

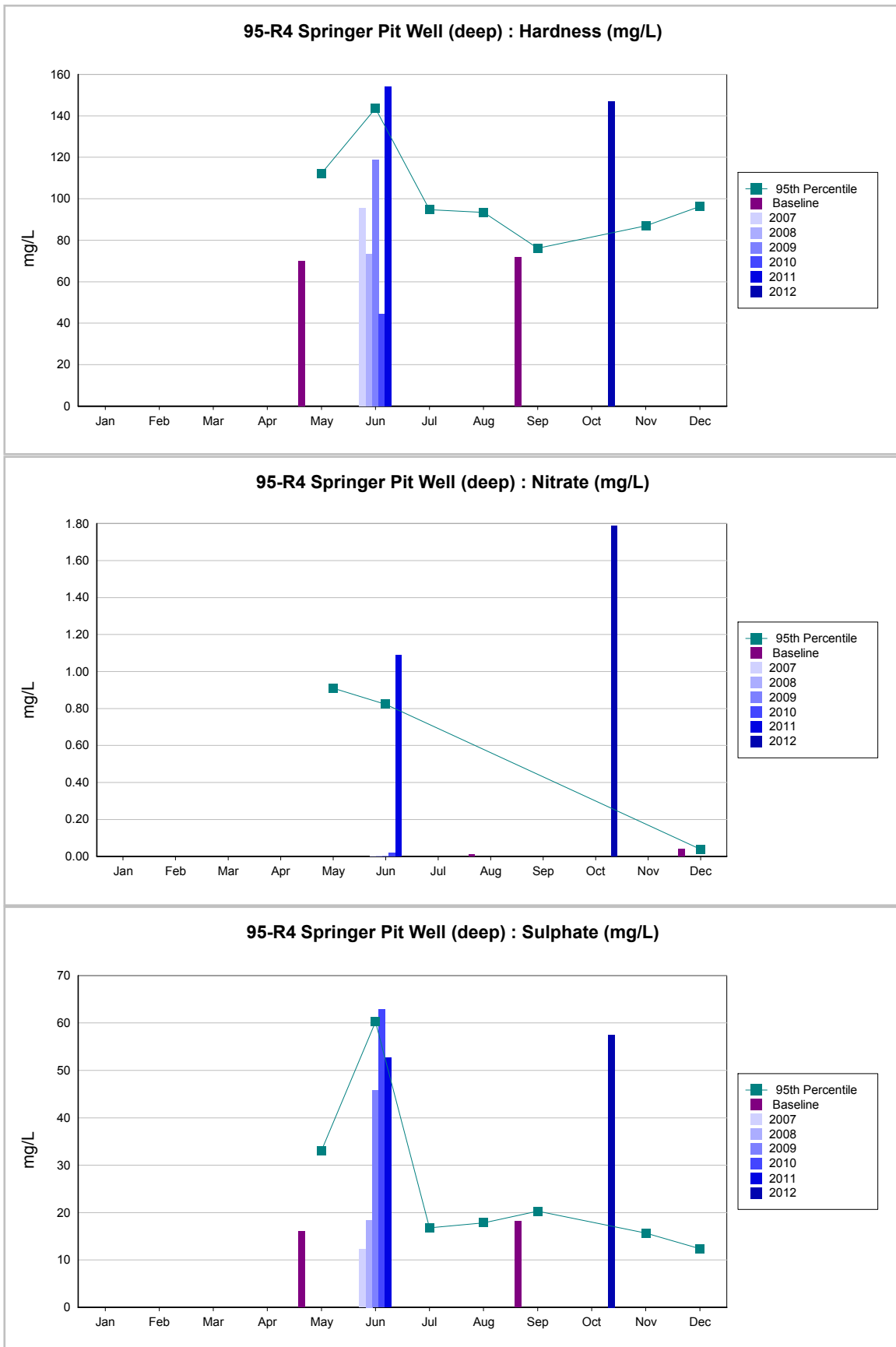
Water Quality Report



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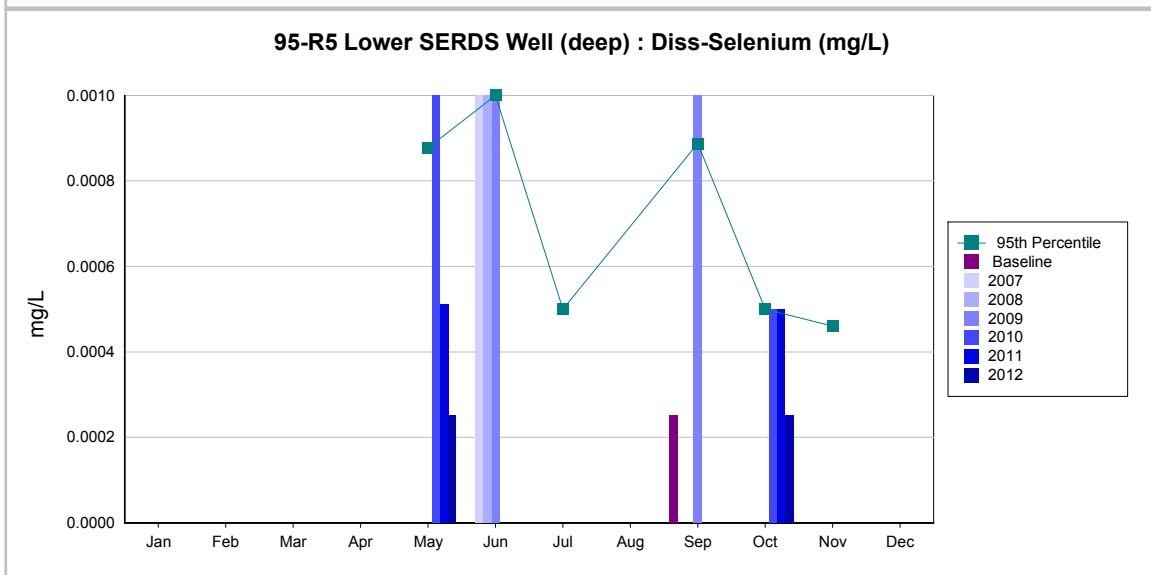
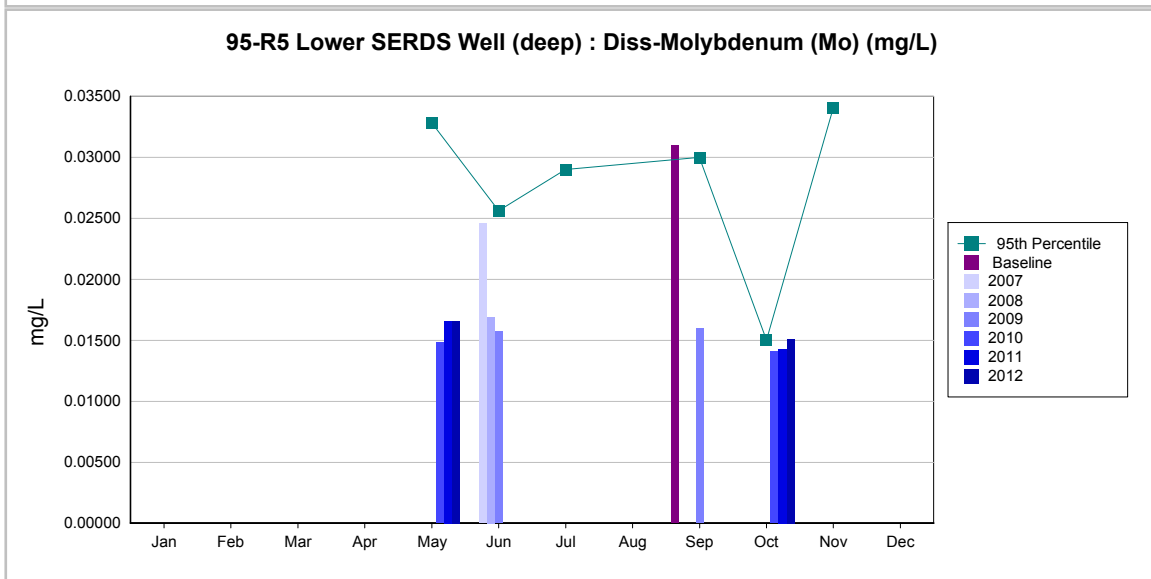
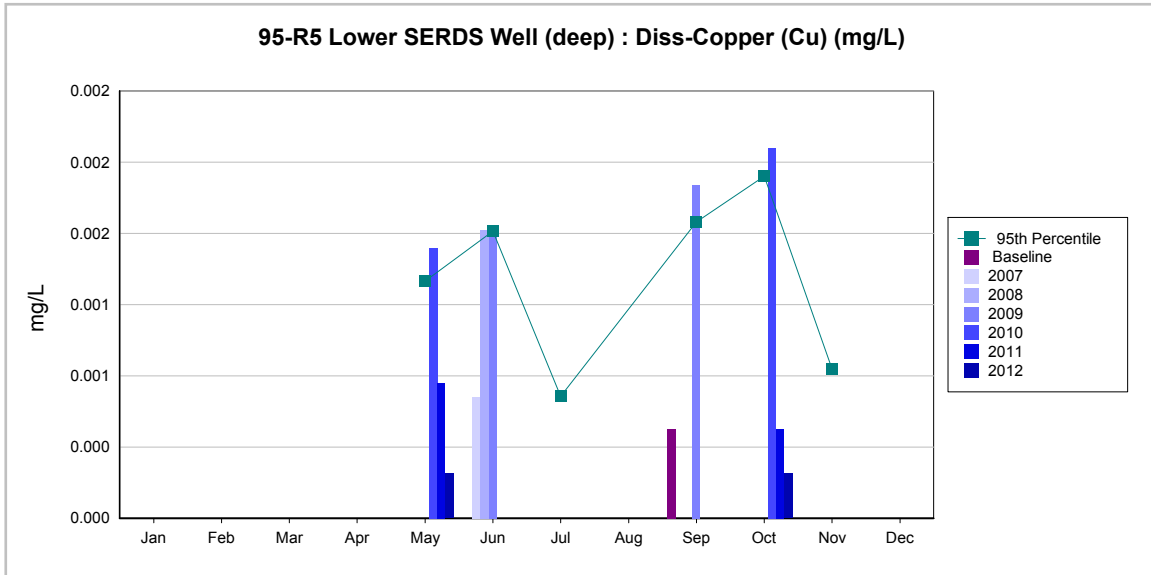
Water Quality Report



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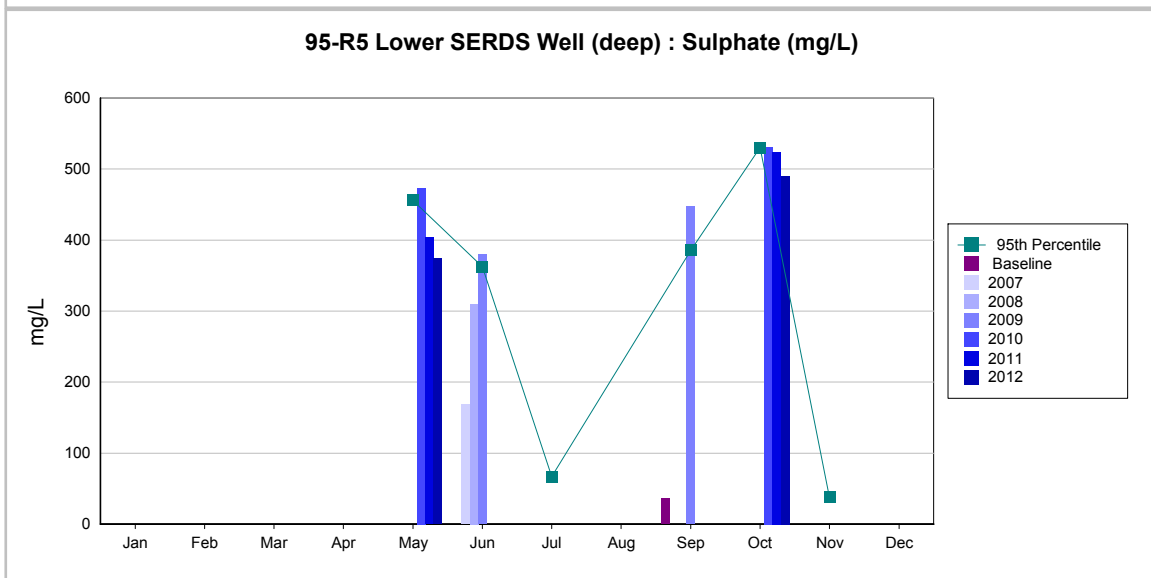
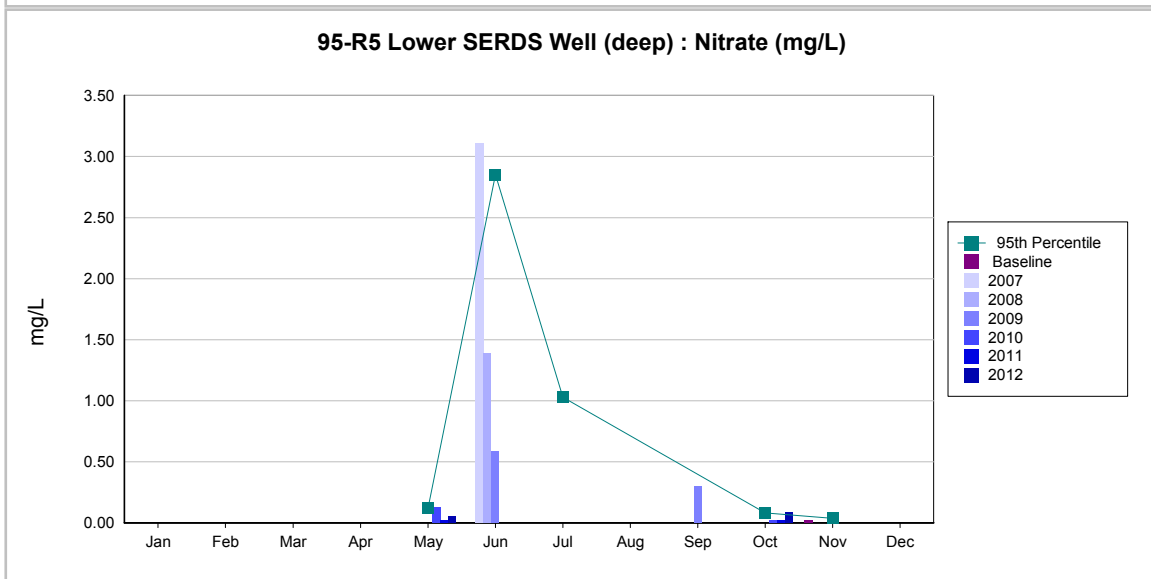
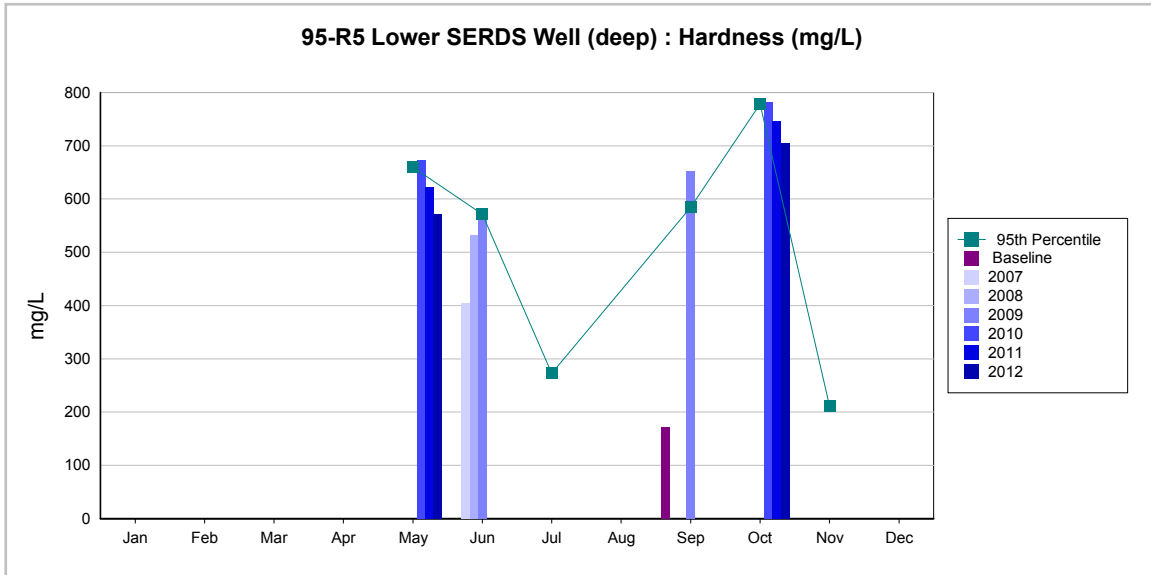
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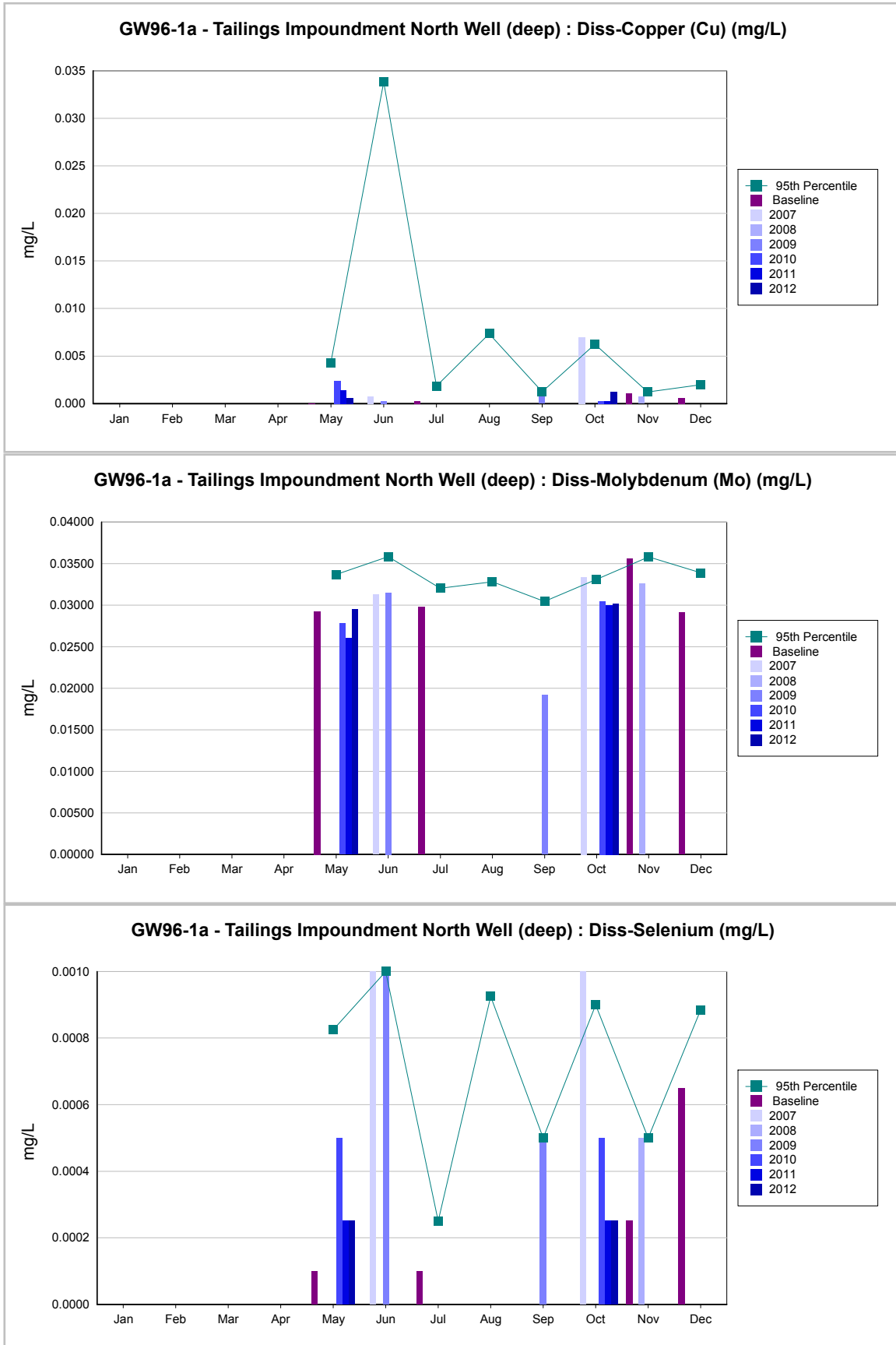
Water Quality Report

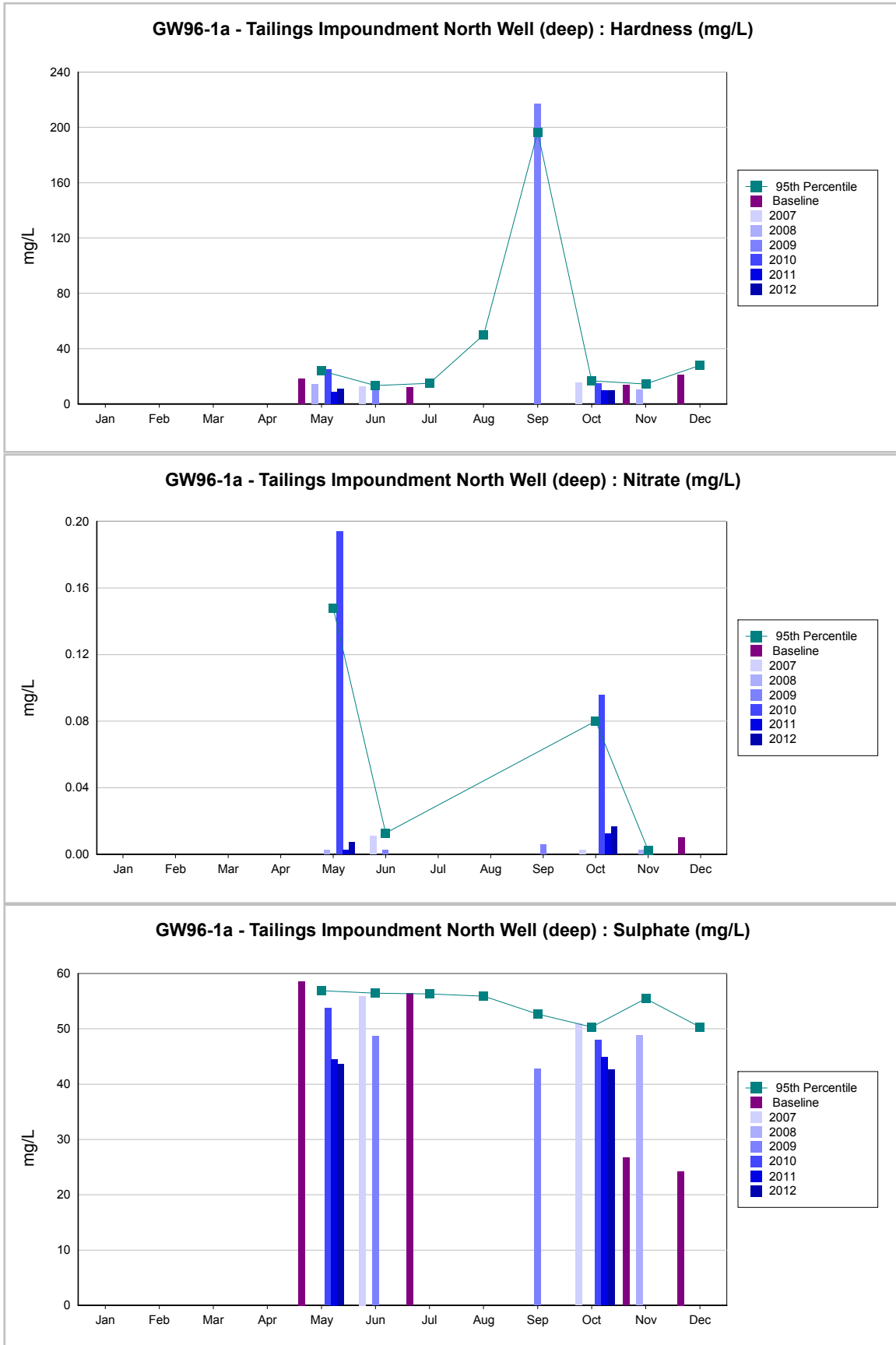


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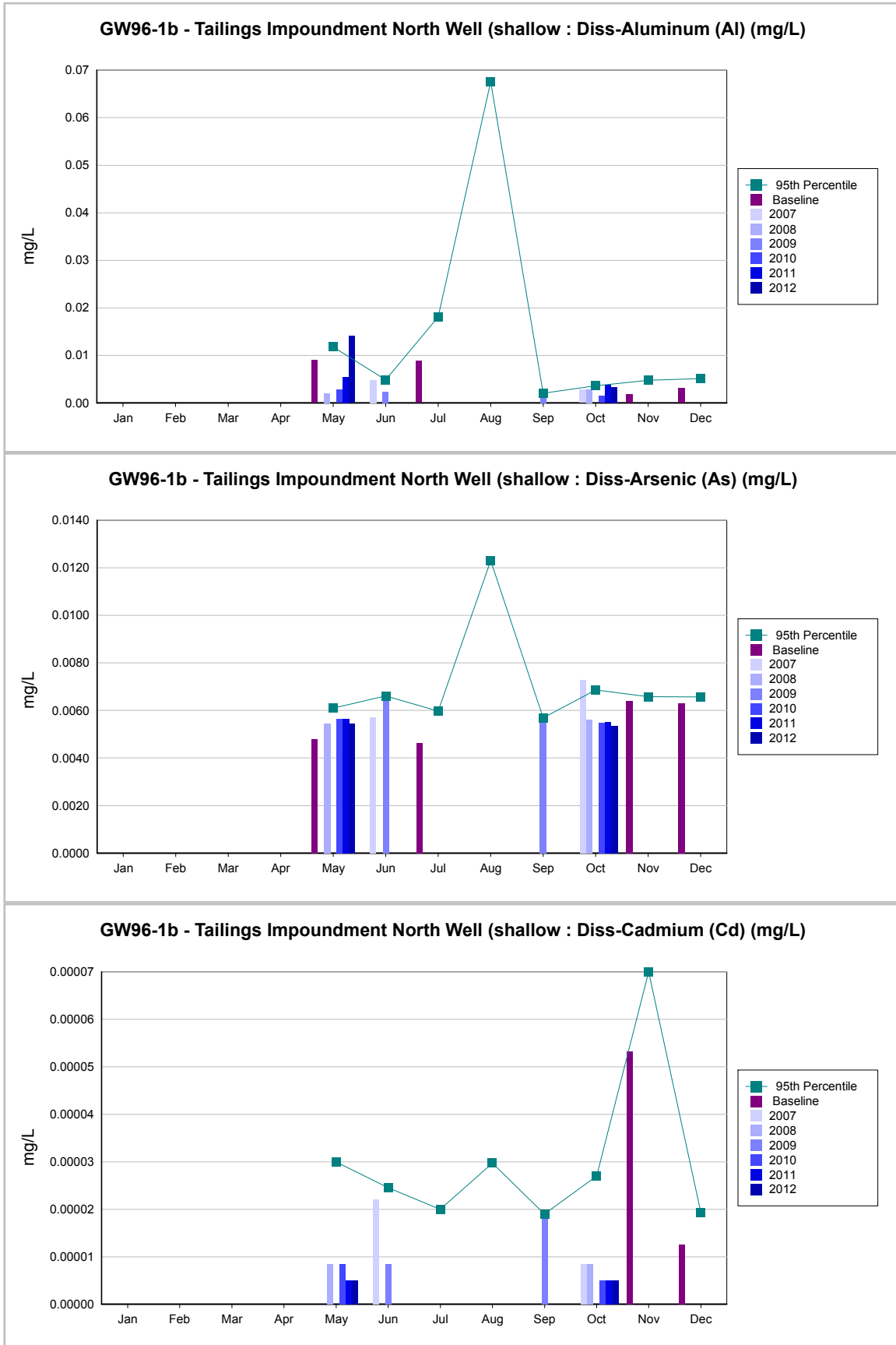
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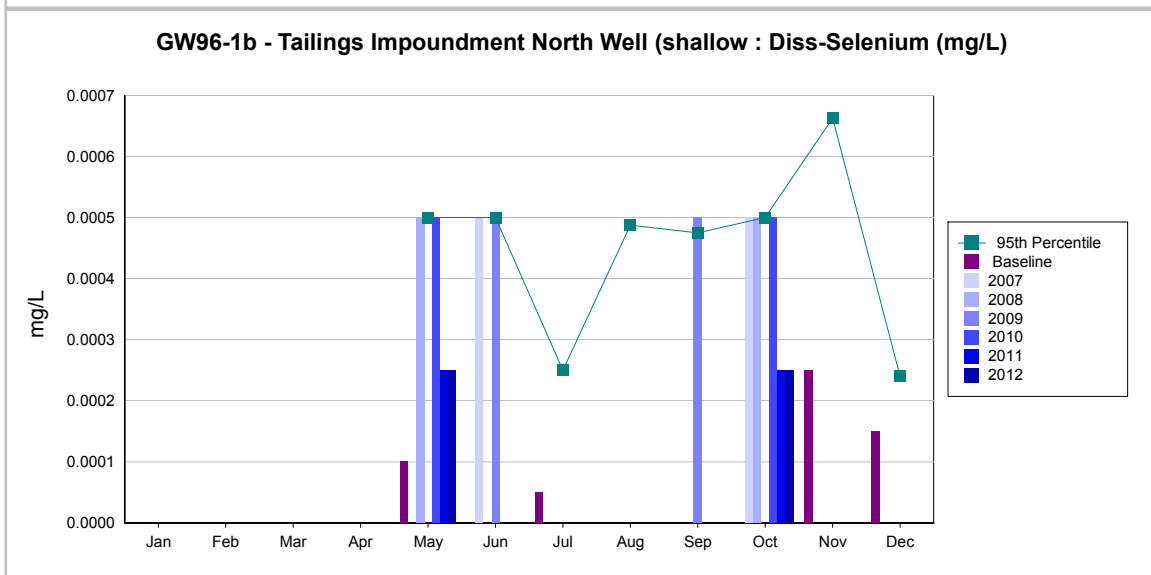
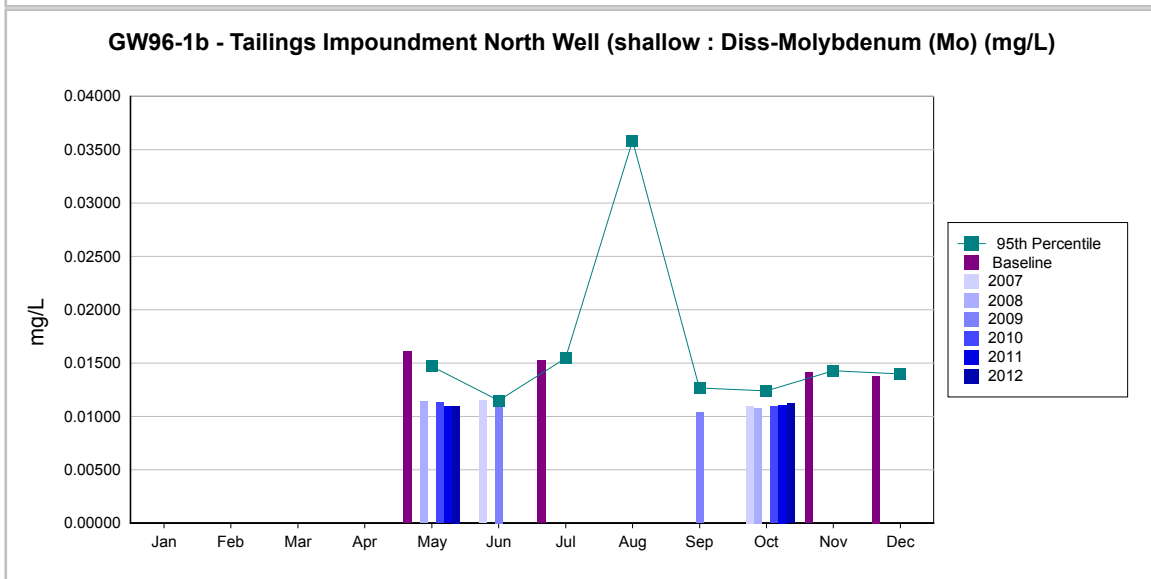
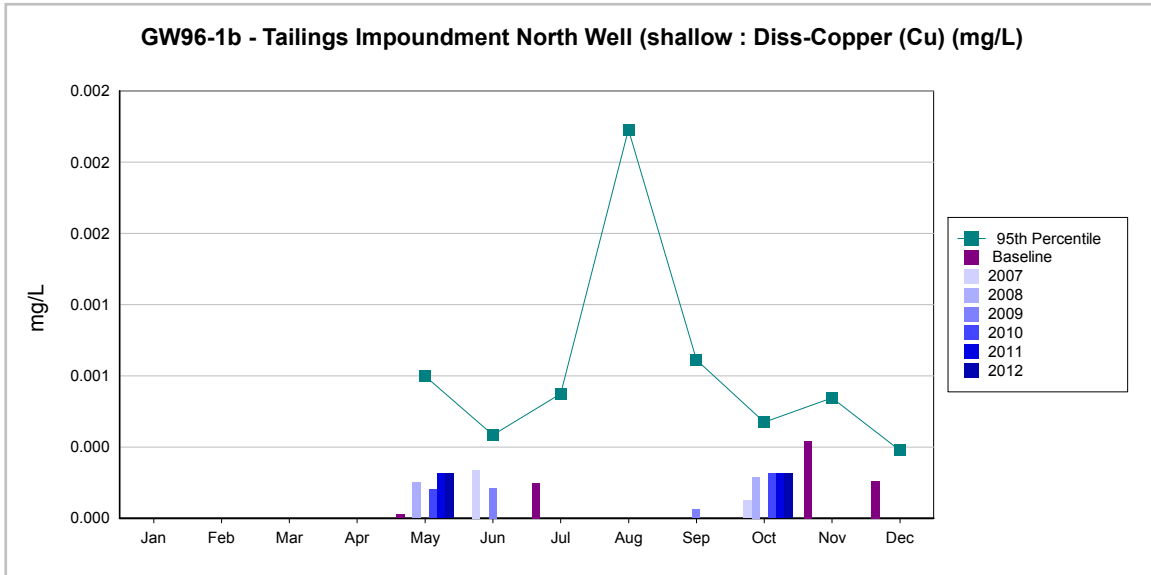
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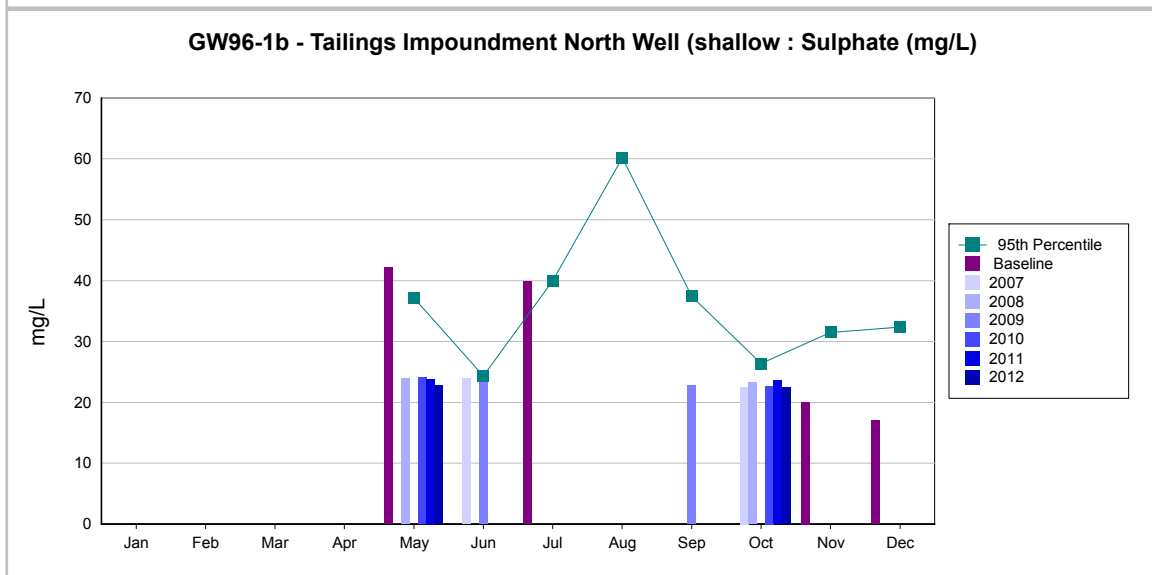
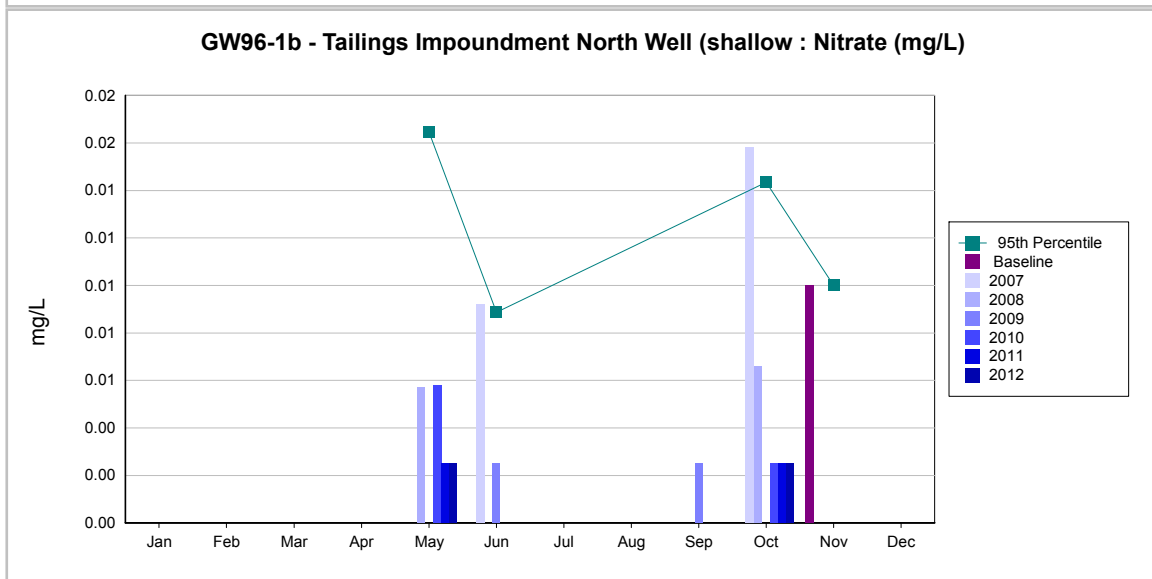
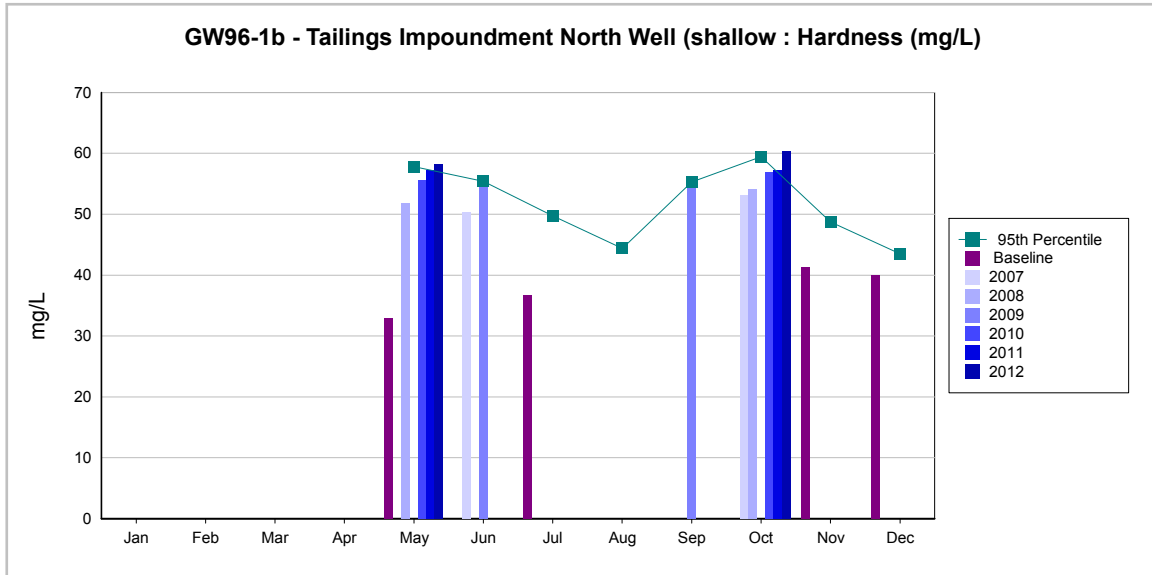
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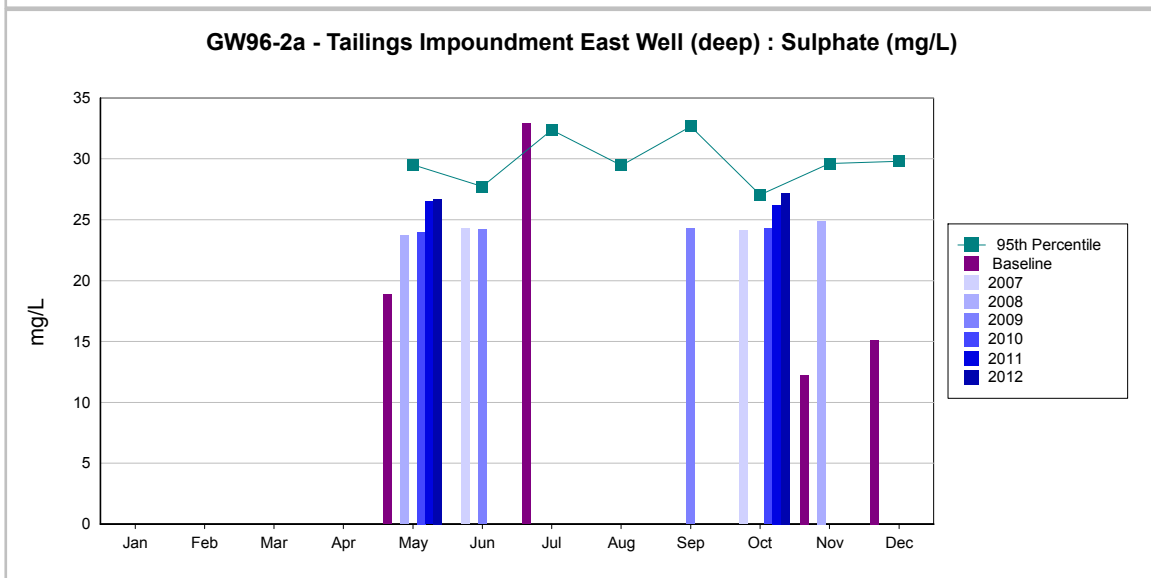
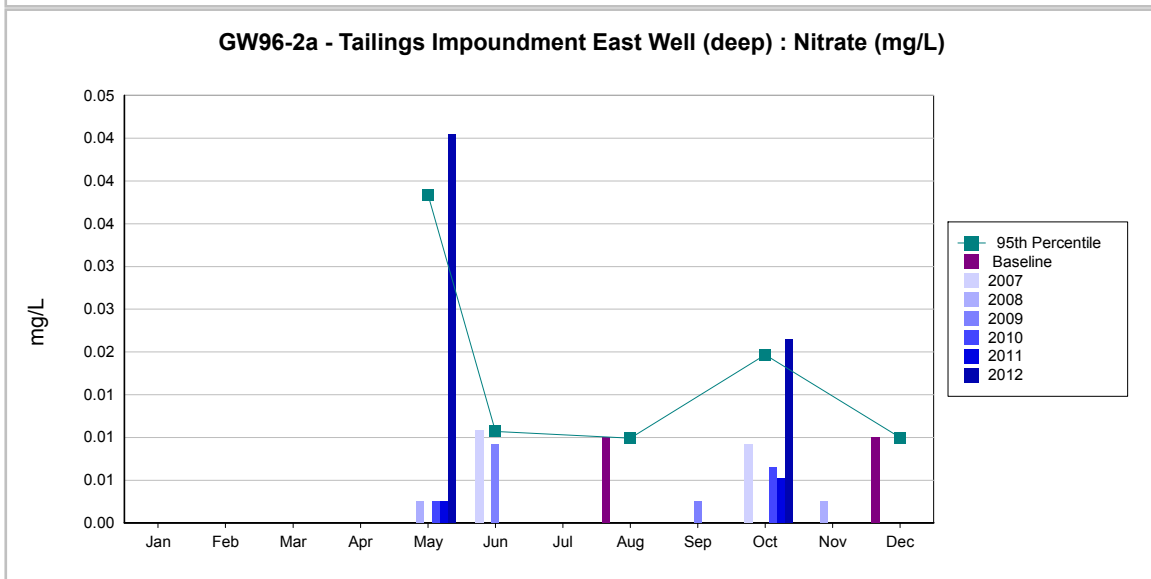
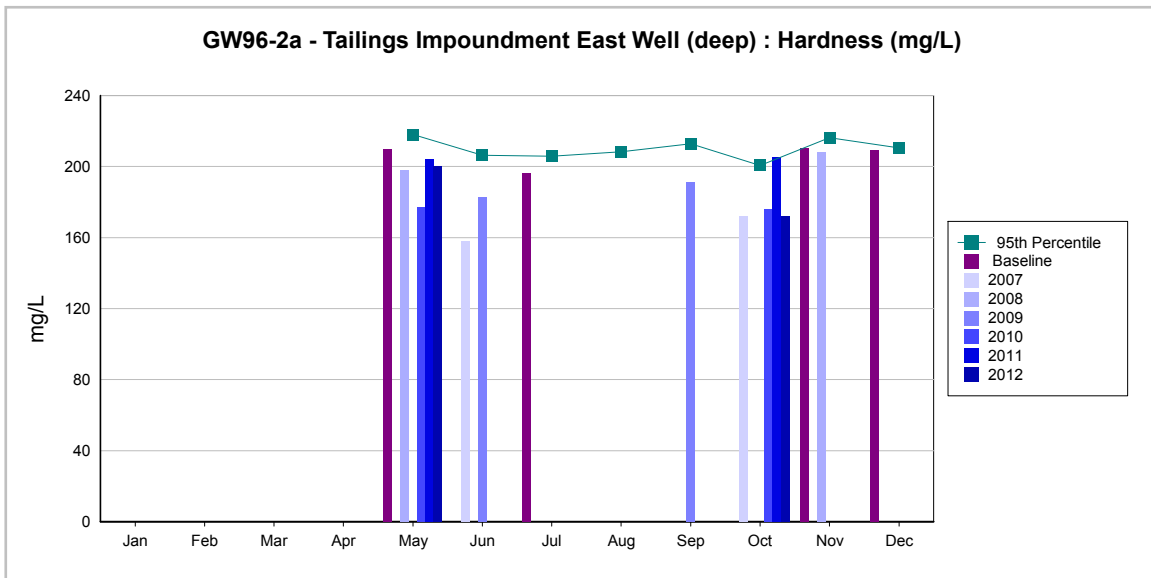
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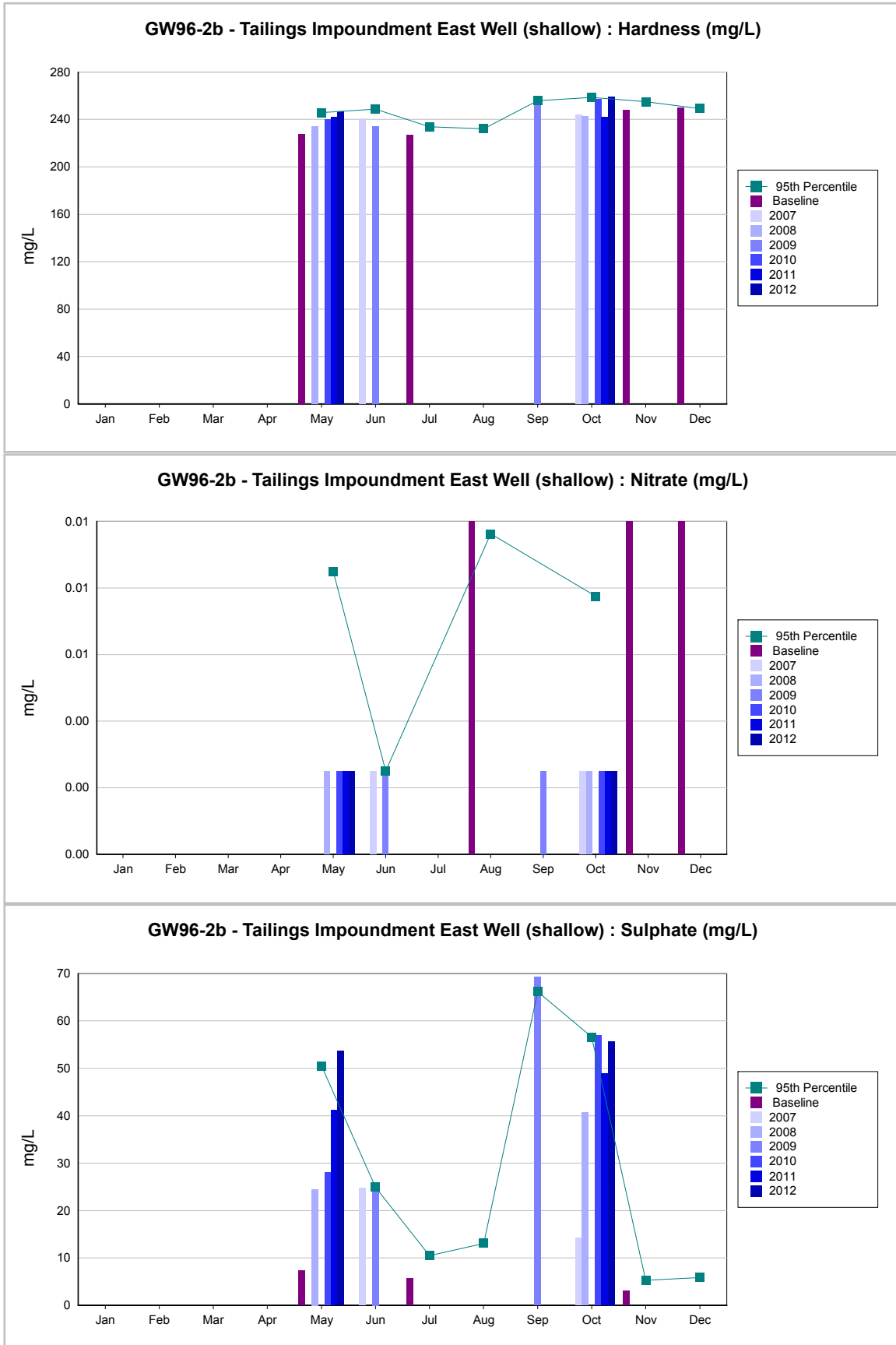


