	0.00003	0.00003	0.00003	0.00003	0.00000
Diss-Lithium (Li) (mg/L)	12	0	0.00025	0.00250	0.00194	0.00250	0.00102
Diss-Magnesium (Mg) (mg/L)	12	12	3.87000	5.05000	4.60500	5.05000	0.43284
Diss-Manganese (Mn) (mg/L)	12	12	0.00017	0.23600	0.02670	0.12083	0.06681
Diss-Molybdenum (Mo) (mg/L)	12	12	0.00079	0.00226	0.00174	0.00225	0.00058
Diss-Nickel (Ni) (mg/L)	12	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Selenium (mg/L)	12	6	0.00050	0.00100	0.00067	0.00100	0.00020
Diss-Silicon (Si) (mg/L)	12	12	3.49000	4.49000	3.88917	4.40200	0.33598
Diss-Silver (Ag) (mg/L)	12	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	12	12	3.77000	4.39000	4.18083	4.38450	0.20434

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Mining Corporation

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E207975 : Polley Lake South Station P2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	12	12	0.11800	0.24500	0.19692	0.23895	0.04849
Diss-Thallium (Tl) (mg/L)	12	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	12	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Titanium (Ti) (mg/L)	12	0	0.00500	0.00500	0.00500	0.00500	0.00000
Diss-Uranium (U) (mg/L)	12	12	0.00006	0.00010	0.00008	0.00009	0.00001
Diss-Vanadium (V) (mg/L)	12	0	0.00050	0.00050	0.00050	0.00050	0.00000
Diss-Zinc (Zn) (mg/L)	12	1	0.00050	0.00150	0.00096	0.00150	0.00050
TDS (mg/L)	12	12	102.00000	138.00000	125.41667	136.35000	11.84336
Physical Test							
Alkalinity (CaCO3) ()	12	12	72.50000	83.00000	77.55833	81.62500	3.06815
Conductivity (µs/cm)	5	5	205.00000	213.00000	207.40000	211.80000	3.28634
Hardness (mg/L)	12	12	78.80000	118.00000	98.70833	114.15000	12.43861
NTU (ntu)	12	12	0.89000	2.73000	1.42417	2.62000	0.58649
pH (pH)	5	5	7.62000	8.04000	7.90200	8.03000	0.16559
TDS (mg/L)	12	12	102.00000	138.00000	125.41667	136.35000	11.84336
TSS (mg/L)	12	4	1.50000	4.20000	2.18333	3.76000	1.03470
Total Metals							
Antimony (Sb)-Total (mg/L)	12	0	0.00005	0.00005	0.00005	0.00005	0.00000
Arsenic (As)-Total ()	12	12	0.00033	0.00074	0.00049	0.00074	0.00015
Barium (Ba)-Total	12	12	0.00617	0.00812	0.00714	0.00794	0.00063
Beryllium (Be)-Total (mg/L)	12	0	0.00005	0.00025	0.00020	0.00025	0.00009
Bismuth (Bi)-Total (mg/L)	12	0	0.00025	0.00025	0.00025	0.00025	0.00000
Boron (B)-Total (mg/L)	12	12	0.01300	0.02500	0.02025	0.02500	0.00456
Calcium (Ca)-Total ()	12	12	24.90000	39.20000	31.74167	37.66000	4.39865
Chromium (Cr)-Total (mg/L)	12	0	0.00025	0.00025	0.00025	0.00025	0.00000
Cobalt (Co)-Total (m	12	0	0.00010	0.00010	0.00010	0.00010	0.00000
Lithium (Li)-Total (mg/L)	12	0	0.00025	0.00250	0.00194	0.00250	0.00102
Magnesium (Mg)-Total (mg/L)	12	12	3.85000	5.18000	4.59583	5.16350	0.46119
Nickel (Ni)-Total (mg/L)	12	0	0.00025	0.00025	0.00025	0.00025	0.00000
Silicon (Si)-Total (mg/L)	12	12	3.40000	4.61000	3.93833	4.51650	0.39161
Silver (Ag)-Total (mg/L)	12	0	0.00001	0.00001	0.00001	0.00001	0.00000
Sodium (Na)-Total (mg/L)	12	12	3.79000	4.35000	4.13417	4.34450	0.19975
Strontium (Sr)-Total (mg/L)	12	12	0.12100	0.24400	0.19700	0.24125	0.04729
Thallium (Tl)-Total (mg/L)	12	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	12	0	0.00005	0.00005	0.00005	0.00005	0.00000

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E207975 : Polley Lake South Station P2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	12	0	0.00500	0.00500	0.00500	0.00500	0.00000
Total Aluminum (mg/L)	12	12	0.00530	0.02620	0.01729	0.02582	0.00751
Total Cadmium (mg/L)	12	0	0.00001	0.00002	0.00001	0.00002	0.00000
Total Copper (mg/L)	12	12	0.00128	0.00255	0.00186	0.00255	0.00046
Total Iron (mg/L)	12	8	0.03000	0.06000	0.04058	0.05450	0.00999
Total Lead	12	1	0.00005	0.00007	0.00005	0.00006	0.00001
Total Manganese (mg/L)	12	12	0.03170	0.35300	0.08386	0.21605	0.08786
Total Molybdenum (mg/L)	12	12	0.00077	0.00226	0.00173	0.00226	0.00058
Total Selenium (mg/L)	12	7	0.00050	0.00120	0.00072	0.00115	0.00025
Uranium (U)-Total (mg/L)	12	12	0.00005	0.00009	0.00007	0.00009	0.00001
Vanadium (V)-Total (mg/L)	12	1	0.00050	0.00100	0.00054	0.00073	0.00014
Zinc (Zn)-Total (mg/L)	12	0	0.00050	0.00150	0.00092	0.00150	0.00051

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E207975 : Polley Lake South Station P2 surface

	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	1-Nov-11	8-May-12	1-Nov-12
Anions and Nutrients													
Ammonia (as N) (mg/L)	<0.005	0.0083	0.0116	<0.005	0.0211	<0.005	0.0051	0.0148	<0.005	0.0051	0.0112	0.0114	<0.0050
Chloride (mg/L)							<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50
Diss-Orthophosphate (mg/L)	0.0053	<0.001	<0.001	0.0011	<0.001	0.0076	0.0169	<0.001	0.0383	0.014	0.0487	0.0311	0.041
Diss-Phosphorus (mg/L)	0.0099	0.0042	0.0034	0.0036	0.0068	0.0117	0.023	<0.002	0.0394	0.0159	0.0525	0.0316	0.0467
Nitrate (mg/L)	0.0383	<0.005	<0.005	0.0089	0.0408	0.0543	0.147	0.0125	0.0433	<0.005	0.177	0.0959	0.0827
Nitrate and Nitrite (mg/L)									0.0433	<0.0051	0.179	0.0959	0.0827
Nitrite (mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013	<0.0010	<0.0010
Sulphate (mg/L)	22.5	15.1	18.1	18.6	22.3	25	31.4	29.4	29	28.4	28.5	29	29.4
Total Nitrogen (mg/L)	0.53	0.38	0.34	0.37	0.22	0.15	0.4	0.14	0.18	0.24	0.330	0.32	0.39
Dissolved Metals													
Diss-Aluminum (Al) (mg/L)	0.001	0.0018	0.0018	<0.001	0.0014	0.0016	<0.001	0.0039	<0.003	0.0036	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Arsenic (As) (mg/L)	0.00065	0.00032	0.00037	0.00036	0.00034	0.00038	0.00046	0.00038	0.00046	0.00039	0.00057	0.00052	0.00054
Diss-Barium (Ba) (mg/L)	0.0104	0.00615	0.00649	0.0065	0.00658	0.00683	0.00802	0.00715	0.00691	0.0065	0.00601	0.00751	0.007
Diss-Beryllium (Be) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Diss-Bismuth (Bi) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Boron (B) (mg/L)	0.025	0.015	0.015	0.014	0.018	0.019	0.024	0.021	0.023	0.021	0.024	0.024	0.021
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	0.000021	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	43.7	25.9	26.4	28.7	29.4	32.6	40.4	33.6	33.7	33.2	33.0	34.3	34.1
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00339	0.00185	0.00182	0.00174	0.00165	0.00164	0.00216	0.00392	0.00135	0.00147	0.00104	0.00095	0.001
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000051	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Lithium (Li) (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Diss-Magnesium (Mg) (mg/L)	7.18	4.18	4.13	4.17	4.33	4.49	5.56	4.86	4.95	4.72	4.81	5.04	4.87
Diss-Manganese (Mn) (mg/L)	0.00054	0.0213	0.000614	0.000107	0.0019	0.000266	0.00064	0.000187	0.000114	0.000367	0.000137	0.00549	0.000332
Diss-Molybdenum (Mo) (mg/L)	0.00131	0.000839	0.000984	0.00105	0.00172	0.00199	0.00238	0.00222	0.00196	0.00199	0.00211	0.0022	0.00227
Diss-Nickel (Ni) (mg/L)	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Selenium (mg/L)	0.0016	0.0011	0.0013	<0.001	0.0012	0.0011	0.0014	0.0011	<0.001	0.00075	0.00074	0.00076	0.00066
Diss-Silicon (Si) (mg/L)	6.05	3.47	2.91	3.52	3.57	3.69	5.02	3.46	3.61	3.57	3.99	3.92	3.57
Diss-Silver (Ag) (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Sodium (Na) (mg/L)	7.3	3.7	4.11	4.29	3.98	4.27	5.1	4.3	4.49	4.11	4.38	4.16	4.35
Diss-Strontium (Sr) (mg/L)	0.213	0.116	0.134	0.142	0.193	0.189	0.233	0.234	0.235	0.212	0.233	0.224	0.244