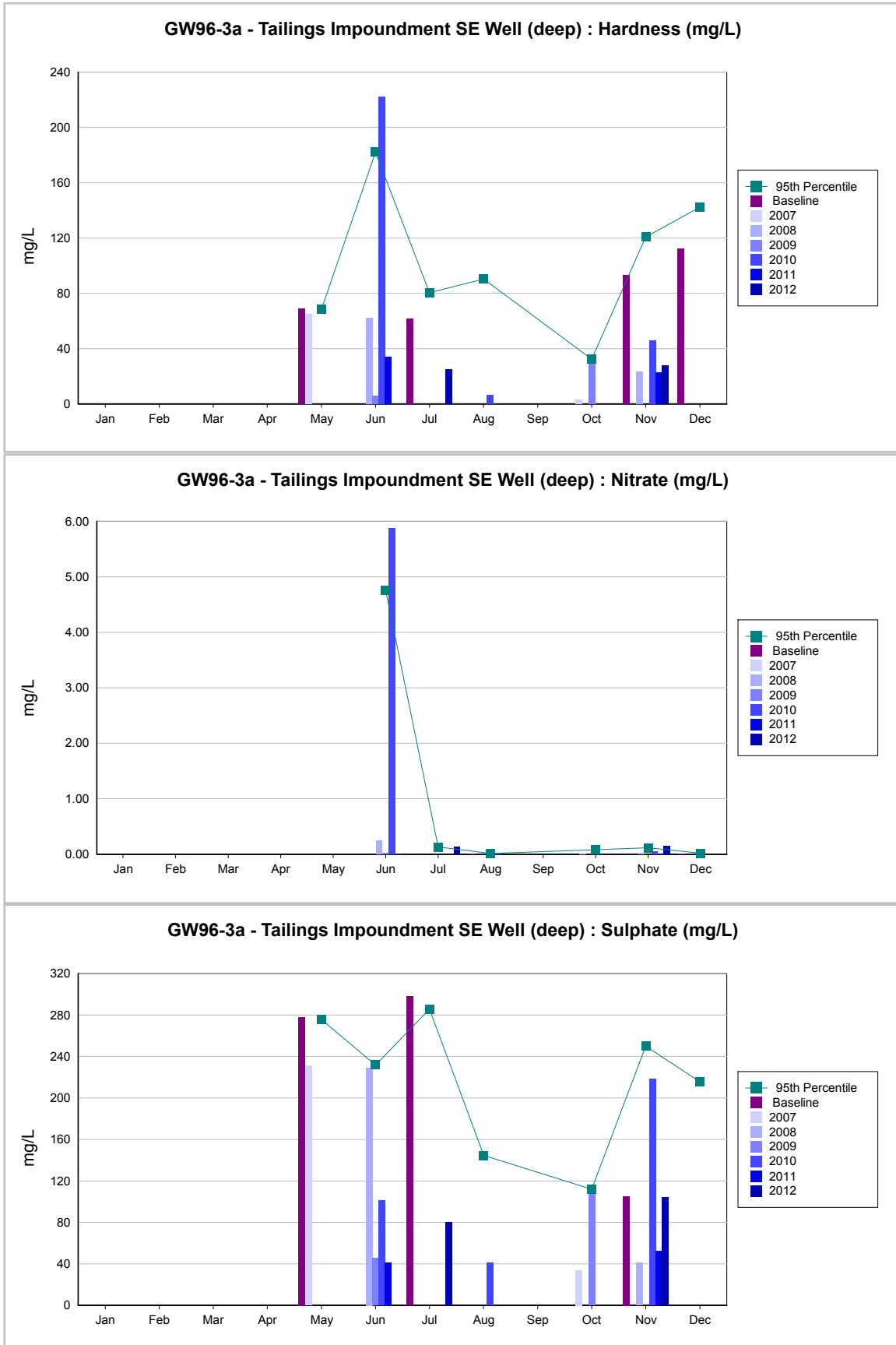
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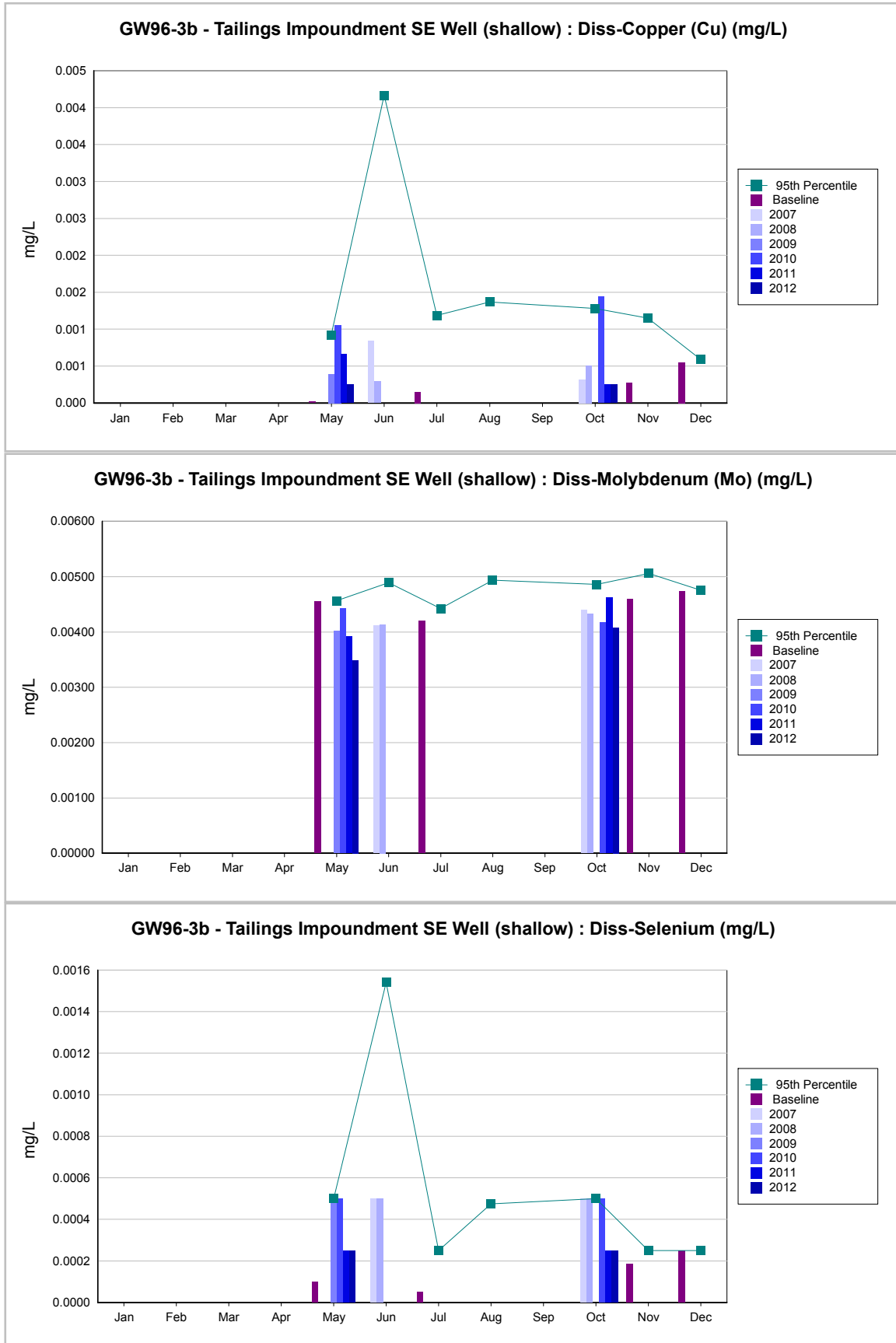
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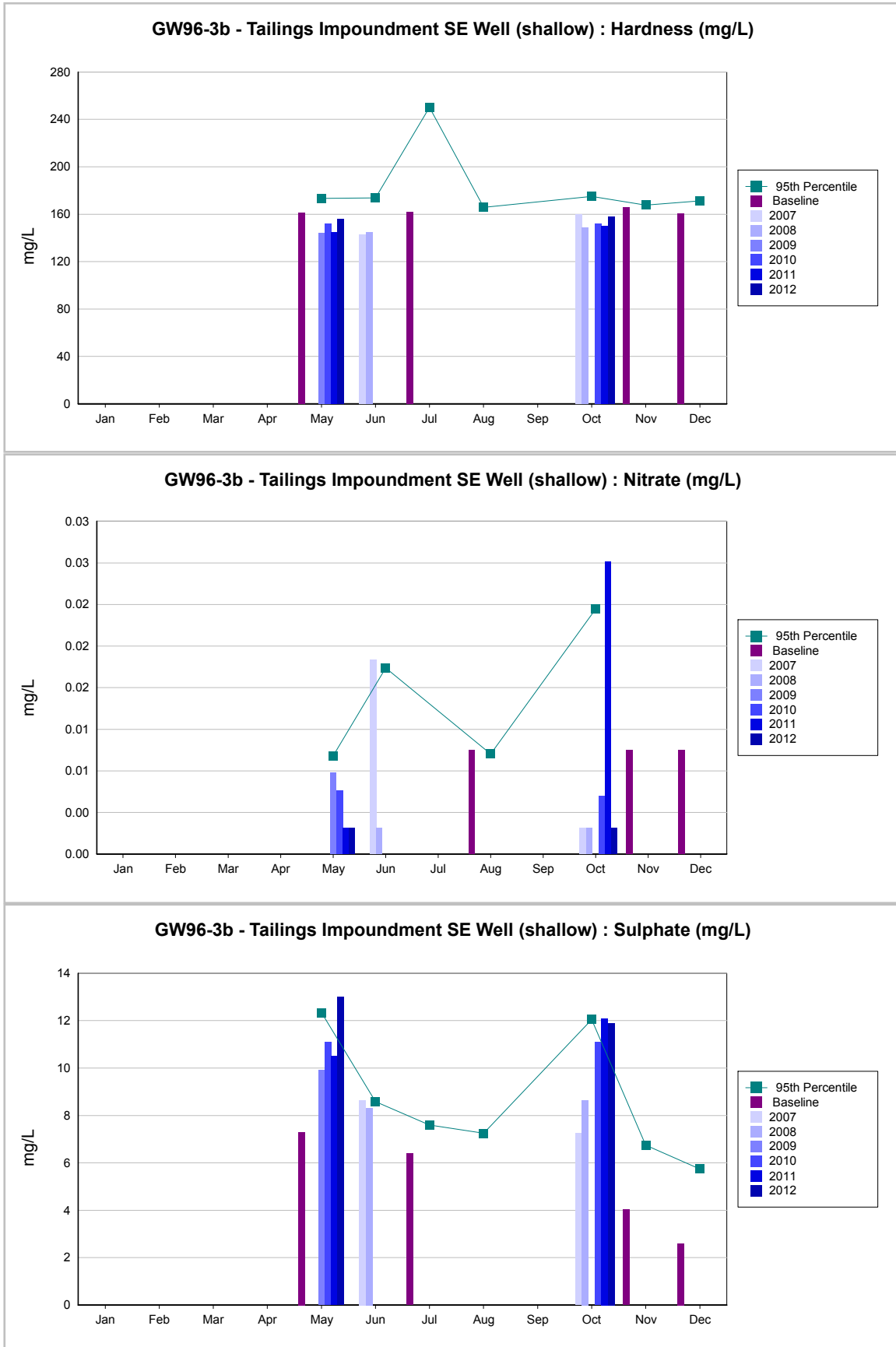
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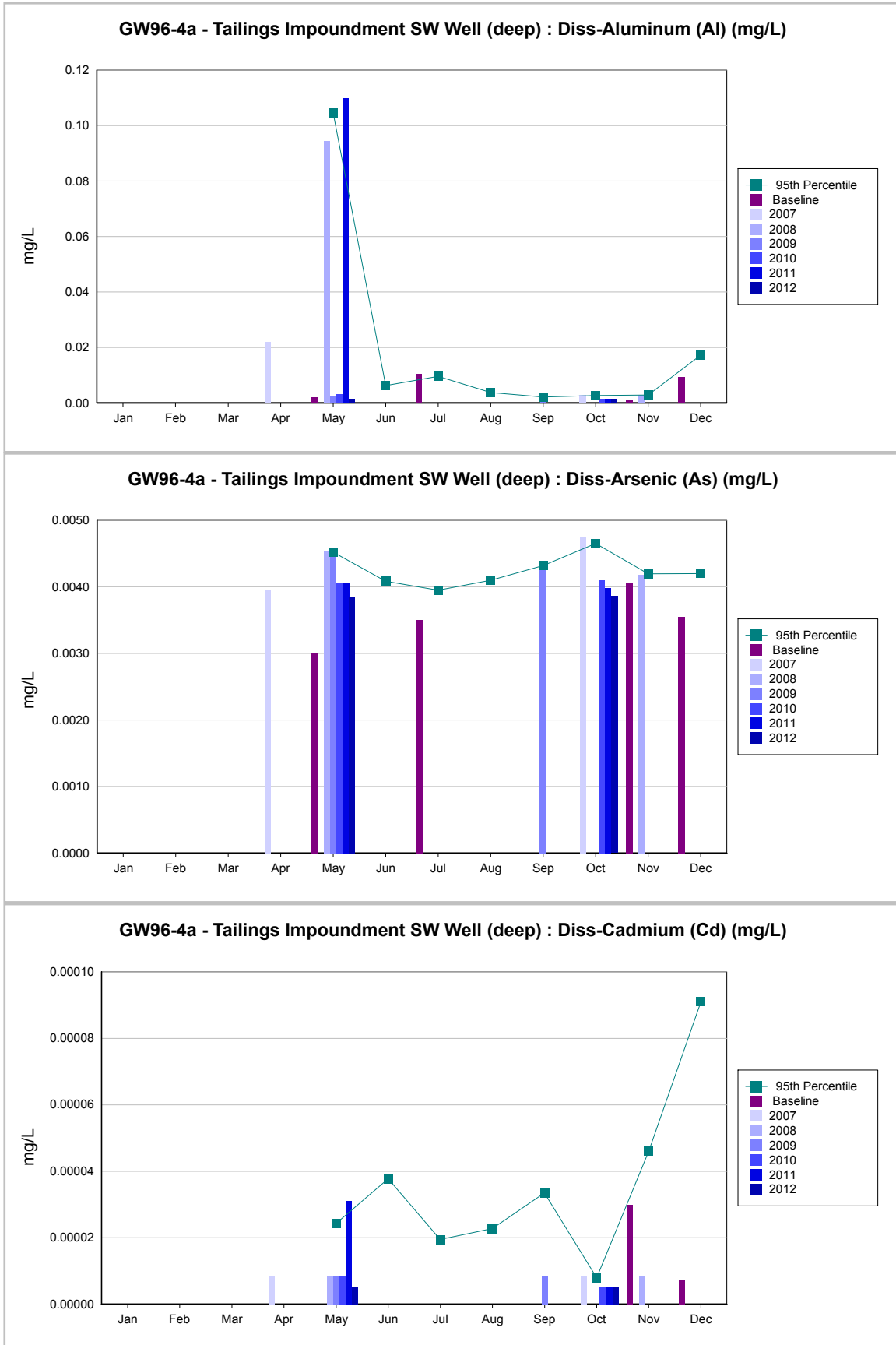
Water Quality Report



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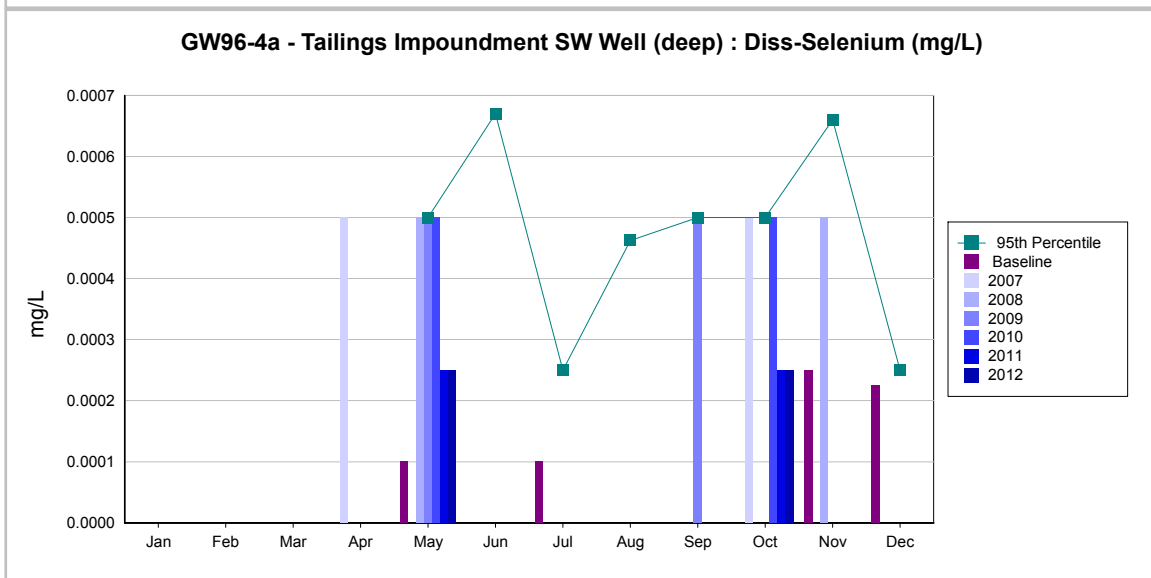
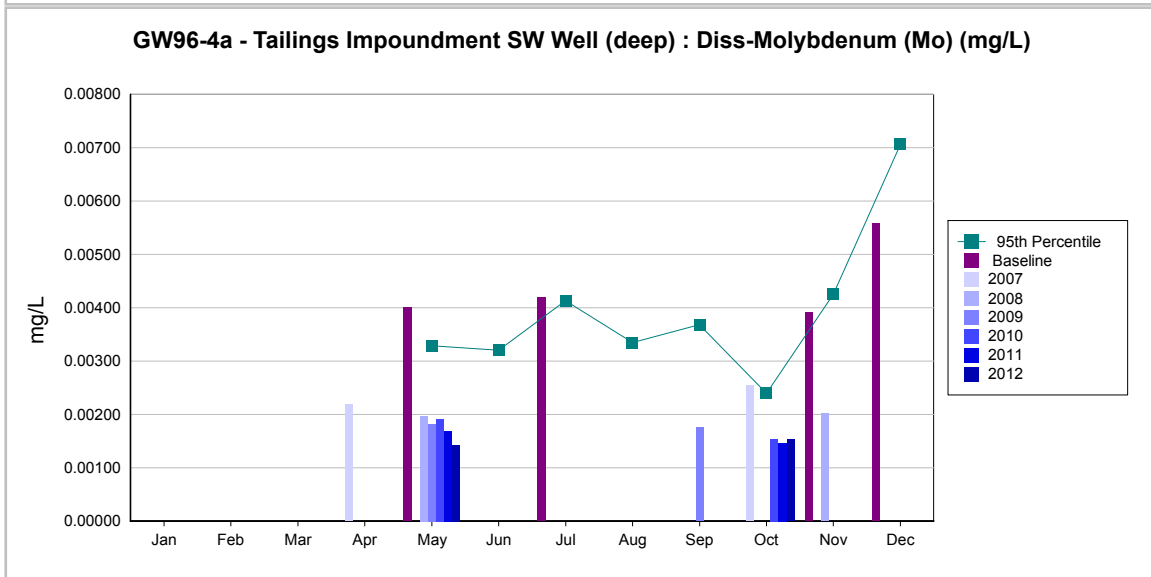
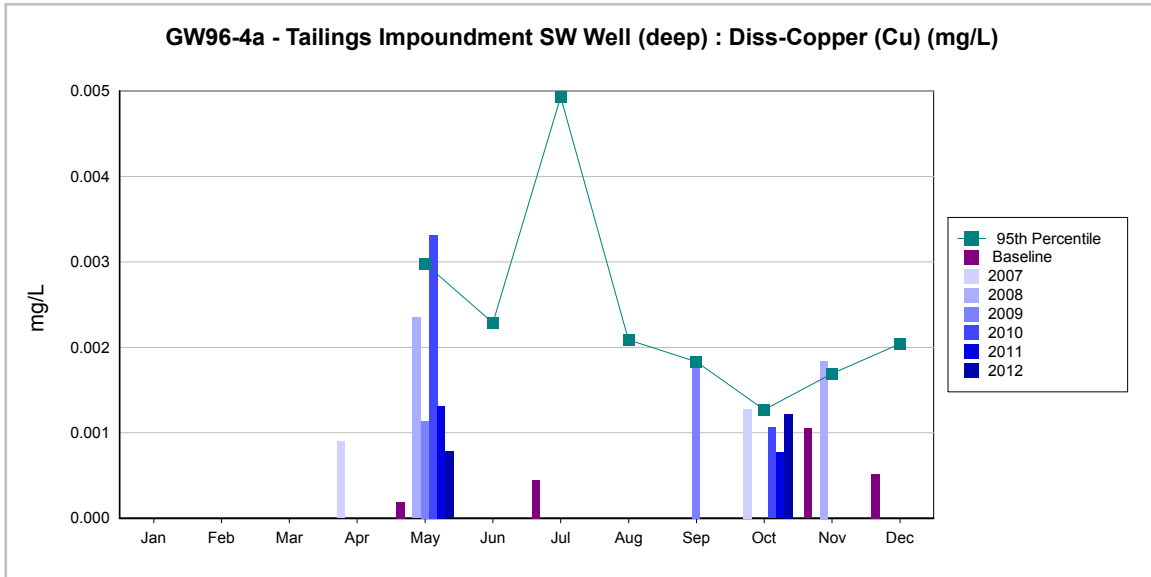
Water Quality Report

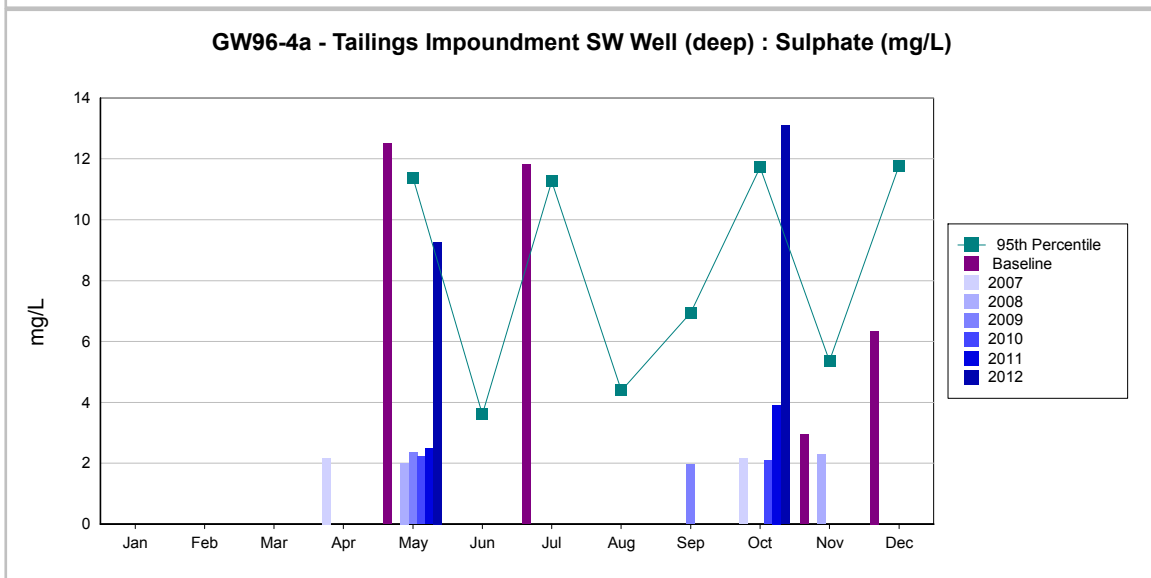
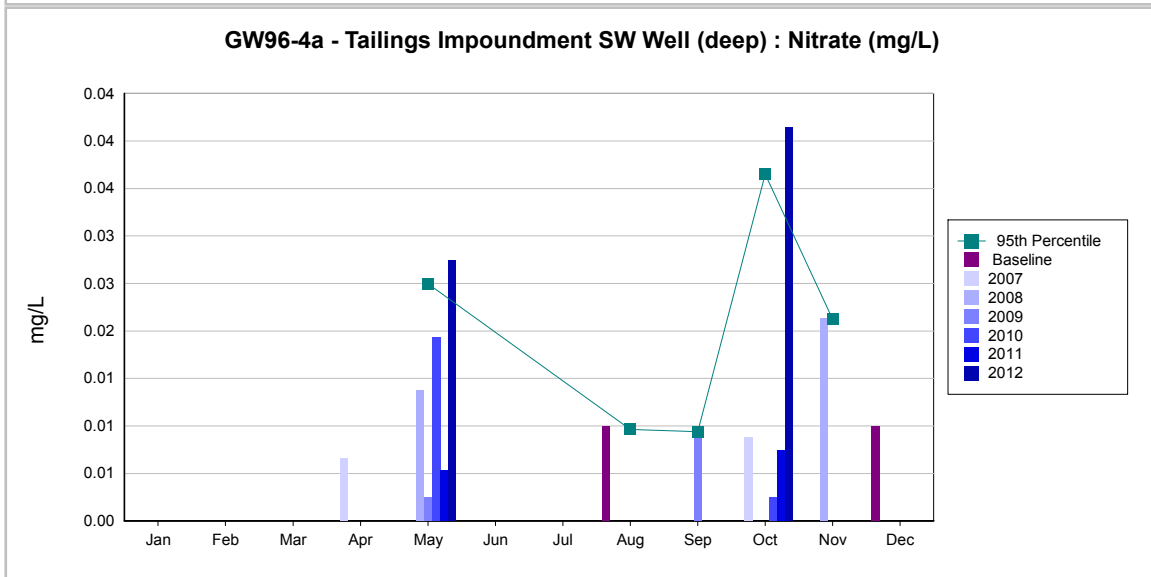
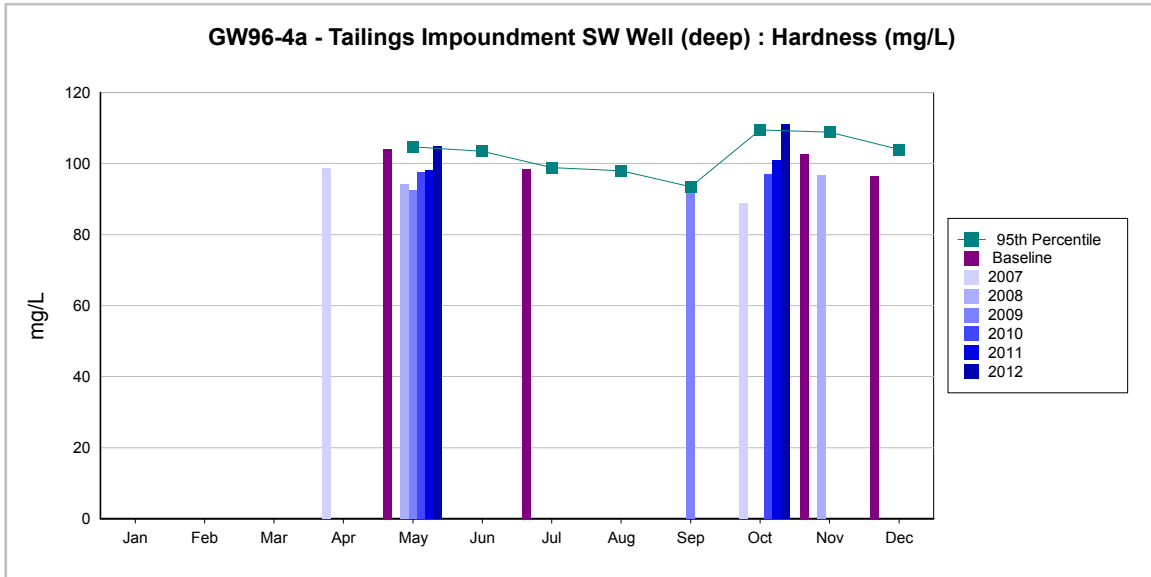


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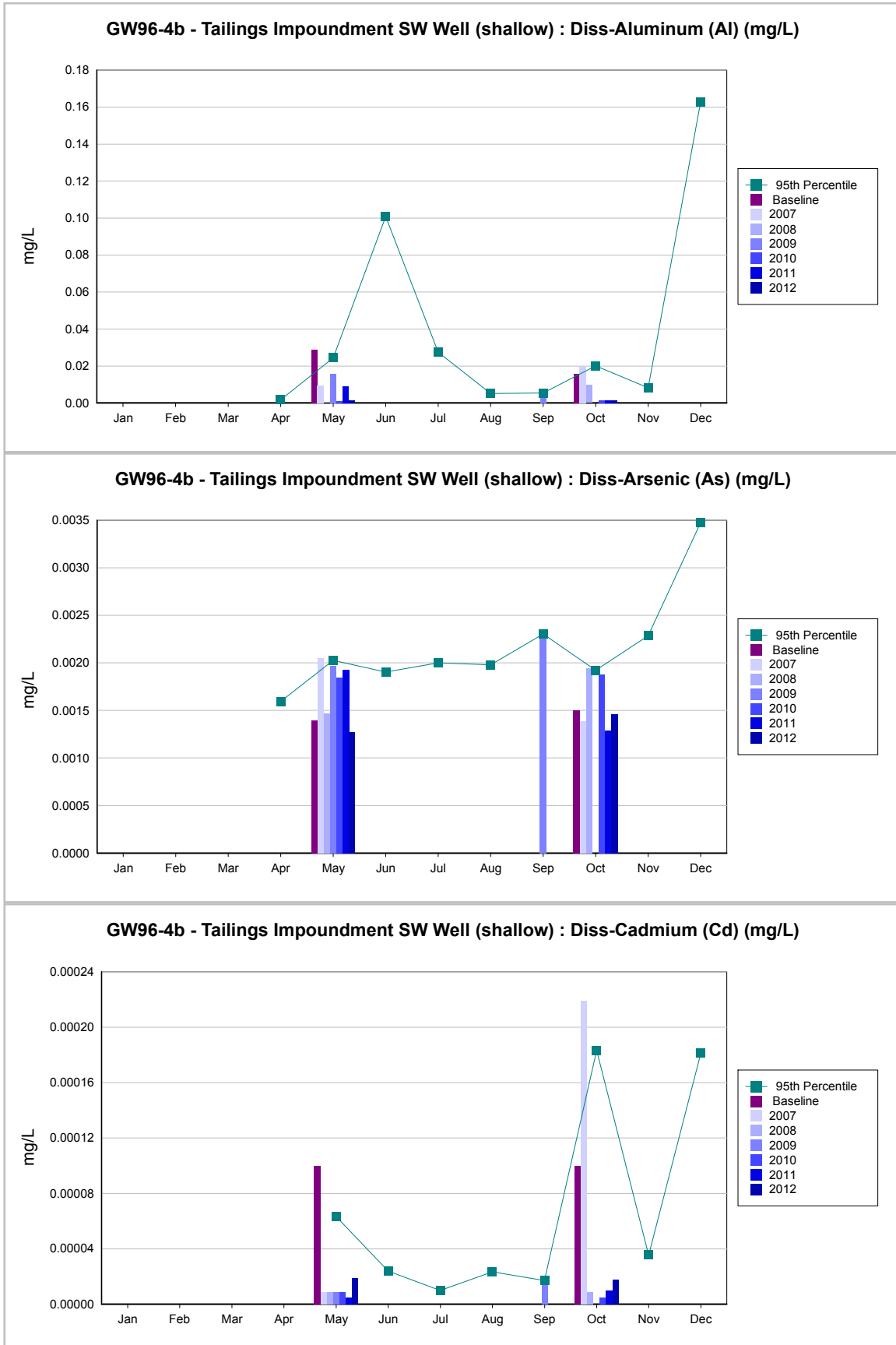
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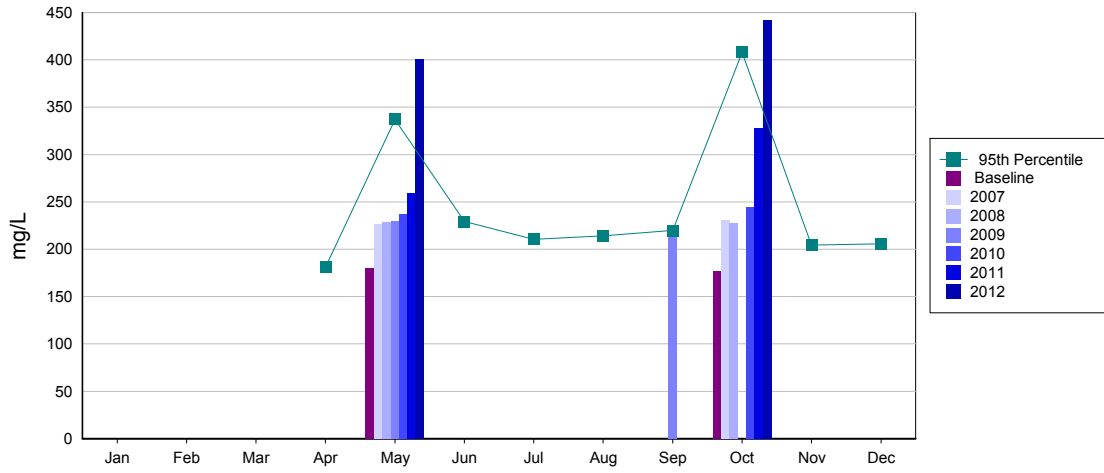


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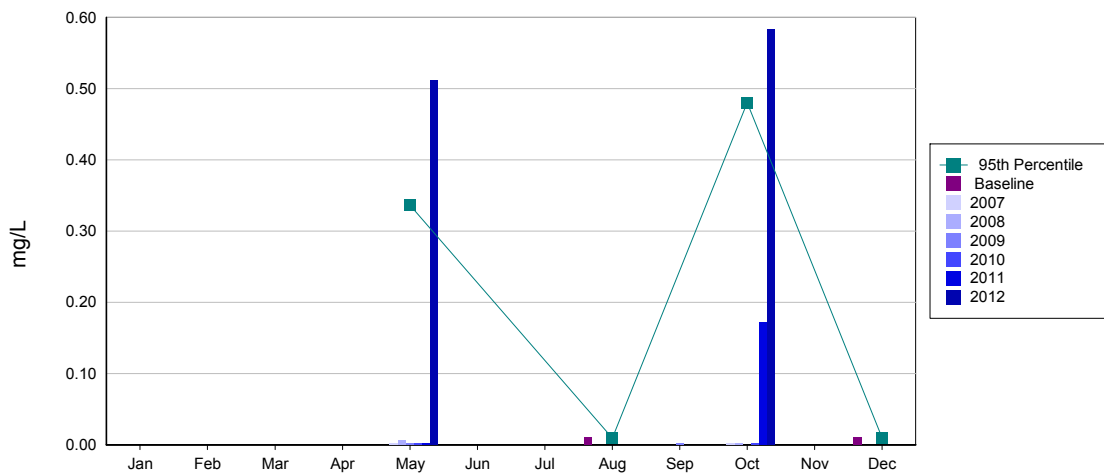
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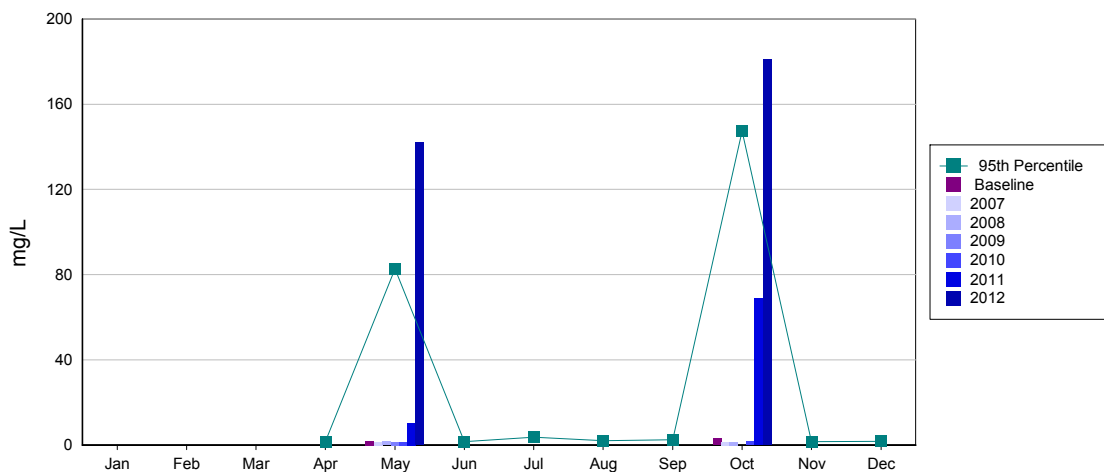
GW96-4b - Tailings Impoundment SW Well (shallow) : Hardness (mg/L)



GW96-4b - Tailings Impoundment SW Well (shallow) : Nitrate (mg/L)



GW96-4b - Tailings Impoundment SW Well (shallow) : Sulphate (mg/L)



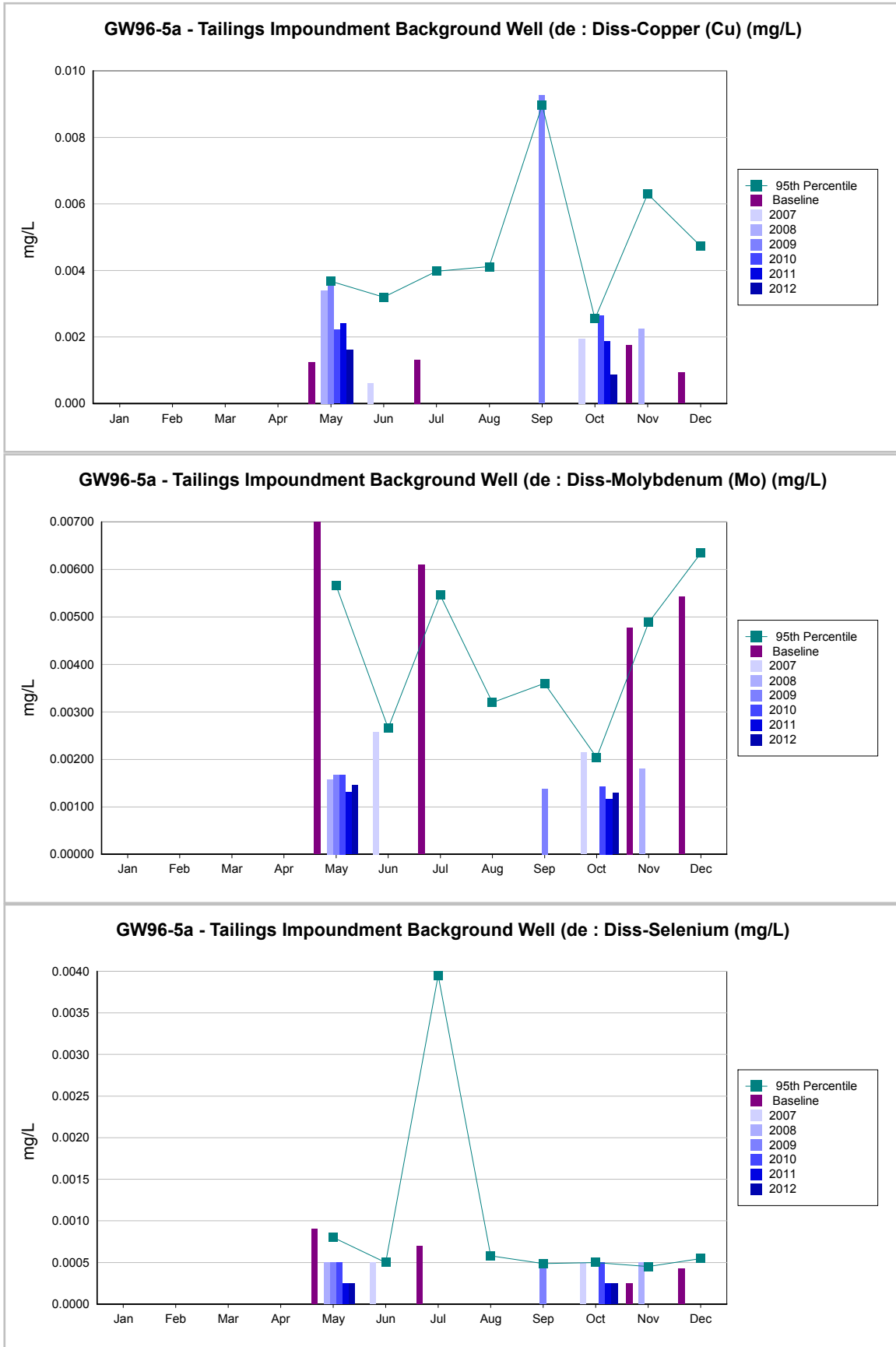
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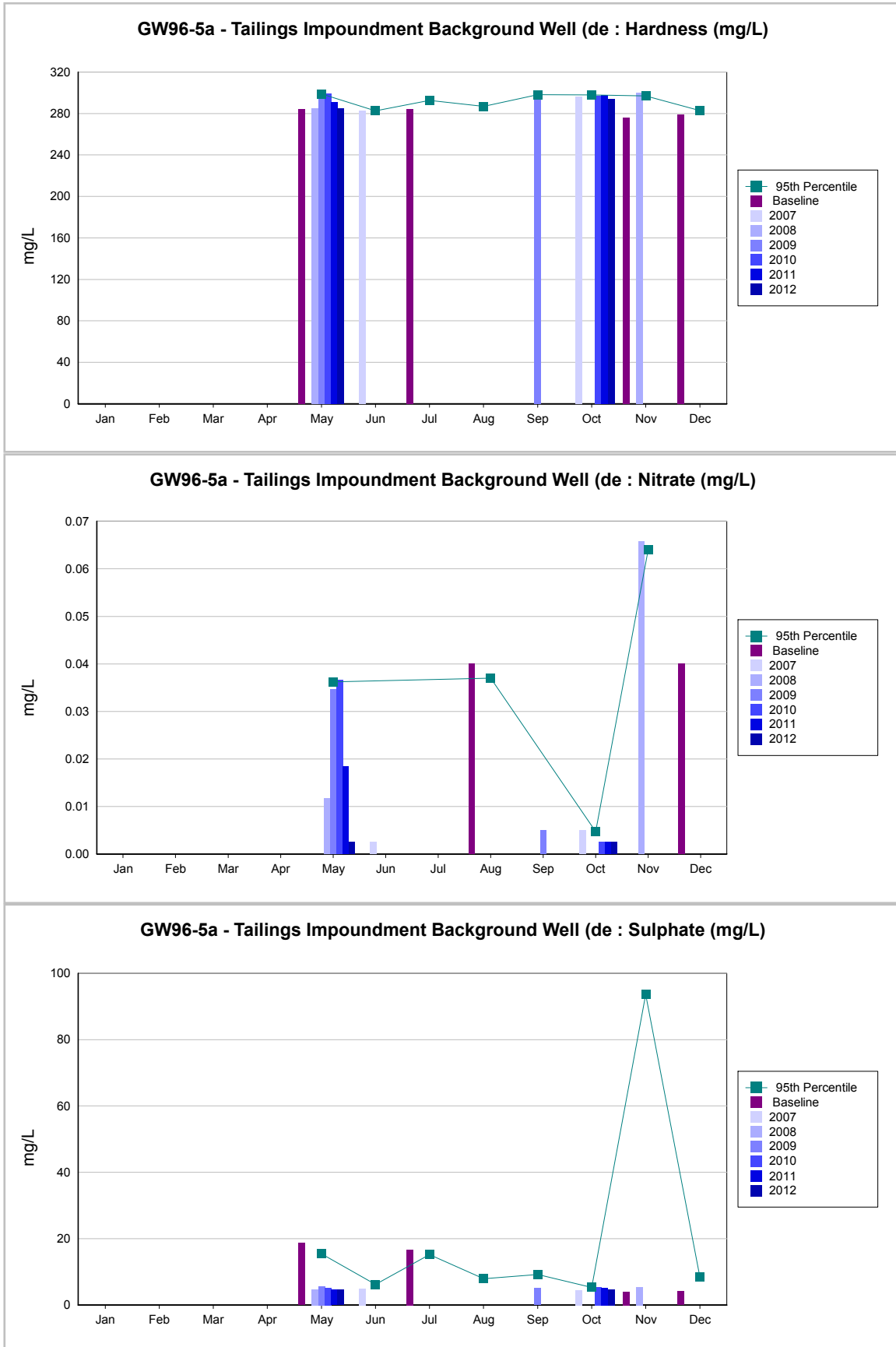
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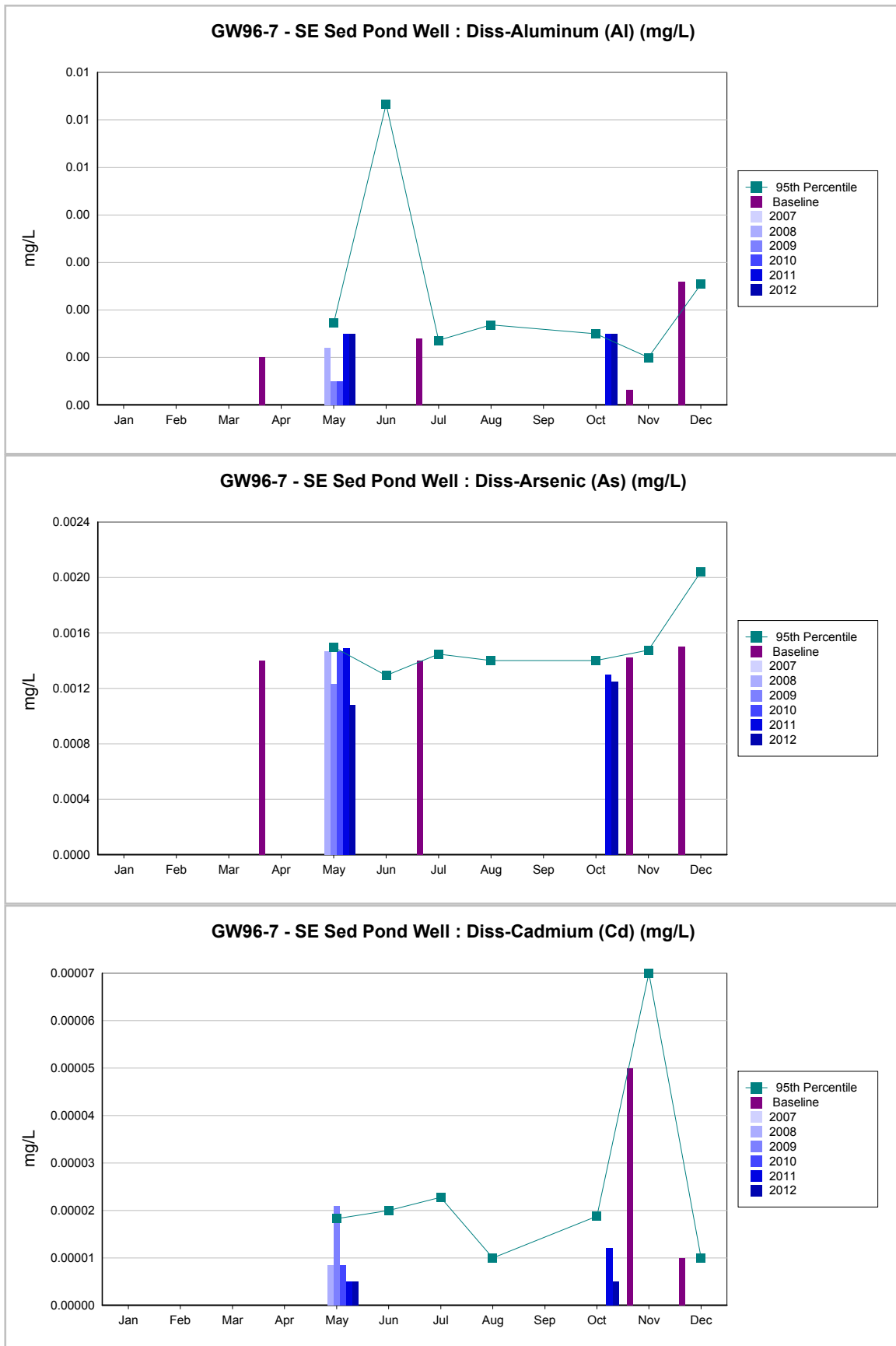
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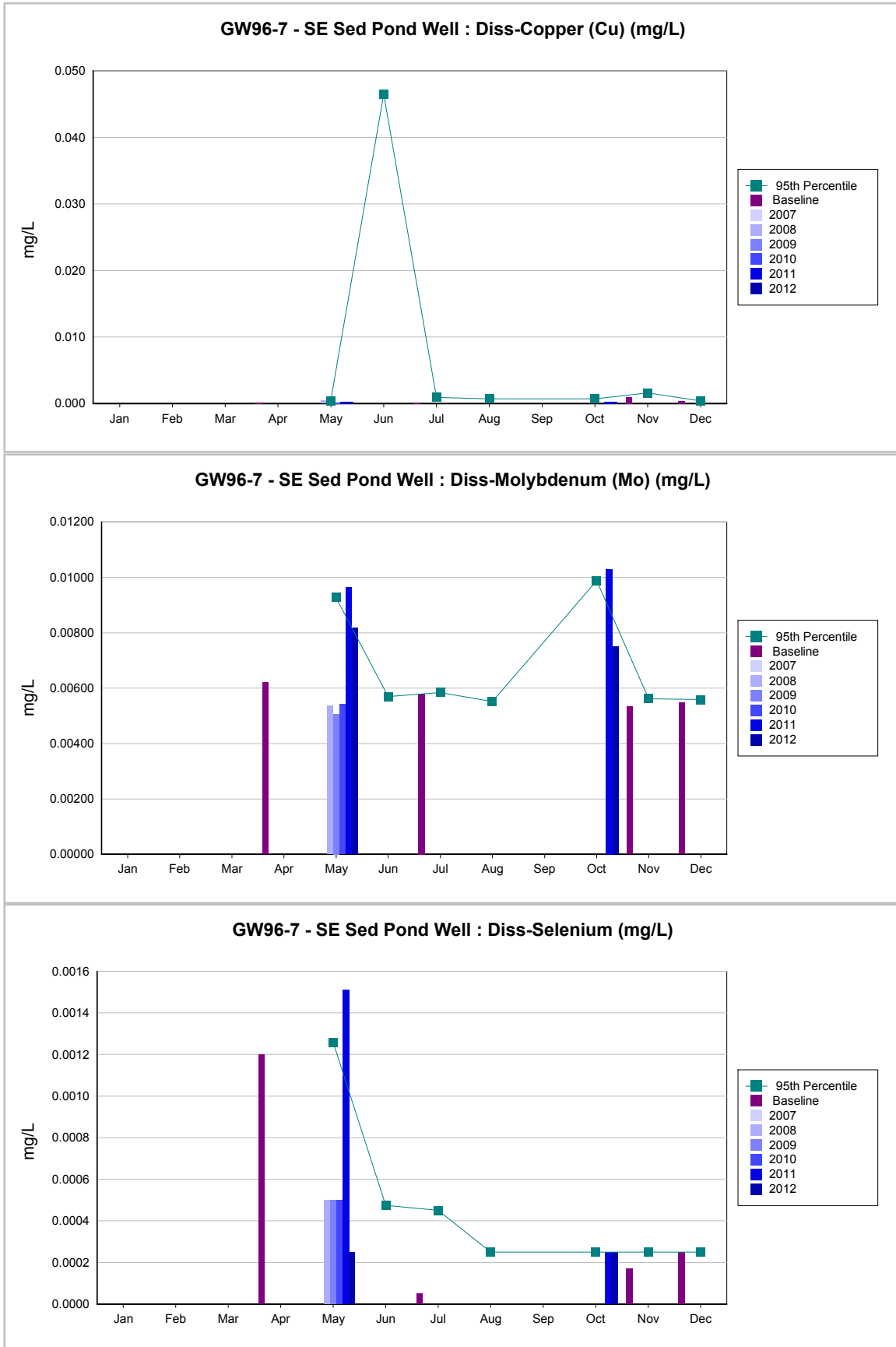
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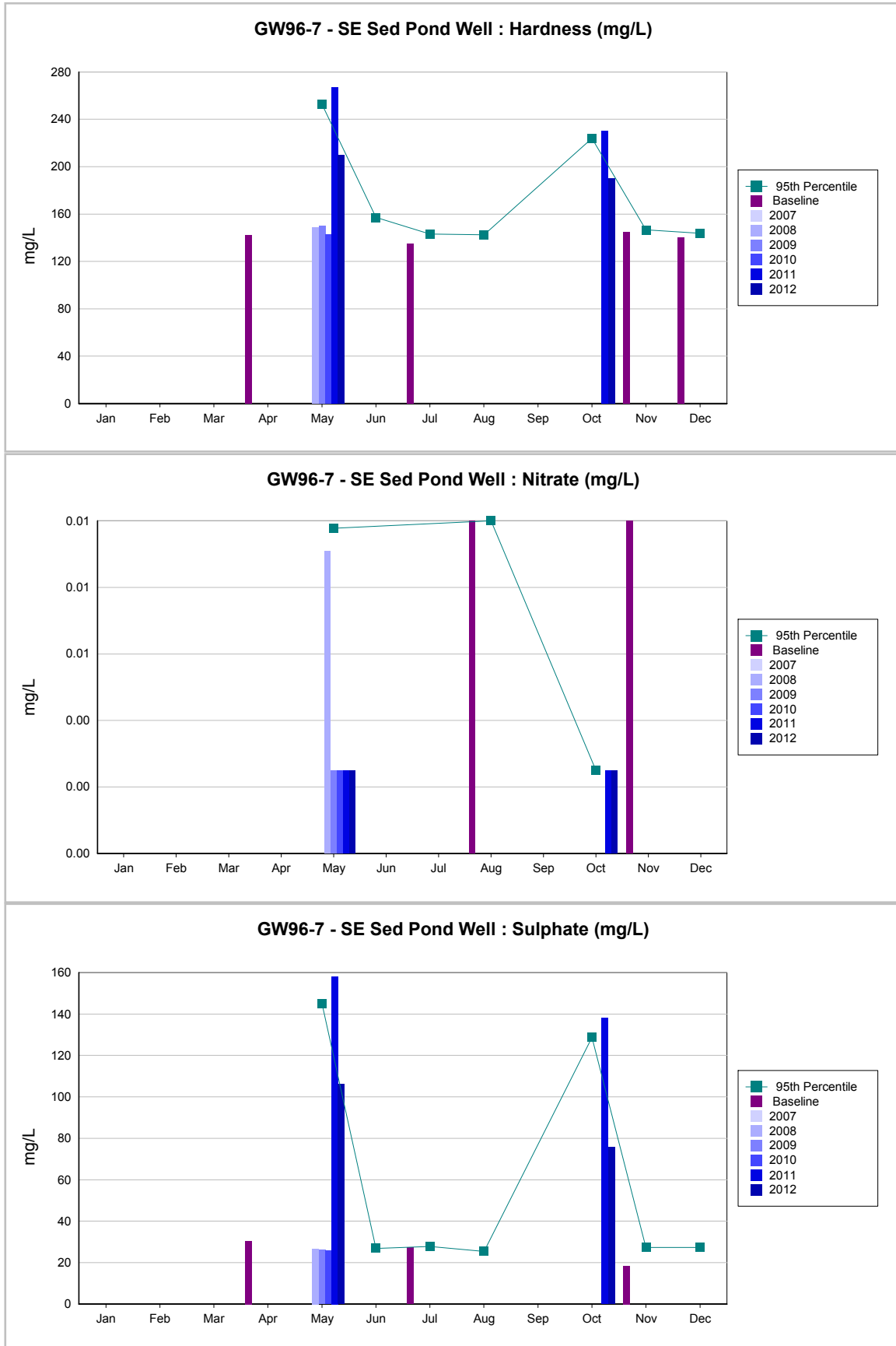
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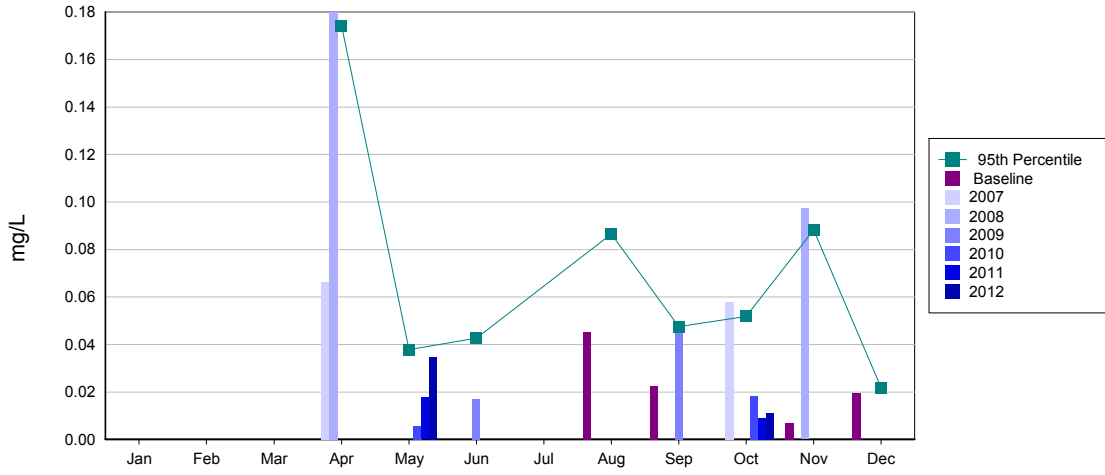
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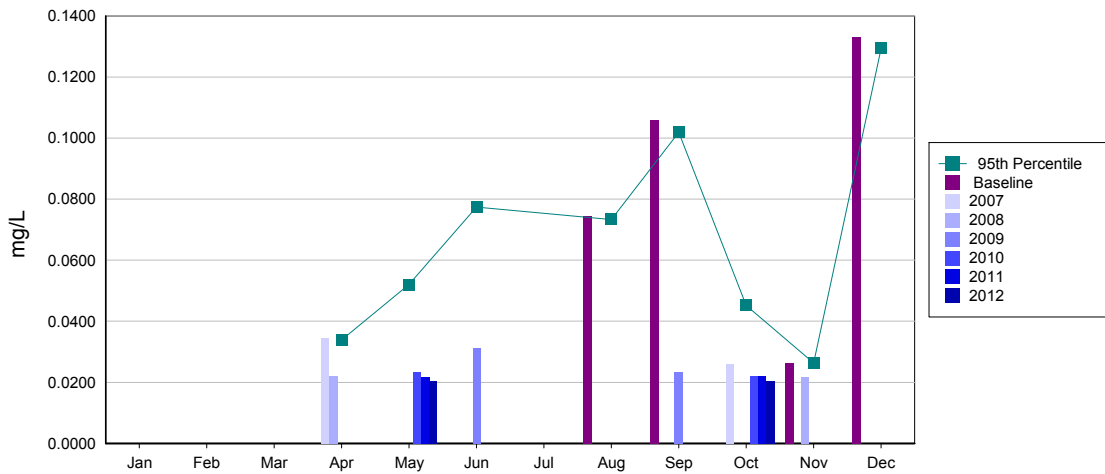




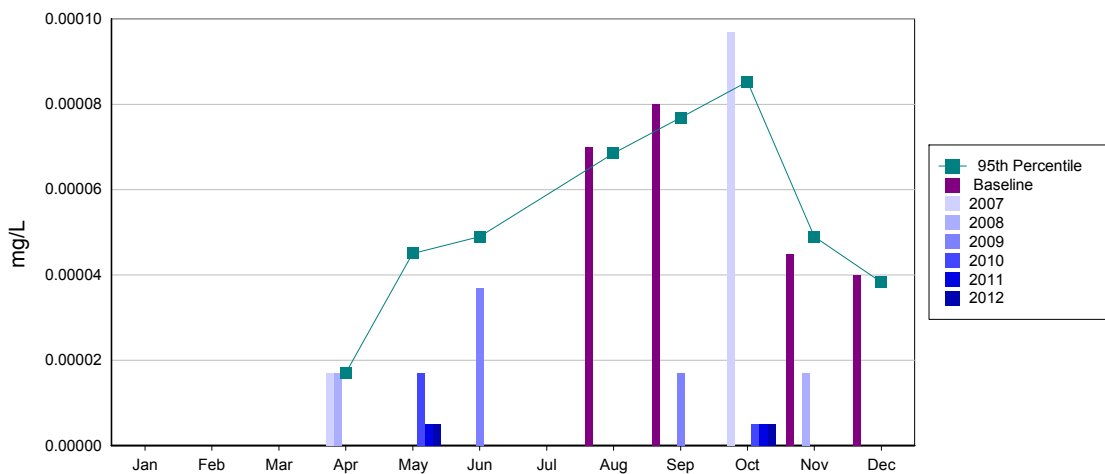
GW00-1a - Tailings Impoundment West Well (deep) : Diss-Aluminum (Al) (mg/L)



GW00-1a - Tailings Impoundment West Well (deep) : Diss-Arsenic (As) (mg/L)



GW00-1a - Tailings Impoundment West Well (deep) : Diss-Cadmium (Cd) (mg/L)



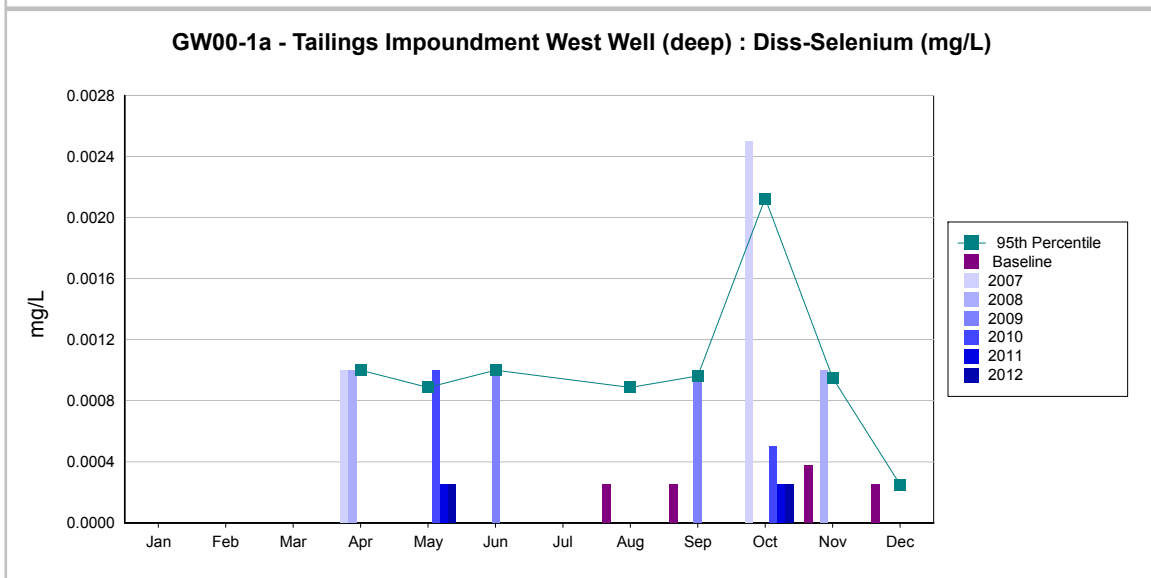
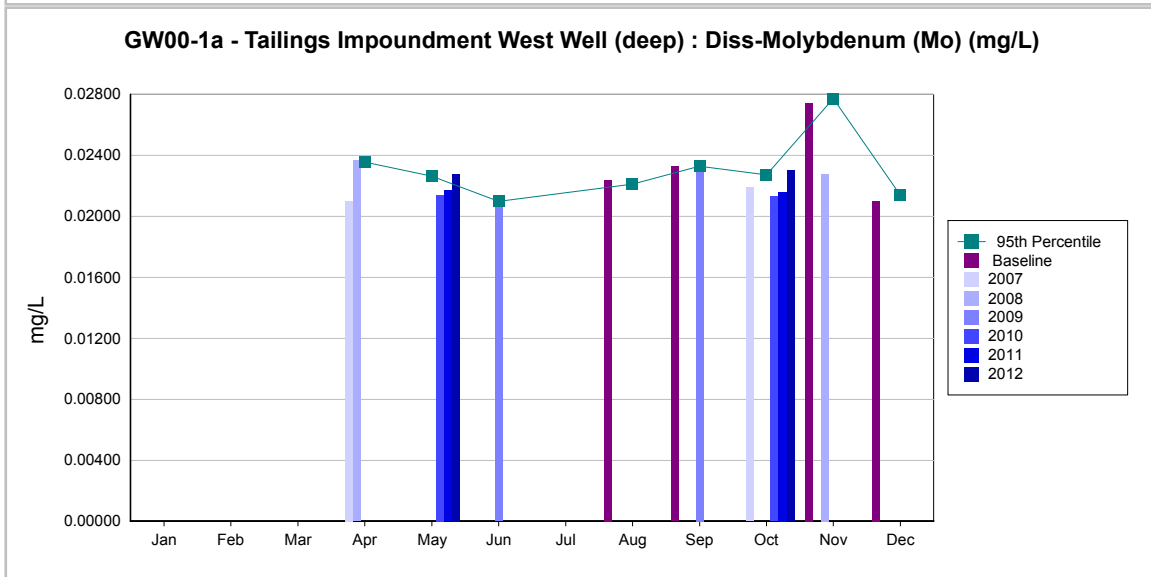
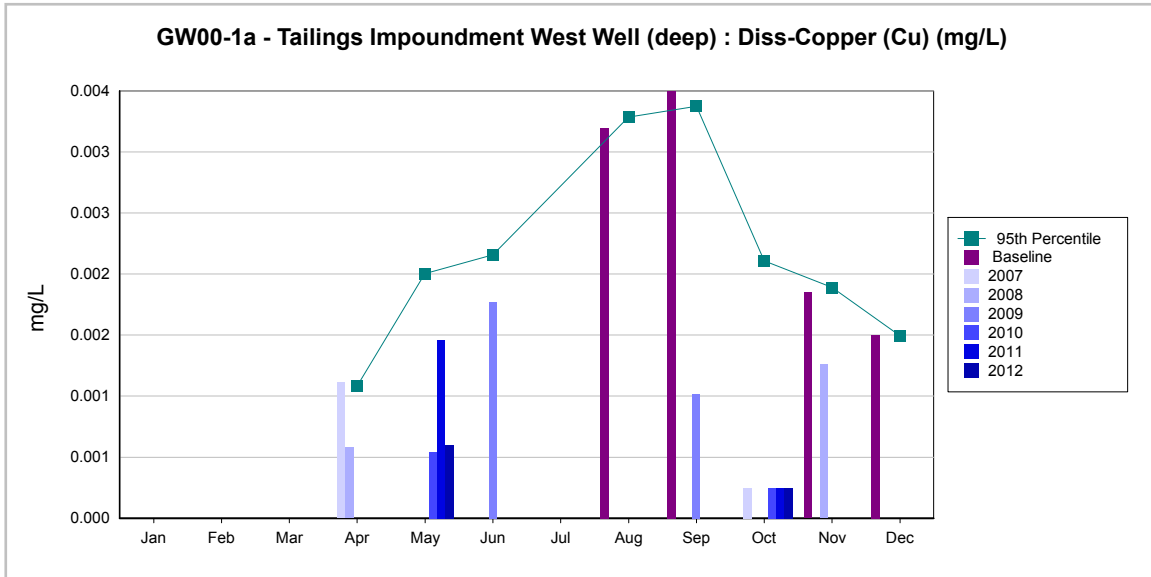
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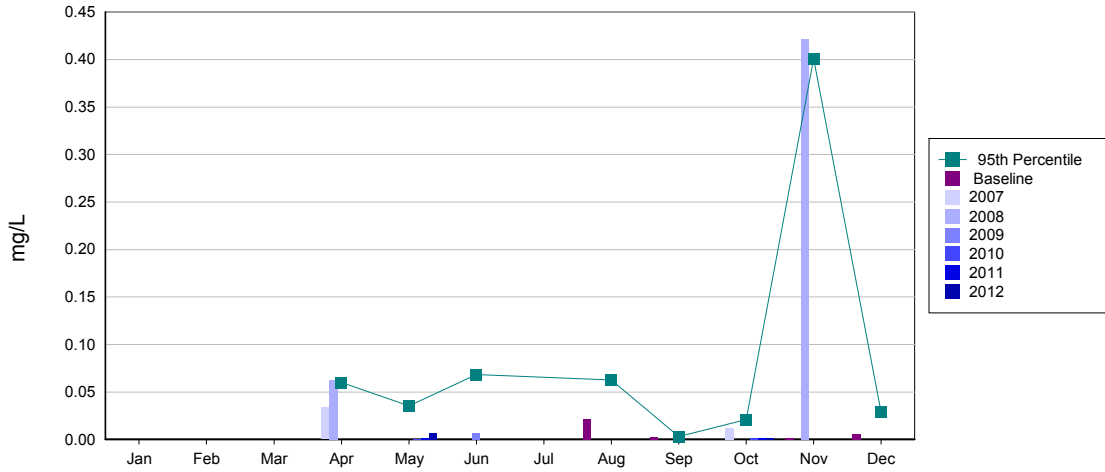


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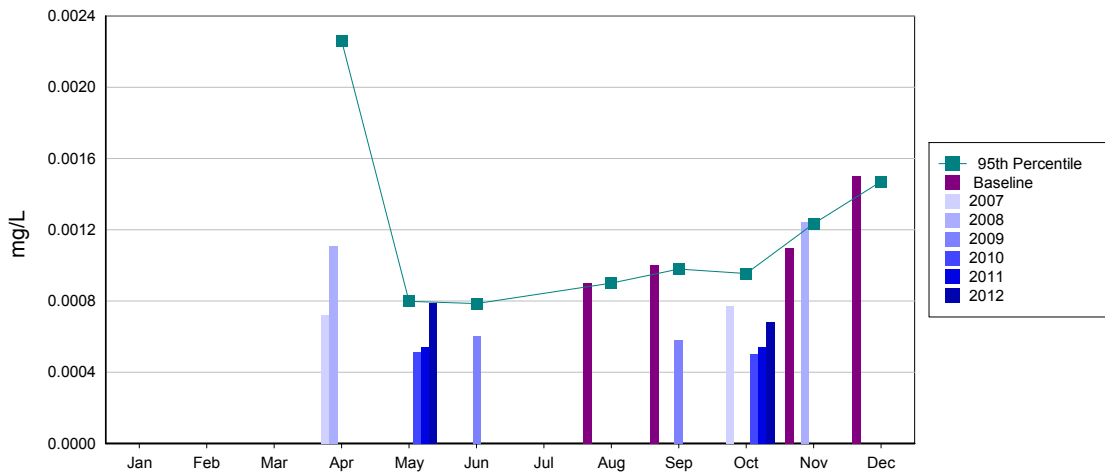
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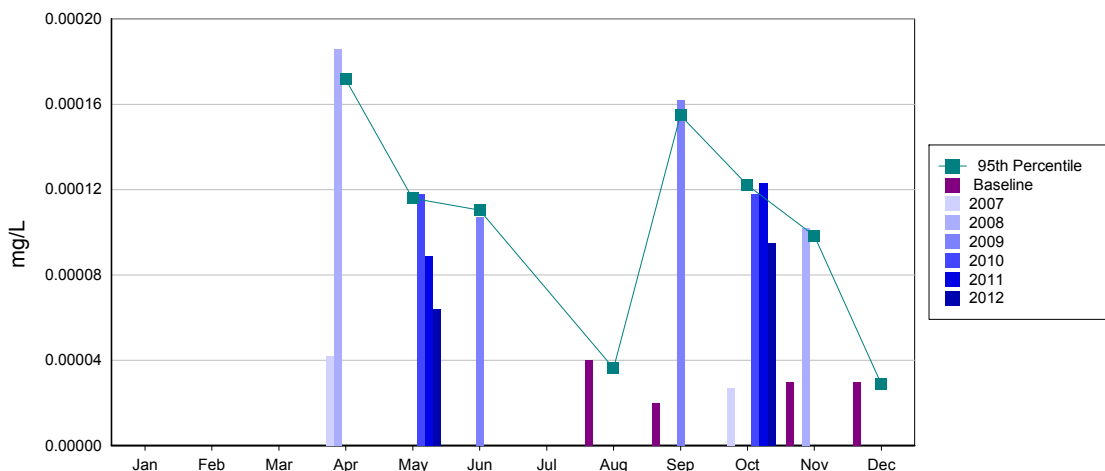
GW00-1b - Tailings Impoundment West Well (shallow) : Diss-Aluminum (Al) (mg/L)



GW00-1b - Tailings Impoundment West Well (shallow) : Diss-Arsenic (As) (mg/L)



GW00-1b - Tailings Impoundment West Well (shallow) : Diss-Cadmium (Cd) (mg/L)