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Diss-Thallium (Tl) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Diss-Tin (Sn) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Titanium (Ti) (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010
Diss-Uranium (U) (mg/L)	0.000104	0.000058	0.000062	0.000067	0.00007	0.000082	0.000096	0.000084	0.000079	0.000073	0.000086	0.000093	0.000095
Diss-Vanadium (V) (mg/L)	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Diss-Zinc (Zn) (mg/L)	0.0194	<0.001	<0.001	<0.001	<0.001	<0.001	0.0432	0.0031	<0.003	<0.003	<0.0030	<0.0030	<0.0030
TDS (mg/L)	187	105	113	111	117	<3	158	135	129	125	133	137	132
Physical Test													
Alkalinity (CaCO3) (	128	72	74.5	74.4	83.8	76.3	94.4	76.6	78.2	73.1	79.3	80.1	79.4
Conductivity (µs/cm)									207	196	208	203	204
Hardness (mg/L)	139	81.9	82.8	88.7	91.2	99.9	124	104	104	102	102	106	105
NTU (ntu)	1.31	1.02	0.79	0.96	0.94	0.88	1.25	0.78	1.14	0.84	2.24	0.96	1.67
pH (pH)									7.96	8.08	8.05	7.6	7.97
TDS (mg/L)	187	105	113	111	117	<3	158	135	129	125	133	137	132
TSS (mg/L)	<3	<3	<3	<3	<3	132	<3	4.5	<3	<3	<3.0	<3.0	<3.0
Total Metals													
Antimony (Sb)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total (	0.00071	0.00034	0.00037	0.0004	0.00047	0.00042	0.00047	0.00039	0.00045	0.00039	0.00054	0.00053	0.0006
Barium (Ba)-Total	0.0111	0.00668	0.00664	0.00706	0.00747	0.00693	0.00861	0.00725	0.00747	0.00669	0.00661	0.00752	0.00747
Beryllium (Be)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Boron (B)-Total (mg/L)	0.025	0.014	0.015	0.014	0.017	0.019	0.025	0.024	0.024	0.024	0.025	0.025	0.021
Calcium (Ca)-Total (	48.8	26.2	26.6	29	29.3	32.8	38.2	31.1	33.4	33.2	33.5	35	33.6
Chromium (Cr)-Total (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total (m	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00050	<0.00050	<0.00050
Magnesium (Mg)-Total (mg/L)	6.99	4.21	4.19	4.19	4.34	4.61	5.38	4.74	4.94	4.69	4.88	5.18	4.81
Nickel (Ni)-Total (mg/L)	0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00061	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Silicon (Si)-Total (mg/L)	6.5	3.51	2.94	3.56	3.59	3.77	4.83	3.31	3.63	3.6	4.08	4.09	3.55
Silver (Ag)-Total (mg/L)	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000018	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total (mg/L)	7.46	3.75	4.15	4.33	3.95	4.28	5.36	4.31	4.55	4.15	4.33	4.25	4.29
Strontium (Sr)-Total (mg/L)	0.222	0.119	0.134	0.147	0.195	0.191	0.243	0.239	0.242	0.21	0.230	0.24	0.248
Thallium (Tl)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000010	<0.000010	<0.000010
Tin (Sn)-Total (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010

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Total Aluminum (mg/L)	0.0076	0.0105	0.0054	0.0106	0.0316	0.0045	0.025	0.011	0.01	0.0197	0.0121	<0.015	0.0213
Total Cadmium (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	0.000018	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Total Copper (mg/L)	0.00436	0.00205	0.00201	0.00206	0.0034	0.0019	0.00352	0.00419	0.00169	0.00179	0.00122	0.00129	0.00201
Total Iron (mg/L)	0.037	0.097	<0.03	<0.03	<0.03	<0.03	0.092	<0.03	<0.03	<0.03	<0.030	<0.030	0.034
Total Lead	0.000077	<0.00005	<0.00005	<0.00005	0.000147	<0.00005	<0.00005	0.000055	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Total Manganese (mg/L)	0.00167	0.0401	0.00491	0.0153	0.0151	0.0243	0.00171	0.00614	0.0366	0.00958	0.0676	0.0415	0.026
Total Molybdenum (mg/L)	0.00129	0.000788	0.000967	0.00101	0.00168	0.00192	0.00248	0.00228	0.00206	0.00197	0.00215	0.00235	0.00223
Total Selenium (mg/L)	0.0019	0.001	0.0012	0.0012	0.0012	0.0013	0.0013	0.0011	<0.001	0.00074	0.00069	0.00076	0.0007
Uranium (U)-Total (mg/L)	0.000095	0.000051	0.000054	0.000059	0.000068	0.000073	0.000097	0.000083	0.000078	0.000068	0.000084	0.000095	0.000094
Vanadium (V)-Total (mg/L)	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	0.0296	<0.001	<0.001	<0.001	0.0042	0.0016	0.0599	0.0017	<0.003	<0.003	<0.0030	<0.0030	<0.0030

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	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Anions and Nutrients							
Ammonia (as N) (mg/L)	21	12	0.00500	0.02110	0.01110	0.02000	0.00611
Chloride (mg/L)	8	0	0.25000	0.25000	0.25000	0.25000	0.00000
Diss-Orthophosphate (mg/L)	21	13	0.00050	0.04870	0.01206	0.04100	0.01572
Diss-Phosphorus (mg/L)	23	22	0.00100	0.05250	0.01622	0.03196	0.01517
Nitrate (mg/L)	20	13	0.00250	0.17700	0.04572	0.14850	0.05518
Nitrate and Nitrite (mg/L)	6	4	0.00255	0.17900	0.06891	0.15822	0.06568
Nitrite (mg/L)	20	2	0.00050	0.00130	0.00057	0.00102	0.00021
Sulphate (mg/L)	21	21	3.80000	31.40000	21.35714	30.80000	8.06701
Total Nitrogen (mg/L)	21	20	0.06000	0.53000	0.27871	0.40000	0.11265
Dissolved Metals							
Diss-Aluminum (Al) (mg/L)	21	14	0.00050	0.00390	0.00188	0.00370	0.00106
Diss-Antimony (Sb) (mg/L)	21	1	0.00005	0.00019	0.00006	0.00005	0.00003
Diss-Arsenic (As) (mg/L)	21	21	0.00030	0.00065	0.00041	0.00057	0.00009
Diss-Barium (Ba) (mg/L)	21	21	0.00425	0.01040	0.00656	0.00802	0.00130
Diss-Beryllium (Be) (mg/L)	21	0	0.00003	0.00025	0.00021	0.00025	0.00008
Diss-Bismuth (Bi) (mg/L)	21	1	0.00008	0.00025	0.00024	0.00025	0.00004
Diss-Boron (B) (mg/L)	20	20	0.01100	0.02500	0.01845	0.02405	0.00458
Diss-Cadmium (Cd) (mg/L)	21	2	0.00001	0.00004	0.00001	0.00003	0.00001
Diss-Calcium (Ca) (mg/L)	21	21	21.30000	43.70000	30.88095	40.40000	5.63468
Diss-Chromium (Cr) (mg/L)	21	0	0.00010	0.00025	0.00024	0.00025	0.00003
Diss-Cobalt (Co) (mg/L)	21	0	0.00001	0.00005	0.00005	0.00005	0.00001
Diss-Copper (Cu) (mg/L)	21	21	0.00095	0.00392	0.00190	0.00339	0.00072
Diss-Iron (Fe) (mg/L)	21	0	0.00250	0.01500	0.01440	0.01500	0.00273
Diss-Lead (Pb) (mg/L)	21	2	0.00003	0.00006	0.00003	0.00005	0.00001
Diss-Lithium (Li) (mg/L)	21	0	0.00010	0.00250	0.00206	0.00250	0.00092
Diss-Magnesium (Mg) (mg/L)	21	21	2.94000	7.18000	4.54381	5.56000	0.86147
Diss-Manganese (Mn) (mg/L)	21	21	0.00011	0.02130	0.00190	0.00549	0.00460
Diss-Molybdenum (Mo) (mg/L)	21	21	0.00065	0.00238	0.00150	0.00232	0.00065
Diss-Nickel (Ni) (mg/L)	21	1	0.00025	0.00050	0.00026	0.00025	0.00005
Diss-Selenium (mg/L)	21	17	0.00025	0.00160	0.00096	0.00140	0.00035
Diss-Silicon (Si) (mg/L)	21	21	2.74000	6.05000	3.67952	5.02000	0.78622
Diss-Silver (Ag) (mg/L)	21	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Sodium (Na) (mg/L)	21	21	3.61000	7.30000	4.31048	5.10000	0.78777

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	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Diss-Strontium (Sr) (mg/L)	21	21	0.09080	0.24400	0.17532	0.23500	0.05413
Diss-Thallium (Tl) (mg/L)	21	0	0.00001	0.00005	0.00004	0.00005	0.00002
Diss-Tin (Sn) (mg/L)	21	1	0.00005	0.00035	0.00006	0.00005	0.00007
Diss-Titanium (Ti) (mg/L)	21	1	0.00032	0.00500	0.00478	0.00500	0.00102
Diss-Uranium (U) (mg/L)	21	21	0.00004	0.00010	0.00007	0.00010	0.00002
Diss-Vanadium (V) (mg/L)	21	2	0.00050	0.00120	0.00054	0.00064	0.00015
Diss-Zinc (Zn) (mg/L)	21	6	0.00050	0.04320	0.00562	0.03200	0.01156
TDS (mg/L)	20	19	1.50000	187.00000	117.97500	159.45000	35.91674
Physical Test							
Alkalinity (CaCO3) ()	21	21	66.00000	128.00000	80.82381	94.40000	12.67848
Conductivity (µs/cm)	5	5	196.00000	208.00000	203.60000	207.80000	4.72229
Hardness (mg/L)	21	21	64.80000	139.00000	95.75714	124.00000	17.56939
NTU (ntu)	21	21	0.35000	2.24000	0.98810	1.67000	0.40548
pH (pH)	5	5	7.60000	8.08000	7.93200	8.07400	0.19254
TDS (mg/L)	20	19	1.50000	187.00000	117.97500	159.45000	35.91674
TSS (mg/L)	21	2	1.50000	132.00000	7.88095	4.50000	28.44684
Total Metals							
Antimony (Sb)-Total (mg/L)	21	1	0.00005	0.00013	0.00005	0.00005	0.00002
Arsenic (As)-Total ()	21	21	0.00034	0.00071	0.00043	0.00060	0.00010
Barium (Ba)-Total	21	21	0.00389	0.01110	0.00695	0.00861	0.00145
Beryllium (Be)-Total (mg/L)	21	0	0.00003	0.00025	0.00021	0.00025	0.00008
Bismuth (Bi)-Total (mg/L)	21	2	0.00009	0.00050	0.00025	0.00025	0.00007
Boron (B)-Total (mg/L)	20	20	0.01200	0.02500	0.01900	0.02500	0.00516
Calcium (Ca)-Total ()	21	21	20.80000	48.80000	30.81905	38.20000	6.03843
Chromium (Cr)-Total (mg/L)	21	0	0.00010	0.00025	0.00024	0.00025	0.00003
Cobalt (Co)-Total (m	21	0	0.00002	0.00010	0.00010	0.00010	0.00002
Lithium (Li)-Total (mg/L)	21	0	0.00010	0.00250	0.00206	0.00250	0.00092
Magnesium (Mg)-Total (mg/L)	21	21	3.12000	6.99000	4.53524	5.38000	0.79780
Nickel (Ni)-Total (mg/L)	21	2	0.00025	0.00061	0.00028	0.00052	0.00010
Silicon (Si)-Total (mg/L)	21	21	2.80000	6.50000	3.74810	4.83000	0.80213
Silver (Ag)-Total (mg/L)	21	1	0.00001	0.00002	0.00001	0.00001	0.00000
Sodium (Na)-Total (mg/L)	21	21	3.67000	7.46000	4.44000	5.50000	0.86317
Strontium (Sr)-Total (mg/L)	21	21	0.09180	0.24800	0.17942	0.24300	0.05636
Thallium (Tl)-Total (mg/L)	21	0	0.00001	0.00005	0.00004	0.00005	0.00002
Tin (Sn)-Total (mg/L)	21	1	0.00005	0.00045	0.00007	0.00005	0.00009