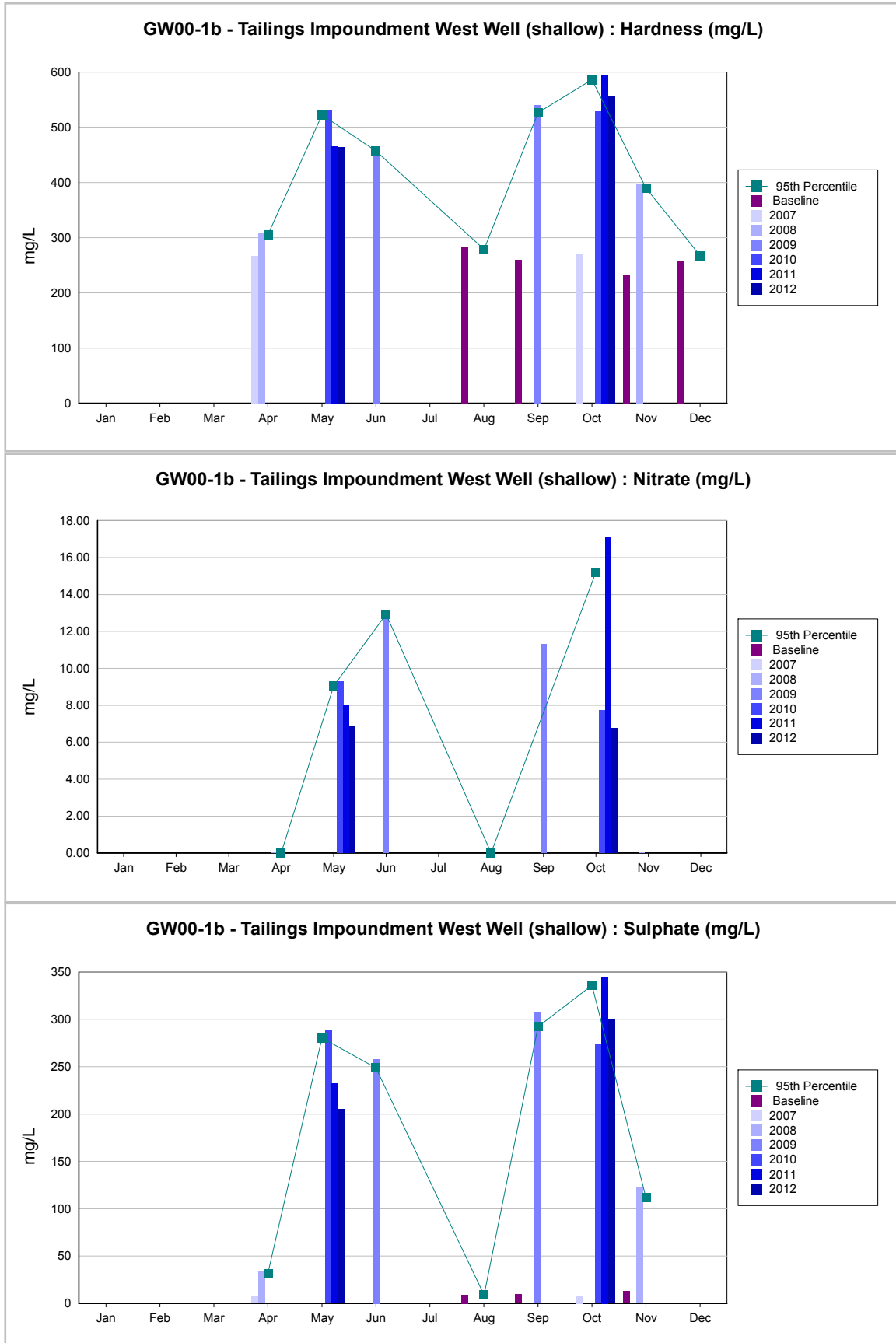
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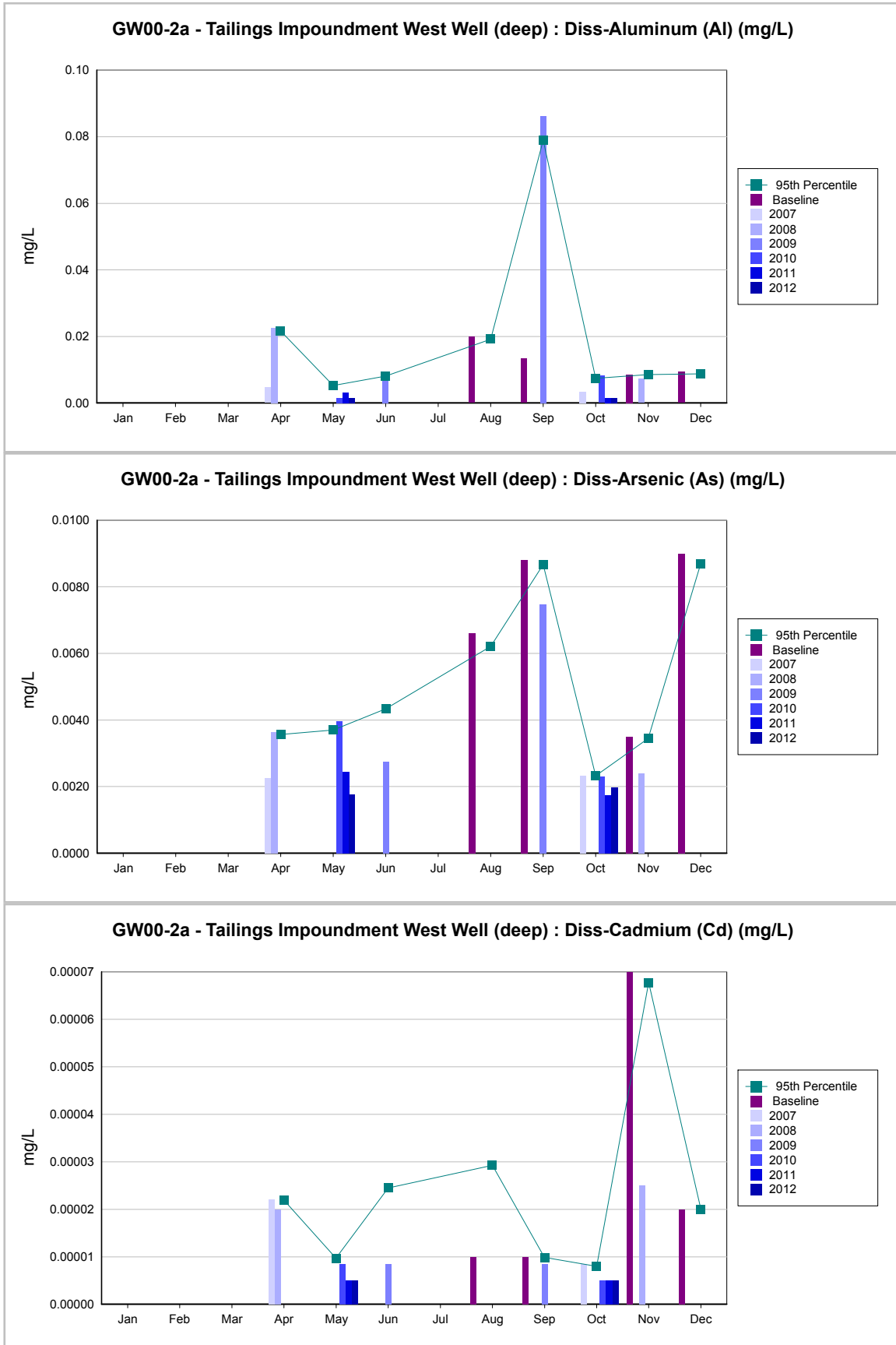
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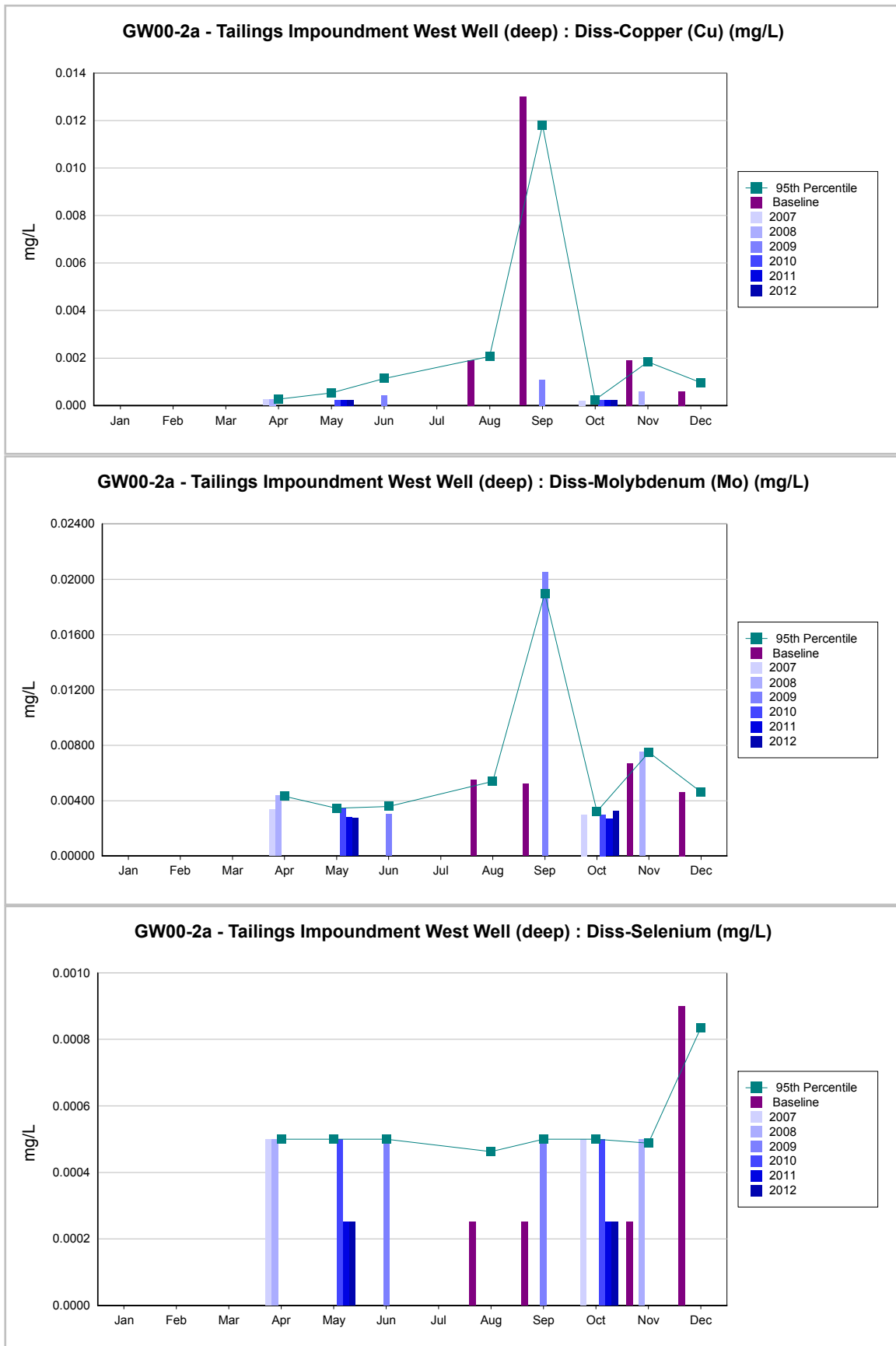
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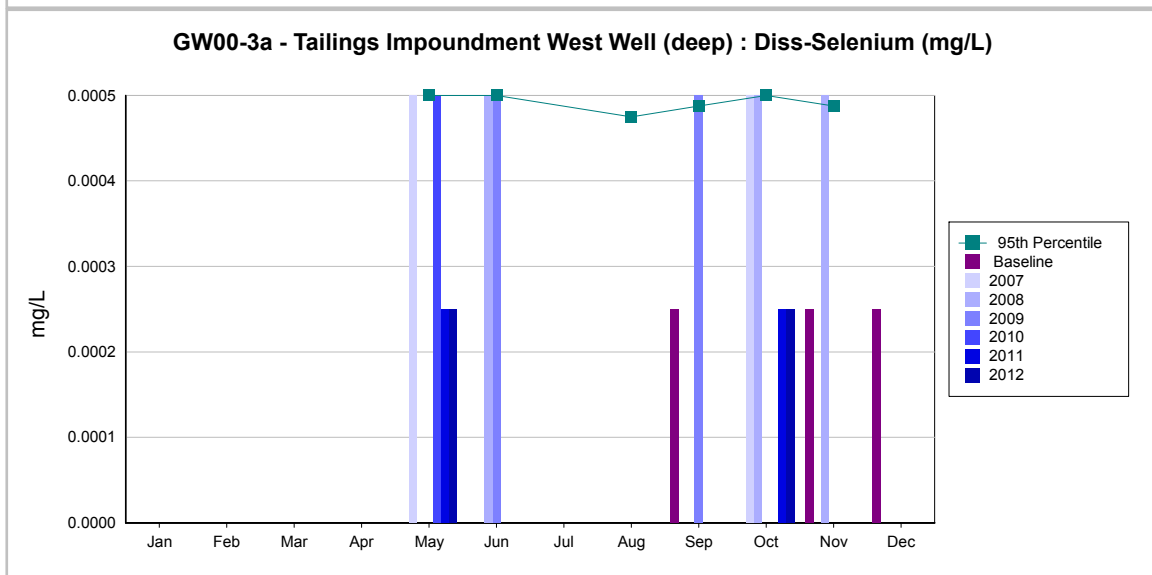
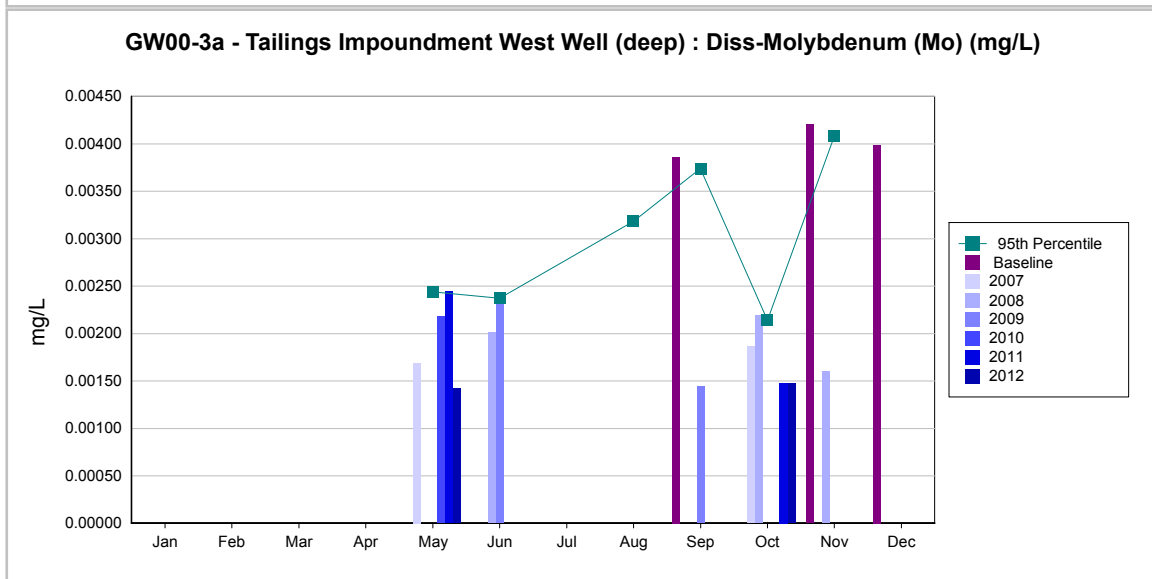
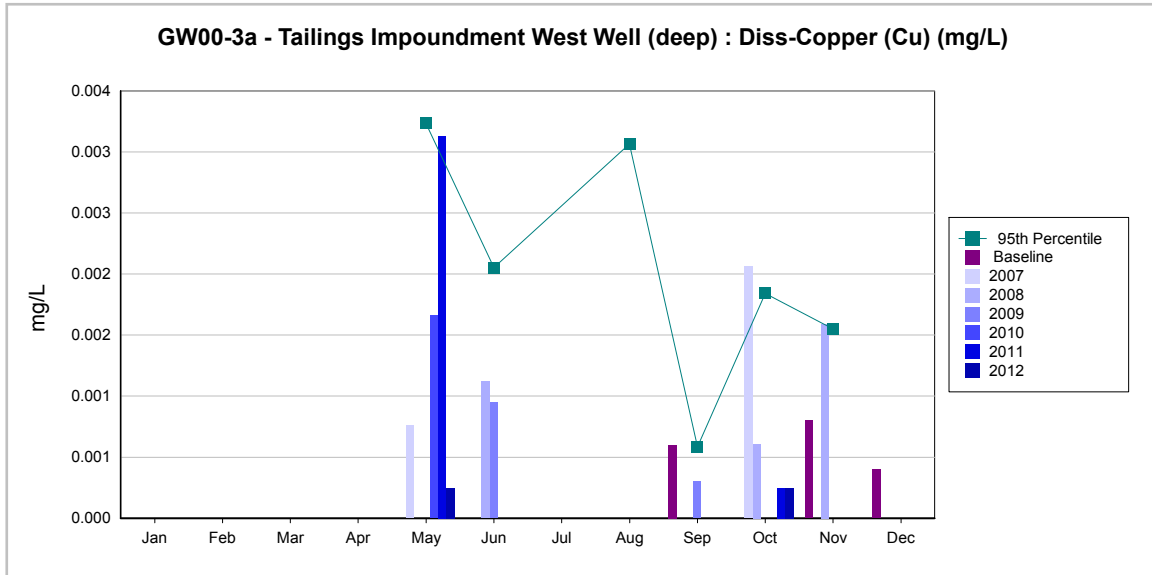
Water Quality Report

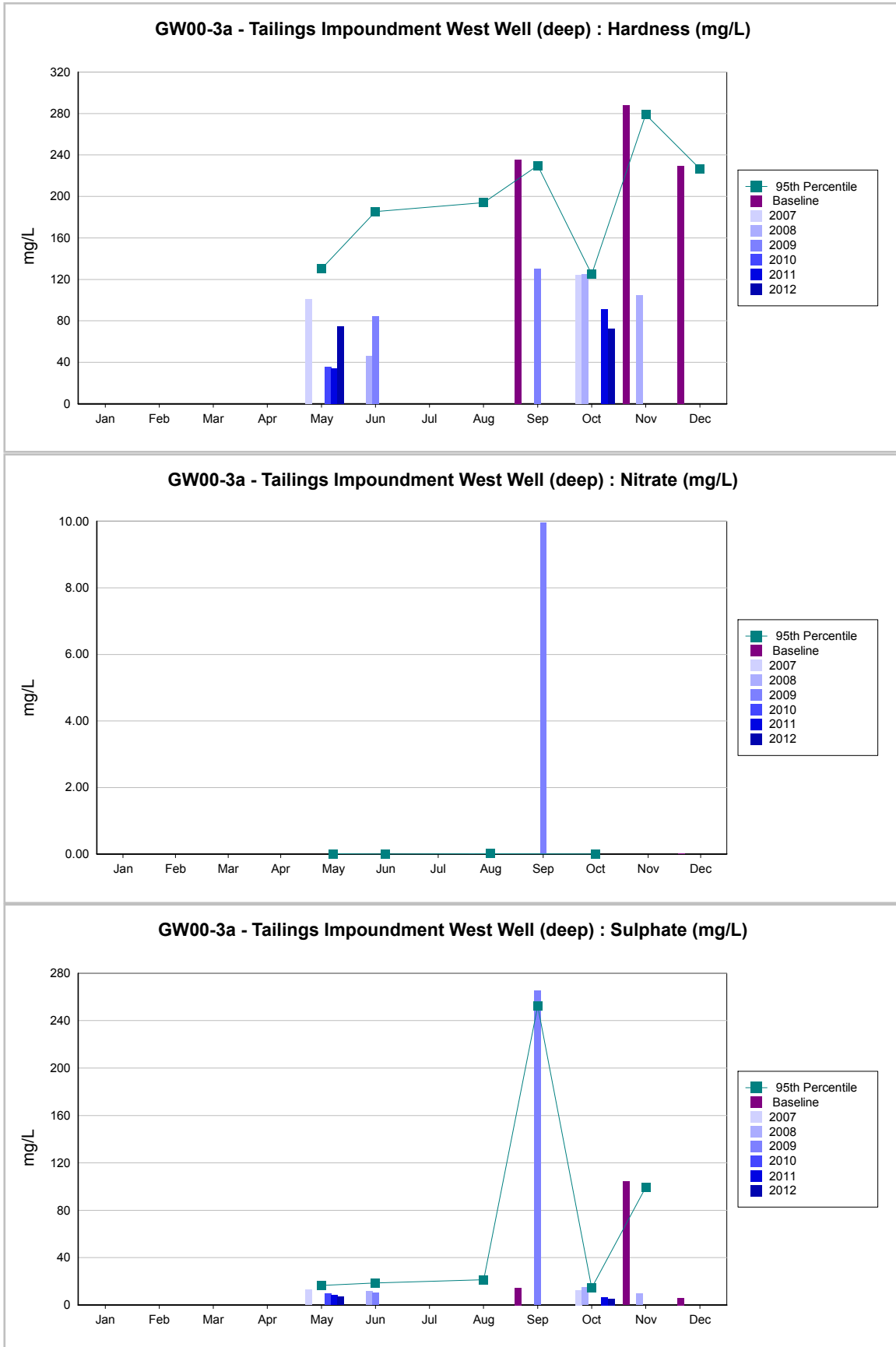


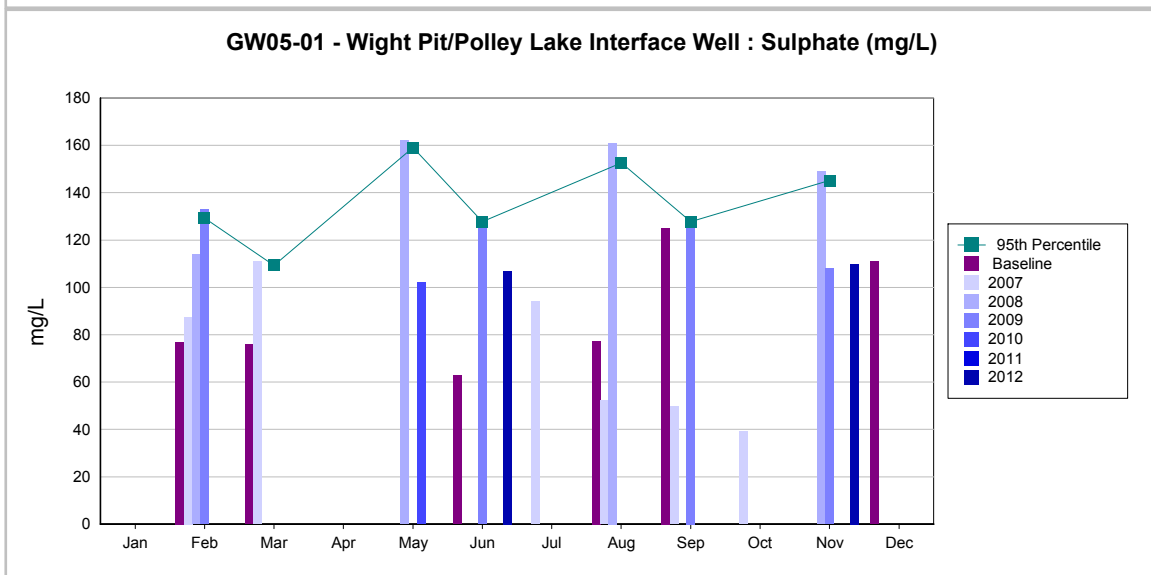
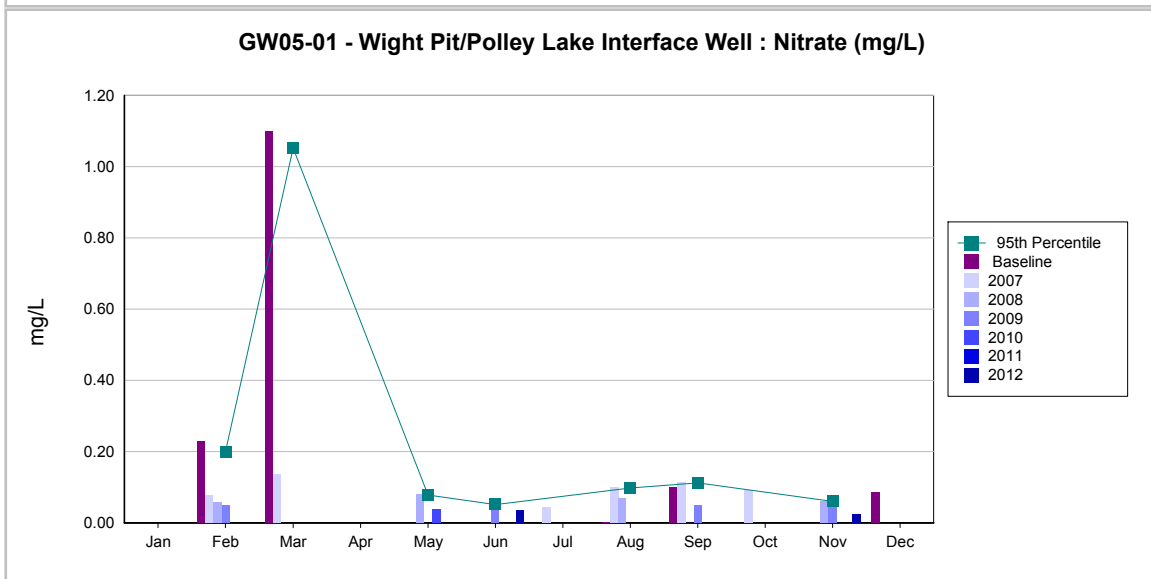
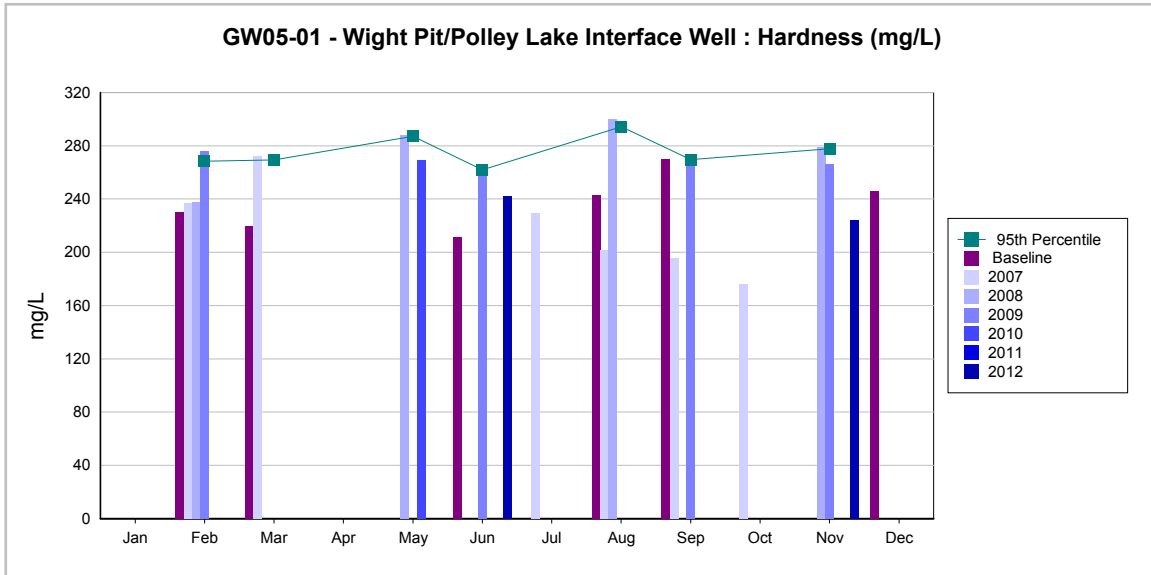
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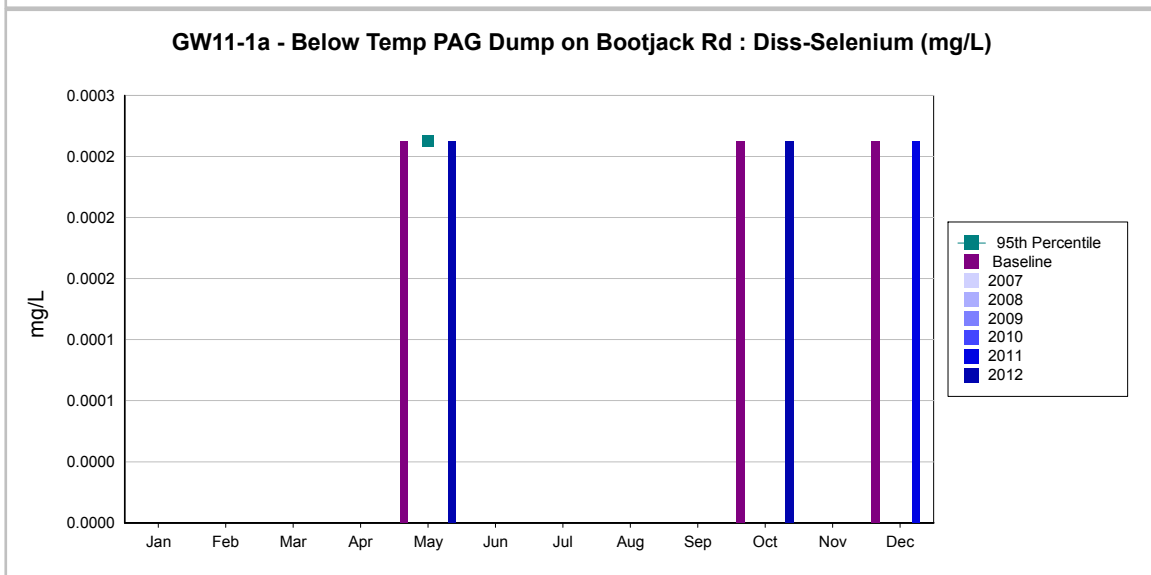
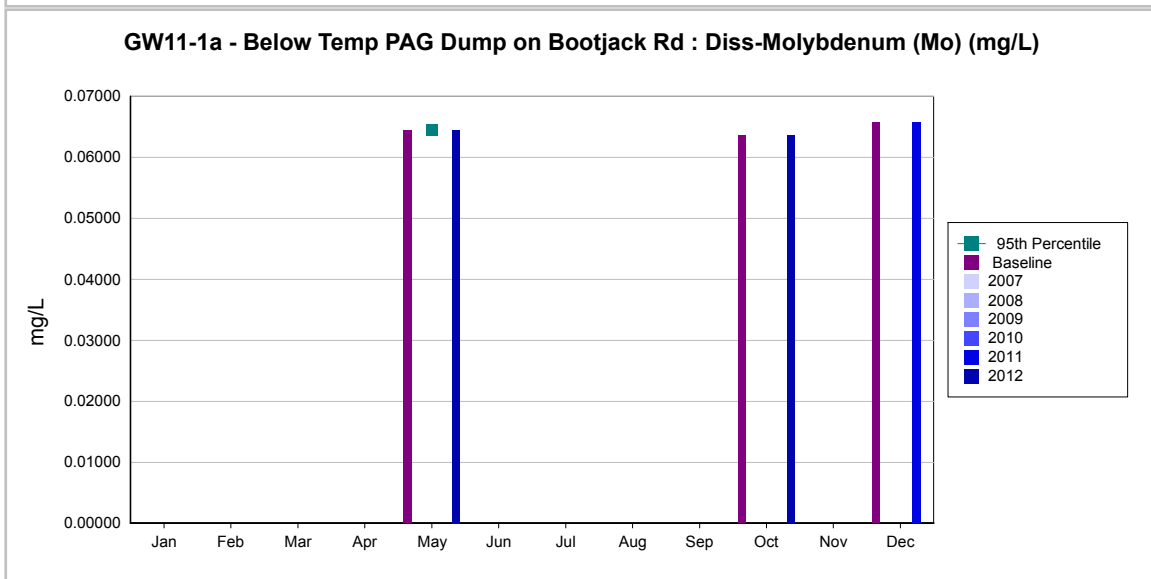
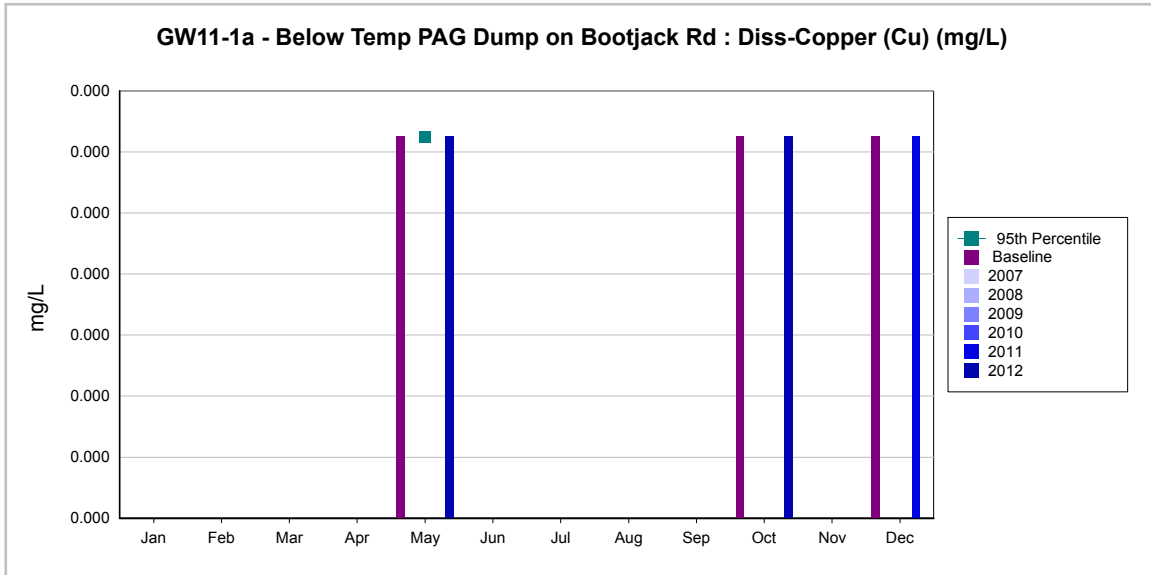
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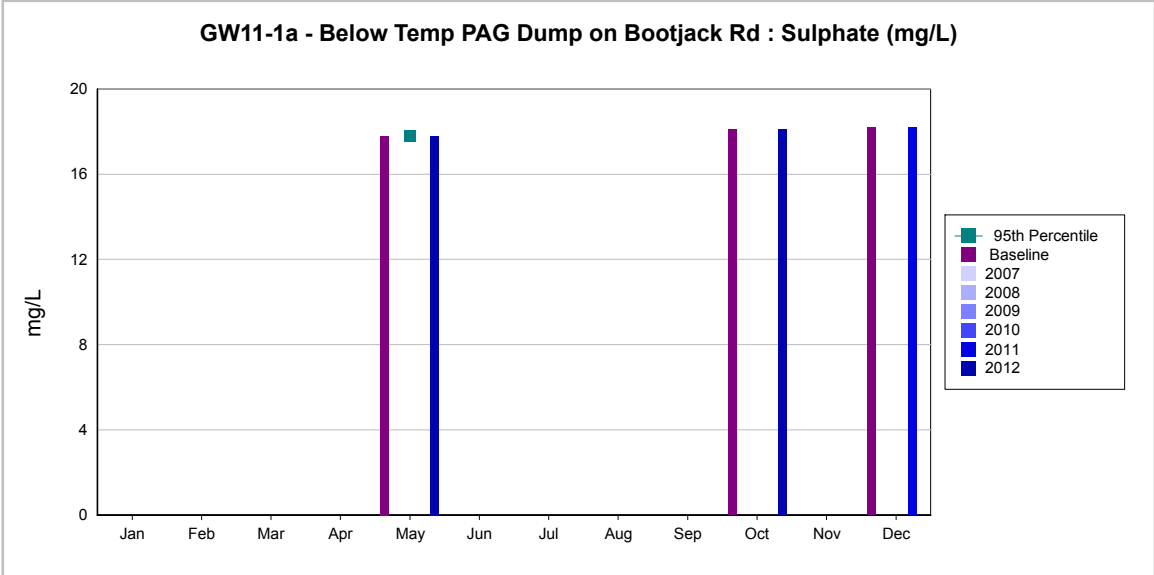
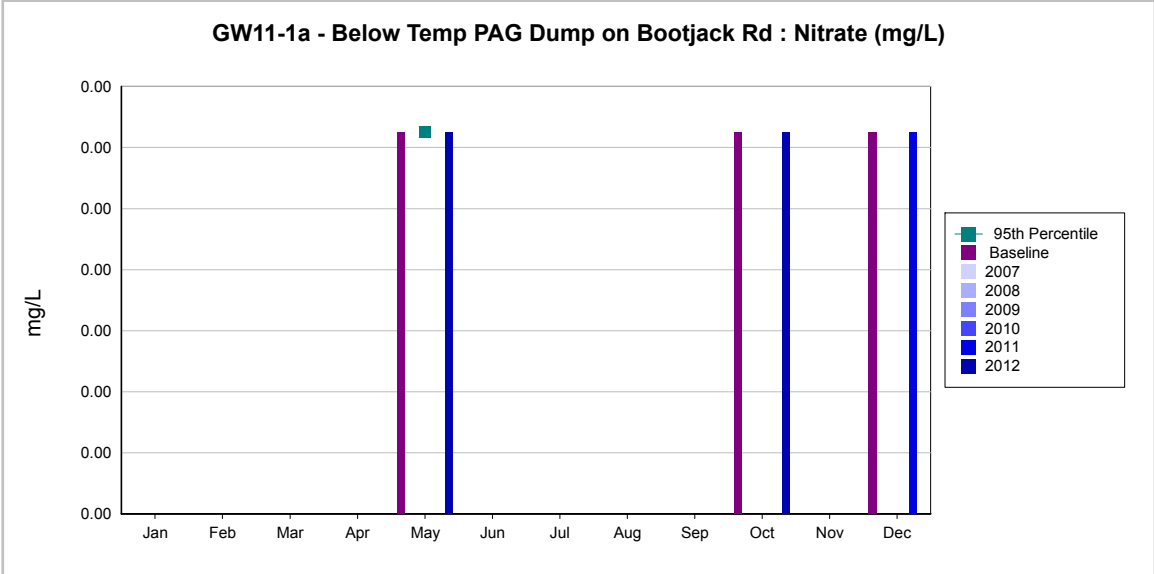
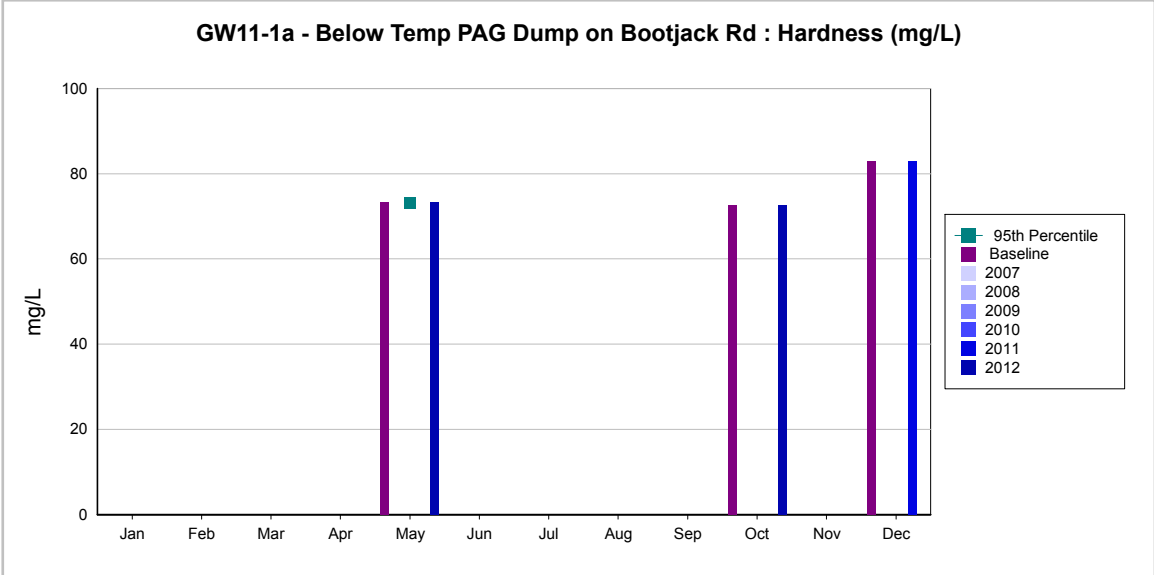