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Mining Corporation

IMPERIAL METALS CORPORATION

E207975 : Polley Lake South Station P2 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Titanium (Ti)-Total (mg/L)	21	1	0.00040	0.00500	0.00478	0.00500	0.00100
Total Aluminum (mg/L)	21	20	0.00430	0.03160	0.01150	0.02500	0.00725
Total Cadmium (mg/L)	21	2	0.00001	0.00005	0.00002	0.00005	0.00001
Total Copper (mg/L)	21	21	0.00122	0.00436	0.00236	0.00419	0.00088
Total Iron (mg/L)	21	7	0.03000	0.09700	0.04238	0.09200	0.02311
Total Lead	21	4	0.00002	0.00015	0.00005	0.00008	0.00002
Total Manganese (mg/L)	21	21	0.00160	0.06760	0.01778	0.04150	0.01742
Total Molybdenum (mg/L)	21	21	0.00062	0.00248	0.00151	0.00246	0.00069
Total Selenium (mg/L)	21	17	0.00025	0.00190	0.00099	0.00130	0.00038
Uranium (U)-Total (mg/L)	21	21	0.00004	0.00010	0.00007	0.00010	0.00002
Vanadium (V)-Total (mg/L)	21	2	0.00050	0.00120	0.00054	0.00067	0.00016
Zinc (Zn)-Total (mg/L)	21	9	0.00050	0.05990	0.00780	0.04870	0.01676

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E207972 : Bootjack Lake North Station B1 bottom

	23-May-07	23-Oct-07	21-May-08	27-Oct-08	2-Nov-10	25-May-11	1-Nov-11	31-Oct-12
Field Tests								
Cond (in situ) ($\mu\text{s}/\text{cm}$)	51	83	58		61	65.6	95	94.8
pH (in situ) (pH)	8.02	7.95	7.13	7.56	7.65	7.58	7.90	7.74
Temp (in situ) (Degrees Celcius)	5.86	6.71	4.27	5.62	6.63	4.8	5.39	5.5

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E207972 : Bootjack Lake North Station B1 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	8	8	51.00000	95.00000	71.20000		17.29509
pH (in situ) (pH)	9	9	7.13000	8.02000	7.71556		0.28649
Temp (in situ) (Degrees Celcius)	9	9	4.27000	6.71000	5.76778		0.85011

E207972 : Bootjack Lake North Station B1 surface															
	2-Nov-10	15-Nov-10	25-May-11	20-Jun-11	6-Jul-11	19-Jul-11	8-Aug-11	9-Aug-11	24-Aug-11	7-Sep-11	20-Sep-11	6-Oct-11	1-Nov-11	16-May-12	30-May-12
Field Tests															
Cond (in situ) (µs/cm)	60	91	88	88	88	88	90	90	89	89	90	92	93	79	88.3
pH (in situ) (pH)	7.83	7.48	8.05	6.93	8.4	8.45	8.14	8.14	7.92	7.99	7.71	7.75	7.87	7.4	8.14
Temp (in situ) (Degrees Celcius)		4.2	8.5	15.9	16.1	17.5		19.8	17.6	16.2	14.1	10.7	5.4	10.08	12.8

E207972 : Bootjack Lake North Station B1 surface										
	13-Jun-12	16-Jul-12	31-Jul-12	8-Aug-12	15-Aug-12	28-Aug-12	12-Sep-12	24-Sep-12	11-Oct-12	31-Oct-12
Field Tests										
Cond (in situ) (µs/cm)	90	92	93	94	94.8	94.8	96.1	95	96.6	95
pH (in situ) (pH)	7.89	8.19	8.19	8.35	8.27	8.164	7.647	7.81	7.691	7.74
Temp (in situ) (Degrees Celcius)	13.7	20	20.8	21.6	20.7	19.0	14.6	15.7	11	5.2

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E207972 : Bootjack Lake North Station B1 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	46	46	52.00000	96.60000	85.91304		10.10865
pH (in situ) (pH)	47	47	6.93000	8.45000	7.82294		0.39454
Temp (in situ) (Degrees Celcius)	33	33	0.38000	22.00000	12.59424		6.13651

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E215897 : Bootjack Lake South Station B2 bottom

	23-May-07	23-Oct-07	21-May-08	27-Oct-08	2-Nov-10	15-Nov-10	25-May-11	1-Nov-11	15-May-12	16-May-12	31-Oct-12
Field Tests											
Cond (in situ) ($\mu\text{s}/\text{cm}$)	57	82	51		61	89.3	64.2	95	80	79	101.2
pH (in situ) (pH)	7.78	7.83	7.35	7.78	7.78	7.86	7.66	7.80	6.81	6.94	7.74
Temp (in situ) (Degrees Celcius)	9.83	7.17	6.46	6.36	6.9		6	5.63	5.46	5.29	5.9

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E215897 : Bootjack Lake South Station B2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	10	10	51.00000	101.00000	75.95000		16.91188
pH (in situ) (pH)	11	11	7.00000	8.00000	7.62182		0.34620
Temp (in situ) (Degrees Celcius)	10	10	5.00000	9.83000	6.43500		1.39179

E215897 : Bootjack Lake South Station B2 surface															
	2-Nov-10	15-Nov-10	25-May-11	20-Jun-11	6-Jul-11	19-Jul-11	8-Aug-11	9-Aug-11	24-Aug-11	7-Sep-11	20-Sep-11	6-Oct-11	1-Nov-11	15-May-12	16-May-12
Field Tests															
Cond (in situ) (µs/cm)	61	88	86	87	88	88	90	90	88	89	90	92	93	79	
pH (in situ) (pH)	7.94	7.40	7.07	7.11	8.4	8.47	8.27	8.27	7.99	8.1	7.55	7.53	7.81		7.33
Temp (in situ) (Degrees Celcius)		7.33	9.5	15.9	16.4	16.9		19.8	17.2	15.8	14.4	10.6	5.9	6.24	

E215897 : Bootjack Lake South Station B2 surface												
	30-May-12	13-Jun-12	16-Jul-12	24-Jul-12	31-Jul-12	8-Aug-12	15-Aug-12	28-Aug-12	12-Sep-12	24-Sep-12	11-Oct-12	31-Oct-12
Field Tests												
Cond (in situ) (µs/cm)	88.1	90	92	92	93	93	94	94.6	95.9	95	95.9	95.2
pH (in situ) (pH)	8.25	7.89	8.07	8.11	8.15	8.34	8.23	8.317	7.801	7.83	7.787	7.74
Temp (in situ) (Degrees Celcius)	13.3	13.6	21.2	20.0	20.9	20.9	20.5	18.7	14.6	15.4	11	5.3

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E215897 : Bootjack Lake South Station B2 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	46	46	51.00000	95.90000	85.51087		10.76536
pH (in situ) (pH)	47	47	7.07000	8.63000	7.87336		0.38166
Temp (in situ) (Degrees Celcius)	35	35	0.29000	21.00000	12.90629		6.02112

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E207974 : Polley Lake North Station P1 bottom

	24-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	2-Nov-10	25-May-11	19-Jul-11	1-Nov-11	8-May-12	1-Nov-12
Field Tests											
Cond (in situ) ($\mu\text{s}/\text{cm}$)	102	173	167	139		141			226	210	221
pH (in situ) (pH)	8.09	7.8	7.33	7.22	7.81	7.4	8.07	7.99	7.61	7.92	7.78
Temp (in situ) (Degrees Celcius)	4.66	5.13	5.55	3.25	6.71	7.53	4.3	11.2	6.27	3.55	5.9

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E207974 : Polley Lake North Station P1 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	8	8	102.00000	226.00000	172.37500		44.29749
pH (in situ) (pH)	11	11	7.22000	8.09000	7.75636		0.31712
Temp (in situ) (Degrees Celcius)	11	11	3.25000	11.20000	5.87273		2.16765

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E207974 : Polley Lake North Station P1 surface

	6-Mar-07	24-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	13-Mar-09	26-Aug-09	13-May-10	24-Jun-10	13-Jul-10	26-Jul-10	12-Aug-10	24-Aug-10	16-Sep-10
Field Tests															
Cond (in situ) ($\mu\text{s}/\text{cm}$)	175	117	181	174	114		114	206	208	199	203	203	205	212	214
pH (in situ) (pH)	8.36	8.18	6.97	8.28	7.57	7.6	7.47	9	8.33	8.19	8.13	8.29	8.29	8.39	8.08
Temp (in situ) (Degrees Celcius)	0.82	9.6	18.25	8.11	4.56	7.87	0.19	17.8							

E207974 : Polley Lake North Station P1 surface															
	2-Nov-10	15-Nov-10	25-May-11	6-Jun-11	21-Jun-11	6-Jul-11	19-Jul-11	8-Aug-11	9-Aug-11	24-Aug-11	7-Sep-11	20-Sep-11	4-Oct-11	1-Nov-11	8-May-12
Field Tests															
Cond (in situ) (µs/cm)	145	212	204	203.7	202	198	197	198	198	194	195	195	156	220	223
pH (in situ) (pH)	7.81	7.39	8.75	9.03	8.16	9.4	9.55	9.4	9.4	9.38	9.4	9.32	8.94	7.03	8.46
Temp (in situ) (Degrees Celcius)		6.7	9.4	12.4	14.1	16.2	18.4		19.7	18.8	17.1	14.8	10.8	6.33	3.22

E207974 : Polley Lake North Station P1 surface												
	30-May-12	13-Jun-12	16-Jul-12	24-Jul-12	31-Jul-12	8-Aug-12	15-Aug-12	28-Aug-12	12-Sep-12	24-Sep-12	10-Oct-12	1-Nov-12
Field Tests												
Cond (in situ) (µs/cm)	198.1	205	205		206	207	209	211	219	212	218	216
pH (in situ) (pH)	9.31	8.87	9.16		9.12	9.13	8.92	8.943	8.86	8.66	8.506	8.004
Temp (in situ) (Degrees Celcius)	11.5	12.3	21.5	20.0	20.7	21.9	19.6	19.2	15.5	15.9	12.1	6.5

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E207974 : Polley Lake North Station P1 surface

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	50	50	114.00000	223.00000	191.03000		27.77973
pH (in situ) (pH)	51	51	6.90000	9.55000	8.45443		0.75501
Temp (in situ) (Degrees Celcius)	37	37	0.19000	22.00000	13.03216		6.08711

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E207975 : Polley Lake South Station P2 bottom

	23-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	2-Nov-10	25-May-11	1-Nov-11	8-May-12	1-Nov-12
Field Tests										
Cond (in situ) ($\mu\text{s}/\text{cm}$)	111	173	167	116		142		234	223	216
pH (in situ) (pH)	8.41	8.38	7.51	7.92	7.44	7.45	7.91	7.41	7.61	8.075
Temp (in situ) (Degrees Celcius)	7.47	5.41	5.77	4.2	5.73	7.57	4	6.22	3.22	5.8

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E207975 : Polley Lake South Station P2 bottom

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	8	8	111.00000	234.00000	172.75000		48.04685
pH (in situ) (pH)	10	10	7.41000	8.41000	7.84300		0.37783
Temp (in situ) (Degrees Celcius)	10	10	3.00000	7.57000	5.53700		1.46228

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E207975 : Polley Lake South Station P2 surface

	6-Mar-07	23-May-07	15-Aug-07	23-Oct-07	21-May-08	28-Oct-08	13-Mar-09	26-Aug-09	13-May-10	8-Jun-10	24-Jun-10	13-Jul-10	26-Jul-10	12-Aug-10	24-Aug-10
Field Tests															
Cond (in situ) (µs/cm)	175	116	184	174	115		126	207	208	201	200	203	204	206	213
pH (in situ) (pH)	7.9	8.05	7.51	8.22	7.96	7.83	7.98	8.94	7.88	7.73	8.25	8.17	8.32	8.25	8.36
Temp (in situ) (Degrees Celcius)	0.74	9.43	20.86	8	4.69	6.79	0.39	18							

E207975 : Polley Lake South Station P2 surface															
	16-Sep-10	2-Nov-10	15-Nov-10	25-May-11	6-Jun-11	21-Jun-11	6-Jul-11	19-Jul-11	8-Aug-11	9-Aug-11	24-Aug-11	7-Sep-11	20-Sep-11	4-Oct-11	1-Nov-11
Field Tests															
Cond (in situ) (µs/cm)	214	144	212	349.5	206.2	200	198	198	197	197	194	195	195	153	220
pH (in situ) (pH)	7.93	7.6	7.38	8.83	9.25	8.18	9.43	9.55	9.42	9.42	9.38	9.39	9.34	9.23	7.40
Temp (in situ) (Degrees Celcius)			6.7	9.7	14.5	14.8	16.9	17.4		18.9	18.6	16.3	14.9	10.7	6.29

E207975 : Polley Lake South Station P2 surface													
	8-May-12	29-May-12	13-Jun-12	16-Jul-12	24-Jul-12	31-Jul-12	8-Aug-12	15-Aug-12	28-Aug-12	12-Sep-12	24-Sep-12	10-Oct-12	1-Nov-12
Field Tests													
Cond (in situ) (µs/cm)	210	206	206	205		206	207	207	211	219	212	219	217
pH (in situ) (pH)	7.87	8.88	8.87	9.18		9.14	9.12	9.02	8.966	8.879	8.7	8.499	7.951
Temp (in situ) (Degrees Celcius)	3.84	13.01	12.4	20.5	20.0	21.3	20.9	19.8	18.7	15.4	15.5	12.0	6.5

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E207975 : Polley Lake South Station P2 surface

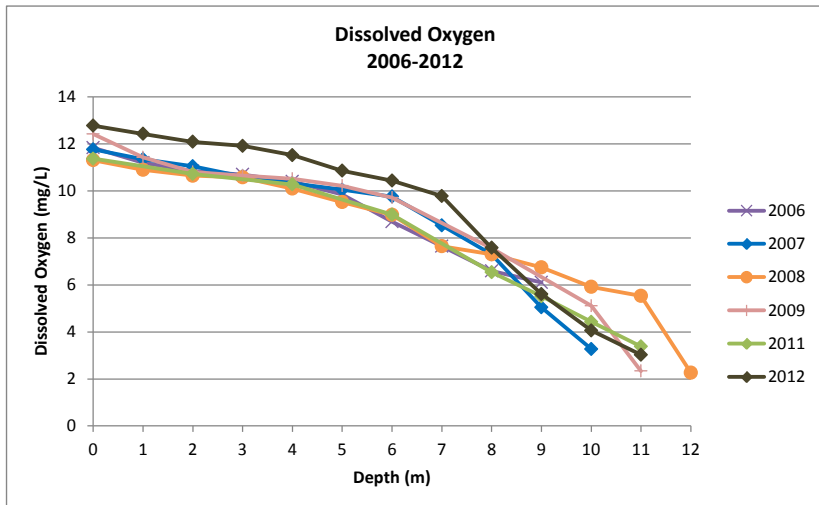
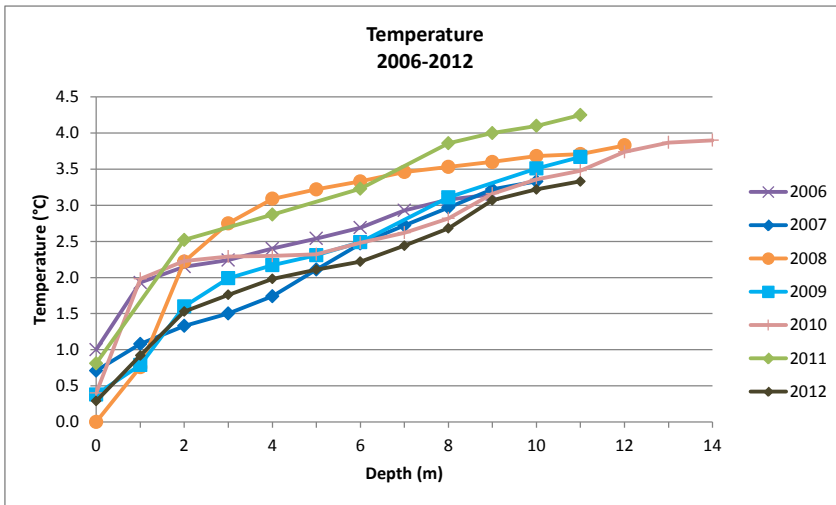
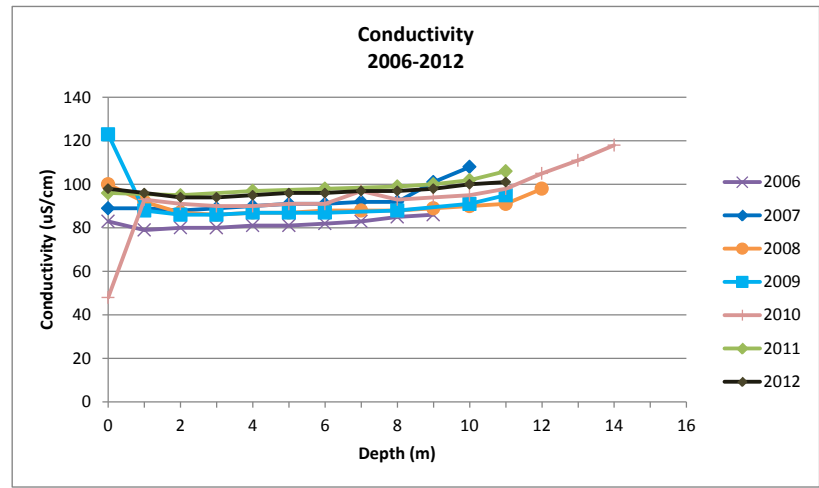
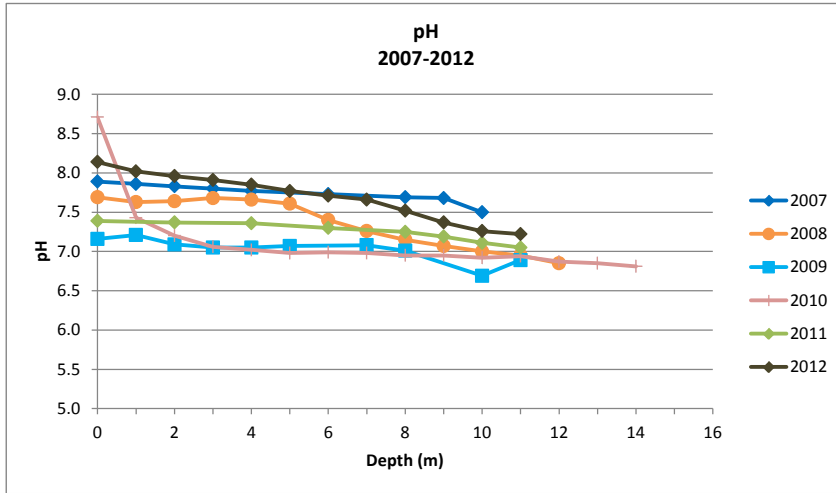
	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Field Tests							
Cond (in situ) ($\mu\text{s}/\text{cm}$)	50	50	64.00000	349.50000	193.33800		39.22125
pH (in situ) (pH)	51	51	7.38000	9.55000	8.47820		0.65755
Temp (in situ) (Degrees Celcius)	37	37	0.39000	21.00000	13.10892		6.00332