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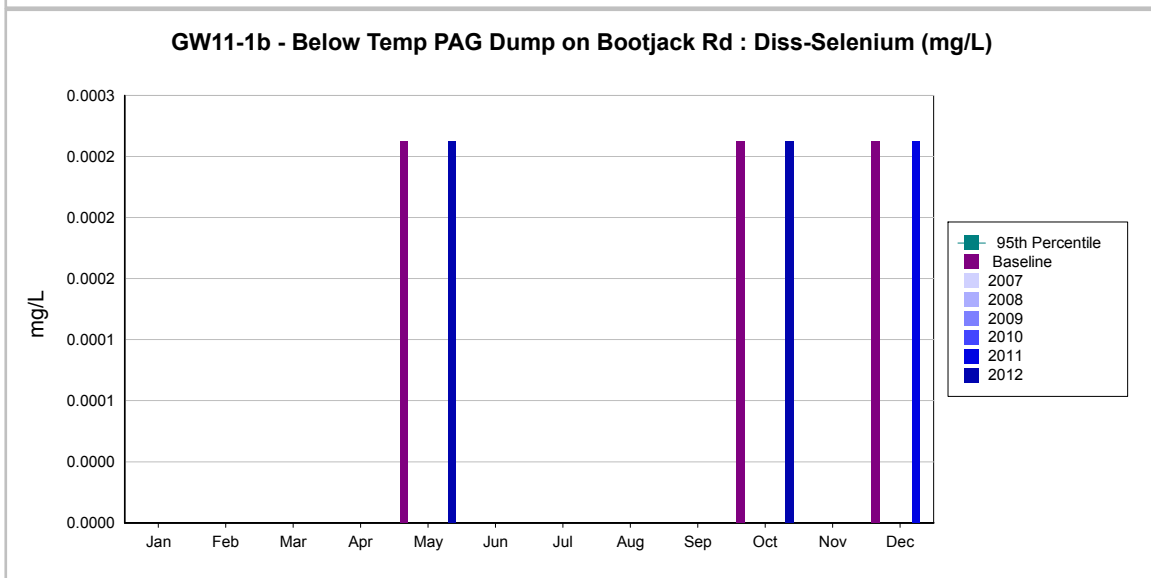
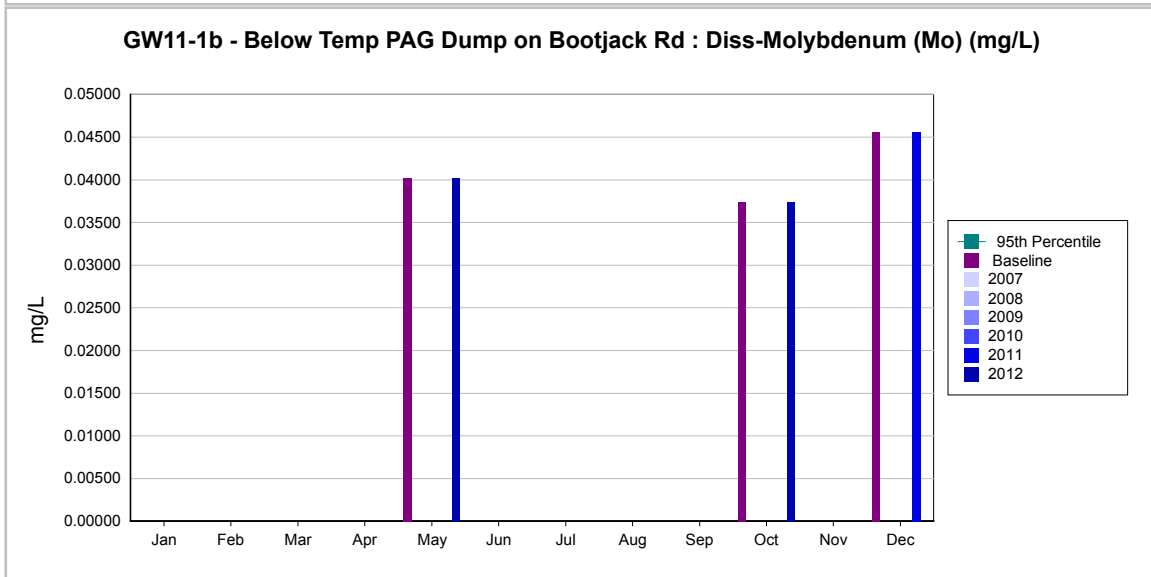
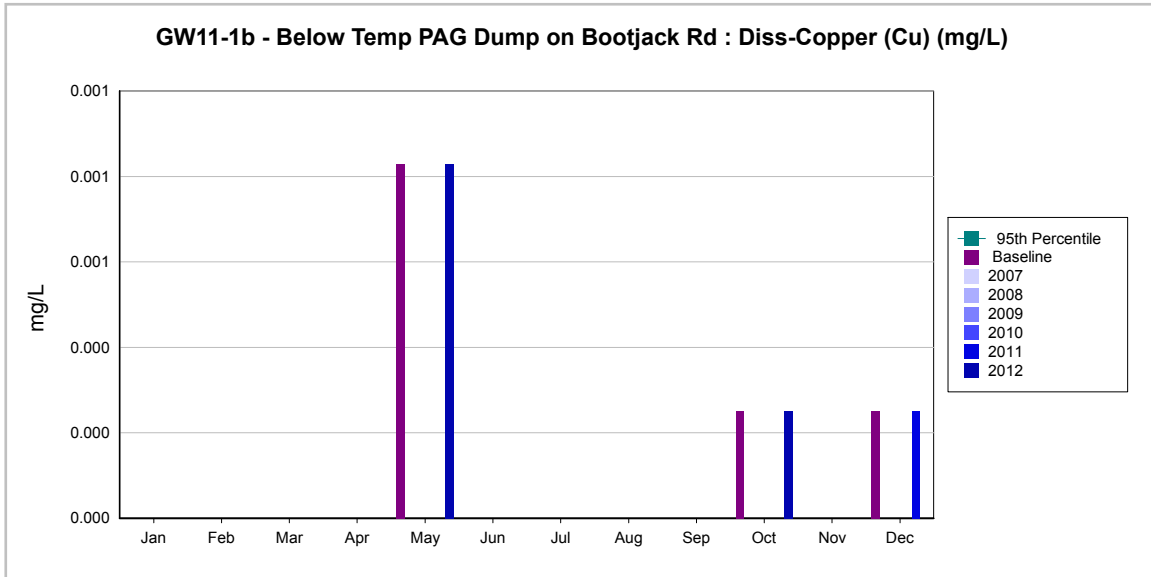
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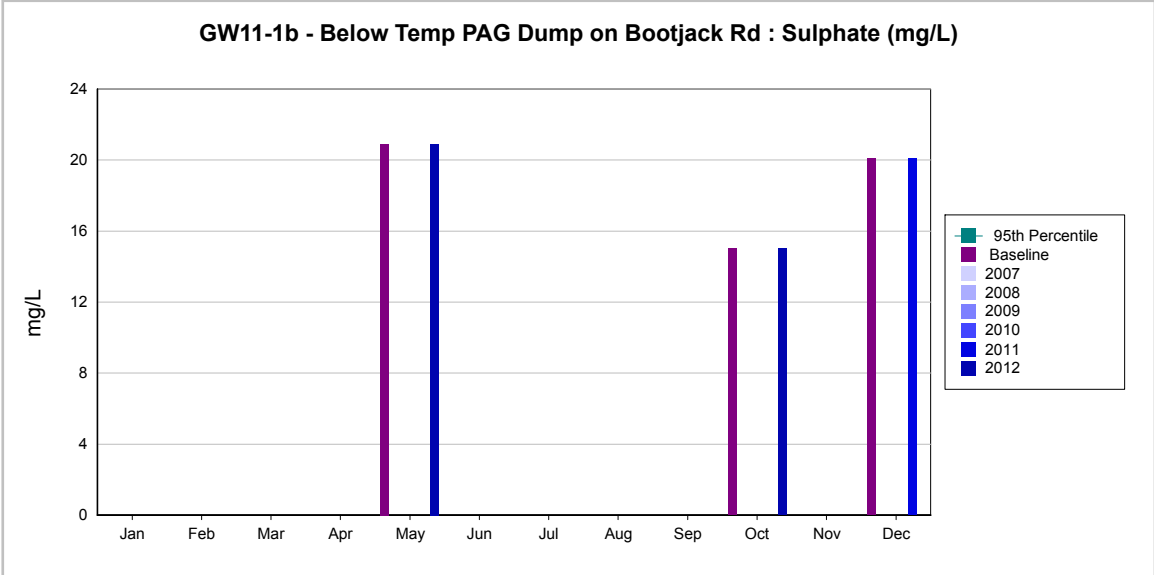
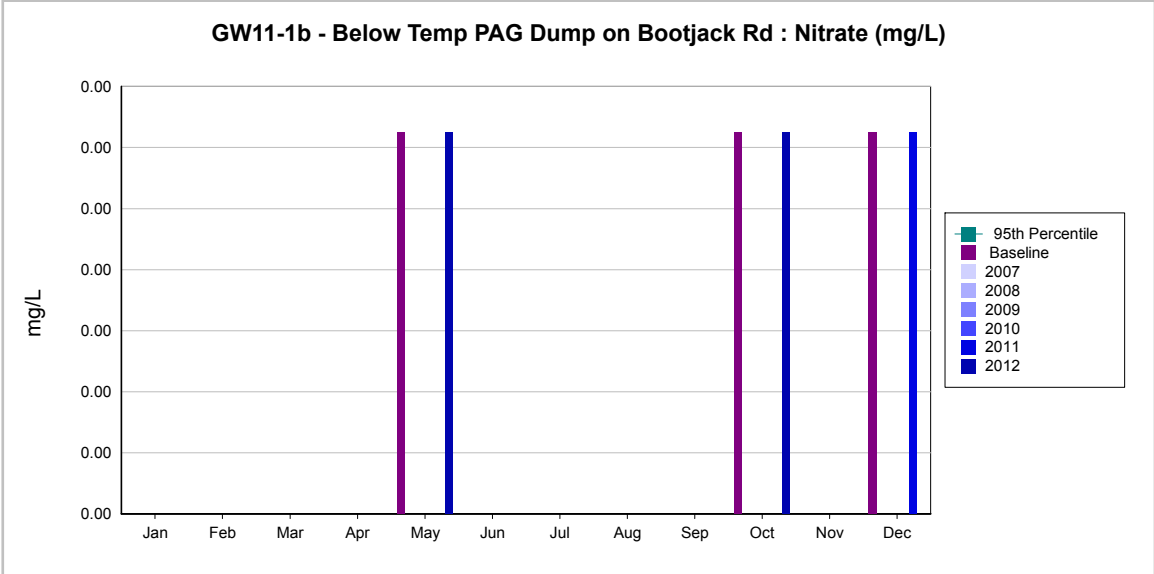
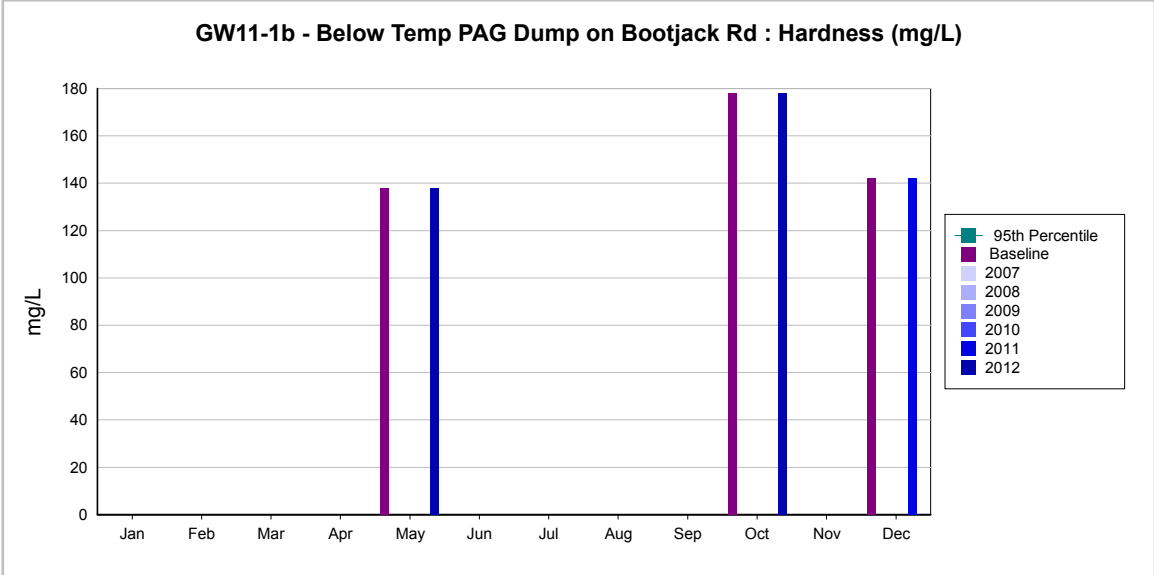


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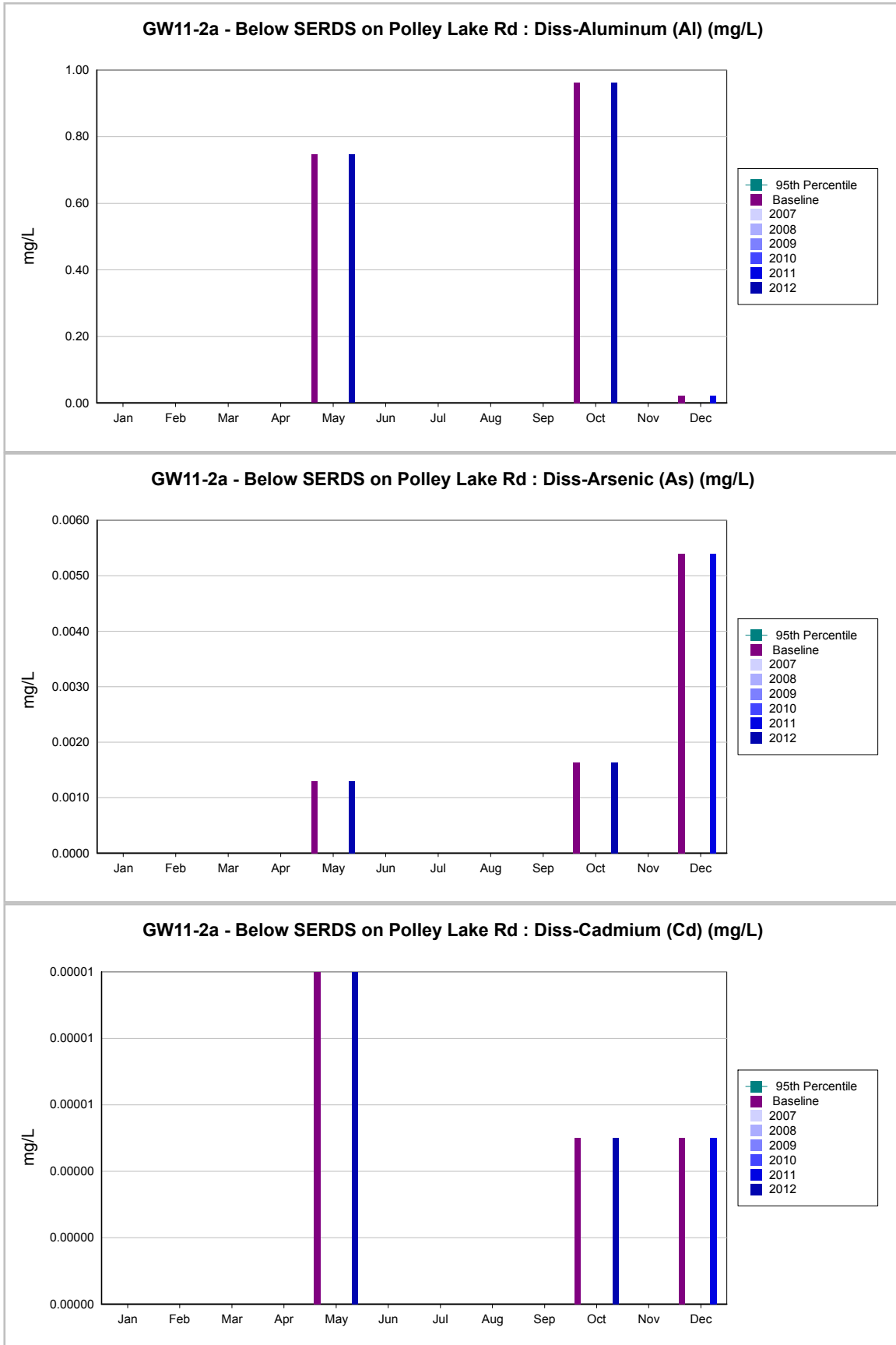
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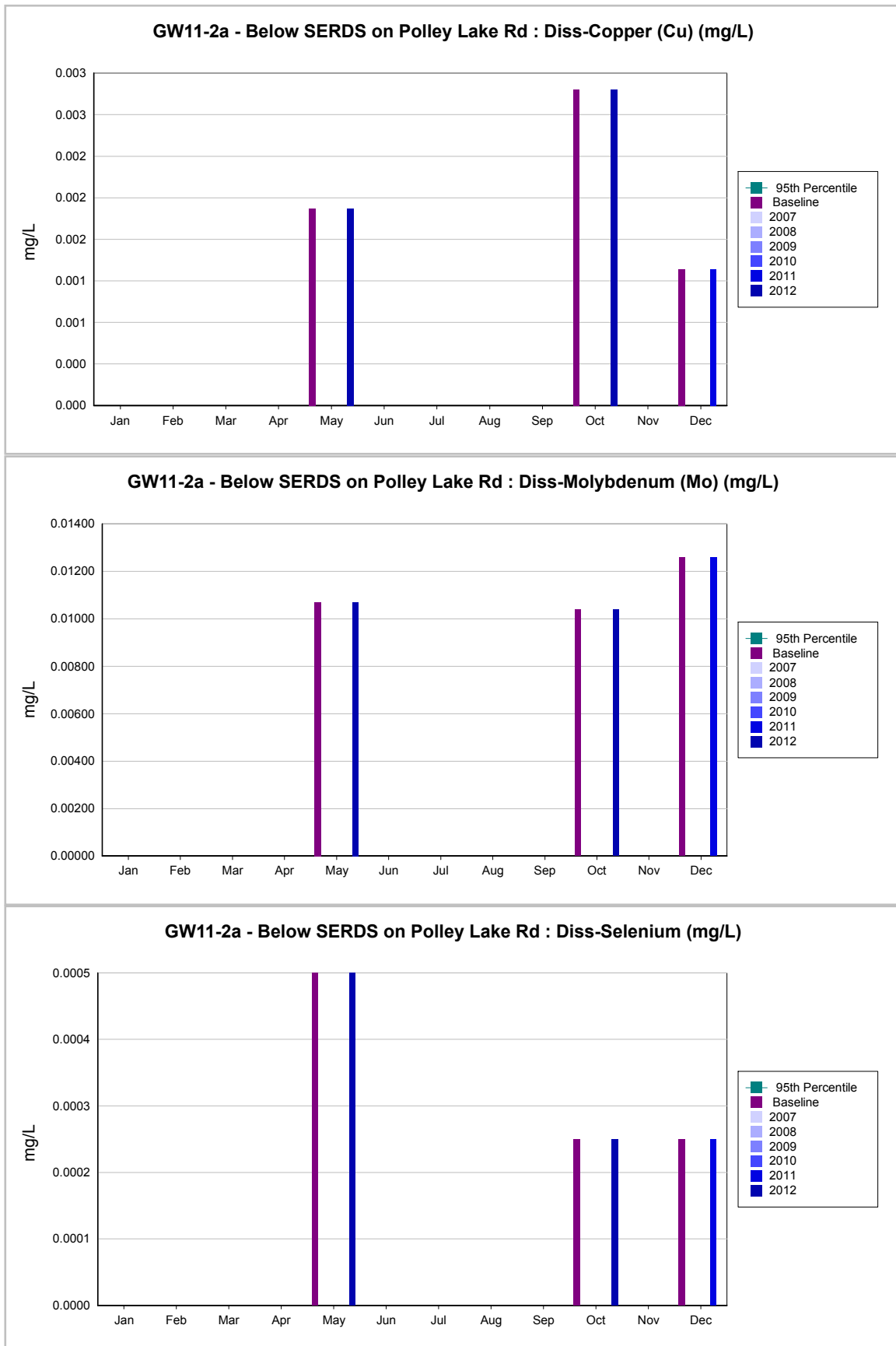
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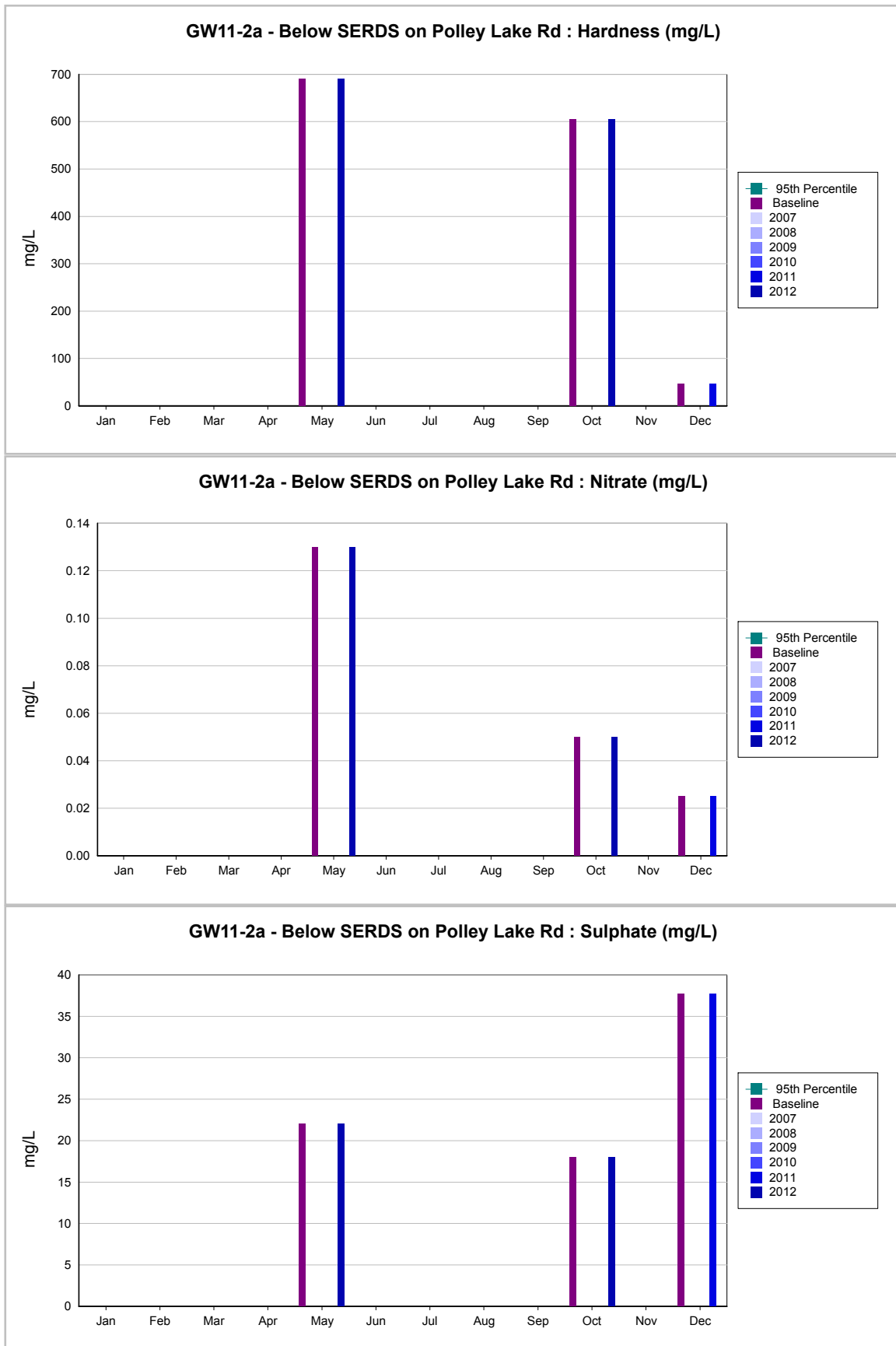
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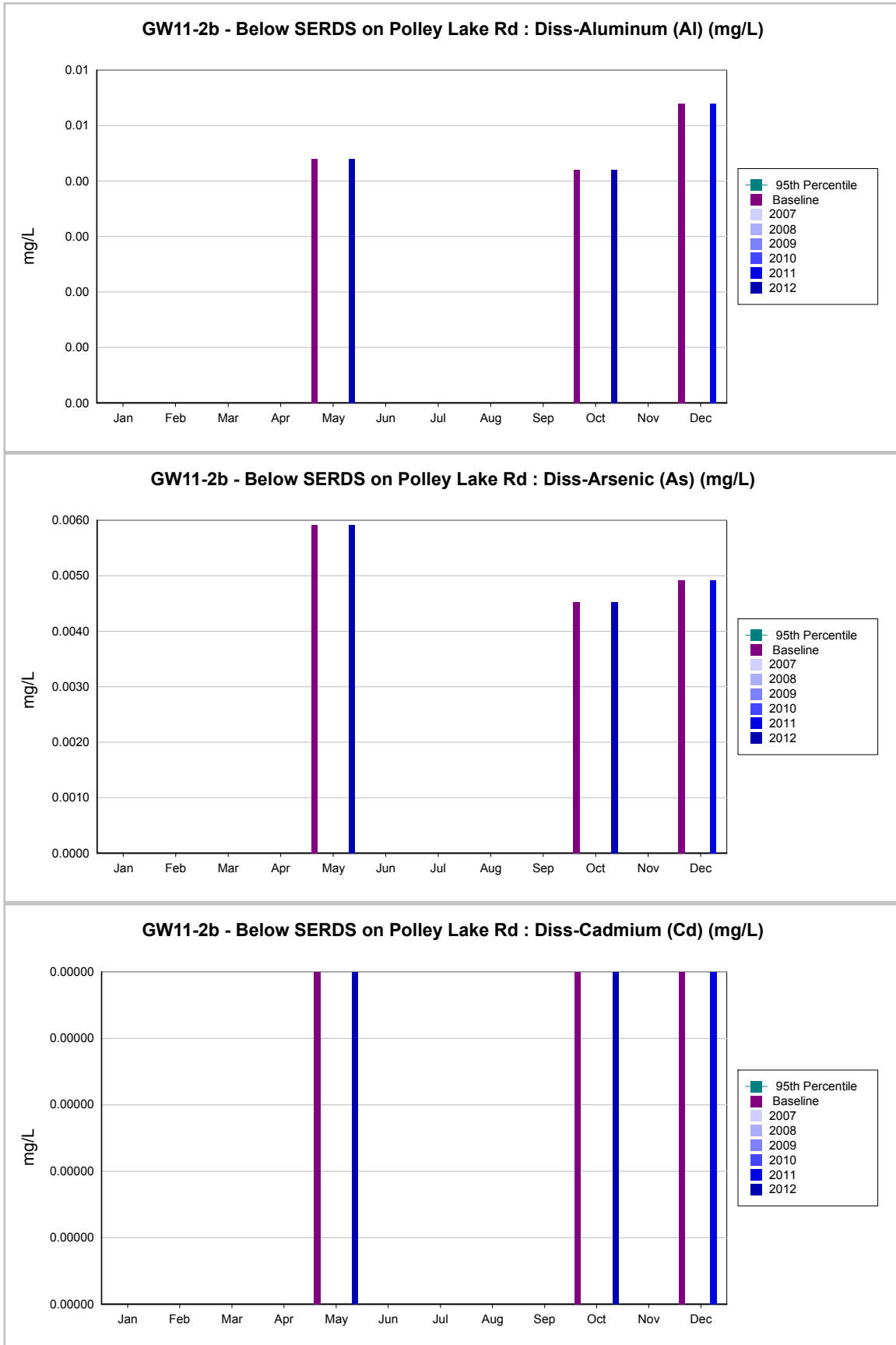
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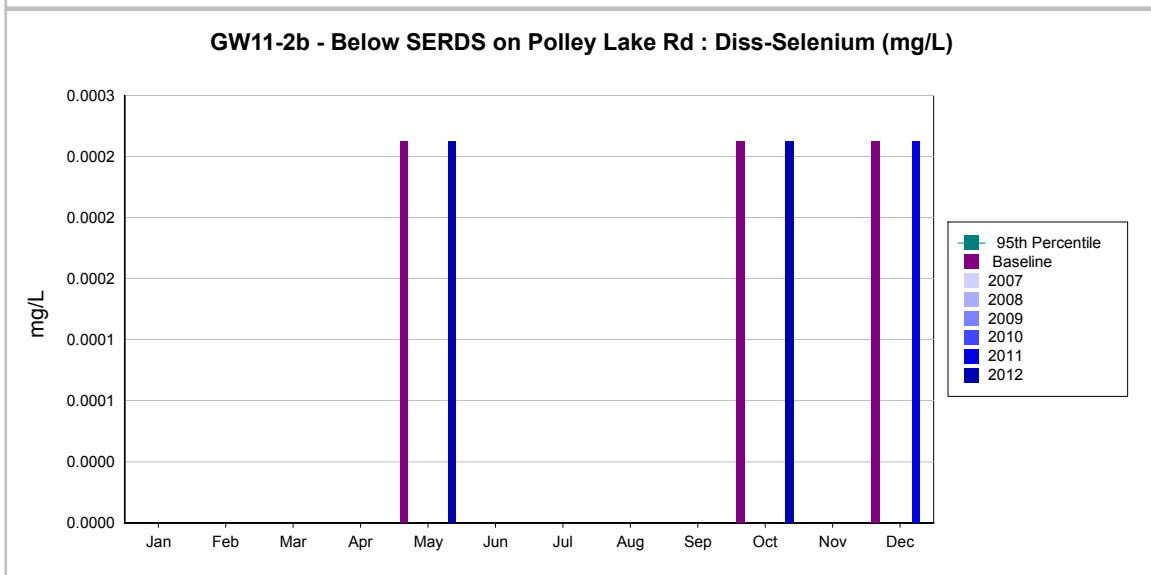
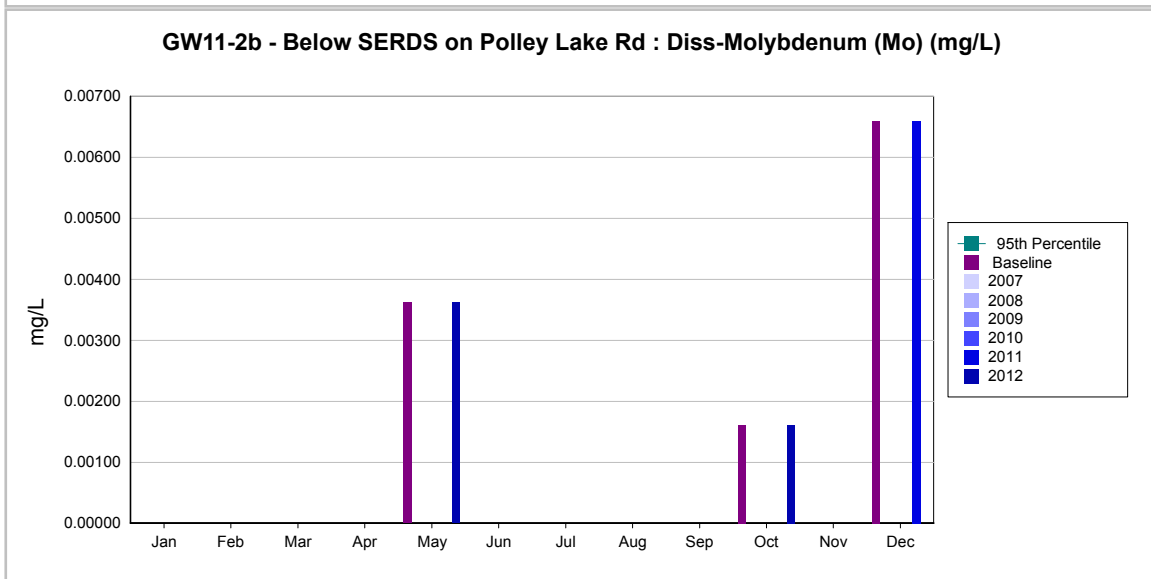
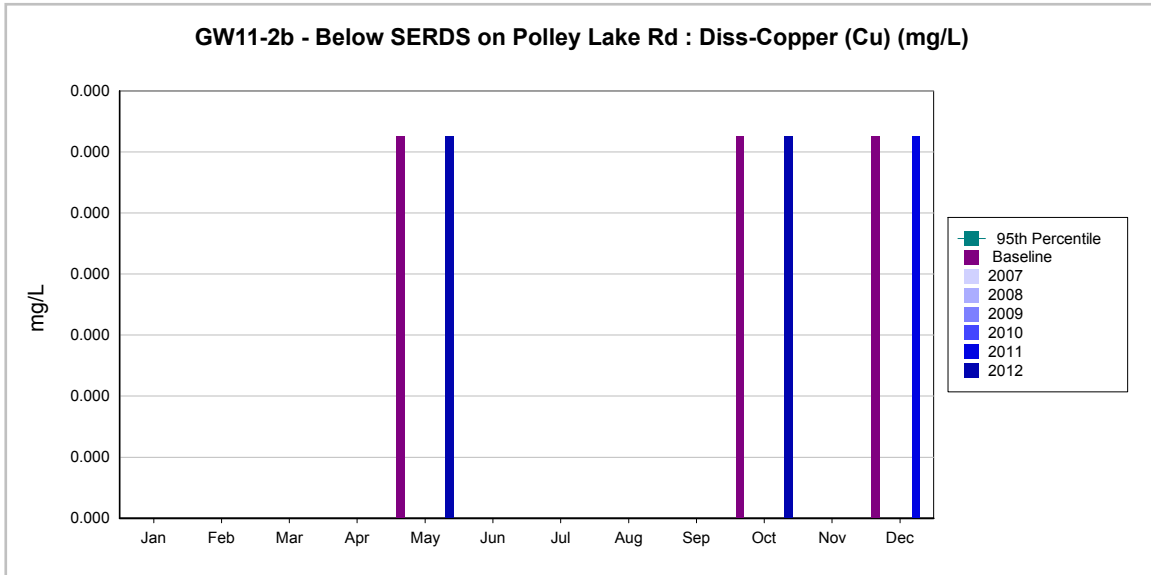
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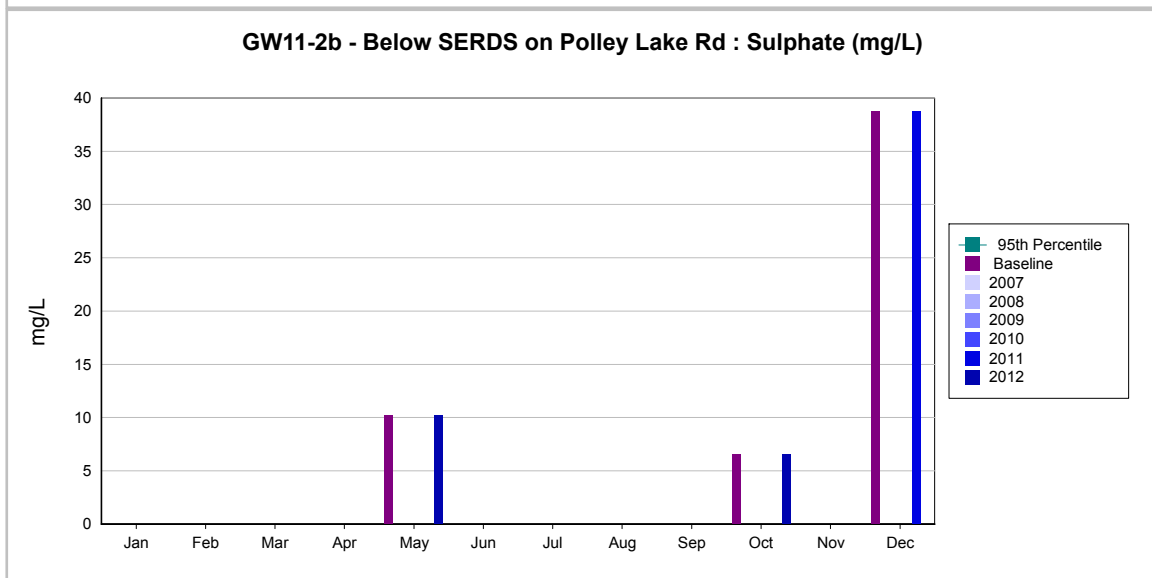
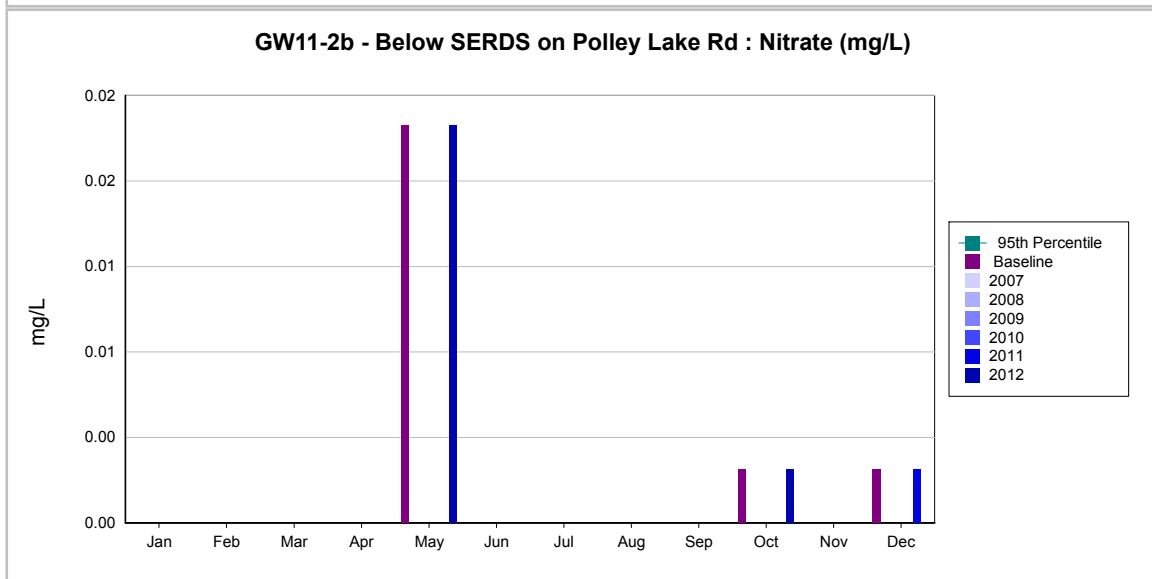
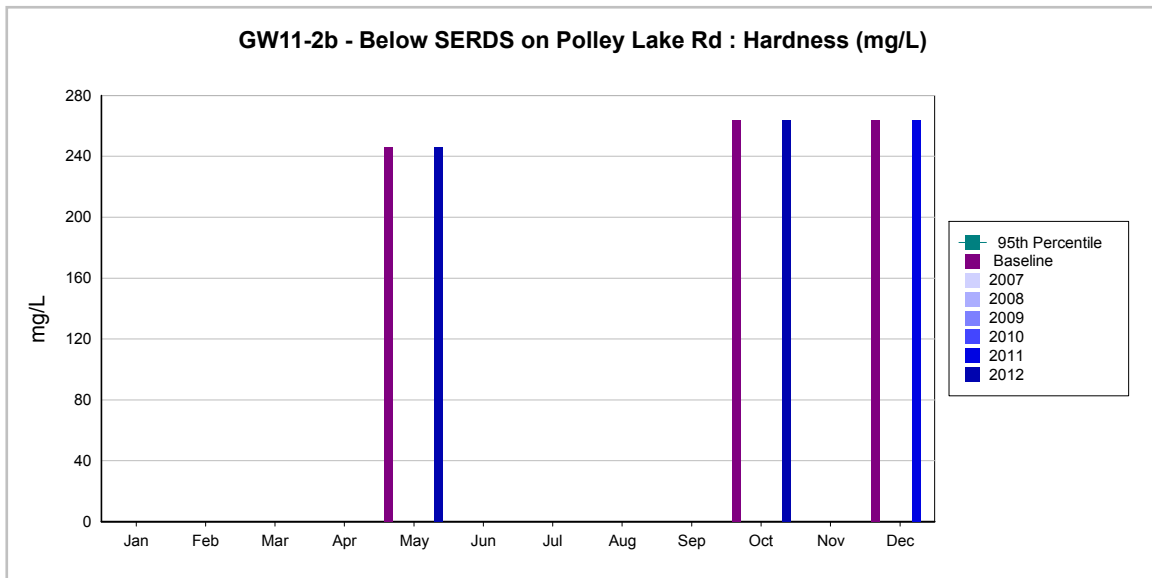
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Grid Format Report

From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



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E229694 : 95-R4 Springer Pit Well (deep)

	18-Jun-07	4-Jun-08	9-Jun-09	29-Jun-10	15-Jun-11	31-May-12	23-Oct-12
Alkalinity (CaCO3) (	103	100	132	254	101		101
Ammonia (as N) (mg/L)	<0.02	<0.005	<0.02	0.0486	<0.005		<0.0050
Chloride (mg/L)					21.3		10.3
Cond (in situ) (µs/cm)	234	218	324	469	378	299	365
Diss-Aluminum (Al) (mg/L)	0.0012	<0.001	0.337	0.742	<0.003		<0.0030
Diss-Antimony (Sb) (mg/L)	0.00033	0.00012	0.00017	0.00448	0.00046		0.00063
Diss-Arsenic (As) (mg/L)	0.00407	0.00365	0.00249	0.0255	0.00289		0.00339
Diss-Barium (Ba) (mg/L)	0.00823	0.00641	0.0158	0.0058	0.0235		0.0236
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	0.000054	0.000055	0.000017		<0.000010
Diss-Calcium (Ca) (mg/L)	31.5	23.9	39.3	15.6	50		47.6
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	0.0013	<0.0005		0.00089
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	0.00061	0.0056	0.00021		0.00015
Diss-Copper (Cu) (mg/L)	0.00021	0.0002	0.0127	0.00135	0.00107		0.00069
Diss-Iron (Fe) (mg/L)	0.08	<0.03	0.241	0.044	<0.03		<0.030
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	0.000361	0.00014	<0.00005		<0.000050
Diss-Magnesium (Mg) (mg/L)	4.15	3.3	4.97	1.33	7.01		6.94
Diss-Manganese (Mn) (mg/L)	0.127	0.0224	0.0243	0.0193	0.00885		0.0323
Diss-Molybdenum (Mo) (mg/L)	0.0535	0.0391	0.0408	0.0146	0.0117		0.0251
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	0.00087	0.0015	<0.0005		0.00159
Diss-Potassium (K) (mg/L)	0.295	0.164	0.264	1.76	0.314		0.231
Diss-Selenium (mg/L)	<0.001	<0.001	0.0022	<0.002	0.0071		0.00458
Diss-Silicon (Si) (mg/L)	9.38	9.14	8.33	10.2	8.05		8.11
Diss-Sodium (Na) (mg/L)	17.3	15.7	23.4	124	16.3		18.4
Diss-Strontium (Sr) (mg/L)	0.0809	0.0593	0.0925	0.138	0.165		0.152
Diss-Zinc (Zn) (mg/L)	0.0036	<0.001	0.0053	<0.002	<0.003		<0.0030
Hardness (mg/L)	95.7	73.3	119	44.4	154		147
Nitrate (mg/L)	<0.005	<0.005	<0.005	0.0214	1.09		1.79
Nitrate and Nitrite (mg/L)	<0.005	<0.005	<0.005	0.0446	1.1		1.8
Nitrite (mg/L)	<0.001	<0.001	<0.001	0.0232	0.0045		0.0149
pH (in situ) (pH)	8.24	8.329	8.13	8.1	7.58	8.02	7.96
Sulphate (mg/L)	12.3	18.4	45.8	62.8	52.6		57.5
Temp (in situ) (Degrees Celcius)	7.3	7.2	8.4	8	7.4	7.8	8.0
Total Nitrogen (mg/L)				0.16	1.32		2.3

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

	E229694 : 95-R4 Springer Pit Well (deep)						
	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	32	32	85.00000	254.00000	106.88750	119.90000	28.13930
Ammonia (as N) (mg/L)	32	10	0.00500	0.04860	0.00893	0.02000	0.00929
Chloride (mg/L)	3	3	6.12000	21.30000	12.57333	20.20000	7.84118
Cond (in situ) (µs/cm)	31	31	150.00000	469.00000	244.72581	332.50000	65.42347
Diss-Aluminum (Al) (mg/L)	34	26	0.00010	0.74200	0.03406	0.01275	0.13765
Diss-Antimony (Sb) (mg/L)	32	28	0.00003	0.00448	0.00031	0.00045	0.00078
Diss-Arsenic (As) (mg/L)	34	34	0.00249	0.02550	0.00415	0.00412	0.00380
Diss-Barium (Ba) (mg/L)	32	29	0.00321	0.02360	0.00856	0.01569	0.00488
Diss-Cadmium (Cd) (mg/L)	32	21	0.00001	0.00014	0.00007	0.00011	0.00004
Diss-Calcium (Ca) (mg/L)	34	34	15.60000	50.00000	29.04118	38.45500	6.83902
Diss-Chromium (Cr) (mg/L)	32	4	0.00010	0.00260	0.00035	0.00068	0.00051
Diss-Cobalt (Co) (mg/L)	32	7	0.00001	0.00560	0.00034	0.00055	0.00103
Diss-Copper (Cu) (mg/L)	34	28	0.00002	0.01270	0.00083	0.00108	0.00212
Diss-Iron (Fe) (mg/L)	34	14	0.00100	0.24100	0.02387	0.07480	0.04345
Diss-Lead (Pb) (mg/L)	34	10	0.00001	0.00165	0.00014	0.00044	0.00031
Diss-Magnesium (Mg) (mg/L)	34	34	1.33000	7.01000	3.91441	4.97000	1.03608
Diss-Manganese (Mn) (mg/L)	34	34	0.00470	0.12700	0.04163	0.09776	0.03308
Diss-Molybdenum (Mo) (mg/L)	34	34	0.01170	0.06300	0.04509	0.05872	0.01273
Diss-Nickel (Ni) (mg/L)	34	4	0.00003	0.00159	0.00033	0.00063	0.00035
Diss-Potassium (K) (mg/L)	34	34	0.07000	1.76000	0.24415	0.29500	0.27707
Diss-Selenium (mg/L)	34	6	0.00005	0.00710	0.00072	0.00217	0.00142
Diss-Silicon (Si) (mg/L)	34	34	8.05000	10.50000	9.17853	10.13500	0.72580
Diss-Sodium (Na) (mg/L)	34	34	13.70000	124.00000	19.69118	19.50500	18.54912
Diss-Strontium (Sr) (mg/L)	34	34	0.05360	0.16500	0.07708	0.10108	0.02676
Diss-Zinc (Zn) (mg/L)	34	15	0.00003	0.00530	0.00111	0.00289	0.00115
Hardness (mg/L)	33	33	44.40000	154.00000	89.33333	130.20000	21.30671
Nitrate (mg/L)	13	5	0.00250	1.79000	0.30372	1.37000	0.58533
Nitrate and Nitrite (mg/L)	30	13	0.00200	1.80000	0.13547	1.03790	0.40808
Nitrite (mg/L)	28	8	0.00050	0.02320	0.00303	0.01284	0.00502
pH (in situ) (pH)	31	31	6.38000	8.47000	8.03126	8.37500	0.44150
Sulphate (mg/L)	31	28	0.00003	62.80000	19.60968	45.80000	15.41175
Temp (in situ) (Degrees Celcius)	28	28	5.60000	11.50000	8.59286	10.84500	1.46463
Total Nitrogen (mg/L)	4	4	0.16000	2.30000	1.21000	2.15300	0.88038

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229695 : 95-R5 Lower SERDS Well (deep)