**Bootjack Lake B1 Conductivity ($\mu\text{S}/\text{cm}$) Profiles
(2005 - 2012)**

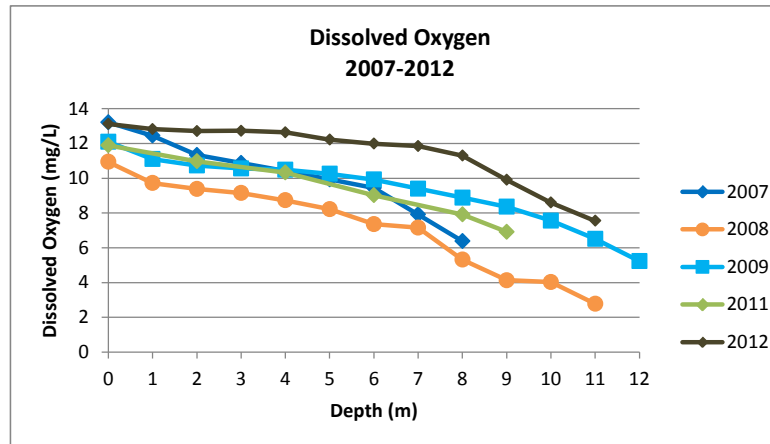
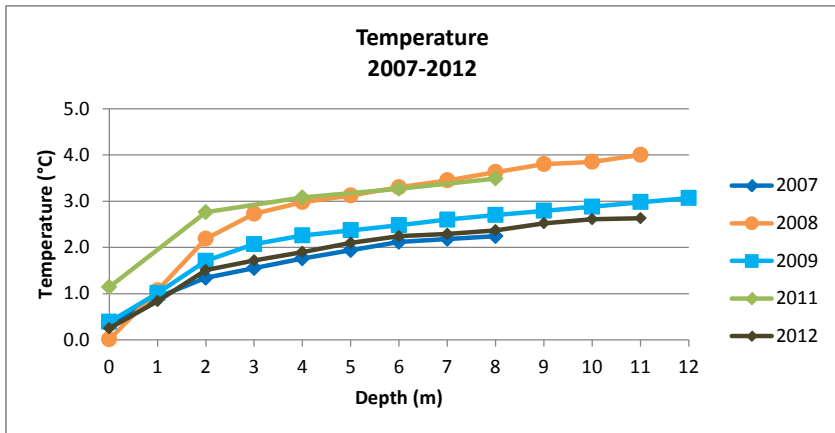
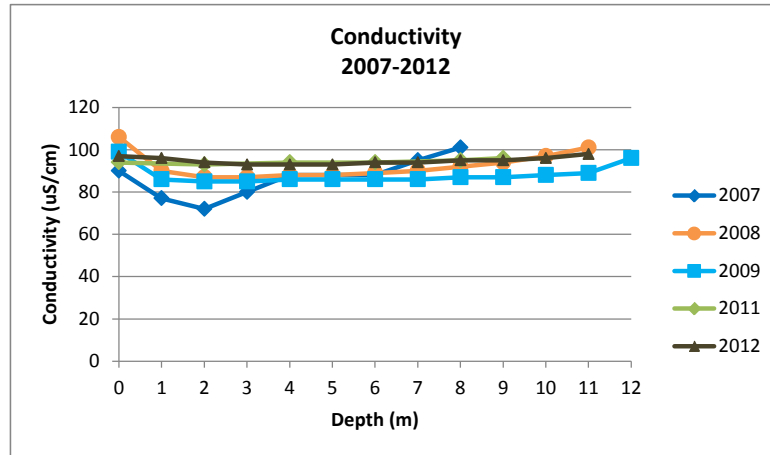
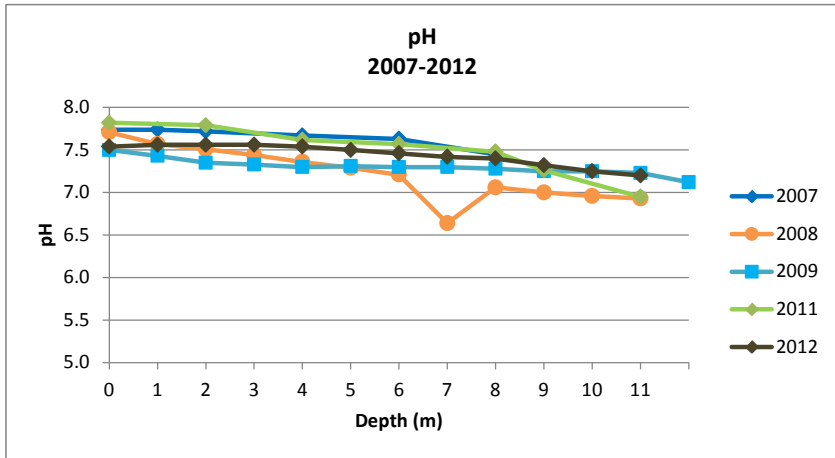
Depth (m)	SPRING							FALL						WINTER						
	23-May-06	23-May-07	21-May-08	21-May-09	26-Apr-10	25-May-11	16-May-12	10-Nov-05	31-Oct-06	23-Oct-07	27-Oct-08	2-Nov-10	1-Nov-11	14-Mar-06	6-Mar-07	1-Apr-08	13-Mar-09	2-Mar-10	8-Mar-11	6-Mar-12
0		58	80	82	87	67	79		85	83	86	60	95			100	123	48	96	98
1	80	58	80	82	87	66.2	79	79		83	86	60	95	83	89	92	88	93		96
2	80	57	80	82	87	65.8	79	79	84	83	85.7	60	95	79	89	87	86	91	95	94
3	80	56	80	82	87	65.6	79	79		83	86		95	80	88	86	86	90		94
4	80	54	80	82	87	65	79	80		83	86	60		80	89	87	87	90	97	95
5	80	54	80	82	87	64.3		80		83	86	60	95	81	90	87	87	91		96
6	80	53	80	82	87	64.1	79	80	84	83	86	60		81	91	88	87	91	98	96
7	80	54	85	82	87	65.6		80		83	86		95	82	91	88		97		97
8	79	52	88	82	87		79	79		83	86	60		83	92	88	88	93	99	97
9	79	52	90	83	87			80			86	61	95	85	92	89		94	100	98
10	79	51	91	83	87		79	80	84		85.2		95	86	101	90	91	95	102	100
11			96	83				80			103		95		108	91	95	98	106	101
12				82			79	90					95			98				
13																			111	
14							79												118	
15							79													
16							79													

Note: The conductivity meter was broken during the fall sampling session and a reading was not available.

MPMC Bootjack Lake B1 Winter Lake Profiles



MPMC
Bootjack Lake B2 Winter Lake Profiles



**Polley Lake P1 Conductivity ($\mu\text{s}/\text{cm}$) Profiles
(2005 - 2012)**

Depth (m)	SPRING							SUMMER							WINTER				
	18-May-06	24-May-07	21-May-08	20-May-09	26-Apr-10	6-Jun-11	8-May-12	11-Aug-06	26-Oct-05	31-Oct-06	23-Oct-07	28-Oct-08	2-Nov-10	1-Nov-11	6-Mar-07	1-Apr-08	13-Mar-09	9-Mar-11	06-Mar-12
0		117	188	197	206	203.7	204	159		164	174	199	145	220		198	212		224
1	157	114	186	197	206	200.2	204	159	153	163	174	199	145	220	175	193	207		220
2	157	113	186	197	206	198.3	204		153	163		233	145	220	172	189	203		218
3	157	111	186	197	206	195.5	206	159	153	163	174	228		220	171	186	201	215	217
4	156	110	187	197	206	192.9	207		153	163		235	145	220	170	185	200	216	216
5	156	108	186	197	206	190.3	207	159	153	163	174	234		220		186	199		216
6	155		186	197	206	186.8	207		153	163		234	145	220	170	186		215	216
7	156	107	186	197		183.8	207	159	153	163		233				187	198		
8	156		186	197	206		207	160	153	164	174	233	145	220	171	188		214	215
9	156	107	186	197		179	207	158	153	164		232				188	198		
10	156		186	198	206		207	157	153	164		231	145	220	170	189		213	215
11		106	186	198		176.6	207	156	153	164	174	231				190	197		
12	156			199	207		207	156	153	164		231	145	220	170	191		213	215
13		106	186	200		174.2	207	157	152	164		231				191	198		
14	156			200	207		208	157	152	164	174	230	145	220	171	190		213	216
15		104	186	200		172.4	208	157	152	163		230				191	198		
16	156			201	207		208	157		163		229	145	220	172	191		214	216
17		104	186	202		170.9	208	157	151	163	174	229				191	198		
18	156			203	208		209			167		230	145	220	173	191			216
19		104	186	203		169.5	208	157	151	170		230				191	198	216	
20	156			204	207		208			167	167	230	144	220	174	190		216	216
21		103	186	205		168.1	208	157	151	163		229				191	198		
22	157			205	207		208			163	167	230	143	220	177	191		216	216
23		103	188			167.5	208	158	151	163		230				191	198		
24	157			208	208		208			163	167	230	142	220	177	191		216	216
25		103	191			166.2	209	158	151	163		230				190	200		
26	157	103		209	207	165.2	209			163	167	230	141	220		191		217	216
27		103	195			164.4	209	158	151	163		230				192	200	218	
28	157	104		210	208	163.8	209			163		230		220		194		218	217
29		102	207			163.7	209	158	151	162		230		220		194	201	218	
30	157	102	209	211	208		210		151					220		194	202		217
31			210											220		195			
32	157		212											220					226
33			216											220					
34	157		237											220					254
35			275											226					
36	157																		

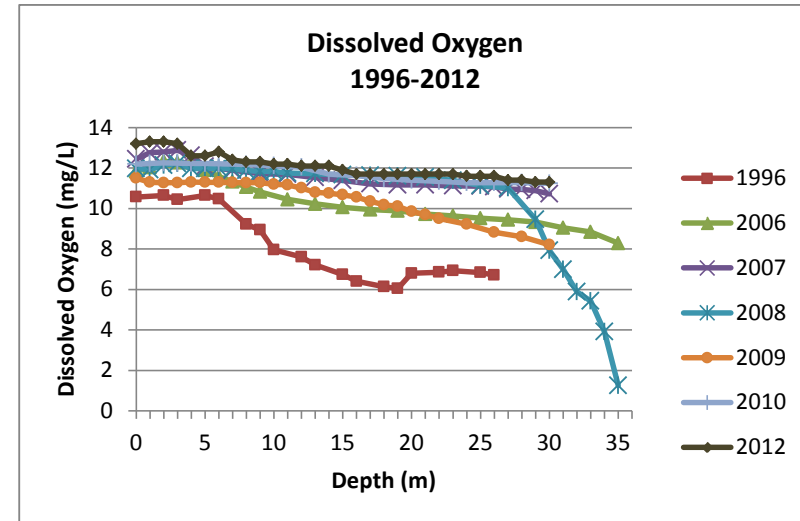
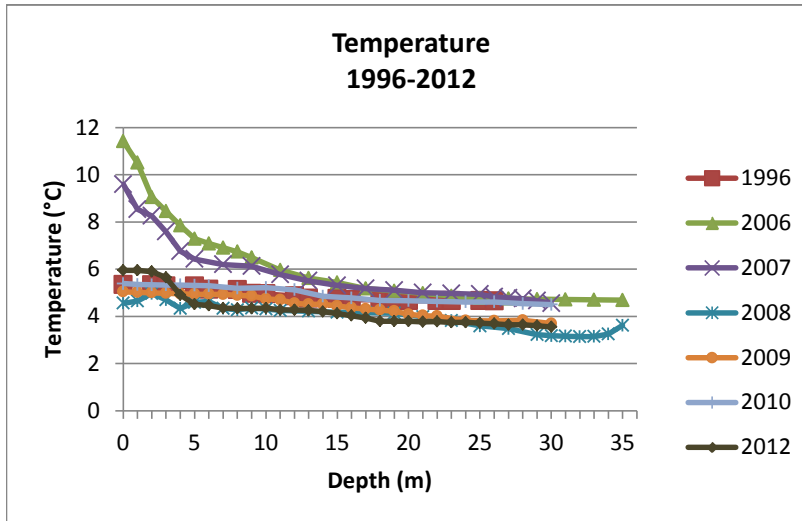
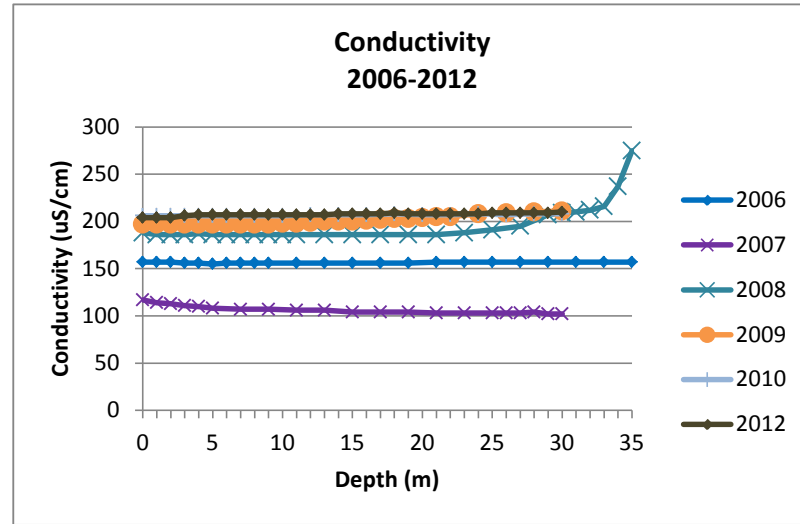
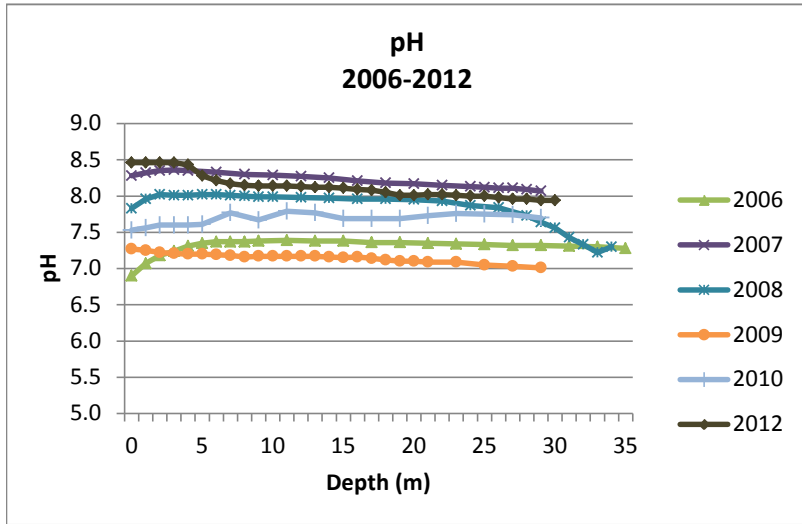
Note: The conductivity meter was broken during the fall sampling session and a reading was not available.

**Polley Lake P2 Conductivity ($\mu\text{s}/\text{cm}$) Profiles
(2005 - 2012)**

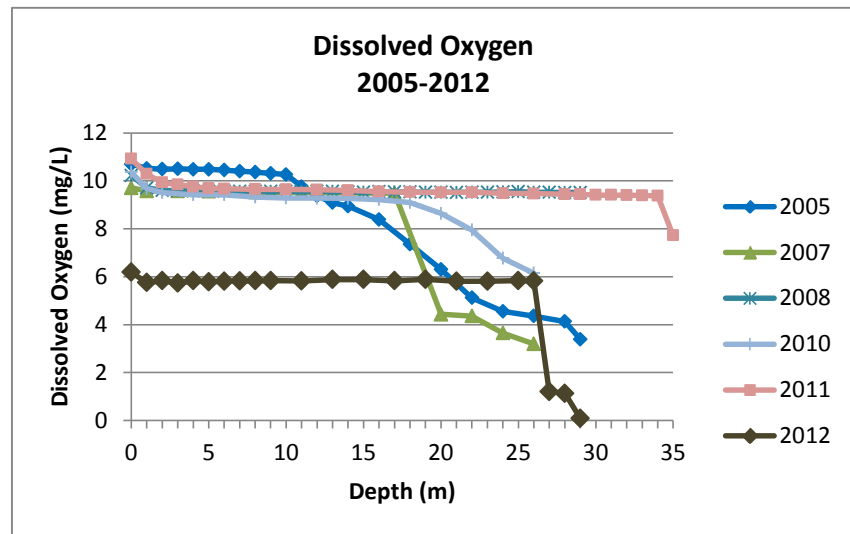
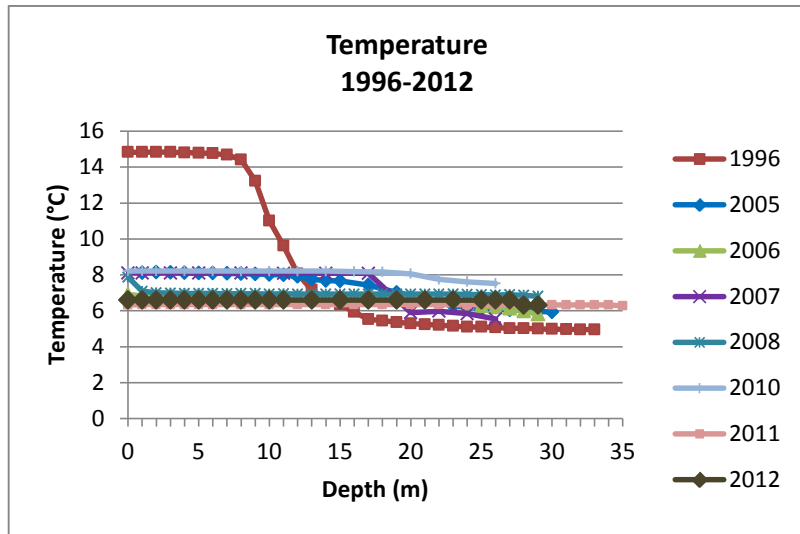
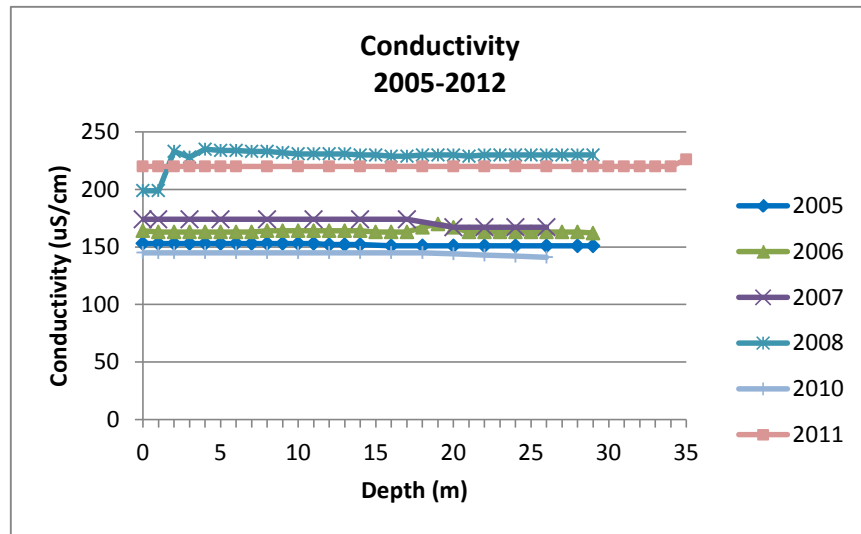
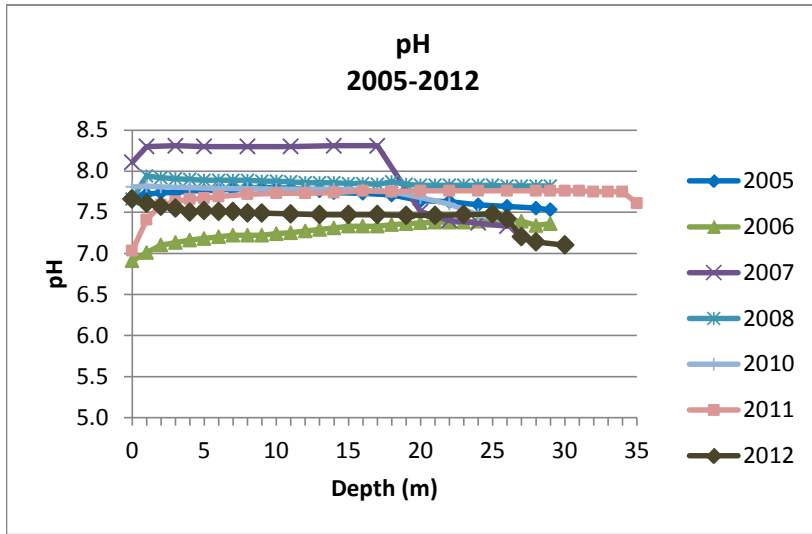
Depth (m)	SPRING							FALL						WINTER								
	18-May-06	23-May-07	21-May-08	20-May-09	26-Apr-10	6-Jun-11	8-May-12	26-Oct-05	31-Oct-06	23-Oct-07	28-Oct-08	2-Nov-10	1-Nov-11	13-Mar-06	6-Mar-07	1-Apr-08	13-Mar-09	2-Mar-10	9-Mar-11	6-Mar-12		
0		116	188	193		206.2	210		164	174	197	144	220		155	175	248	237	282	78	224	
1	156	116	188	193		204.3	210	153		175	197	144	219		155	175	189	205	211		219	
2	157	116	188	193		201.2	210	153	164	174	197	144	219		155	172	185	202	214	148	217	
3	156		188	193		199.7	210	153			197	145	219		154	170	185	201	214		216	
4	155	115	188	193		198.2	210	153		174	197	145	219		154	169	186	200	214	159	216	
5	155			193		196.9	210	153	164		197		219		154	169	186	200	214		216	
6	155	114	188	194	208	195.5	210	153		175	197	145	219		154	169	188		218	213	215	
7	156			194	208	187	210	153	164		197				154	169	188	200	214			
8	156	114	188	194	208	182.1	210	153		174	197	144	219		154		188		214	216	215	
9	156			194	208		210	153			197				154	169	188	200	214			
10	156	113	188	194	208	177.2	210	153	164		197	144	219		154		188		214	216	216	
11	156						210	153		174	197				154	168	187	201	214			
12	156	112	189	194	208	173.3	210	153			197	144	219		155		187		214	216	216	
13							210	153			197	144				168	187	200	214			
14	156	112	189	194	209	171.3	210			174	197	144	219		157		187		214	216	216	
15							210		161		197					169	187	200	214	216	216	
16	156	113	189	194	209	169.5	210				197	143	219		157		187		214	217	216	
17							210				168	197				170	187	200	214			
18	156	111	189	194	209	167.9	210				197	144	219		157		187		214	217	216	
19							210				196					173	187	200	214			
20	156	111	189	194	209	166.6	210		161	167	196	143	219		157		189		215	217	217	
21							210				195					178	189	200	215			
22	157			190	195	209	165.4	210			167	195	143	219		158		188		214	218	217
23							164.5	210			195						188	200	214			
24	156			191	195	209	163.8	211			167	195	143	219		208		188		214	219	218
25							165.6	211			195						188	200		224	229	
26			193	197	209		211				196	142	219									
27							212															
28							216						219									
29				198			220						234									
30							223															