	21-Jun-07	25-Jun-08	9-Jun-09	2-Sep-09	27-May-10	26-Oct-10	26-May-11	13-Oct-11	23-May-12	10-Oct-12
Alkalinity (CaCO3) (	193	198	204	215	215	212	192	195	203	204
Ammonia (as N) (mg/L)	0.0083	<0.005	<0.005	<0.005	<0.005	<0.005	0.0072	<0.0050	<0.0050	<0.0050
Chloride (mg/L)						<5	<5	<5.0	<5.0	<5.0
Cond (in situ) (µs/cm)	569	925	1042	1118	1164	1272	1032	1244	994	1165
Diss-Aluminum (Al) (mg/L)	<0.002	0.0026	0.0208	<0.002	<0.002	<0.003	<0.003	<0.0060	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.00020	<0.00010	<0.00010
Diss-Arsenic (As) (mg/L)	0.00054	0.0006	0.0005	0.00042	0.00044	0.00041	0.00049	0.00039	0.00043	0.00077
Diss-Barium (Ba) (mg/L)	0.0148	0.0267	0.0305	0.0346	0.0391	0.0519	0.0334	0.0442	0.0305	0.0415
Diss-Cadmium (Cd) (mg/L)	0.000093	0.00027	0.000292	0.00029	0.000293	0.000324	0.000277	0.00029	0.00011	0.00002
Diss-Calcium (Ca) (mg/L)	121	155	169	193	194	229	188	219	170	206
Diss-Chromium (Cr) (mg/L)	<0.001	<0.001	<0.001	0.0012	<0.001	<0.0005	<0.0005	<0.0010	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00125	0.00032	0.00091	0.00089	0.00058	0.0008	0.00054	0.00071	0.00055	0.00084
Diss-Copper (Cu) (mg/L)	0.00068	0.00162	0.00159	0.00187	0.00152	0.00208	0.00076	<0.0010	<0.00050	<0.00050
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030	<0.030	0.385
Diss-Lead (Pb) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00010	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	24.9	35.6	38.8	41.2	45.7	51.2	37.3	48.2	35.5	46.3
Diss-Manganese (Mn) (mg/L)	1.41	1.19	1.65	1.64	1.89	2.32	1.67	2.09	1.48	1.97
Diss-Molybdenum (Mo) (mg/L)	0.0246	0.0169	0.0157	0.016	0.0148	0.0141	0.0166	0.0143	0.0166	0.0151
Diss-Nickel (Ni) (mg/L)	<0.001	<0.001	0.0012	<0.001	<0.001	<0.0005	<0.0005	<0.0010	<0.00050	<0.00050
Diss-Potassium (K) (mg/L)	0.89	1.01	1.19	1.16	1.14	1.4	1.07	1.3	0.959	1.19
Diss-Selenium (mg/L)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	0.00051	<0.0010	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	7.29	7.2	7.5	7.67	7.85	8.61	8.29	8.8	8.2	8.7
Diss-Sodium (Na) (mg/L)	7.55	8.3	9.03	9.56	9.64	11.5	8.81	11.1	8.09	10.2
Diss-Strontium (Sr) (mg/L)	0.342	0.418	0.463	0.54	0.585	0.776	0.578	0.715	0.529	0.701
Diss-Zinc (Zn) (mg/L)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.003	<0.003	<0.0060	<0.0030	<0.0030
Hardness (mg/L)	404	533	581	652	672	782	623	746	571	706
Nitrate (mg/L)	3.11	1.39	0.586	0.299	0.13	<0.05	<0.05	<0.050	0.055	0.089
Nitrate and Nitrite (mg/L)	3.31	1.66	0.772	0.472	0.246	<0.051	<0.051	0.053	0.066	0.089
Nitrite (mg/L)	0.199	0.266	0.186	0.173	0.116	0.015	0.019	0.053	0.011	<0.010
pH (in situ) (pH)	7.61	7.545	7.36	7.82	7.69	7.47	7.4	7.4	7.5	7.220
Sulphate (mg/L)	168	310	380	447	473	531	404	524	374	490
Temp (in situ) (Degrees Celcius)	6.8	7.1	6.5	8.1	6.8	7.1	7.1	6.8	6.8	6.4
Total Nitrogen (mg/L)					0.39	<0.05	0.14	0.14	<0.050	0.05

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Printed : 27/03/2013



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	E229695 : 95-R5 Lower SERDS Well (deep)						
	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	35	35	90.40000	215.00000	179.29714	212.90000	28.02408
Ammonia (as N) (mg/L)	34	16	0.00500	0.03100	0.01081	0.02700	0.00790
Chloride (mg/L)	5	0	2.50000	2.50000	2.50000	2.50000	0.00000
Cond (in situ) (µs/cm)	30	30	311.00000	1,272.00000	598.53333	1,164.55000	347.80392
Diss-Aluminum (Al) (mg/L)	36	22	0.00010	0.04300	0.00379	0.00755	0.00766
Diss-Antimony (Sb) (mg/L)	33	11	0.00003	0.00039	0.00008	0.00020	0.00008
Diss-Arsenic (As) (mg/L)	36	36	0.00039	0.00150	0.00086	0.00140	0.00034
Diss-Barium (Ba) (mg/L)	33	32	0.00390	0.05190	0.01543	0.04006	0.01408
Diss-Cadmium (Cd) (mg/L)	33	28	0.00001	0.00032	0.00010	0.00029	0.00010
Diss-Calcium (Ca) (mg/L)	35	35	45.50000	229.00000	94.48571	197.60000	60.30835
Diss-Chromium (Cr) (mg/L)	33	3	0.00010	0.00240	0.00032	0.00078	0.00044
Diss-Cobalt (Co) (mg/L)	33	26	0.00001	0.00232	0.00042	0.00090	0.00048
Diss-Copper (Cu) (mg/L)	36	30	0.00005	0.00208	0.00058	0.00168	0.00053
Diss-Iron (Fe) (mg/L)	36	27	0.01500	0.63900	0.22336	0.45400	0.18400
Diss-Lead (Pb) (mg/L)	36	8	0.00001	0.00050	0.00007	0.00019	0.00011
Diss-Magnesium (Mg) (mg/L)	36	36	6.63000	51.20000	19.92167	45.85000	13.69223
Diss-Manganese (Mn) (mg/L)	36	36	0.03690	2.32000	0.84805	1.91000	0.61586
Diss-Molybdenum (Mo) (mg/L)	36	36	0.01410	0.03460	0.02428	0.03168	0.00577
Diss-Nickel (Ni) (mg/L)	36	3	0.00003	0.00120	0.00029	0.00050	0.00020
Diss-Potassium (K) (mg/L)	36	36	0.40000	11.50000	1.12344	1.21750	1.79650
Diss-Selenium (mg/L)	36	4	0.00005	0.00100	0.00038	0.00100	0.00029
Diss-Silicon (Si) (mg/L)	36	36	7.20000	9.94000	8.17000	9.49750	0.73744
Diss-Sodium (Na) (mg/L)	36	36	4.12000	11.50000	7.59389	9.78000	1.59762
Diss-Strontium (Sr) (mg/L)	36	36	0.14600	0.77600	0.28058	0.61400	0.19256
Diss-Zinc (Zn) (mg/L)	36	16	0.00003	0.00300	0.00112	0.00258	0.00083
Hardness (mg/L)	34	34	141.00000	782.00000	322.11765	720.00000	209.42718
Nitrate (mg/L)	15	10	0.01000	3.11000	0.52293	1.90600	0.84802
Nitrate and Nitrite (mg/L)	34	22	0.00250	3.31000	0.26676	1.27650	0.66249
Nitrite (mg/L)	29	15	0.00050	0.26600	0.04005	0.19380	0.07327
pH (in situ) (pH)	30	30	6.50000	8.23000	7.60683	7.93300	0.37150
Sulphate (mg/L)	35	33	0.00003	531.00000	134.82572	478.10000	186.05471
Temp (in situ) (Degrees Celcius)	29	29	6.40000	10.30000	7.98966	9.82000	1.11270
Total Nitrogen (mg/L)	6	4	0.02500	0.39000	0.12833	0.32750	0.13873

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E242385 : GW00-1a - Tailings Impoundment West Well (deep)

	26-Apr-07	11-Oct-07	23-Apr-08	18-Nov-08	10-Jun-09	30-Sep-09	25-May-10	28-Oct-10	24-May-11	20-Oct-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) (	114	125	136	122	125	111	129	112	115	116	132	113
Ammonia (as N) (mg/L)	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0078	<0.0050	<0.0050	<0.0050
Chloride (mg/L)								8.4	7.3	7.5	7.9	17.9
Cond (in situ) (µs/cm)	796	764	787	756	839	842	812	825	825	837	846	837
Diss-Aluminum (Al) (mg/L)	0.0662	0.058	0.18	0.0973	0.017	0.0488	0.0058	0.0185	0.0177	0.0092	0.0349	0.0111
Diss-Antimony (Sb) (mg/L)	0.00039	<0.0005	0.00055	0.00075	0.00079	0.00276	0.00123	0.00108	0.00063	0.00054	0.00044	0.00043
Diss-Arsenic (As) (mg/L)	0.0345	0.0261	0.0222	0.0217	0.0314	0.0235	0.0233	0.0222	0.0216	0.0221	0.0205	0.0204
Diss-Barium (Ba) (mg/L)	0.0217	0.0237	0.0224	0.0135	0.0212	0.0238	0.018	0.017	0.0159	0.0135	0.0411	0.0165
Diss-Cadmium (Cd) (mg/L)	<0.000034	0.000097	<0.000034	<0.000034	0.000037	<0.000034	<0.000034	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	6.51	6.65	6.62	6.65	9.59	7.92	8.02	7.26	8.14	7.97	10.6	8.05
Diss-Chromium (Cr) (mg/L)	0.0015	<0.0025	<0.001	0.0017	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00074	0.00267	0.00584	0.00127	0.0014	<0.0002	<0.0002	<0.0001	0.00058	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00111	<0.0005	0.00058	0.00126	0.00177	0.00102	0.00054	<0.0005	0.00146	<0.00050	0.0006	<0.00050
Diss-Iron (Fe) (mg/L)	0.031	<0.03	0.094	0.077	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.00047	<0.00025	0.00016	0.00018	0.00021	0.00012	<0.0001	0.00006	0.000078	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	3.47	3.79	3.28	3.45	3.53	3.54	3.56	3.65	3.88	3.63	3.37	3.45
Diss-Manganese (Mn) (mg/L)	0.0584	0.0679	0.066	0.0399	0.0356	0.0239	0.0282	0.0316	0.0208	0.0181	0.0181	0.0361
Diss-Molybdenum (Mo) (mg/L)	0.021	0.0219	0.0237	0.0228	0.0209	0.0231	0.0214	0.0213	0.0217	0.0216	0.0228	0.023
Diss-Nickel (Ni) (mg/L)	0.0016	<0.0025	0.0027	0.0015	0.0013	<0.001	<0.001	0.0007	0.00096	0.00061	0.00055	0.00065
Diss-Potassium (K) (mg/L)	1.27	0.85	0.94	1.7	1.17	1.22	0.98	1.19	1.12	1.4	1.54	1.26
Diss-Selenium (mg/L)	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	2.71	2.81	3.26	2.98	2.6	2.86	3.01	3	3.1	3.2	3.19	3.08
Diss-Sodium (Na) (mg/L)	152	162	172	160	163		168	158	153	154	150	153
Diss-Strontium (Sr) (mg/L)	1.27	1.38	1.17	1.2	1.22	1.32	1.19	1.26	1.11	1.06	1.13	1.08
Diss-Zinc (Zn) (mg/L)	<0.002	<0.005	0.0023	<0.002	<0.002	<0.002	<0.002	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	30.6	32.2	30	30.8	38.5	34.3	34.7	33.1	36.3	34.9	40.3	34.3
Nitrate (mg/L)	0.0093	<0.005	<0.005	<0.005	0.0497	<0.025	<0.005	<0.05	<0.025	0.026	0.061	<0.050
Nitrate and Nitrite (mg/L)	0.0093	<0.005	<0.005	<0.005	0.0839	<0.03	<0.005	<0.051	<0.025	0.026	0.061	<0.051
Nitrite (mg/L)	<0.001	<0.001	<0.001	<0.001	0.0342	<0.005	<0.001	<0.01	<0.005	<0.0050	<0.010	<0.010
pH (in situ) (pH)	8.92	8.98	9.06	8.5	9.62	9.71		8.76	8.91	9.31	9.39	9.12
Sulphate (mg/L)	238	239	239	245	254	259	253	264	266	260	246	278
Temp (in situ) (Degrees Celcius)	5.8	6.3	7.9	5.4	8.8	7.4	7.9	6.3	8.1	6.5	7.2	7.9
Total Nitrogen (mg/L)							0.14	<0.05	0.19	<0.050	0.05	0.09

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Printed : 27/03/2013



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E242385 : GW00-1a - Tailings Impoundment West Well (deep)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	26	26	107.00000	162.00000	124.53846	144.50000	12.06393
Ammonia (as N) (mg/L)	25	4	0.00300	0.02000	0.00638	0.01774	0.00422
Chloride (mg/L)	5	5	7.30000	17.90000	9.80000	16.00000	4.54753
Cond (in situ) (µs/cm)	26	26	606.00000	932.00000	802.00000	910.50000	72.04665
Diss-Aluminum (Al) (mg/L)	27	27	0.00580	0.18000	0.03916	0.09628	0.03844
Diss-Antimony (Sb) (mg/L)	27	25	0.00010	0.00276	0.00061	0.00119	0.00050
Diss-Arsenic (As) (mg/L)	27	27	0.02040	0.13300	0.04424	0.09865	0.02890
Diss-Barium (Ba) (mg/L)	27	27	0.01350	0.06270	0.02887	0.05416	0.01295
Diss-Cadmium (Cd) (mg/L)	27	13	0.00001	0.00010	0.00004	0.00008	0.00003
Diss-Calcium (Ca) (mg/L)	25	25	6.25000	13.70000	7.95520	11.70000	1.94167
Diss-Chromium (Cr) (mg/L)	27	13	0.00010	0.00170	0.00069	0.00164	0.00051
Diss-Cobalt (Co) (mg/L)	27	21	0.00005	0.00584	0.00097	0.00385	0.00135
Diss-Copper (Cu) (mg/L)	27	23	0.00025	0.00350	0.00137	0.00327	0.00097
Diss-Iron (Fe) (mg/L)	27	11	0.00250	0.09400	0.02641	0.08400	0.02588
Diss-Lead (Pb) (mg/L)	27	18	0.00001	0.00047	0.00015	0.00035	0.00012
Diss-Magnesium (Mg) (mg/L)	26	26	3.24000	5.42000	3.75962	5.20250	0.57963
Diss-Manganese (Mn) (mg/L)	27	27	0.01810	0.24100	0.07041	0.20990	0.05777
Diss-Molybdenum (Mo) (mg/L)	27	27	0.01650	0.02780	0.02164	0.02608	0.00235
Diss-Nickel (Ni) (mg/L)	27	24	0.00050	0.00570	0.00193	0.00387	0.00131
Diss-Potassium (K) (mg/L)	27	26	0.59000	2.00000	1.05448	1.65200	0.35064
Diss-Selenium (mg/L)	27	1	0.00025	0.00250	0.00060	0.00100	0.00052
Diss-Silicon (Si) (mg/L)	26	26	2.27000	3.26000	2.81038	3.22250	0.27705
Diss-Sodium (Na) (mg/L)	25	25	145.00000	188.00000	162.44000	185.00000	11.47853
Diss-Strontium (Sr) (mg/L)	27	27	0.93200	2.36000	1.35600	1.96400	0.32793
Diss-Zinc (Zn) (mg/L)	27	13	0.00050	0.00530	0.00166	0.00389	0.00109
Hardness (mg/L)	25	25	29.00000	53.60000	35.41600	51.46000	6.78612
Nitrate (mg/L)	18	4	0.00250	0.06100	0.01533	0.05140	0.01667
Nitrate and Nitrite (mg/L)	25	6	0.00100	0.08390	0.01223	0.05400	0.02002
Nitrite (mg/L)	20	2	0.00050	0.03420	0.00364	0.00646	0.00736
pH (in situ) (pH)	25	25	5.98000	10.07000	8.87560	9.69200	0.78246
Sulphate (mg/L)	25	25	187.00000	336.00000	247.60000	292.40000	30.37817
Temp (in situ) (Degrees Celcius)	25	25	4.50000	11.00000	7.87200	10.88000	1.78525
Total Nitrogen (mg/L)	6	4	0.02500	0.19000	0.08667	0.17750	0.06706

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Printed : 27/03/2013



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E242384 : GW00-1b - Tailings Impoundment West Well (shallow)

	26-Apr-07	11-Oct-07	23-Apr-08	18-Nov-08	10-Jun-09	30-Sep-09	18-May-10	19-May-10	20-Oct-10	11-May-11	13-Oct-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) (	291	298	307	299	246	231	237	241	244	243	233	255	253
Ammonia (as N) (mg/L	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	0.0078	0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Chloride (mg/L)									<5	<5	<5.0	<5.0	<5.0
Cond (in situ) (µs/cm)	549	526	550	733	936	1036	934	928	952	909	1124	891	995
Diss-Aluminum (Al) (mg/L)	0.0339	0.0123	0.063	0.422	0.007	0.0031	<0.002	<0.002	<0.003	<0.003	<0.0030	0.0071	<0.0030
Diss-Antimony (Sb) (mg/L)	0.00011	0.00013	0.00023	0.00047	0.0002	0.00031	0.00029	<0.0002	0.00017	0.00017	0.00015	0.00013	0.00013
Diss-Arsenic (As) (mg/L)	0.00072	0.00077	0.00111	0.00124	0.0006	0.00058	0.00047	0.00051	0.0005	0.00054	0.00054	0.00079	0.00068
Diss-Barium (Ba) (mg/L)	0.0399	0.0402	0.0468	0.0634	0.0705	0.103	0.0827	0.074	0.108	0.0934	0.109	0.117	0.0976
Diss-Cadmium (Cd) (mg/L)	0.000042	0.000027	0.000186	0.000102	0.000107	0.000162	0.000118	0.000108	0.000118	0.000089	0.000123	0.000064	0.000095
Diss-Calcium (Ca) (mg/L)	53.7	53.8	62.6	85.2	103	124	123	111	118	105	137	103	125
Diss-Chromium (Cr) (mg/L)	0.0006	<0.0005	<0.002	0.00378	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00033	0.00039	0.00031	0.00061	0.00127	0.0004	0.00029	0.00026	0.00033	0.00054	0.00042	0.0002	0.00034
Diss-Copper (Cu) (mg/L)	0.00068	0.00067	0.00156	0.0108	0.00181	0.00236	0.00103	0.00097	0.00151	0.00152	0.00122	0.0011	0.00126
Diss-Iron (Fe) (mg/L)	0.045	<0.03	0.809	0.375	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.000122	0.000059	<0.00005	0.00157	<0.0001	0.00014	<0.0001	<0.0001	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	32.3	33.2	37.2	45.1	49.1	55.7	54.2	50.8	56.8	49.3	60.8	50.2	59.1
Diss-Manganese (Mn) (mg/L)	0.0667	0.0364	0.1	0.234	0.827	1.34	1.03	0.9	1.24	1.02	1.74	0.841	1.29
Diss-Molybdenum (Mo) (mg/L)	0.00403	0.00425	0.00431	0.00337	0.00457	0.00961	0.0168	0.0145	0.0202	0.0231	0.0274	0.041	0.0404
Diss-Nickel (Ni) (mg/L)	0.00071	0.00057	0.00188	0.00312	0.0036	0.0031	0.0019	0.0017	0.00213	0.0019	0.00254	0.00702	0.00193
Diss-Potassium (K) (mg/L)	0.753	0.82	0.818	0.853	0.94	1.16	0.98	0.94	1.16	1.06	1.34	1	1.24
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	0.0066	<0.002	0.0096	0.0075	0.0077	0.0139	0.029	0.00875	0.00562
Diss-Silicon (Si) (mg/L)	7.27	7.85	9.58	8.96	6.6	7.73	6.81	6.69	7.68	6.47	7.34	6.6	7.19
Diss-Sodium (Na) (mg/L)	22.4	24.1	22.9	21.7	22	23.5	25	25.3	22.4	26.1	27.8	23.8	25.7
Diss-Strontium (Sr) (mg/L)	0.809	0.795	0.925	1.16	1.42	1.67	1.47	1.37	1.57	1.36	1.72	1.36	1.76
Diss-Zinc (Zn) (mg/L)	0.0012	0.0016	<0.001	0.0077	<0.002	<0.002	<0.002	<0.002	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	267	271	309	398	459	540	531	486	528	465	593	464	557
Nitrate (mg/L)	<0.005	<0.005	0.0144	0.0778	13.1	11.3	9.3	7.82	7.71	8.01	17.1	6.86	6.75
Nitrate and Nitrite (mg/L)	<0.005	<0.005	0.0187	0.0778	13.2	11.4	9.34	7.88	7.81	8.04	17.2	7	7
Nitrite (mg/L)	<0.001	<0.001	0.0043	<0.001	0.0154	0.057	0.0418	0.0634	0.098	0.026	0.108	0.138	0.251
pH (in situ) (pH)	7.63	7.8	7.818	7.5	7.6	7.87		7.5	7.5	7.64	7.54	7.52	7.35
Sulphate (mg/L)	7.95	8.49	34.1	123	258	307	288	250	273	232	345	205	300
Temp (in situ) (Degrees Celcius)	6.1	7.4	5.65	7.7	7.5	9.6	7.7	7.9	9.7	6.8	8.0	6.2	8.7
Total Nitrogen (mg/L)							13.1	11.6	10.3	13.6	26.4	11	8.23

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



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E242384 : GW00-1b - Tailings Impoundment West Well (shallow)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	30	30	200.00000	325.00000	274.83333	306.55000	29.67070
Ammonia (as N) (mg/L)	29	5	0.00300	0.02000	0.00751	0.02000	0.00535
Chloride (mg/L)	5	0	2.50000	2.50000	2.50000	2.50000	0.00000
Cond (in situ) (µs/cm)	27	27	447.00000	1,124.00000	682.40741	1,023.70000	214.65827
Diss-Aluminum (Al) (mg/L)	30	24	0.00050	0.42200	0.03144	0.07509	0.07688
Diss-Antimony (Sb) (mg/L)	30	28	0.00003	0.00047	0.00018	0.00030	0.00009
Diss-Arsenic (As) (mg/L)	30	30	0.00047	0.00239	0.00085	0.00138	0.00037
Diss-Barium (Ba) (mg/L)	30	30	0.03990	0.11700	0.06291	0.11175	0.02673
Diss-Cadmium (Cd) (mg/L)	30	25	0.00001	0.00019	0.00006	0.00014	0.00005
Diss-Calcium (Ca) (mg/L)	30	30	33.60000	137.00000	73.46333	124.55000	31.49817
Diss-Chromium (Cr) (mg/L)	30	12	0.00010	0.00378	0.00068	0.00160	0.00073
Diss-Cobalt (Co) (mg/L)	30	29	0.00001	0.00127	0.00044	0.00094	0.00027
Diss-Copper (Cu) (mg/L)	30	30	0.00032	0.01080	0.00158	0.00282	0.00184
Diss-Iron (Fe) (mg/L)	30	14	0.00250	0.80900	0.06770	0.25125	0.15598
Diss-Lead (Pb) (mg/L)	30	16	0.00001	0.00157	0.00011	0.00022	0.00028
Diss-Magnesium (Mg) (mg/L)	30	30	12.50000	60.80000	38.80333	58.06500	11.75698
Diss-Manganese (Mn) (mg/L)	30	30	0.03640	1.74000	0.42776	1.31750	0.51661
Diss-Molybdenum (Mo) (mg/L)	30	30	0.00337	0.04100	0.00957	0.03455	0.01059
Diss-Nickel (Ni) (mg/L)	30	22	0.00025	0.00702	0.00155	0.00338	0.00147
Diss-Potassium (K) (mg/L)	30	29	0.54400	1.34000	0.88953	1.23100	0.19856
Diss-Selenium (mg/L)	30	9	0.00025	0.02900	0.00343	0.01197	0.00611
Diss-Silicon (Si) (mg/L)	30	30	6.47000	9.58000	7.47867	8.83400	0.73694
Diss-Sodium (Na) (mg/L)	30	30	14.50000	46.70000	24.47000	30.77000	5.37659
Diss-Strontium (Sr) (mg/L)	30	30	0.65000	1.76000	1.10803	1.69750	0.32539
Diss-Zinc (Zn) (mg/L)	30	16	0.00025	0.00800	0.00207	0.00608	0.00189
Hardness (mg/L)	30	30	135.00000	593.00000	343.26667	549.35000	126.38773
Nitrate (mg/L)	22	12	0.00250	17.10000	4.44703	13.01000	5.41244
Nitrate and Nitrite (mg/L)	29	14	0.00100	17.20000	3.40572	12.48000	5.11199
Nitrite (mg/L)	24	11	0.00050	0.25100	0.03478	0.13350	0.06061
pH (in situ) (pH)	26	26	5.91000	8.62000	7.60569	8.03250	0.45513
Sulphate (mg/L)	30	30	5.40000	345.00000	98.83600	303.85000	124.38815
Temp (in situ) (Degrees Celcius)	27	27	5.65000	12.50000	8.40556	10.60000	1.52103
Total Nitrogen (mg/L)	7	7	8.23000	26.40000	13.46143	22.56000	5.97833

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



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E242387 : GW00-2a - Tailings Impoundment West Well (deep)

	26-Apr-07	11-Oct-07	23-Apr-08	18-Nov-08	3-Jun-09	14-Sep-09	26-May-10	27-May-10	27-Oct-10	24-May-11	20-Oct-11	24-May-12	11-Oct-12
Alkalinity (CaCO3) ()	212	231	239	235	228	248	249	234	213	223	223	241	224
Ammonia (as N) (mg/L)	<0.02	<0.005	<0.005	0.0123	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	0.008	0.0059
Chloride (mg/L)									<0.5	<0.5	<0.50	<0.50	<0.50
Cond (in situ) (µs/cm)	496	453	424	731	421	442	420	402	406	409	415	450	415
Diss-Aluminum (Al) (mg/L)	0.0047	0.0033	0.0225	0.0073	0.0071	0.0862	0.0016	0.0012	0.0082	0.0032	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	0.00026	0.00019	0.0005	0.00035	0.00045	0.00056	0.00022	0.00066	0.00064	<0.0001	0.00039	0.00067	0.00092
Diss-Arsenic (As) (mg/L)	0.00226	0.00233	0.00363	0.0024	0.00274	0.00748	0.00397	0.00258	0.00229	0.00245	0.00175	0.00177	0.00197
Diss-Barium (Ba) (mg/L)	0.112	0.112	0.111	0.091	0.107	0.0883	0.103	0.0956	0.111	0.115	0.0822	0.0912	0.0795
Diss-Cadmium (Cd) (mg/L)	0.000022	<0.000017	0.00002	0.000025	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	33.6	34.7	34.4	35.3	32.4	30.6	33.3	33	33.3	32.7	31.3	34	34.1
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0015	0.00128	<0.002	0.00094	<0.0006	<0.0006	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00043	0.00057	0.00501	0.00089	0.0025	0.00076	<0.0001	0.00011	0.00017	0.00032	<0.00010	0.00013	0.00026
Diss-Copper (Cu) (mg/L)	0.00026	0.00019	0.00027	0.00058	0.00044	0.00109	0.00019	0.00023	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Iron (Fe) (mg/L)	<0.03	0.033	0.081	0.223	0.113	0.086	0.214	0.106	0.107	0.248	0.03	0.041	<0.030
Diss-Lead (Pb) (mg/L)	0.000115	<0.00005	<0.00005	0.000086	0.000064	0.000567	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	12.5	12.5	12.1	12.4	12.5	12	13.1	12.7	12.3	12.6	12.5	12.3	12.4
Diss-Manganese (Mn) (mg/L)	0.302	0.289	0.368	0.366	0.339	0.257	0.275	0.251	0.299	0.327	0.256	0.274	0.251
Diss-Molybdenum (Mo) (mg/L)	0.00337	0.00298	0.00437	0.00754	0.00303	0.0205	0.00347	0.00341	0.00299	0.00279	0.00271	0.00276	0.00326
Diss-Nickel (Ni) (mg/L)	0.00107	0.0011	0.00303	0.0012	0.00119	0.00056	<0.0005	0.00059	0.00119	0.00072	0.0007	0.00102	0.00107
Diss-Potassium (K) (mg/L)	0.681	0.668	0.7	1.37	0.648	0.734	0.666	0.619	0.673	0.768	0.676	0.666	0.674
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	8.74	8.98	8.55	8.54	9.34	8.56	8.94	8.97	8.67	8.66	9.1	8.62	8.52
Diss-Sodium (Na) (mg/L)	46.1	47.6	51.8	52.7	46.2	43.1	45.9	41.9	46.5	49.9	45.6	43.4	44
Diss-Strontium (Sr) (mg/L)	0.728	0.723	0.723	0.806	0.801	0.696	0.772	0.7	0.768	0.743	0.881	0.711	0.965
Diss-Zinc (Zn) (mg/L)	0.0019	<0.001	0.0026	0.0017	0.0029	0.0018	<0.001	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	135	138	136	139	132	8.2	137	135	134	134	130	135	136
Nitrate (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
pH (in situ) (pH)	7.77	7.88	7.998	7.7	7.86	8.42	8.07	8.34	7.79	7.55	7.96	7.89	8.001
Sulphate (mg/L)	8.06	7.07	7.7	13.9	7.66	6.35	4.82	7.05	10.5	5.57	5.75	5.47	6.09
Temp (in situ) (Degrees Celcius)	7.5	6.5	6.05	7.7	8.3	9.8	7	7.5	6.8	6.5	5.6	6.6	5.3
Total Nitrogen (mg/L)							0.13	<0.05	<0.05	<0.05	<0.050	<0.050	<0.050

Grid Format Report

From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E242387 : GW00-2a - Tailings Impoundment West Well (deep)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	26	26	212.00000	266.00000	231.26923	248.75000	11.80697
Ammonia (as N) (mg/L)	25	6	0.00500	0.02000	0.00677	0.01846	0.00430
Chloride (mg/L)	5	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	28	28	300.00000	731.00000	452.78571	619.75000	84.93499
Diss-Aluminum (Al) (mg/L)	27	24	0.00120	0.08620	0.01059	0.02810	0.01670
Diss-Antimony (Sb) (mg/L)	27	26	0.00005	0.00092	0.00040	0.00067	0.00019
Diss-Arsenic (As) (mg/L)	27	27	0.00175	0.00900	0.00382	0.00840	0.00212
Diss-Barium (Ba) (mg/L)	27	27	0.01200	0.12900	0.10003	0.12130	0.02095
Diss-Cadmium (Cd) (mg/L)	27	9	0.00001	0.00007	0.00001	0.00003	0.00001
Diss-Calcium (Ca) (mg/L)	27	27	2.17000	38.50000	32.11370	36.50000	6.26477
Diss-Chromium (Cr) (mg/L)	27	10	0.00010	0.00820	0.00107	0.00354	0.00167
Diss-Cobalt (Co) (mg/L)	27	24	0.00005	0.00501	0.00087	0.00237	0.00107
Diss-Copper (Cu) (mg/L)	27	22	0.00019	0.01300	0.00123	0.00204	0.00243
Diss-Iron (Fe) (mg/L)	26	21	0.00250	0.24800	0.09379	0.22075	0.07291
Diss-Lead (Pb) (mg/L)	27	16	0.00002	0.00057	0.00008	0.00017	0.00011
Diss-Magnesium (Mg) (mg/L)	27	27	0.68000	13.20000	11.98444	13.07000	2.29720
Diss-Manganese (Mn) (mg/L)	27	27	0.00056	0.81600	0.35913	0.71860	0.15706
Diss-Molybdenum (Mo) (mg/L)	27	27	0.00271	0.02050	0.00459	0.00728	0.00341
Diss-Nickel (Ni) (mg/L)	27	24	0.00025	0.00482	0.00148	0.00375	0.00114
Diss-Potassium (K) (mg/L)	27	27	0.60000	1.37000	0.77952	1.18200	0.18593
Diss-Selenium (mg/L)	27	1	0.00025	0.00090	0.00039	0.00050	0.00016
Diss-Silicon (Si) (mg/L)	27	27	7.23000	9.34000	8.45333	9.06400	0.48758
Diss-Sodium (Na) (mg/L)	27	27	41.90000	102.00000	54.01481	76.93000	12.96017
Diss-Strontium (Sr) (mg/L)	27	27	0.07380	1.08000	0.76425	1.01750	0.16780
Diss-Zinc (Zn) (mg/L)	27	17	0.00025	0.01360	0.00292	0.00713	0.00277
Hardness (mg/L)	27	27	8.20000	150.00000	129.41481	144.80000	24.90134
Nitrate (mg/L)	18	1	0.00250	0.02000	0.00472	0.01150	0.00477
Nitrate and Nitrite (mg/L)	25	4	0.00250	0.02200	0.00439	0.01860	0.00533
Nitrite (mg/L)	21	2	0.00050	0.00250	0.00110	0.00250	0.00089
pH (in situ) (pH)	28	28	5.96000	8.62000	7.83996	8.39550	0.55756
Sulphate (mg/L)	26	26	4.82000	100.00000	14.25885	28.37500	18.46898
Temp (in situ) (Degrees Celcius)	28	28	5.30000	11.60000	7.65179	10.46000	1.63262
Total Nitrogen (mg/L)	7	1	0.02500	0.13000	0.04000	0.09850	0.03969

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E242389 : GW00-3a - Tailings Impoundment West Well (deep)												
	24-May-07	24-Oct-07	4-Jun-08	15-Oct-08	18-Nov-08	10-Jun-09	30-Sep-09	27-May-10	18-May-11	20-Oct-11	31-May-12	23-Oct-12
Alkalinity (CaCO3) ()	77.2	206	73.5	190	209	140	220	90.2	63.2	126	85.9	146
Ammonia (as N) (mg/L)	0.028	<0.005	<0.005	<0.005	0.0116	<0.005	0.0052	0.0167	<0.005	<0.0050	0.007	<0.0050
Chloride (mg/L)									0.58	<0.50	<0.50	<0.50
Cond (in situ) (µs/cm)	125	422	223		388	270	418	202	189	270	195	196.8
Diss-Aluminum (Al) (mg/L)	0.0046	0.0031	0.0073	0.0113	0.0224	0.0037	0.0034	0.0017	0.0079	<0.0030	0.0033	<0.0030
Diss-Antimony (Sb) (mg/L)	0.00151	0.00307	0.00248	0.00677	0.00708	0.00466	0.00123	0.00274	0.00327	0.00126	0.00088	0.00121
Diss-Arsenic (As) (mg/L)	0.00059	0.00088	0.00034	0.00083	0.00084	0.00128	0.00087	0.00082	0.00069	0.00118	0.0012	0.00065
Diss-Barium (Ba) (mg/L)	0.0688	0.0713	0.0455	0.101	0.0666	0.0544	0.0885	0.0181	0.0192	0.0637	0.0526	0.0624
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	31.8	19.4	15.7	26.9	23.9	17.3	34.3	7.91	9.47	19.6	15.4	12.7
Diss-Chromium (Cr) (mg/L)	0.00096	0.00131	0.00072	<0.002	0.00125	0.00135	<0.0005	0.00062	0.00185	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00019	0.00023	0.00034	0.00081	0.00274	0.00029	0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00076	0.00206	0.00112	0.00061	0.00159	0.00095	<0.0006	0.00166	0.00313	<0.00050	<0.00050	<0.00050
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	<0.030
Diss-Lead (Pb) (mg/L)	0.000305	0.000342	0.000092	0.00016	0.000146	0.00007	0.000055	<0.00005	0.000084	<0.000050	<0.000050	0.0001
Diss-Magnesium (Mg) (mg/L)	5.28	18.3	1.71	14.1	11	9.97	10.9	3.86	2.57	10.2	8.85	9.95
Diss-Manganese (Mn) (mg/L)	0.0011	0.0148	0.000755	0.0184	0.0252	0.00981	0.082	0.000062	0.000143	0.00533	0.0181	0.0241
Diss-Molybdenum (Mo) (mg/L)	0.00169	0.00186	0.00201	0.00219	0.0016	0.00238	0.00144	0.00218	0.00244	0.00148	0.00142	0.00147
Diss-Nickel (Ni) (mg/L)	<0.0005	0.00084	<0.0005	0.00228	0.00119	0.00079	0.00056	<0.0005	0.00087	<0.00050	<0.00050	<0.00050
Diss-Potassium (K) (mg/L)	0.621	0.552	0.595	0.356	0.533	0.318	0.303	0.283	0.464	0.219	0.221	0.257
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	<0.00050
Diss-Silicon (Si) (mg/L)	3.34	7.75	2.43	6.8	5.45	4.89	4.78	3.45	3.08	5.94	4.83	5.42
Diss-Sodium (Na) (mg/L)	28.4	35.6	23.2	33.2	32.4	27	27.7	18.9	18.5	25.2	21.7	26
Diss-Strontium (Sr) (mg/L)	0.62	0.806	0.374	1.13	0.882	0.761	1.07	0.255	0.235	0.796	0.643	0.695
Diss-Zinc (Zn) (mg/L)	<0.001	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	101	124	46.3	125	105	84.4	130	35.7	34.2	91.1	75	72.7
Nitrate (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	9.95	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	10	<0.005	<0.0051	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.063	<0.001	<0.001	<0.0010	<0.0010	<0.0010
pH (in situ) (pH)	8.96	8.16	11.124	9.2	8.6	9.35	8.56	9.17	9.65	8.68	10.58	9.964
Sulphate (mg/L)	12.8	12.6	11.6	14.9	9.43	10.2	265	9.42	8.34	6.68	6.9	5.5
Temp (in situ) (Degrees Celcius)	8.2	6.9	8.2	7.4	5.8	7.9	7.8	7.5	8	5.8	7.4	5.9
Total Nitrogen (mg/L)								0.08	0.12	<0.050	<0.050	<0.050

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E242389 : GW00-3a - Tailings Impoundment West Well (deep)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	24	24	63.20000	303.00000	181.75833	254.90000	75.02609
Ammonia (as N) (mg/L)	22	8	0.00500	0.02800	0.00880	0.00500	0.00693
Chloride (mg/L)	5	1	0.25000	0.58000	0.31600	0.51400	0.14758
Cond (in situ) (µs/cm)	21	21	125.00000	707.00000	364.75238	597.00000	159.44857
Diss-Aluminum (Al) (mg/L)	23	21	0.00050	0.02240	0.00599	0.01055	0.00514
Diss-Antimony (Sb) (mg/L)	23	23	0.00037	0.00708	0.00198	0.00061	0.00195
Diss-Arsenic (As) (mg/L)	23	23	0.00034	0.00220	0.00098	0.00149	0.00038
Diss-Barium (Ba) (mg/L)	23	23	0.01810	0.27000	0.10953	0.03791	0.07406
Diss-Cadmium (Cd) (mg/L)	23	4	0.00001	0.00005	0.00001	0.00001	0.00001
Diss-Calcium (Ca) (mg/L)	23	23	7.91000	83.60000	34.27348	9.69800	21.43187
Diss-Chromium (Cr) (mg/L)	23	14	0.00010	0.00260	0.00089	0.00080	0.00074
Diss-Cobalt (Co) (mg/L)	23	17	0.00005	0.00931	0.00130	0.00054	0.00208
Diss-Copper (Cu) (mg/L)	23	19	0.00025	0.00327	0.00131	0.00111	0.00099
Diss-Iron (Fe) (mg/L)	23	7	0.00250	0.62200	0.06237	0.01500	0.13472
Diss-Lead (Pb) (mg/L)	23	18	0.00001	0.00034	0.00010	0.00010	0.00009
Diss-Magnesium (Mg) (mg/L)	23	23	1.71000	19.30000	10.98783	3.87800	5.12214
Diss-Manganese (Mn) (mg/L)	23	23	0.00006	1.84000	0.20261	0.05043	0.42752
Diss-Molybdenum (Mo) (mg/L)	23	23	0.00123	0.00421	0.00234	0.00398	0.00088
Diss-Nickel (Ni) (mg/L)	23	17	0.00025	0.01610	0.00297	0.00140	0.00403
Diss-Potassium (K) (mg/L)	22	22	0.21900	0.69000	0.41118	0.60925	0.15161
Diss-Selenium (mg/L)	23	0	0.00025	0.00050	0.00036	0.00050	0.00013
Diss-Silicon (Si) (mg/L)	23	23	2.43000	7.75000	4.97391	3.07300	1.27508
Diss-Sodium (Na) (mg/L)	23	23	18.00000	47.40000	31.89130	47.15000	9.25325
Diss-Strontium (Sr) (mg/L)	23	23	0.23500	2.50000	1.11709	1.20000	0.64988
Diss-Zinc (Zn) (mg/L)	23	10	0.00025	0.00670	0.00197	0.00150	0.00186
Hardness (mg/L)	24	24	34.20000	288.00000	132.98333	196.70000	69.82373
Nitrate (mg/L)	17	1	0.00250	9.95000	0.58897	0.01000	2.41228
Nitrate and Nitrite (mg/L)	23	4	0.00250	10.00000	0.43808	0.00590	2.08443
Nitrite (mg/L)	19	1	0.00050	0.06300	0.00411	0.00250	0.01428
pH (in situ) (pH)	22	22	6.47000	11.12400	8.50718	8.75700	1.19447
Sulphate (mg/L)	23	23	5.50000	265.00000	26.64348	95.80000	55.58765
Temp (in situ) (Degrees Celcius)	22	22	5.80000	12.40000	8.24091	7.90000	1.78876
Total Nitrogen (mg/L)	6	2	0.02500	0.12000	0.05000	0.07250	0.04074

	E258923 :	
	28-Jun-12	5-Nov-12
Alkalinity (CaCO3) (	150	147
Ammonia (as N) (mg/L)	<0.0050	<0.0050
Chloride (mg/L)	<0.50	<0.50
Cond (in situ) (µs/cm)		506
Diss-Aluminium (Al) (mg/L)	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	<0.00010	<0.00010
Diss-Arsenic (As) (mg/L)	0.00029	0.00052
Diss-Barium (Ba) (mg/L)	0.00738	0.00694
Diss-Cadmium (Cd) (mg/L)	0.000018	<0.000010
Diss-Calcium (Ca) (mg/L)	88.4	81.6
Diss-Chromium (Cr) (mg/L)	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.0242	0.0272
Diss-Iron (Fe) (mg/L)	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.000052	<0.000050
Diss-Magnesium (Mg) (mg/L)	5.11	5.05
Diss-Manganese (Mn) (mg/L)	0.00205	0.000812
Diss-Molybdenum (Mo) (mg/L)	0.00756	0.0074
Diss-Nickel (Ni) (mg/L)	<0.00050	<0.00050
Diss-Potassium (K) (mg/L)	0.347	0.343
Diss-Selenium (mg/L)	0.00063	0.00055
Diss-Silicon (Si) (mg/L)	8.16	7.88
Diss-Sodium (Na) (mg/L)	16.1	15.8
Diss-Strontium (Sr) (mg/L)	0.586	0.587
Diss-Zinc (Zn) (mg/L)	2.5	0.598
Hardness (mg/L)	242	224
Nitrate (mg/L)	0.0365	0.0259
Nitrate and Nitrite (mg/L)	0.0386	0.0276
Nitrite (mg/L)	0.0021	0.0018
pH (in situ) (pH)		7.53
Sulphate (mg/L)	107	110
Temp (in situ) (Degrees Celcius)		14.7
Total Nitrogen (mg/L)	<0.050	0.05