Note: The conductivity meter was broken during the fall sampling session and a reading was not available.

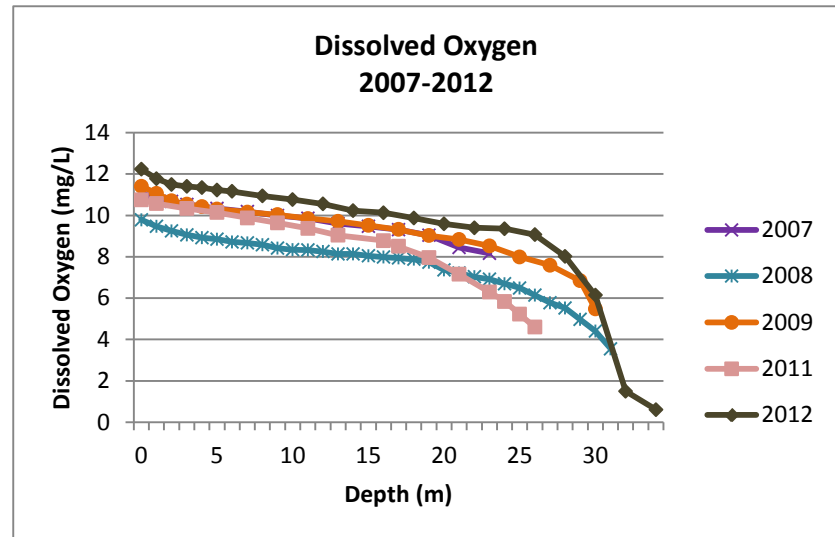
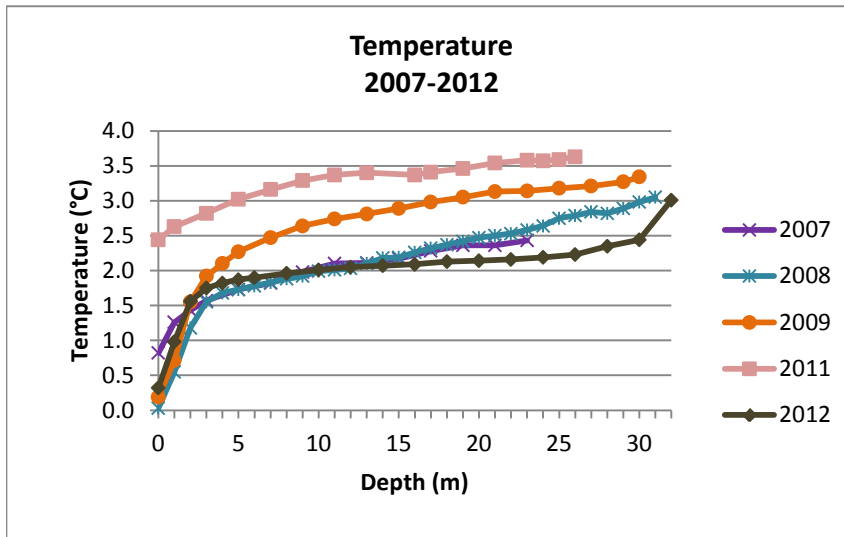
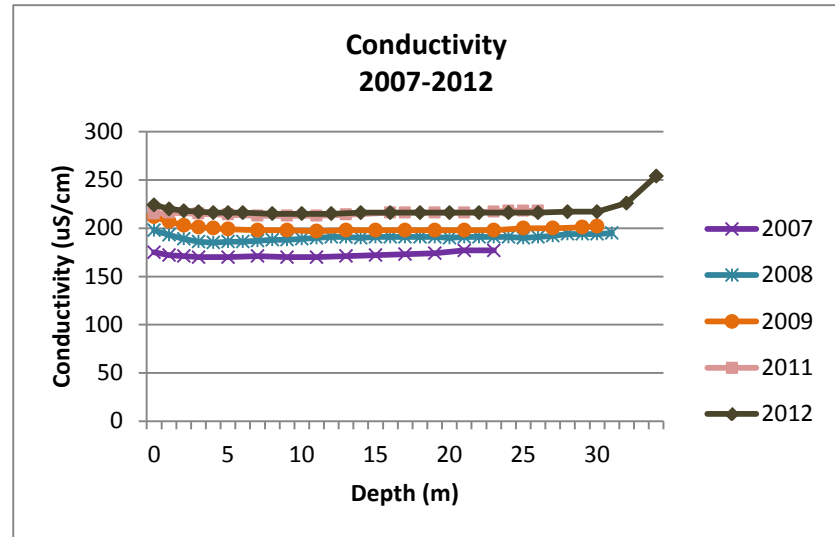
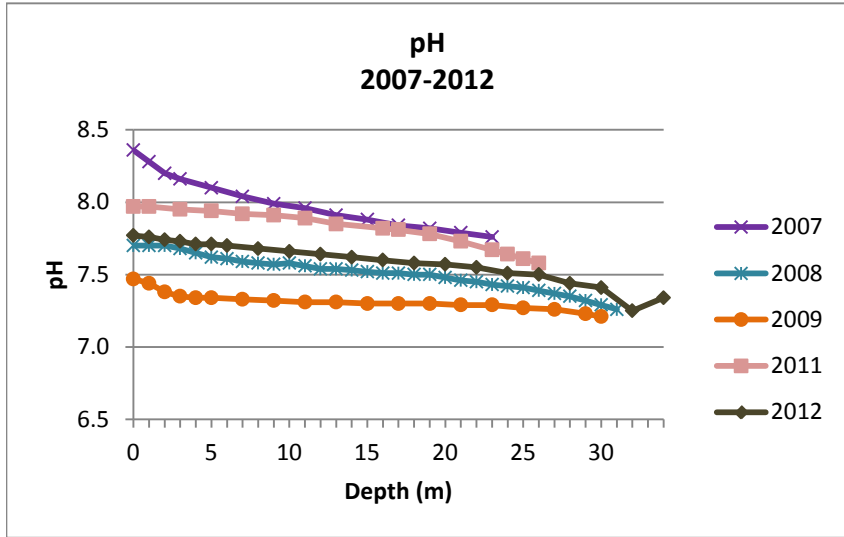
MPMC
Polley Lake P1 Spring Lake Profiles