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E258923 : GW05-01 - Wight Pit/Polley Lake Interface Well							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	23	23	147.00000	183.00000	156.65217	170.20000	7.89481
Ammonia (as N) (mg/L)	23	4	0.00500	0.34300	0.02219	0.03000	0.07026
Chloride (mg/L)	2	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	19	19	380.00000	1,897.00000	563.52632	720.70000	328.94602
Diss-Aluminum (Al) (mg/L)	23	11	0.00040	0.09430	0.00528	0.00350	0.01942
Diss-Antimony (Sb) (mg/L)	23	2	0.00003	0.00013	0.00006	0.00010	0.00002
Diss-Arsenic (As) (mg/L)	23	23	0.00029	0.00134	0.00088	0.00131	0.00031
Diss-Barium (Ba) (mg/L)	23	23	0.00694	0.01100	0.00870	0.01078	0.00111
Diss-Cadmium (Cd) (mg/L)	23	13	0.00001	0.00009	0.00002	0.00003	0.00002
Diss-Calcium (Ca) (mg/L)	23	23	61.60000	108.00000	87.78696	102.70000	11.89034
Diss-Chromium (Cr) (mg/L)	23	3	0.00010	0.00086	0.00035	0.00060	0.00018
Diss-Cobalt (Co) (mg/L)	23	0	0.00001	0.00010	0.00005	0.00010	0.00002
Diss-Copper (Cu) (mg/L)	23	23	0.00039	0.02720	0.00358	0.02234	0.00711
Diss-Iron (Fe) (mg/L)	22	3	0.00250	0.06400	0.02070	0.05995	0.01662
Diss-Lead (Pb) (mg/L)	23	14	0.00001	0.00607	0.00054	0.00249	0.00134
Diss-Magnesium (Mg) (mg/L)	23	23	5.05000	7.95000	6.34652	7.44400	0.74917
Diss-Manganese (Mn) (mg/L)	23	23	0.00009	0.01930	0.00190	0.00613	0.00412
Diss-Molybdenum (Mo) (mg/L)	23	23	0.00418	0.00756	0.00522	0.00729	0.00092
Diss-Nickel (Ni) (mg/L)	23	7	0.00025	0.00958	0.00092	0.00222	0.00196
Diss-Potassium (K) (mg/L)	23	23	0.32700	0.45600	0.37735	0.43200	0.03078
Diss-Selenium (mg/L)	23	5	0.00050	0.00100	0.00063	0.00100	0.00021
Diss-Silicon (Si) (mg/L)	22	22	5.43000	8.99000	8.27864	8.98600	0.75084
Diss-Sodium (Na) (mg/L)	22	22	9.71000	16.10000	12.33227	15.78000	1.97749
Diss-Strontium (Sr) (mg/L)	23	23	0.55200	1.20000	0.81543	1.11300	0.19892
Diss-Zinc (Zn) (mg/L)	23	23	0.00390	2.50000	0.15706	0.56380	0.52704
Hardness (mg/L)	23	23	176.00000	300.00000	245.39130	287.10000	31.62384
Nitrate (mg/L)	22	21	0.00250	1.10000	0.12100	0.22535	0.22353
Nitrate and Nitrite (mg/L)	23	22	0.00250	1.12000	0.15334	0.77570	0.26762
Nitrite (mg/L)	19	5	0.00050	0.00310	0.00089	0.00220	0.00076
pH (in situ) (pH)	20	20	7.25000	8.32000	7.82140	8.18700	0.28523
Sulphate (mg/L)	23	23	39.10000	162.00000	102.89130	159.80000	34.08205
Temp (in situ) (Degrees Celcius)	19	19	4.70000	19.40000	7.83158	15.17000	3.52579
Total Nitrogen (mg/L)	3	1	0.02500	0.05000	0.03333	0.04750	0.01443

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	E291219 : GW11-1a - Below		
	5-Dec-11	31-May-12	23-Oct-12
Alkalinity (CaCO3) (92.3	88.8	81.9
Ammonia (as N) (mg/L)	<0.0050	<0.0050	<0.0050
Chloride (mg/L)	<0.50	<0.50	<0.50
Cond (in situ) (µs/cm)	215	196	198
Diss-Aluminum (Al) (mg/L)	0.0033	0.0031	0.0033
Diss-Antimony (Sb) (mg/L)	0.00042	0.00039	0.00039
Diss-Arsenic (As) (mg/L)	0.00341	0.00382	0.00393
Diss-Barium (Ba) (mg/L)	0.0147	0.00385	0.0043
Diss-Cadmium (Cd) (mg/L)	0.000017	0.000015	0.000015
Diss-Calcium (Ca) (mg/L)	25.7	22.8	22.5
Diss-Chromium (Cr) (mg/L)	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	<0.00050	<0.00050	<0.00050
Diss-Iron (Fe) (mg/L)	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	4.58	3.97	4.04
Diss-Manganese (Mn) (mg/L)	0.0277	0.00831	0.052
Diss-Molybdenum (Mo) (mg/L)	0.0658	0.0645	0.0636
Diss-Nickel (Ni) (mg/L)	<0.00050	<0.00050	<0.00050
Diss-Potassium (K) (mg/L)	0.211	0.195	0.195
Diss-Selenium (mg/L)	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	7.69	7.55	7.44
Diss-Sodium (Na) (mg/L)	13.8	12.7	13.2
Diss-Strontium (Sr) (mg/L)	0.129	0.107	0.106
Diss-Zinc (Zn) (mg/L)	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	83.0	73.2	72.7
Nitrate (mg/L)	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	<0.0010	<0.0010	<0.0010
pH (in situ) (pH)	8.25	8.13	8.04
Sulphate (mg/L)	18.2	17.8	18.1
Temp (in situ) (Degrees Celcius)	5.4	7.3	5.8
Total Nitrogen (mg/L)	<0.050	<0.050	<0.050

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E291219 : GW11-1a - Below Temp PAG Dump on Bootjack Rd

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	4	4	81.90000	92.30000	88.17500	91.91000	4.43875
Ammonia (as N) (mg/L)	4	0	0.00500	0.00500	0.00500	0.00500	0.00000
Chloride (mg/L)	4	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	3	3	196.00000	215.00000	203.00000	213.30000	10.44031
Diss-Aluminum (Al) (mg/L)	4	4	0.00310	0.00330	0.00320	0.00330	0.00012
Diss-Antimony (Sb) (mg/L)	4	4	0.00039	0.00042	0.00040	0.00042	0.00001
Diss-Arsenic (As) (mg/L)	4	4	0.00341	0.00393	0.00373	0.00391	0.00023
Diss-Barium (Ba) (mg/L)	4	4	0.00385	0.01470	0.00668	0.01314	0.00535
Diss-Cadmium (Cd) (mg/L)	4	4	0.00001	0.00002	0.00002	0.00002	0.00000
Diss-Calcium (Ca) (mg/L)	4	4	22.50000	25.70000	23.45000	25.26500	1.50665
Diss-Chromium (Cr) (mg/L)	4	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Cobalt (Co) (mg/L)	4	0	0.00005	0.00005	0.00005	0.00005	0.00000
Diss-Copper (Cu) (mg/L)	4	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Iron (Fe) (mg/L)	4	0	0.01500	0.01500	0.01500	0.01500	0.00000
Diss-Lead (Pb) (mg/L)	4	0	0.00003	0.00003	0.00003	0.00003	0.00000
Diss-Magnesium (Mg) (mg/L)	4	4	3.96000	4.58000	4.13750	4.49900	0.29714
Diss-Manganese (Mn) (mg/L)	4	4	0.00831	0.05200	0.02409	0.04836	0.02073
Diss-Molybdenum (Mo) (mg/L)	4	4	0.06360	0.06580	0.06455	0.06561	0.00092
Diss-Nickel (Ni) (mg/L)	4	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Potassium (K) (mg/L)	4	4	0.19200	0.21100	0.19825	0.20860	0.00862
Diss-Selenium (mg/L)	4	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Silicon (Si) (mg/L)	4	4	7.44000	7.69000	7.56250	7.67200	0.10243
Diss-Sodium (Na) (mg/L)	4	4	12.50000	13.80000	13.05000	13.71000	0.58023
Diss-Strontium (Sr) (mg/L)	4	4	0.10600	0.12900	0.11250	0.12585	0.01103
Diss-Zinc (Zn) (mg/L)	4	0	0.00150	0.00150	0.00150	0.00150	0.00000
Hardness (mg/L)	4	4	72.70000	83.00000	75.52500	81.53000	4.98890
Nitrate (mg/L)	4	0	0.00250	0.00250	0.00250	0.00250	0.00000
Nitrate and Nitrite (mg/L)	4	0	0.00255	0.00255	0.00255	0.00255	0.00000
Nitrite (mg/L)	4	0	0.00050	0.00050	0.00050	0.00050	0.00000
pH (in situ) (pH)	3	3	8.04000	8.25000	8.14000	8.23800	0.10536
Sulphate (mg/L)	4	4	17.80000	18.20000	17.97500	18.18500	0.20616
Temp (in situ) (Degrees Celcius)	3	3	5.40000	7.30000	6.16667	7.15000	1.00167
Total Nitrogen (mg/L)	4	0	0.02500	0.02500	0.02500	0.02500	0.00000

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	E291211 : GW11-1b - Below		
	5-Dec-11	31-May-12	23-Oct-12
Alkalinity (CaCO3) (159	157	190
Ammonia (as N) (mg/L)	0.034	0.0205	0.0435
Chloride (mg/L)	0.5	0.56	1.29
Cond (in situ) (µs/cm)	340	329	390
Diss-Aluminum (Al) (mg/L)	0.0049	0.0053	0.0383
Diss-Antimony (Sb) (mg/L)	0.00027	0.00034	0.00028
Diss-Arsenic (As) (mg/L)	0.00201	0.00233	0.00376
Diss-Barium (Ba) (mg/L)	0.0451	0.0131	0.0247
Diss-Cadmium (Cd) (mg/L)	0.000017	0.000022	<0.000010
Diss-Calcium (Ca) (mg/L)	44.5	44.4	55.7
Diss-Chromium (Cr) (mg/L)	<0.00050	<0.00050	0.00105
Diss-Cobalt (Co) (mg/L)	0.00016	0.00024	0.00406
Diss-Copper (Cu) (mg/L)	<0.00050	0.00083	<0.00050
Diss-Iron (Fe) (mg/L)	<0.030	<0.030	5.65
Diss-Lead (Pb) (mg/L)	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	7.39	6.48	9.54
Diss-Manganese (Mn) (mg/L)	0.24	0.16	2.88
Diss-Molybdenum (Mo) (mg/L)	0.0456	0.0402	0.0374
Diss-Nickel (Ni) (mg/L)	0.00064	0.00062	0.00129
Diss-Potassium (K) (mg/L)	0.708	0.636	1.12
Diss-Selenium (mg/L)	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	6.94	7.28	9.28
Diss-Sodium (Na) (mg/L)	18.9	18.1	18.1
Diss-Strontium (Sr) (mg/L)	0.248	0.183	0.239
Diss-Zinc (Zn) (mg/L)	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	142	138	178
Nitrate (mg/L)	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	0.0016	<0.0010	0.0011
pH (in situ) (pH)	8.14	7.42	7.2
Sulphate (mg/L)	20.1	20.9	15
Temp (in situ) (Degrees Celcius)	5.5	6.2	7.5
Total Nitrogen (mg/L)	<0.050	<0.050	0.26

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E291211 : GW11-1b - Below Temp PAG Dump on Bootjack Rd

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	3	3	157.00000	190.00000	168.66667	186.90000	18.50225
Ammonia (as N) (mg/L)	3	3	0.02050	0.04350	0.03267	0.04255	0.01156
Chloride (mg/L)	3	3	0.50000	1.29000	0.78333	1.21700	0.43981
Cond (in situ) (µs/cm)	3	3	329.00000	390.00000	353.00000	385.00000	32.51154
Diss-Aluminum (Al) (mg/L)	3	3	0.00490	0.03830	0.01617	0.03500	0.01917
Diss-Antimony (Sb) (mg/L)	3	3	0.00027	0.00034	0.00030	0.00033	0.00004
Diss-Arsenic (As) (mg/L)	3	3	0.00201	0.00376	0.00270	0.00362	0.00093
Diss-Barium (Ba) (mg/L)	3	3	0.01310	0.04510	0.02763	0.04306	0.01620
Diss-Cadmium (Cd) (mg/L)	3	2	0.00001	0.00002	0.00001	0.00002	0.00001
Diss-Calcium (Ca) (mg/L)	3	3	44.40000	55.70000	48.20000	54.58000	6.49538
Diss-Chromium (Cr) (mg/L)	3	1	0.00025	0.00105	0.00052	0.00097	0.00046
Diss-Cobalt (Co) (mg/L)	3	3	0.00016	0.00406	0.00149	0.00368	0.00223
Diss-Copper (Cu) (mg/L)	3	1	0.00025	0.00083	0.00044	0.00077	0.00033
Diss-Iron (Fe) (mg/L)	3	1	0.01500	5.65000	1.89333	5.08650	3.25337
Diss-Lead (Pb) (mg/L)	3	0	0.00003	0.00003	0.00003	0.00003	0.00000
Diss-Magnesium (Mg) (mg/L)	3	3	6.48000	9.54000	7.80333	9.32500	1.57132
Diss-Manganese (Mn) (mg/L)	3	3	0.16000	2.88000	1.09333	2.61600	1.54782
Diss-Molybdenum (Mo) (mg/L)	3	3	0.03740	0.04560	0.04107	0.04506	0.00417
Diss-Nickel (Ni) (mg/L)	3	3	0.00062	0.00129	0.00085	0.00123	0.00038
Diss-Potassium (K) (mg/L)	3	3	0.63600	1.12000	0.82133	1.07880	0.26115
Diss-Selenium (mg/L)	3	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Silicon (Si) (mg/L)	3	3	6.94000	9.28000	7.83333	9.08000	1.26433
Diss-Sodium (Na) (mg/L)	3	3	18.10000	18.90000	18.36667	18.82000	0.46188
Diss-Strontium (Sr) (mg/L)	3	3	0.18300	0.24800	0.22333	0.24710	0.03522
Diss-Zinc (Zn) (mg/L)	3	0	0.00150	0.00150	0.00150	0.00150	0.00000
Hardness (mg/L)	3	3	138.00000	178.00000	152.66667	174.40000	22.03028
Nitrate (mg/L)	3	0	0.00250	0.00250	0.00250	0.00250	0.00000
Nitrate and Nitrite (mg/L)	3	0	0.00255	0.00255	0.00255	0.00255	0.00000
Nitrite (mg/L)	3	2	0.00050	0.00160	0.00107	0.00155	0.00055
pH (in situ) (pH)	3	3	7.20000	8.14000	7.58667	8.06800	0.49166
Sulphate (mg/L)	3	3	15.00000	20.90000	18.66667	20.82000	3.20052
Temp (in situ) (Degrees Celcius)	3	3	5.50000	7.50000	6.40000	7.37000	1.01489
Total Nitrogen (mg/L)	3	1	0.02500	0.26000	0.10333	0.23650	0.13568

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	E291212 : GW11-2a - Below		
	1-Dec-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) (260	788	682
Ammonia (as N) (mg/L)	0.99	2.02	1.8
Chloride (mg/L)	<5.0	<10	<10
Cond (in situ) (µs/cm)	801	3970	3240
Diss-Aluminum (Al) (mg/L)	0.0227	0.746	0.962
Diss-Antimony (Sb) (mg/L)	0.00043	0.00082	0.00096
Diss-Arsenic (As) (mg/L)	0.0054	0.00129	0.00163
Diss-Barium (Ba) (mg/L)	0.356	1	0.944
Diss-Cadmium (Cd) (mg/L)	<0.000010	<0.000020	<0.000010
Diss-Calcium (Ca) (mg/L)	15.7	276	243
Diss-Chromium (Cr) (mg/L)	0.00087	<0.0010	0.00091
Diss-Cobalt (Co) (mg/L)	0.00013	<0.00020	0.00013
Diss-Copper (Cu) (mg/L)	0.00131	0.0019	0.00304
Diss-Iron (Fe) (mg/L)	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	<0.000050	0.00016	0.000235
Diss-Magnesium (Mg) (mg/L)	1.72	0.27	<0.10
Diss-Manganese (Mn) (mg/L)	0.000191	0.00674	0.000412
Diss-Molybdenum (Mo) (mg/L)	0.0126	0.0107	0.0104
Diss-Nickel (Ni) (mg/L)	0.00084	0.0026	0.00466
Diss-Potassium (K) (mg/L)	7.3	6.2	5.3
Diss-Selenium (mg/L)	<0.00050	<0.0010	<0.00050
Diss-Silicon (Si) (mg/L)	6.71	2.59	2.85
Diss-Sodium (Na) (mg/L)	110	73.1	70
Diss-Strontium (Sr) (mg/L)	1.36	4.35	3.57
Diss-Zinc (Zn) (mg/L)	<0.0030	<0.0060	<0.0030
Hardness (mg/L)	46.2	691	606
Nitrate (mg/L)	<0.050	0.13	<0.10
Nitrate and Nitrite (mg/L)	<0.051	0.13	<0.10
Nitrite (mg/L)	0.013	<0.020	<0.020
pH (in situ) (pH)	11.89	12.8	12.84
Sulphate (mg/L)	37.7	22	18
Temp (in situ) (Degrees Celcius)	5.3	7.4	7.4
Total Nitrogen (mg/L)	0.93	2.34	2.09

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E291212 : GW11-2a - Below SERDS on Polley Lake Rd

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	3	3	260.00000	788.00000	576.66667	777.40000	279.31583
Ammonia (as N) (mg/L)	3	3	0.99000	2.02000	1.60333	1.99800	0.54243
Chloride (mg/L)	3	0	2.50000	5.00000	4.16667	5.00000	1.44338
Cond (in situ) (µs/cm)	3	3	801.00000	3,970.00000	2,670.33333	2,996.10000	1,659.52714
Diss-Aluminum (Al) (mg/L)	3	3	0.02270	0.96200	0.57690	0.94040	0.49195
Diss-Antimony (Sb) (mg/L)	3	3	0.00043	0.00096	0.00074	0.00095	0.00027
Diss-Arsenic (As) (mg/L)	3	3	0.00129	0.00540	0.00277	0.00502	0.00228
Diss-Barium (Ba) (mg/L)	3	3	0.35600	1.00000	0.76667	0.99440	0.35675
Diss-Cadmium (Cd) (mg/L)	3	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Calcium (Ca) (mg/L)	3	3	15.70000	276.00000	178.23333	272.70000	141.72178
Diss-Chromium (Cr) (mg/L)	3	2	0.00050	0.00091	0.00076	0.00091	0.00023
Diss-Cobalt (Co) (mg/L)	3	2	0.00010	0.00013	0.00012	0.00013	0.00002
Diss-Copper (Cu) (mg/L)	3	3	0.00131	0.00304	0.00208	0.00293	0.00088
Diss-Iron (Fe) (mg/L)	3	0	0.01500	0.01500	0.01500	0.01500	0.00000
Diss-Lead (Pb) (mg/L)	3	2	0.00003	0.00024	0.00014	0.00023	0.00011
Diss-Magnesium (Mg) (mg/L)	3	2	0.05000	1.72000	0.68000	1.57500	0.90736
Diss-Manganese (Mn) (mg/L)	3	3	0.00019	0.00674	0.00245	0.00611	0.00372
Diss-Molybdenum (Mo) (mg/L)	3	3	0.01040	0.01260	0.01123	0.01241	0.00119
Diss-Nickel (Ni) (mg/L)	3	3	0.00084	0.00466	0.00270	0.00445	0.00191
Diss-Potassium (K) (mg/L)	3	3	5.30000	7.30000	6.26667	7.19000	1.00167
Diss-Selenium (mg/L)	3	0	0.00025	0.00050	0.00033	0.00048	0.00014
Diss-Silicon (Si) (mg/L)	3	3	2.59000	6.71000	4.05000	6.32400	2.30729
Diss-Sodium (Na) (mg/L)	3	3	70.00000	110.00000	84.36667	106.31000	22.25316
Diss-Strontium (Sr) (mg/L)	3	3	1.36000	4.35000	3.09333	4.27200	1.55095
Diss-Zinc (Zn) (mg/L)	3	0	0.00150	0.00300	0.00200	0.00285	0.00087
Hardness (mg/L)	3	3	46.20000	691.00000	447.73333	682.50000	350.32558
Nitrate (mg/L)	3	1	0.02500	0.13000	0.06833	0.12200	0.05485
Nitrate and Nitrite (mg/L)	3	1	0.02550	0.13000	0.06850	0.12200	0.05465
Nitrite (mg/L)	3	1	0.01000	0.01300	0.01100	0.01270	0.00173
pH (in situ) (pH)	3	3	11.89000	12.84000	12.51000	12.72000	0.53731
Sulphate (mg/L)	3	3	18.00000	37.70000	25.90000	36.13000	10.41297
Temp (in situ) (Degrees Celcius)	3	3	5.30000	7.40000	6.70000	7.19000	1.21244
Total Nitrogen (mg/L)	3	3	0.93000	2.34000	1.78667	2.31500	0.75235

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	E291213 : GW11-2b - Below		
	1-Dec-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) (294	292	317
Ammonia (as N) (mg/L)	1.39	0.92	1.27
Chloride (mg/L)	3.28	1.02	0.6
Cond (in situ) (µs/cm)	610	533	572
Diss-Aluminum (Al) (mg/L)	0.0054	0.0044	0.0042
Diss-Antimony (Sb) (mg/L)	0.00039	0.00043	0.00042
Diss-Arsenic (As) (mg/L)	0.00492	0.00591	0.00453
Diss-Barium (Ba) (mg/L)	0.181	0.0821	0.0789
Diss-Cadmium (Cd) (mg/L)	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	73.1	65.4	72.4
Diss-Chromium (Cr) (mg/L)	<0.00050	<0.00050	0.00136
Diss-Cobalt (Co) (mg/L)	0.00137	0.00062	0.00075
Diss-Copper (Cu) (mg/L)	<0.00050	<0.00050	<0.00050
Diss-Iron (Fe) (mg/L)	0.515	0.596	1.21
Diss-Lead (Pb) (mg/L)	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	19.7	20.2	20.2
Diss-Manganese (Mn) (mg/L)	1.58	1.23	1.65
Diss-Molybdenum (Mo) (mg/L)	0.0066	0.00362	0.00161
Diss-Nickel (Ni) (mg/L)	0.00399	0.00123	0.0023
Diss-Potassium (K) (mg/L)	2.04	1.45	1.57
Diss-Selenium (mg/L)	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	10.6	9.12	11.3
Diss-Sodium (Na) (mg/L)	37	26.8	29.3
Diss-Strontium (Sr) (mg/L)	0.577	0.448	0.501
Diss-Zinc (Zn) (mg/L)	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	264	246	264
Nitrate (mg/L)	<0.0050	0.0186	<0.0050
Nitrate and Nitrite (mg/L)	<0.0051	0.0186	<0.0051
Nitrite (mg/L)	<0.0010	<0.0010	<0.0010
pH (in situ) (pH)	7.67	7.72	7.44
Sulphate (mg/L)	38.7	10.2	6.57
Temp (in situ) (Degrees Celcius)	6.2	7.5	7.8
Total Nitrogen (mg/L)	1.62	1.1	1.67

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E291213 : GW11-2b - Below SERDS on Polley Lake Rd

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	3	3	292.00000	317.00000	301.00000	314.70000	13.89244
Ammonia (as N) (mg/L)	3	3	0.92000	1.39000	1.19333	1.37800	0.24420
Chloride (mg/L)	3	3	0.60000	3.28000	1.63333	3.05400	1.44143
Cond (in situ) (µs/cm)	3	3	533.00000	610.00000	571.66667	606.20000	38.50108
Diss-Aluminum (Al) (mg/L)	3	3	0.00420	0.00540	0.00467	0.00530	0.00064
Diss-Antimony (Sb) (mg/L)	3	3	0.00039	0.00043	0.00041	0.00043	0.00002
Diss-Arsenic (As) (mg/L)	3	3	0.00453	0.00591	0.00512	0.00581	0.00071
Diss-Barium (Ba) (mg/L)	3	3	0.07890	0.18100	0.11400	0.17111	0.05805
Diss-Cadmium (Cd) (mg/L)	3	0	0.00001	0.00001	0.00001	0.00001	0.00000
Diss-Calcium (Ca) (mg/L)	3	3	65.40000	73.10000	70.30000	73.03000	4.25793
Diss-Chromium (Cr) (mg/L)	3	1	0.00025	0.00136	0.00062	0.00125	0.00064
Diss-Cobalt (Co) (mg/L)	3	3	0.00062	0.00137	0.00091	0.00131	0.00040
Diss-Copper (Cu) (mg/L)	3	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Iron (Fe) (mg/L)	3	3	0.51500	1.21000	0.77367	1.14860	0.38004
Diss-Lead (Pb) (mg/L)	3	0	0.00003	0.00003	0.00003	0.00003	0.00000
Diss-Magnesium (Mg) (mg/L)	3	3	19.70000	20.20000	20.03333	20.20000	0.28868
Diss-Manganese (Mn) (mg/L)	3	3	1.23000	1.65000	1.48667	1.64300	0.22502
Diss-Molybdenum (Mo) (mg/L)	3	3	0.00161	0.00660	0.00394	0.00630	0.00251
Diss-Nickel (Ni) (mg/L)	3	3	0.00123	0.00399	0.00251	0.00382	0.00139
Diss-Potassium (K) (mg/L)	3	3	1.45000	2.04000	1.68667	1.99300	0.31182
Diss-Selenium (mg/L)	3	0	0.00025	0.00025	0.00025	0.00025	0.00000
Diss-Silicon (Si) (mg/L)	3	3	9.12000	11.30000	10.34000	11.23000	1.11301
Diss-Sodium (Na) (mg/L)	3	3	26.80000	37.00000	31.03333	36.23000	5.31633
Diss-Strontium (Sr) (mg/L)	3	3	0.44800	0.57700	0.50867	0.56940	0.06484
Diss-Zinc (Zn) (mg/L)	3	0	0.00150	0.00150	0.00150	0.00150	0.00000
Hardness (mg/L)	3	3	246.00000	264.00000	258.00000	264.00000	10.39230
Nitrate (mg/L)	3	1	0.00250	0.01860	0.00787	0.01699	0.00930
Nitrate and Nitrite (mg/L)	3	1	0.00255	0.01860	0.00790	0.01700	0.00927
Nitrite (mg/L)	3	0	0.00050	0.00050	0.00050	0.00050	0.00000
pH (in situ) (pH)	3	3	7.44000	7.72000	7.61000	7.71500	0.14933
Sulphate (mg/L)	3	3	6.57000	38.70000	18.49000	35.85000	17.59623
Temp (in situ) (Degrees Celcius)	3	3	6.20000	7.80000	7.16667	7.37000	0.85049
Total Nitrogen (mg/L)	3	3	1.10000	1.67000	1.46333	1.66500	0.31565

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229679 : GW96-1a - Tailings Impoundment North Well (deep)

	6-Jun-07	11-Oct-07	28-May-08	19-Nov-08	3-Jun-09	14-Sep-09	19-May-10	20-Oct-10	24-May-11	13-Oct-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) (	302	292	233	344	323	213	236	255	219	267	254	252
Ammonia (as N) (mg/L	0.032	0.149		0.154	0.167	0.0757	0.0798	0.0841	0.105	0.111	0.0968	0.0788
Chloride (mg/L)								2.33	1.96	2.39	2.35	2.37
Cond (in situ) (µs/cm)	684	700		526	524	474	556	576	512	610	568	574
Diss-Aluminum (Al) (mg/L)	0.0916	0.404		0.0215	0.258	0.0761	0.0134	0.0146	0.0484	0.0148	0.0443	0.0135
Diss-Antimony (Sb) (mg/L)	0.0004	0.00115		0.00043	0.00029	0.00051	0.00092	0.00087	0.00079	0.00029	0.00058	0.00038
Diss-Arsenic (As) (mg/L)	0.0119	0.00993		0.0105	0.0083	0.00765	0.0063	0.00659	0.00623	0.00639	0.00592	0.00624
Diss-Barium (Ba) (mg/L)	0.0221	0.0283		0.0178	0.0204	0.0252	0.0179	0.02	0.0113	0.0141	0.0157	0.0137
Diss-Cadmium (Cd) (mg/L)	<0.000034	0.000069		<0.000017	<0.00014	0.000044	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	3.3	3.78		2.44	2.58	53.4	5.85	3.59	2.17	2.36	2.68	2.35
Diss-Chromium (Cr) (mg/L)	<0.001	0.0075		<0.002	0.0018	<0.002	0.00053	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00037	0.00058		<0.0001	0.00145	0.00108	<0.0001	<0.0001	0.0004	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00076	0.00699		0.00072	0.00025	0.0013	0.0024	<0.0005	0.00143	<0.00050	0.0006	0.00127
Diss-Iron (Fe) (mg/L)	0.044	0.197		<0.03	0.096	0.03	<0.03	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.0006	0.00288		0.000243	0.00031	0.000546	0.000285	0.000323	0.00078	0.000336	0.000674	0.000462
Diss-Magnesium (Mg) (mg/L)	1.07	1.47		1.02	1.22	20.3	2.53	1.47	0.76	0.97	1.01	0.99
Diss-Manganese (Mn) (mg/L)	0.00814	0.0141		0.00661	0.00902	0.0673	0.0201	0.00966	0.00441	0.00338	0.00471	0.0064
Diss-Molybdenum (Mo) (mg/L)	0.0313	0.0334		0.0326	0.0315	0.0192	0.0278	0.0305	0.026	0.03	0.0295	0.0302
Diss-Nickel (Ni) (mg/L)	<0.001	0.0041		<0.0005	<0.001	<0.0005	0.00068	0.00071	<0.0005	<0.00050	<0.00050	0.00053
Diss-Potassium (K) (mg/L)	0.84	0.95		0.787	0.69	0.696	0.863	0.799	0.76	0.782	0.794	0.781
Diss-Selenium (mg/L)	<0.002	<0.002		<0.001	<0.002	<0.001	<0.001	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	8.99	11.4		9.64	11.3	9.31	8.22	8.83	7.91	8.51	8.25	8.2
Diss-Sodium (Na) (mg/L)	147			152	147	102	122	118	112	127	123	123
Diss-Strontium (Sr) (mg/L)	0.134	0.168		0.121	0.122	0.999	0.153	0.129	0.0802	0.0944	0.0973	0.0994
Diss-Zinc (Zn) (mg/L)	0.0023	<0.009		<0.001	<0.002	0.001	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	12.6	15.5	14.2	10.3	11.5	9.3	25	15	8.55	9.87	10.8	9.93
Nitrate (mg/L)	0.011	<0.005	<0.005	<0.005	<0.005	0.0058	0.194	0.0959	<0.005	0.0124	0.0072	0.0168
Nitrate and Nitrite (mg/L)	0.0143	0.0074	0.0055	<0.005	<0.005	0.0232	0.228	0.105	<0.0051	0.0186	0.0072	0.0251
Nitrite (mg/L)	0.0033	0.0074	0.0055	<0.001	0.0047	0.0174	0.0336	0.0094	<0.001	0.0062	<0.0010	0.0083
pH (in situ) (pH)	8.84	8.99		9.18	9.14	9.62		8.42	8.62	9.01	9.13	8.88
Sulphate (mg/L)	55.9	50.9		48.8	48.7	42.7	53.7	48	44.5	44.9	43.6	42.6
Temp (in situ) (Degrees Celcius)	9.3	6.4		4.8	10.2	8	8	9	6.5	7.7	7.1	7.4
Total Nitrogen (mg/L)							0.44	0.23	0.19	0.19	0.06	0.12

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229679 : GW96-1a - Tailings Impoundment North Well (deep)							
	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	39	39	56.70000	344.00000	292.53077	339.20000	58.18869
Ammonia (as N) (mg/L)	37	35	0.00500	0.20100	0.10436	0.16380	0.05453
Chloride (mg/L)	5	5	1.96000	2.39000	2.28000	2.38600	0.18028
Cond (in situ) (µs/cm)	34	34	474.00000	739.00000	628.32353	724.05000	81.03524
Diss-Aluminum (Al) (mg/L)	42	42	0.00130	0.40400	0.05449	0.16110	0.07243
Diss-Antimony (Sb) (mg/L)	38	36	0.00005	0.00115	0.00039	0.00092	0.00026
Diss-Arsenic (As) (mg/L)	42	42	0.00141	0.01260	0.00714	0.01186	0.00221
Diss-Barium (Ba) (mg/L)	38	38	0.01120	0.03430	0.02132	0.02830	0.00483
Diss-Cadmium (Cd) (mg/L)	38	22	0.00001	0.00052	0.00006	0.00008	0.00008
Diss-Calcium (Ca) (mg/L)	41	41	2.14000	53.40000	4.87683	6.23000	7.91886
Diss-Chromium (Cr) (mg/L)	38	19	0.00010	0.00750	0.00121	0.00338	0.00156
Diss-Cobalt (Co) (mg/L)	38	24	0.00001	0.00360	0.00071	0.00310	0.00097
Diss-Copper (Cu) (mg/L)	42	40	0.00002	0.04420	0.00249	0.00692	0.00681
Diss-Iron (Fe) (mg/L)	42	30	0.00250	0.23900	0.03955	0.11880	0.04752
Diss-Lead (Pb) (mg/L)	42	39	0.00003	0.00288	0.00034	0.00079	0.00046
Diss-Magnesium (Mg) (mg/L)	42	42	0.75000	20.30000	2.06429	2.95750	3.03219
Diss-Manganese (Mn) (mg/L)	42	42	0.00338	0.06730	0.01149	0.01848	0.00982
Diss-Molybdenum (Mo) (mg/L)	42	42	0.00105	0.03630	0.02991	0.03488	0.00623
Diss-Nickel (Ni) (mg/L)	42	30	0.00025	0.00420	0.00118	0.00408	0.00114
Diss-Potassium (K) (mg/L)	42	42	0.46000	1.24000	0.90455	1.20900	0.17029
Diss-Selenium (mg/L)	41	7	0.00010	0.00100	0.00044	0.00100	0.00031
Diss-Silicon (Si) (mg/L)	42	42	3.79000	11.40000	8.83214	10.26950	1.22220
Diss-Sodium (Na) (mg/L)	41	41	10.40000	193.00000	149.13902	180.00000	34.81489
Diss-Strontium (Sr) (mg/L)	42	42	0.07160	0.99900	0.16409	0.18675	0.13631
Diss-Zinc (Zn) (mg/L)	42	27	0.00005	0.02900	0.00225	0.00360	0.00437
Hardness (mg/L)	39	39	8.55000	217.00000	20.77564	31.74000	33.14342
Nitrate (mg/L)	19	8	0.00250	0.19400	0.02137	0.10571	0.04674
Nitrate and Nitrite (mg/L)	38	28	0.00250	0.22800	0.02985	0.11775	0.04938
Nitrite (mg/L)	31	26	0.00050	0.03360	0.00650	0.01720	0.00683
pH (in situ) (pH)	34	34	6.80000	9.62000	8.84894	9.37950	0.55558
Sulphate (mg/L)	38	36	0.00003	58.60000	47.33684	56.43000	12.79242
Temp (in situ) (Degrees Celcius)	35	35	4.80000	12.90000	8.38000	12.34000	2.04907
Total Nitrogen (mg/L)	6	6	0.06000	0.44000	0.20500	0.38750	0.13004

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Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229680 : GW96-1b - Tailings Impoundment North Well (shallow)

	6-Jun-07	4-Oct-07	20-May-08	15-Oct-08	3-Jun-09	14-Sep-09	18-May-10	19-May-10	20-Oct-10	24-May-11	13-Oct-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) (	186	180	171	168	175	193	172	177	171	172	180	181	177
Ammonia (as N) (mg/L)	0.057	0.0797	0.072	0.0713	0.0786	0.0806	0.0714	0.0716	0.0695	0.0743	0.08	0.08	0.0732
Chloride (mg/L)									<0.5	<0.5	<0.50	<0.50	<0.50
Cond (in situ) (µs/cm)	676	365	355	368	357	362	351	350	361	365	366	366	368
Diss-Aluminum (Al) (mg/L)	0.0048	0.0028	<0.004	0.0029	0.0024	0.0022	0.0028	0.0023	<0.003	0.0055	0.0038	0.0141	0.0033
Diss-Antimony (Sb) (mg/L)	0.00018	0.0001	0.00018	0.00051	<0.0001	<0.0001	0.00034	0.00029	0.00044	0.00014	0.00012	<0.00010	<0.00010
Diss-Arsenic (As) (mg/L)	0.00572	0.00727	0.00545	0.00562	0.00673	0.00564	0.00564	0.00566	0.00547	0.00566	0.0055	0.00544	0.00535
Diss-Barium (Ba) (mg/L)	0.0388	0.0319	0.033	0.0322	0.0371	0.0299	0.0328	0.0323	0.0358	0.0332	0.0325	0.0342	0.0306
Diss-Cadmium (Cd) (mg/L)	0.000022	<0.000017	<0.000017	<0.000017	<0.000017	<0.00004	<0.000017	<0.000017	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	9.02	9.36	9.62	9.92	9.87	10	9.97	9.84	10.3	10.3	10.2	10.4	10.8
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.002	<0.0005	<0.0005	<0.002	<0.0006	<0.001	<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)	0.00027	0.0001	0.0002	0.00023	0.00017	<0.0001	0.00016	0.00011	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
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	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	6.76	7.24	6.78	7.14	7.57	7.47	7.38	7.53	7.61	7.7	7.69	7.83	8.11
Diss-Manganese (Mn) (mg/L)	0.00473	0.00481	0.00519	0.00591	0.00503	0.00588	0.00622	0.00648	0.00723	0.00691	0.00836	0.0108	0.0203
Diss-Molybdenum (Mo) (mg/L)	0.0115	0.011	0.0114	0.0108	0.011	0.0104	0.0113	0.0113	0.0109	0.0109	0.0111	0.011	0.0112
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-Potassium (K) (mg/L)	1.36	1.23	1.25	1.25	1.21	1.12	1.25	1.19	1.23	1.28	1.32	1.23	1.2
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	3.71	4.6	4.36	4.47	4.82	4.45	4.52	4.52	4.67	4.54	4.69	4.63	4.73
Diss-Sodium (Na) (mg/L)	67.4	67.5	69.3	63.4	57.7	58.3	62.1	62	55.3	61.2	62.5	59.7	59.1
Diss-Strontium (Sr) (mg/L)	0.275	0.279	0.275	0.274	0.308	0.257	0.288	0.283	0.295	0.282	0.288	0.283	0.316
Diss-Zinc (Zn) (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	50.4	53.2	51.9	54.2	55.8	55.8	55.3	55.6	57	57.3	57.2	58.2	60.4
Nitrate (mg/L)	0.0092	0.0158	0.0057	0.0066	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)	0.0092	0.0158	0.0143	0.0192	<0.005	<0.005	0.0165	0.0091	0.0073	<0.0051	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	<0.001	<0.001	0.0086	0.0126	<0.001	<0.001	0.0107	0.0091	0.0073	<0.001	0.002	<0.0010	0.0011
pH (in situ) (pH)	11.73	8.89	9.054	11.048	8.94	9.23			8.19	8.45	8.85	8.83	8.71
Sulphate (mg/L)	23.9	22.5	23.9	23.3	23.4	22.8	23	24.1	22.7	23.8	23.6	22.8	22.4
Temp (in situ) (Degrees Celcius)	7	6.3	6.3	6.5	7.6	7.5		7.2	7.9	6.4	6.2	6.3	6.2
Total Nitrogen (mg/L)							<0.05	<0.05	0.1	0.13	0.14	<0.050	<0.050

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Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229680 : GW96-1b - Tailings Impoundment North Well (shallow)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	38	38	131.00000	286.00000	163.28947	187.05000	25.75656
Ammonia (as N) (mg/L)	36	34	0.00500	0.14800	0.06067	0.08370	0.02804
Chloride (mg/L)	5	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	34	34	300.00000	676.00000	359.64706	368.70000	57.95865
Diss-Aluminum (Al) (mg/L)	40	38	0.00080	0.07100	0.00568	0.01453	0.01131
Diss-Antimony (Sb) (mg/L)	36	32	0.00005	0.00051	0.00016	0.00039	0.00011
Diss-Arsenic (As) (mg/L)	40	40	0.00420	0.01260	0.00594	0.00676	0.00124
Diss-Barium (Ba) (mg/L)	36	36	0.02280	0.03940	0.03157	0.03893	0.00400
Diss-Cadmium (Cd) (mg/L)	36	15	0.00001	0.00007	0.00002	0.00004	0.00002
Diss-Calcium (Ca) (mg/L)	40	40	3.52000	10.80000	8.65800	10.30500	1.54533
Diss-Chromium (Cr) (mg/L)	36	2	0.00010	0.00410	0.00039	0.00115	0.00072
Diss-Cobalt (Co) (mg/L)	36	5	0.00001	0.00060	0.00006	0.00018	0.00013
Diss-Copper (Cu) (mg/L)	40	33	0.00002	0.00224	0.00043	0.00091	0.00040
Diss-Iron (Fe) (mg/L)	40	7	0.00100	0.07100	0.01161	0.03040	0.01444
Diss-Lead (Pb) (mg/L)	40	10	0.00001	0.00183	0.00016	0.00166	0.00045
Diss-Magnesium (Mg) (mg/L)	40	40	1.17000	8.11000	6.19150	7.70650	1.33895
Diss-Manganese (Mn) (mg/L)	40	40	0.00170	0.02030	0.00515	0.01081	0.00316
Diss-Molybdenum (Mo) (mg/L)	40	40	0.01010	0.03710	0.01303	0.01553	0.00418
Diss-Nickel (Ni) (mg/L)	40	5	0.00003	0.00105	0.00028	0.00032	0.00014
Diss-Potassium (K) (mg/L)	40	40	0.87700	4.72000	1.34942	1.56600	0.56779
Diss-Selenium (mg/L)	40	2	0.00005	0.00080	0.00031	0.00050	0.00016
Diss-Silicon (Si) (mg/L)	40	40	3.26000	8.71000	4.28425	4.73450	0.79405
Diss-Sodium (Na) (mg/L)	40	40	49.00000	160.00000	66.81500	71.55000	15.91104
Diss-Strontium (Sr) (mg/L)	40	40	0.16500	0.43400	0.27718	0.35870	0.04659
Diss-Zinc (Zn) (mg/L)	40	10	0.00003	0.00240	0.00067	0.00160	0.00059
Hardness (mg/L)	38	38	13.60000	60.40000	47.53947	57.43500	9.15517
Nitrate (mg/L)	18	6	0.00250	0.02000	0.00642	0.01643	0.00519
Nitrate and Nitrite (mg/L)	37	28	0.00250	0.25700	0.02385	0.06880	0.04337
Nitrite (mg/L)	30	21	0.00050	0.03100	0.00849	0.02820	0.00900
pH (in situ) (pH)	32	32	6.25000	11.73000	9.08725	10.29560	0.96636
Sulphate (mg/L)	38	36	0.00003	61.70000	27.13684	40.41500	10.06799
Temp (in situ) (Degrees Celcius)	33	33	5.80000	11.90000	7.64545	10.14000	1.50646
Total Nitrogen (mg/L)	7	3	0.02500	0.14000	0.06714	0.13700	0.05392