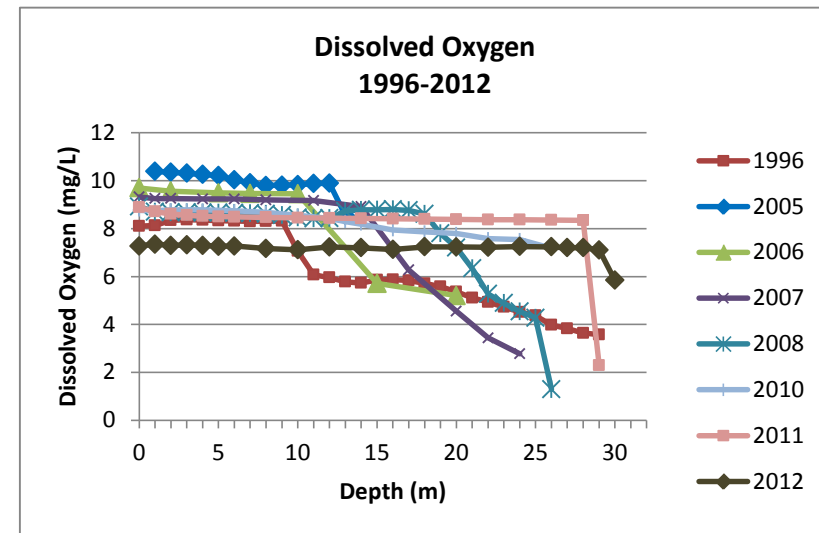
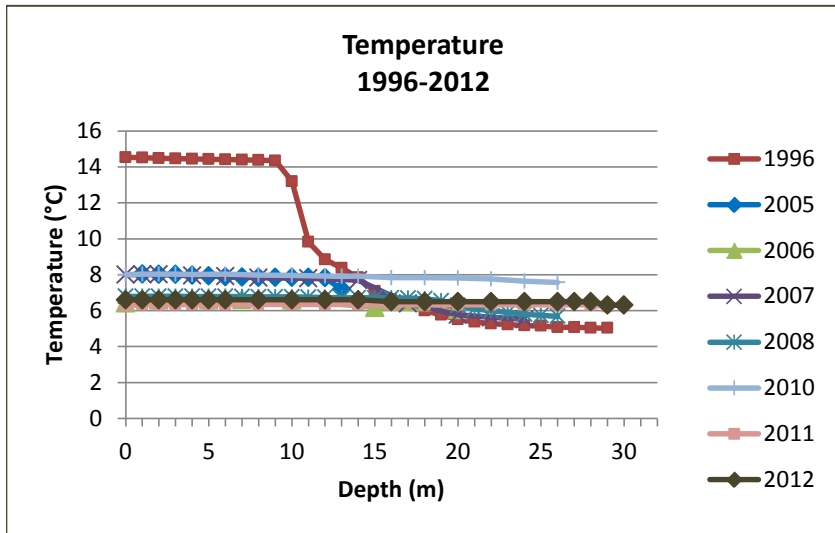
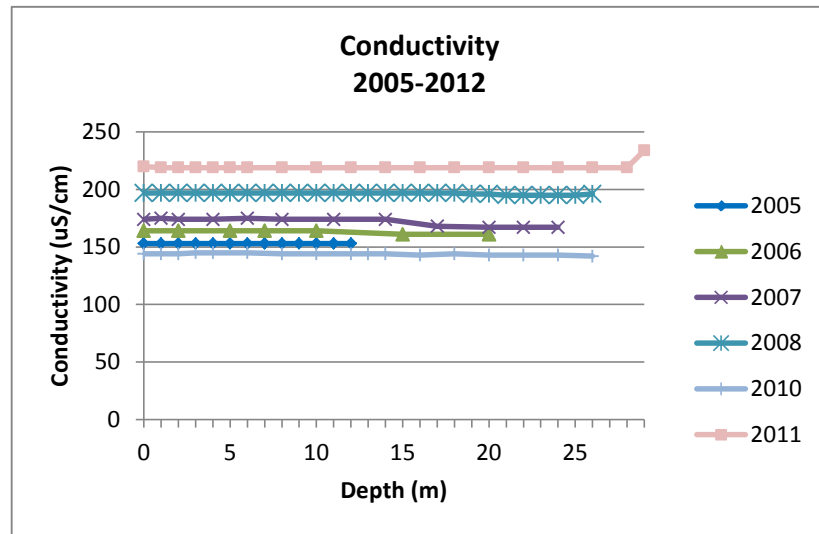
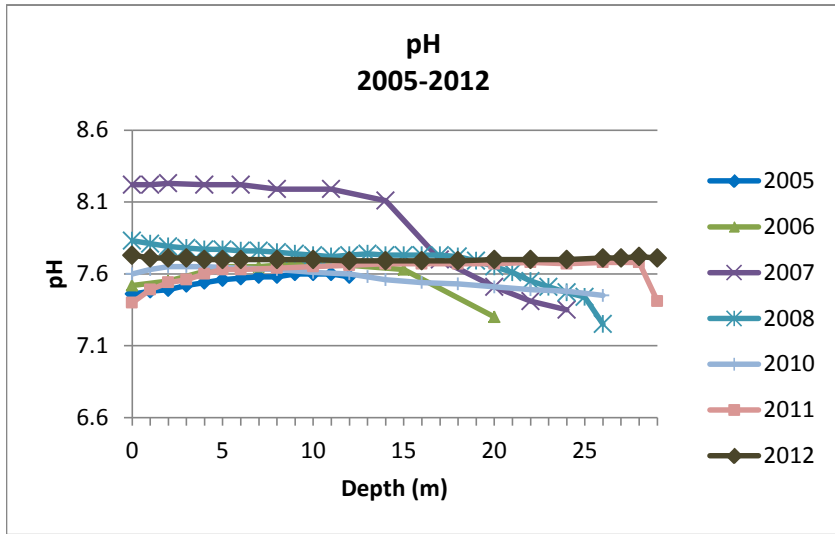
MPMC
Polley Lake P1 Fall Lake Profiles



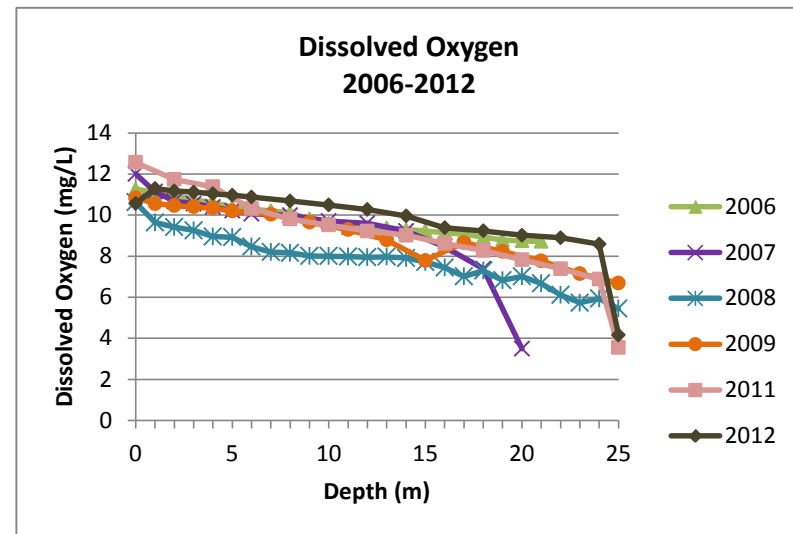
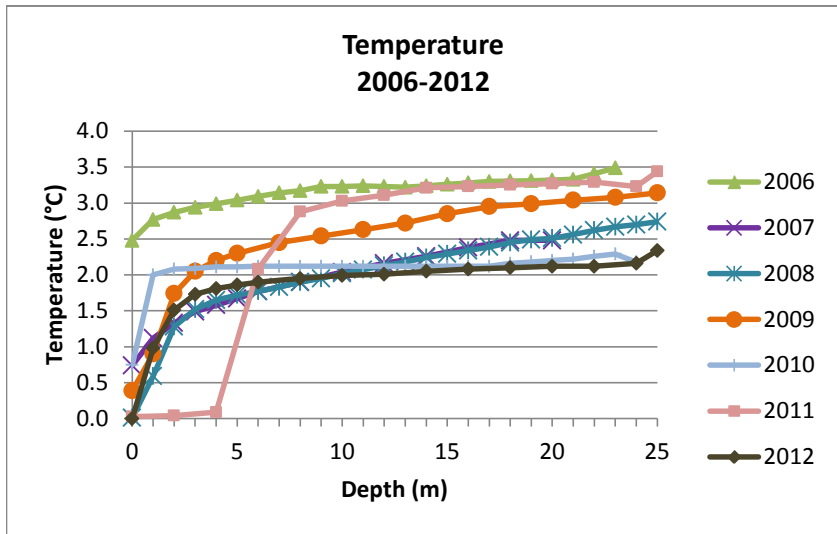
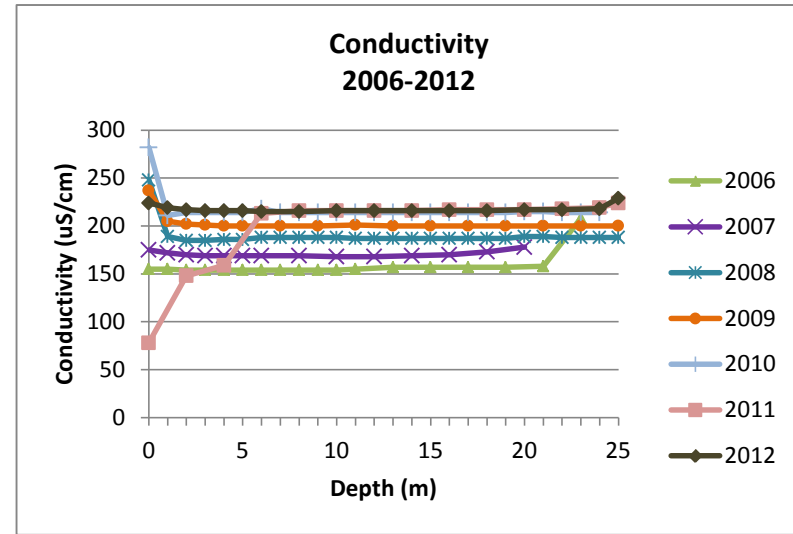
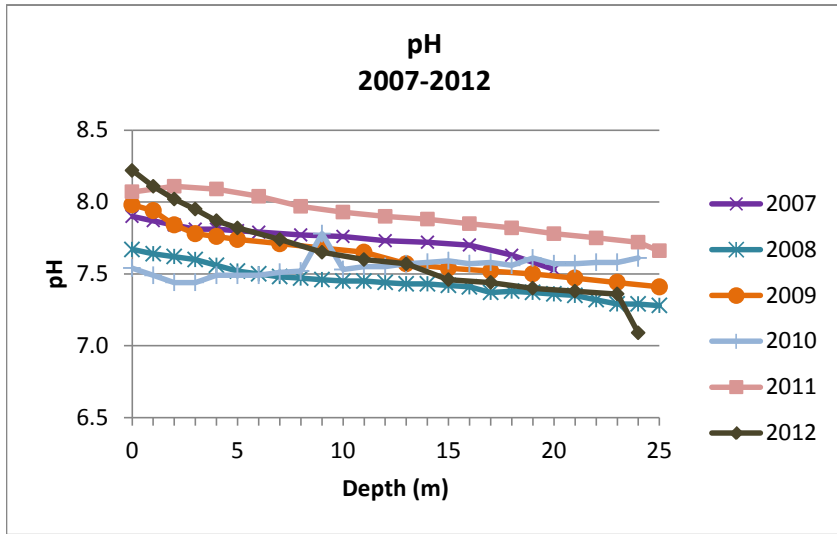
MPMC
Polley Lake P1 Winter Lake Profiles



MPMC
Polley Lake P2 Fall Lake Profiles



MPMC
Polley Lake P2 Winter Lake Profiles



Average Monthly Secchi Disk Reading Depths at Polley and Bootjack Lakes