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229681 : GW96-2a - Tailings Impoundment East Well (deep)

	6-Jun-07	11-Oct-07	28-May-08	19-Nov-08	3-Jun-09	14-Sep-09	20-May-10	20-Oct-10	18-May-11	19-Oct-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) (	214	201	225	230	218	244	231	211	227	227	227	205
Ammonia (as N) (mg/L)	0.062	0.108	0.128	0.096	0.0917	0.0939	0.113	0.0896	0.0823	0.0812	0.0974	0.0739
Chloride (mg/L)								<0.5	<0.5	<0.50	<0.50	<0.50
Cond (in situ) (µs/cm)	430	443	442	426	441	442	402	408	444	456	433	420
Diss-Aluminum (Al) (mg/L)	0.0436	0.76	<0.001	<0.001	<0.001	<0.001	0.0143	0.0268	<0.003	<0.0030	0.0038	<0.0030
Diss-Antimony (Sb) (mg/L)	0.00148	0.001	0.00125	0.00068	0.00227	0.00228	0.0014	0.00241	0.00084	0.00086	0.00085	0.00151
Diss-Arsenic (As) (mg/L)	0.0068	0.00688	0.00715	0.00824	0.00746	0.0069	0.00654	0.00577	0.00588	0.00663	0.00696	0.00576
Diss-Barium (Ba) (mg/L)	0.0465	0.0537	0.06	0.0612	0.0685	0.0569	0.0677	0.0591	0.0692	0.0573	0.0717	0.0544
Diss-Cadmium (Cd) (mg/L)	<0.000017	0.000018	<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)	25	30.7	41.6	45.4	36.9	39.7	36.4	36.6	43.8	43.4	41.9	31.7
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.003	0.00068	<0.002	<0.002	<0.0008	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	<0.0001	0.00026	<0.0001	0.00013	0.00024	<0.0001	0.00101	<0.0001	0.00074	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00084	0.00106	0.00036	0.00024	0.00049	0.0003	0.00023	<0.0005	<0.0005	<0.00050	<0.00050	0.00069
Diss-Iron (Fe) (mg/L)	0.043	1.1	<0.03	0.059	<0.03	<0.03	<0.03	0.032	0.039	0.046	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.000074	0.000453	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	23.2	23.1	22.8	23	22.1	22.3	20.8	20.5	23	23.3	23.2	22.6
Diss-Manganese (Mn) (mg/L)	0.00297	0.00385	0.00536	0.00805	0.00579	0.00768	0.0105	0.00603	0.00913	0.00719	0.0363	0.0187
Diss-Molybdenum (Mo) (mg/L)	0.00322	0.00365	0.00267	0.00283	0.00339	0.00294	0.00314	0.0031	0.00244	0.00292	0.00295	0.00318
Diss-Nickel (Ni) (mg/L)	0.00188	0.00296	0.00076	0.0011	0.00273	0.00167	0.00186	0.00147	0.0013	0.0014	0.00129	0.00159
Diss-Potassium (K) (mg/L)	2.58	2.63	1.98	1.86	2.24	1.98	1.88	2.35	1.92	1.87	2.27	2.63
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	<0.00050
Diss-Silicon (Si) (mg/L)	3.18	10.7	3.5	3.27	3.62	3.35	3.22	3.15	3.29	3.42	3.42	3.21
Diss-Sodium (Na) (mg/L)	27.3	27.5	25.5	25.3	24	24.2	24.4	22.7	23.7	24.5	27.6	25.2
Diss-Strontium (Sr) (mg/L)	0.372	0.406	0.361	0.377	0.483	0.374	0.392	0.435	0.357	0.375	0.391	0.422
Diss-Zinc (Zn) (mg/L)	0.0017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	158	172	198	208	183	191	177	176	204	205	200	172
Nitrate (mg/L)	0.0108	0.0092	<0.005	<0.005	0.0092	<0.005	<0.005	0.0065	<0.005	0.0052	0.0455	0.0215
Nitrate and Nitrite (mg/L)	0.0143	0.0134	<0.005	<0.005	0.0135	<0.005	<0.005	0.0087	0.0053	0.0109	0.0499	0.0306
Nitrite (mg/L)	0.0035	0.0042	<0.001	0.0014	0.0043	0.0024	<0.001	0.0022	0.0053	0.0056	0.0043	0.0091
pH (in situ) (pH)	8.32	8.16	8.078	8.48	8.06	8.42		7.92	8.12	8.01	8.53	8.42
Sulphate (mg/L)	24.3	24.1	23.7	24.9	24.2	24.3	24	24.3	26.5	26.2	26.7	27.2
Temp (in situ) (Degrees Celcius)	7.7	7.1	8.7	5.8	9.4	9.8	7.7	9.1	7.9	7.4	8.2	7.9
Total Nitrogen (mg/L)							0.15	0.16	0.1	0.17	0.08	0.07

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Mining Corporation

IMPERIAL METALS CORPORATION

E229681 : GW96-2a - Tailings Impoundment East Well (deep)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	34	34	185.00000	248.00000	224.29412	235.00000	12.45970
Ammonia (as N) (mg/L)	34	34	0.01100	0.12800	0.06585	0.11105	0.03369
Chloride (mg/L)	5	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	32	32	320.00000	547.00000	442.34375	490.90000	41.93360
Diss-Aluminum (Al) (mg/L)	35	26	0.00010	0.76000	0.02770	0.02824	0.12779
Diss-Antimony (Sb) (mg/L)	31	31	0.00013	0.00241	0.00079	0.00189	0.00065
Diss-Arsenic (As) (mg/L)	35	35	0.00110	0.01500	0.00874	0.01248	0.00275
Diss-Barium (Ba) (mg/L)	31	31	0.04650	0.07680	0.06310	0.07230	0.00762
Diss-Cadmium (Cd) (mg/L)	30	10	0.00001	0.00844	0.00030	0.00004	0.00154
Diss-Calcium (Ca) (mg/L)	34	34	25.00000	55.00000	41.63824	47.47500	6.50291
Diss-Chromium (Cr) (mg/L)	30	7	0.00010	0.00720	0.00083	0.00227	0.00155
Diss-Cobalt (Co) (mg/L)	31	19	0.00001	0.00119	0.00018	0.00053	0.00028
Diss-Copper (Cu) (mg/L)	35	30	0.00001	0.05740	0.00214	0.00113	0.00962
Diss-Iron (Fe) (mg/L)	34	26	0.00200	1.10000	0.08725	0.15505	0.18671
Diss-Lead (Pb) (mg/L)	35	14	0.00001	0.00045	0.00006	0.00014	0.00009
Diss-Magnesium (Mg) (mg/L)	35	35	18.00000	24.60000	22.51429	23.63000	1.16623
Diss-Manganese (Mn) (mg/L)	35	35	0.00297	0.09960	0.01333	0.01856	0.01620
Diss-Molybdenum (Mo) (mg/L)	35	35	0.00244	0.00744	0.00352	0.00483	0.00088
Diss-Nickel (Ni) (mg/L)	34	33	0.00020	0.01070	0.00175	0.00281	0.00171
Diss-Potassium (K) (mg/L)	35	35	1.58000	2.63000	1.96914	2.41900	0.26828
Diss-Selenium (mg/L)	34	4	0.00005	0.00090	0.00033	0.00050	0.00017
Diss-Silicon (Si) (mg/L)	35	35	2.73000	10.70000	3.66514	5.08100	1.57646
Diss-Sodium (Na) (mg/L)	35	35	17.60000	29.30000	25.98571	29.13000	2.33907
Diss-Strontium (Sr) (mg/L)	35	35	0.31700	0.48300	0.36877	0.42590	0.03360
Diss-Zinc (Zn) (mg/L)	35	22	0.00025	0.03530	0.00498	0.02198	0.00865
Hardness (mg/L)	33	33	158.00000	224.00000	197.18182	215.20000	16.98796
Nitrate (mg/L)	17	8	0.00250	0.04550	0.00994	0.01294	0.01035
Nitrate and Nitrite (mg/L)	34	28	0.00250	0.06100	0.01625	0.03800	0.01412
Nitrite (mg/L)	30	24	0.00050	0.00910	0.00368	0.00710	0.00234
pH (in situ) (pH)	31	31	6.75000	9.20000	8.09123	8.83500	0.44636
Sulphate (mg/L)	35	33	0.00003	33.10000	24.65714	30.35000	7.51759
Temp (in situ) (Degrees Celcius)	32	32	5.80000	18.60000	9.51250	13.28500	2.51534
Total Nitrogen (mg/L)	6	6	0.07000	0.17000	0.12167	0.16750	0.04355

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229682 : GW96-2b - Tailings Impoundment East Well (shallow)												
	6-Jun-07	4-Oct-07	20-May-08	15-Oct-08	3-Jun-09	14-Sep-09	19-May-10	20-Oct-10	18-May-11	19-Oct-11	30-May-12	17-Oct-12
Alkalinity (CaCO3) ()	262	248	242	213	235	226	218	212	217	211	221	216
Ammonia (as N) (mg/L)	0.021	<0.005	<0.005	0.0069	0.0051	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Chloride (mg/L)								15.2	23	22.3	23.5	17.8
Cond (in situ) (µs/cm)	520	494	512	529	517	554	520	539	542	551	566	558
Diss-Aluminum (Al) (mg/L)	0.0014	<0.001	<0.002	0.0016	<0.001	0.0011	<0.001	<0.003	<0.003	<0.0030	0.0043	0.0031
Diss-Antimony (Sb) (mg/L)	0.0002	0.00023	0.00014	<0.0001	<0.0001	0.00011	0.00027	0.00025	0.00017	<0.00010	0.00014	<0.00010
Diss-Arsenic (As) (mg/L)	0.00141	0.00201	<0.0001	0.00154	0.00178	0.00173	0.00154	0.00151	0.00151	0.00151	0.00147	0.00148
Diss-Barium (Ba) (mg/L)	0.0106	0.00986	0.0102	0.0103	0.0106	0.0118	0.0128	0.0135	0.0164	0.0137	0.0284	0.0209
Diss-Cadmium (Cd) (mg/L)	0.000021	<0.000017	0.000021	0.000028	0.000023	<0.00007	0.00002	<0.00001	<0.00001	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	58	60.5	57.6	59	56.4	60.8	59.9	62.8	58.9	58.4	59.3	63.7
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.003	<0.0005	0.00051	<0.003	<0.002	<0.001	<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	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)	0.00118	0.00077	0.0012	0.00113	0.00109	0.00091	0.00119	0.00097	0.00093	0.0008	0.00106	0.00082
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	<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	<0.000050
Diss-Magnesium (Mg) (mg/L)	23.3	22.6	21.8	23.1	22.7	24.4	22	24.4	23	23.4	23.9	24.2
Diss-Manganese (Mn) (mg/L)	0.00383	0.0106	0.00362	0.0171	0.00645	0.0177	0.00432	0.0232	0.0046	0.00751	0.0558	0.0214
Diss-Molybdenum (Mo) (mg/L)	0.00492	0.00465	0.00502	0.00923	0.00526	0.0197	0.00498	0.0134	0.00556	0.00662	0.00673	0.00892
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Potassium (K) (mg/L)	1.75	1.61	1.61	1.5	1.66	1.6	1.76	1.66	1.73	1.57	1.82	1.61
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	<0.00050
Diss-Silicon (Si) (mg/L)	7.52	8.48	8.2	8.38	8.88	8.07	8.21	8.41	8.26	8.42	8.28	8.31
Diss-Sodium (Na) (mg/L)	26.2	22.9	22.8	21.4	23.2	21.6	25.1	20.5	24.5	26.3	25.7	24.3
Diss-Strontium (Sr) (mg/L)	0.394	0.401	0.392	0.392	0.442	0.406	0.405	0.433	0.412	0.437	0.436	0.459
Diss-Zinc (Zn) (mg/L)	0.0028	0.0012	0.0013	<0.001	<0.001	<0.001	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	241	244	234	243	234	252	240	257	242	242	247	259
Nitrate (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
Nitrite (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
pH (in situ) (pH)	7.85	7.95	7.889	8.046	7.88	8.27		7.65	7.87	7.91	7.93	7.68
Sulphate (mg/L)	24.7	14.2	24.5	40.7	25	69.3	28	56.9	41.2	48.9	53.6	55.7
Temp (in situ) (Degrees Celcius)	7.6	7.2	7.9	7	8.6	8.2	8	7.9	7.4	7.1	7.4	6.9
Total Nitrogen (mg/L)							<0.05	0.07	<0.05	0.05	<0.050	<0.050

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Mining Corporation

IMPERIAL METALS CORPORATION

E229682 : GW96-2b - Tailings Impoundment East Well (shallow)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	35	35	193.00000	278.00000	244.62857	270.30000	23.69299
Ammonia (as N) (mg/L)	33	14	0.00500	0.02400	0.00806	0.01820	0.00548
Chloride (mg/L)	6	6	15.20000	23.50000	19.95000	22.82500	3.42972
Cond (in situ) (µs/cm)	31	31	360.00000	566.00000	495.25806	556.00000	44.99109
Diss-Aluminum (Al) (mg/L)	35	24	0.00010	0.01170	0.00179	0.00346	0.00203
Diss-Antimony (Sb) (mg/L)	33	27	0.00003	0.00039	0.00015	0.00027	0.00008
Diss-Arsenic (As) (mg/L)	35	34	0.00005	0.00201	0.00138	0.00175	0.00030
Diss-Barium (Ba) (mg/L)	33	33	0.00790	0.02840	0.01182	0.02042	0.00434
Diss-Cadmium (Cd) (mg/L)	33	15	0.00001	0.00007	0.00002	0.00003	0.00001
Diss-Calcium (Ca) (mg/L)	34	34	47.00000	63.80000	58.21471	62.73500	3.60043
Diss-Chromium (Cr) (mg/L)	33	8	0.00010	0.00730	0.00101	0.00438	0.00186
Diss-Cobalt (Co) (mg/L)	33	4	0.00001	0.00005	0.00003	0.00005	0.00002
Diss-Copper (Cu) (mg/L)	35	35	0.00063	0.00420	0.00123	0.00160	0.00058
Diss-Iron (Fe) (mg/L)	34	6	0.00100	0.05900	0.01231	0.03430	0.01286
Diss-Lead (Pb) (mg/L)	35	11	0.00001	0.00182	0.00009	0.00015	0.00030
Diss-Magnesium (Mg) (mg/L)	35	35	15.30000	24.80000	22.70857	24.40000	1.64288
Diss-Manganese (Mn) (mg/L)	35	35	0.00206	0.09130	0.01528	0.03480	0.01906
Diss-Molybdenum (Mo) (mg/L)	35	35	0.00370	0.01970	0.00595	0.00901	0.00304
Diss-Nickel (Ni) (mg/L)	35	2	0.00003	0.00090	0.00025	0.00025	0.00012
Diss-Potassium (K) (mg/L)	35	35	1.14000	2.27000	1.57114	1.88800	0.24705
Diss-Selenium (mg/L)	35	4	0.00020	0.00060	0.00034	0.00050	0.00012
Diss-Silicon (Si) (mg/L)	35	35	7.32000	9.02000	8.36171	8.79600	0.36930
Diss-Sodium (Na) (mg/L)	35	35	11.30000	26.30000	21.33143	25.28000	3.34961
Diss-Strontium (Sr) (mg/L)	35	35	0.34600	0.45900	0.40429	0.44350	0.02943
Diss-Zinc (Zn) (mg/L)	35	21	0.00025	0.00710	0.00172	0.00442	0.00176
Hardness (mg/L)	34	34	218.00000	259.00000	240.58824	256.35000	11.10588
Nitrate (mg/L)	19	0	0.00250	0.01000	0.00447	0.01000	0.00339
Nitrate and Nitrite (mg/L)	34	9	0.00250	0.06100	0.00608	0.01210	0.01064
Nitrite (mg/L)	29	6	0.00050	0.00400	0.00112	0.00250	0.00097
pH (in situ) (pH)	29	29	6.62000	8.35000	7.80155	8.22600	0.41172
Sulphate (mg/L)	37	35	0.00003	69.30000	19.13514	55.78000	19.60587
Temp (in situ) (Degrees Celcius)	30	30	6.50000	12.90000	8.34000	10.84000	1.43253
Total Nitrogen (mg/L)	7	3	0.02500	0.07000	0.04000	0.05700	0.01958

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From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229683 : GW96-3a - Tailings Impoundment SE Well (deep)

	24-May-07	4-Oct-07	4-Jun-08	25-Nov-08	25-Jun-09	29-Oct-09	29-Jun-10	5-Aug-10	8-Nov-10	15-Jun-11	14-Nov-11	17-Nov-11	31-Jul-12	21-Nov-12
Alkalinity (CaCO3) ()	1060	217	1090	172	179	522	120	146	1050	135		195	323	454
Ammonia (as N) (mg/L)	0.152	0.0646	0.0212	0.0877	0.0719	0.0365	0.0531	0.0639	0.0647	0.0712		0.0691	0.0415	0.0277
Chloride (mg/L)								1.18	12	1.17		1.75	3.3	<5.0
Cond (in situ) (µs/cm)	886	467	229	430	495	902	621	418	2310	418	523			
Diss-Aluminum (Al) (mg/L)	0.014	1.13	0.054	1	0.957	0.347	<0.001	0.878	0.271	0.907		0.742	0.505	0.362
Diss-Antimony (Sb) (mg/L)	0.00011	0.0018	0.0016	0.00495	0.00265	0.00861	0.00075	0.00442	0.00332	0.00347		0.00138	0.00121	0.00071
Diss-Arsenic (As) (mg/L)	0.102	0.0128	0.12	0.0121	0.0153	0.0633	0.00246	0.0158	0.0999	0.0147		0.0226	0.0484	0.0547
Diss-Barium (Ba) (mg/L)	0.0139	0.00287	0.0183	0.00555	0.00195	0.00871	0.0212	0.00215	0.0153	0.00574		0.00352	0.0063	0.00901
Diss-Cadmium (Cd) (mg/L)	<0.000017	0.000044	0.00026	<0.00017	<0.000017	0.000085	<0.000017	0.000022	<0.00002	<0.00001		<0.000010	<0.000010	<0.000020
Diss-Calcium (Ca) (mg/L)	15.8	0.87	15.4	8.32	1.26	8.54	71.1	1.55	11.2	12.5		7.22	7.18	6.96
Diss-Chromium (Cr) (mg/L)	<0.002	0.0026	<0.005	0.00178	0.00058	<0.0025	<0.0005	<0.0005	0.0012	<0.0005		<0.00050	0.00051	<0.0010
Diss-Cobalt (Co) (mg/L)	0.00034	<0.0002	<0.001	0.00031	0.00011	<0.0005	0.00035	0.00037	0.00429	0.00153		<0.00010	0.00011	0.0002
Diss-Copper (Cu) (mg/L)	0.00032	0.00257	0.0014	0.00134	0.0044	0.0031	0.00098	0.00168	0.0048	0.00206		0.00193	0.00072	0.00069
Diss-Iron (Fe) (mg/L)	<0.03	0.038	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.037	<0.03		<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.000079	0.00036	<0.0005	0.000112	0.000147	<0.00025	<0.00005	<0.00005	0.00027	0.000138		0.000127	0.000092	<0.00010
Diss-Magnesium (Mg) (mg/L)	6.21	0.26	5.8	0.59	0.68	3.05	10.8	0.66	4.41	0.61		1.20	1.72	2.6
Diss-Manganese (Mn) (mg/L)	0.071	0.00093	0.0708	0.00488		0.0139	0.16	0.000314	0.0599	0.00715		0.000392	0.0149	0.0333
Diss-Molybdenum (Mo) (mg/L)	0.0788	0.0109	0.0891	0.00977	0.0117	0.0404	0.0381	0.00951	0.0599	0.00853		0.0125	0.0244	0.0309
Diss-Nickel (Ni) (mg/L)	<0.0005	0.0012	<0.005	0.00059	0.0008	<0.0025	<0.0005	0.00058	0.0027	0.00054		0.00057	0.0009	0.0013
Diss-Potassium (K) (mg/L)	4.6	1.65	4.86	1.61	1.8	3.02	0.334	1.54	4.08	1.48		1.69	2.08	2.72
Diss-Selenium (mg/L)	<0.001	<0.002	<0.01	<0.001	<0.001	<0.005	0.021	<0.001	<0.002	<0.0005		<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	8.55	9.07	8.79	9.76	9.93	8.94	8.59	9.65	9.53	10.6		10.5	10.2	9.63
Diss-Sodium (Na) (mg/L)	22	104	579	92	94	306	17.6	79.6	447	70.6		98.2	192	279
Diss-Strontium (Sr) (mg/L)	0.38	0.0427	0.417	0.109	0.0687	0.223	0.187	0.0674	0.366	0.14		0.115	0.142	0.185
Diss-Zinc (Zn) (mg/L)	<0.003	<0.002	<0.01	<0.001	<0.001	<0.005	<0.001	<0.001	<0.006	<0.003		<0.0030	<0.0030	<0.0060
Hardness (mg/L)	64.9	3.25	62.3	23.2	5.9	33.9	222	6.57	46.1	33.8		23.0	25	28.1
Nitrate (mg/L)	<0.005	0.0215	0.255	0.0242	0.0185	0.087	5.88	0.0153	<0.1	0.0136		0.0169	0.141	0.149
Nitrate and Nitrite (mg/L)	<0.005	0.033	0.274	0.0437	0.0483	0.121	6	0.0388	<0.1	0.0331		0.0456	0.16	0.149
Nitrite (mg/L)	<0.001	0.0115	0.019	0.0195	0.0298	0.034	0.121	0.0235	<0.02	0.0195		0.0287	0.0181	<0.010
pH (in situ) (pH)	7.88	10.19	7.926	9.94	10.3	9.42	9.64	10.1	7.67	9.69	8.16			
Sulphate (mg/L)	231	33.9	229	41.3	45.6	116	101	41.3	218	41.6		52.3	79.9	104
Temp (in situ) (Degrees Celcius)	7.6	7.5	7.1	6.6	9.6	7.4	9.3	8.6	8.1	7.7	6			
Total Nitrogen (mg/L)							7.99	0.15	0.108	0.22		0.070	0.29	0.16

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229683 : GW96-3a - Tailings Impoundment SE Well (deep)

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	38	38	120.00000	1,090.00000	428.36842	1,064.50000	378.92404
Ammonia (as N) (mg/L)	37	37	0.00900	0.19100	0.08546	0.15440	0.04265
Chloride (mg/L)	6	5	1.17000	12.00000	3.65000	9.82500	4.17202
Cond (in situ) (µs/cm)	34	34	200.00000	2,460.00000	950.67647	2,380.50000	658.49165
Diss-Aluminum (Al) (mg/L)	37	36	0.00050	2.13000	0.94613	2.03200	0.69951
Diss-Antimony (Sb) (mg/L)	35	35	0.00011	0.00861	0.00183	0.00502	0.00174
Diss-Arsenic (As) (mg/L)	39	39	0.00097	0.12600	0.03212	0.10380	0.03729
Diss-Barium (Ba) (mg/L)	37	37	0.00195	0.03600	0.01283	0.02416	0.00801
Diss-Cadmium (Cd) (mg/L)	37	21	0.00001	0.00026	0.00004	0.00012	0.00005
Diss-Calcium (Ca) (mg/L)	38	38	0.00004	71.70000	19.32790	63.19500	17.69697
Diss-Chromium (Cr) (mg/L)	37	22	0.00010	34.70000	1.87055	6.91776	7.91972
Diss-Cobalt (Co) (mg/L)	37	23	0.00001	0.00429	0.00055	0.00223	0.00087
Diss-Copper (Cu) (mg/L)	39	37	0.00001	0.00480	0.00181	0.00441	0.00127
Diss-Iron (Fe) (mg/L)	38	19	0.00230	0.89500	0.09849	0.79090	0.23187
Diss-Lead (Pb) (mg/L)	39	31	0.00001	0.08600	0.00450	0.00890	0.01896
Diss-Magnesium (Mg) (mg/L)	38	38	0.04250	10.80000	2.21569	6.30300	2.65853
Diss-Manganese (Mn) (mg/L)	38	38	0.00031	0.54000	0.05410	0.21100	0.11753
Diss-Molybdenum (Mo) (mg/L)	39	37	0.00003	0.09780	0.03320	0.08934	0.02907
Diss-Nickel (Ni) (mg/L)	39	26	0.00025	0.02210	0.00201	0.00499	0.00477
Diss-Potassium (K) (mg/L)	39	37	0.00025	6.93000	3.25140	5.16000	1.58075
Diss-Selenium (mg/L)	39	8	0.00010	3.45000	0.17644	0.35790	0.76401
Diss-Silicon (Si) (mg/L)	38	38	0.00060	10.60000	7.32530	10.33000	2.79320
Diss-Sodium (Na) (mg/L)	38	36	0.00001	633.00000	198.85263	581.10000	198.53482
Diss-Strontium (Sr) (mg/L)	39	39	0.04270	105.00000	5.48030	10.37460	22.67614
Diss-Zinc (Zn) (mg/L)	39	22	0.00005	0.01620	0.00261	0.00755	0.00361
Hardness (mg/L)	38	38	3.25000	222.00000	62.30158	158.75000	45.14971
Nitrate (mg/L)	22	17	0.00250	5.88000	0.32004	0.25405	1.24401
Nitrate and Nitrite (mg/L)	37	32	0.00250	6.00000	0.22778	0.26120	0.97767
Nitrite (mg/L)	34	28	0.00050	0.12100	0.02436	0.04475	0.02183
pH (in situ) (pH)	33	33	6.57000	12.51000	9.56976	12.39600	1.78184
Sulphate (mg/L)	38	35	0.00003	298.00000	98.13948	279.65000	93.59698
Temp (in situ) (Degrees Celcius)	34	34	4.50000	17.50000	8.16765	11.48000	2.50741
Total Nitrogen (mg/L)	7	7	0.07000	7.99000	1.28400	5.68000	2.95795

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229685 : GW96-4a - Tailings Impoundment SW Well (deep)

	26-Apr-07	11-Oct-07	28-May-08	18-Nov-08	7-May-09	14-Sep-09	26-May-10	27-May-10	27-Oct-10	24-May-11	20-Oct-11	24-May-12	11-Oct-12
Alkalinity (CaCO3) (	165	179	170	177	171	181	189	177	165	168	164	179	169
Ammonia (as N) (mg/L)	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Chloride (mg/L)									<0.5	0.55	0.68	1.11	1.44
Cond (in situ) (µs/cm)	321	331	307	364	322	297	315	300	304	311	308	321	342
Diss-Aluminum (Al) (mg/L)	0.022	0.003	0.0944	0.003	0.0023	0.0022	0.0033	0.0021	<0.003	0.11	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	0.00054	0.0005	0.00077	0.0006	0.00061	0.00043	0.00065	0.00041	0.00039	0.00025	0.0002	0.00017	0.00018
Diss-Arsenic (As) (mg/L)	0.00394	0.00475	0.00454	0.00418	0.00448	0.00432	0.00406	0.00403	0.0041	0.00405	0.00398	0.00384	0.00386
Diss-Barium (Ba) (mg/L)	0.0135	0.0127	0.0132	0.0151	0.0131	0.0149	0.0166	0.0163	0.0165	0.0169	0.0198	0.0197	0.0165
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	<0.00001	0.000031	<0.000010	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)	23.7	19.5	22.4	22.9	21.9	22.6	23.6	23.2	23.3	23.6	23.9	25	26.6
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.001	0.00087	0.00088	0.00097	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00033	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00027	<0.00010	<0.00010	0.00014
Diss-Copper (Cu) (mg/L)	0.0009	0.00128	0.00235	0.00184	0.00114	0.00182	0.00332	0.00118	0.00106	0.00131	0.00077	0.00078	0.00122
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	0.033	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.073	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.000111	<0.00005	0.000108	<0.00005	<0.00005	<0.00005	0.000104	<0.00005	0.000078	0.000222	<0.000050	<0.000050	0.000053
Diss-Magnesium (Mg) (mg/L)	9.59	9.74	9.33	9.61	9.12	9.02	9.42	9.46	9.4	9.48	10	10.4	10.8
Diss-Manganese (Mn) (mg/L)	0.00712	0.0026	0.0036	0.00348	0.00204	0.00395	0.0116	0.00895	0.00982	0.00537	0.0064	0.0163	0.0148
Diss-Molybdenum (Mo) (mg/L)	0.00218	0.00255	0.00197	0.00202	0.00182	0.00175	0.00192	0.00163	0.00154	0.00169	0.00147	0.00143	0.00153
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	0.00051	0.00056	<0.0005	<0.0005	0.00052	<0.0005	0.00055	0.00072	<0.00050	0.00073	0.00058
Diss-Potassium (K) (mg/L)	0.133	0.225	0.204	0.181	0.152	0.168	0.202	0.125	0.137	0.155	0.129	0.13	0.156
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	9.45	9.89	9.63	9.24	9.07	9.19	9.39	9.38	9.37	9.6	9.86	9.53	9.29
Diss-Sodium (Na) (mg/L)	32.9	49.3	38.2	36.6	33.6	31.3	33.9	30.3	34.8	32.5	31	30.2	33.2
Diss-Strontium (Sr) (mg/L)	0.855	0.846	0.852	0.867	0.731	0.806	0.882	0.837	0.925	0.854	0.918	0.888	0.998
Diss-Zinc (Zn) (mg/L)	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	0.0033	<0.0030	<0.0030
Hardness (mg/L)	98.7	88.8	94.2	96.8	92.4	93.6	97.7	96.8	97	98	101	105	111
Nitrate (mg/L)	0.0066	0.0088	0.0138	0.0213	<0.005	0.0094	0.0193	0.0125	<0.005	0.0053	0.0074	0.0274	0.0414
Nitrate and Nitrite (mg/L)	0.0066	0.0088	0.0138	0.0213	<0.005	0.0094	0.0193	0.0125	<0.0051	0.0053	0.0074	0.0299	0.0438
Nitrite (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	0.0026	0.0024
pH (in situ) (pH)	8.19	8.67	8.485	8.4	8.36	8.61	8.3	8.48	8.07	7.83	8.18	8.16	8.061
Sulphate (mg/L)	2.17	2.16	2	2.3	2.36	1.96	2.23	2.02	2.09	2.48	3.91	9.27	13.1
Temp (in situ) (Degrees Celcius)	5.7	6.4	7.1	5.8	6.5	7.7	7.9	7.2	6.4	7	6.1	7.7	7.0
Total Nitrogen (mg/L)							0.15	<0.05	<0.05	<0.05	0.08	<0.050	0.13

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IMPERIAL METALS CORPORATION

E229685 : GW96-4a - Tailings Impoundment SW Well (deep)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	37	37	62.00000	189.00000	161.62162	179.40000	19.22000
Ammonia (as N) (mg/L)	35	1	0.00500	0.02000	0.00606	0.01440	0.00368
Chloride (mg/L)	5	4	0.25000	1.44000	0.80600	1.37400	0.47035
Cond (in situ) (µs/cm)	33	33	243.00000	514.00000	313.75758	351.40000	42.90034
Diss-Aluminum (Al) (mg/L)	36	30	0.00010	0.11000	0.00940	0.04010	0.02336
Diss-Antimony (Sb) (mg/L)	34	34	0.00008	0.00077	0.00034	0.00062	0.00019
Diss-Arsenic (As) (mg/L)	36	36	0.00290	0.00475	0.00397	0.00450	0.00038
Diss-Barium (Ba) (mg/L)	34	34	0.01120	0.03130	0.01583	0.02008	0.00351
Diss-Cadmium (Cd) (mg/L)	34	12	0.00001	0.00010	0.00002	0.00004	0.00002
Diss-Calcium (Ca) (mg/L)	36	36	18.30000	26.60000	23.39722	25.72500	1.67033
Diss-Chromium (Cr) (mg/L)	34	13	0.00010	0.00270	0.00052	0.00161	0.00057
Diss-Cobalt (Co) (mg/L)	34	20	0.00001	0.00117	0.00016	0.00049	0.00023
Diss-Copper (Cu) (mg/L)	36	36	0.00003	0.00540	0.00142	0.00259	0.00097
Diss-Iron (Fe) (mg/L)	35	9	0.00100	0.07700	0.01829	0.07360	0.02222
Diss-Lead (Pb) (mg/L)	36	17	0.00001	0.00052	0.00007	0.00020	0.00009
Diss-Magnesium (Mg) (mg/L)	36	36	6.54000	10.80000	9.37361	10.32500	0.72370
Diss-Manganese (Mn) (mg/L)	36	36	0.00204	0.01630	0.00874	0.01498	0.00426
Diss-Molybdenum (Mo) (mg/L)	36	36	0.00143	0.00770	0.00267	0.00427	0.00121
Diss-Nickel (Ni) (mg/L)	36	20	0.00025	0.00104	0.00046	0.00085	0.00024
Diss-Potassium (K) (mg/L)	36	35	0.12000	1.00000	0.19031	0.27250	0.14379
Diss-Selenium (mg/L)	36	5	0.00010	0.00070	0.00036	0.00055	0.00016
Diss-Silicon (Si) (mg/L)	36	36	8.35000	9.89000	9.16306	9.68750	0.35774
Diss-Sodium (Na) (mg/L)	36	36	29.80000	49.30000	33.40833	37.37500	3.44942
Diss-Strontium (Sr) (mg/L)	36	36	0.73100	1.10000	0.89283	1.02100	0.08246
Diss-Zinc (Zn) (mg/L)	36	17	0.00005	0.01270	0.00142	0.00353	0.00217
Hardness (mg/L)	36	36	87.60000	111.00000	97.45556	106.25000	5.64059
Nitrate (mg/L)	20	13	0.00250	0.04140	0.01212	0.02810	0.00974
Nitrate and Nitrite (mg/L)	36	22	0.00250	0.04380	0.01006	0.02923	0.00985
Nitrite (mg/L)	31	7	0.00050	0.00700	0.00158	0.00550	0.00178
pH (in situ) (pH)	34	34	7.01000	8.70000	8.17576	8.65700	0.36703
Sulphate (mg/L)	34	32	0.00003	13.10000	4.22824	12.57000	3.59584
Temp (in situ) (Degrees Celcius)	34	34	5.00000	11.60000	7.90588	10.80000	1.60207
Total Nitrogen (mg/L)	7	3	0.02500	0.15000	0.06571	0.14400	0.05488

Grid Format Report

From 1 Jan 2007 to 31 Dec 2012

Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229686 : GW96-4b - Tailings Impoundment SW Well (shallow)

	24-May-07	11-Oct-07	20-May-08	15-Oct-08	5-May-09	14-Sep-09	26-May-10	27-May-10	27-Oct-10	24-May-11	20-Oct-11	24-May-12	11-Oct-12
Alkalinity (CaCO3) ()	238	256	248	245	249	263	257	257	253	264	264	268	243
Ammonia (as N) (mg/L)	0.03	0.0116	0.0116	0.0188	0.016	0.0103	0.0131	0.0114	0.0101	0.0157	0.0063	0.0072	<0.0050
Chloride (mg/L)									0.71	1.37	4.34	7.09	9.7
Cond (in situ) (µs/cm)	170	431	430	439	432	436	446	445	452	490	608	732	746
Diss-Aluminum (Al) (mg/L)	0.0095	0.0201	<0.001	0.0098	0.016	0.0049	0.0011	<0.001	<0.003	0.0092	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)	<0.0001	<0.0001	0.00015	0.00016	0.00066	0.00028	<0.0001	<0.0001	<0.0001	0.00029	<0.00010	0.00021	0.00012
Diss-Arsenic (As) (mg/L)	0.00205	0.00139	0.00147	0.00194	0.00197	0.00235	0.00185	0.00184	0.00188	0.00193	0.00129	0.00127	0.00146
Diss-Barium (Ba) (mg/L)	0.0228	0.0254	0.022	0.0299	0.0228	0.0852	0.0258	0.0246	0.0278	0.0301	0.0332	0.0373	0.0487
Diss-Cadmium (Cd) (mg/L)	<0.00017	0.000219	<0.00017	<0.00017	<0.00017	0.000018	<0.00017	<0.00017	<0.00001	<0.00001	0.00001	0.000019	0.000018
Diss-Calcium (Ca) (mg/L)	55.6	58	58.6	57.6	57.9	54.7	59.5	58.5	61.9	65.6	83.8	107	116
Diss-Chromium (Cr) (mg/L)	0.00099	<0.0005	<0.0005	<0.001	0.00467	<0.002	<0.0006	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.0003	0.00012	0.00049	0.00048	0.00071	0.00054	<0.0001	<0.0001	0.00012	0.00028	0.00015	0.0002	0.00025
Diss-Copper (Cu) (mg/L)	0.00045	0.00174	0.00018	0.00035	0.00051	0.00047	0.00036	0.00019	<0.0005	<0.0005	<0.00050	0.00066	<0.00050
Diss-Iron (Fe) (mg/L)	0.363	<0.03	<0.03	0.204	0.367	0.329	0.254	0.255	0.212	0.34	0.135	0.142	0.187
Diss-Lead (Pb) (mg/L)	0.000056	<0.00005	<0.00005	0.000055	0.000068	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	21.1	20.9	20	20.5	20.7	20.8	21.4	21.6	21.8	23.2	29	32.8	36.9
Diss-Manganese (Mn) (mg/L)	0.0722	0.0638	0.0838	0.0712	0.0646	0.238	0.0946	0.0839	0.104	0.113	0.165	0.2	0.221
Diss-Molybdenum (Mo) (mg/L)	0.0014	0.00123	0.00103	0.0012	0.00115	0.00279	0.00101	0.00101	0.000977	0.00116	0.000925	0.000889	0.000909
Diss-Nickel (Ni) (mg/L)	<0.0005	0.00065	<0.0005	0.00091	0.00073	0.0007	<0.0005	0.00069	0.00072	0.00119	0.00079	0.00086	0.00083
Diss-Potassium (K) (mg/L)	0.57	0.566	0.476	0.538	0.435	0.646	0.428	0.391	0.479	0.411	0.435	0.441	0.464
Diss-Selenium (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)	9.1	9.87	9.71	9.9	9.61	9.84	10.1	9.94	10.4	10	11.2	10.1	10.3
Diss-Sodium (Na) (mg/L)	10.5	10.9	10.1	10.7	10.2	42.5	10.4	9.97	11.3	10.4	11.3	11.4	12.1
Diss-Strontium (Sr) (mg/L)	1.06	1.03	1.03	1.03	0.867	1.03	1.06	0.991	1.16	1.09	1.4	1.6	1.78
Diss-Zinc (Zn) (mg/L)	<0.001	<0.001	0.0011	<0.001	0.0023	<0.002	<0.001	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	226	231	229	228	230	222	237	235	245	259	328	401	442
Nitrate (mg/L)	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.173	0.512	0.583
Nitrate and Nitrite (mg/L)	<0.005	<0.005	0.0076	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0051	<0.0051	0.177	0.522	0.595
Nitrite (mg/L)	<0.001	<0.001	0.0014	0.001	0.0017	<0.001	<0.001	0.0011	<0.001	<0.001	0.0042	0.0105	0.012
pH (in situ) (pH)	8	7.8	7.696	7.9	7.73	8.05	7.82	8.13	7.6	7.54	7.57	7.6	7.357
Sulphate (mg/L)	1.47	1.45	1.66	1.55	1.45	1.35	1.49	1.51	1.59	10.3	69	142	181
Temp (in situ) (Degrees Celcius)	7.1	7.9	6.9	5.8	6.7	8.6	7.4	7	8.2	6.3	7.6	6.7	7.6
Total Nitrogen (mg/L)							0.1	<0.05	<0.05	0.14	0.28	0.47	0.6

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Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229686 : GW96-4b - Tailings Impoundment SW Well (shallow)							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	40	40	191.00000	268.00000	227.32500	264.00000	23.35939
Ammonia (as N) (mg/L)	37	24	0.00500	0.03000	0.01030	0.02044	0.00617
Chloride (mg/L)	5	5	0.71000	9.70000	4.64200	9.17800	3.80243
Cond (in situ) (µs/cm)	36	36	170.00000	746.00000	418.86111	639.00000	103.65028
Diss-Aluminum (Al) (mg/L)	41	34	0.00015	0.18800	0.01506	0.03070	0.03257
Diss-Antimony (Sb) (mg/L)	38	25	0.00003	0.00066	0.00015	0.00048	0.00016
Diss-Arsenic (As) (mg/L)	41	41	0.00127	0.00370	0.00187	0.00230	0.00040
Diss-Barium (Ba) (mg/L)	38	38	0.01400	0.08520	0.02587	0.03901	0.01155
Diss-Cadmium (Cd) (mg/L)	38	9	0.00001	0.00022	0.00003	0.00012	0.00005
Diss-Calcium (Ca) (mg/L)	40	40	30.40000	116.00000	55.10250	84.96000	15.50688
Diss-Chromium (Cr) (mg/L)	38	13	0.00010	0.00610	0.00081	0.00467	0.00135
Diss-Cobalt (Co) (mg/L)	38	29	0.00001	0.00317	0.00039	0.00125	0.00062
Diss-Copper (Cu) (mg/L)	41	34	0.00005	0.00220	0.00053	0.00140	0.00043
Diss-Iron (Fe) (mg/L)	40	36	0.01500	0.38300	0.22837	0.36730	0.11640
Diss-Lead (Pb) (mg/L)	41	19	0.00001	0.00050	0.00008	0.00023	0.00011
Diss-Magnesium (Mg) (mg/L)	40	40	11.80000	36.90000	19.82000	29.19000	4.52804
Diss-Manganese (Mn) (mg/L)	41	41	0.04800	0.23800	0.08187	0.20000	0.04470
Diss-Molybdenum (Mo) (mg/L)	41	41	0.00089	0.00279	0.00122	0.00162	0.00033
Diss-Nickel (Ni) (mg/L)	41	19	0.00025	0.00330	0.00059	0.00119	0.00055
Diss-Potassium (K) (mg/L)	41	40	0.23000	1.00000	0.47939	0.72000	0.15469
Diss-Selenium (mg/L)	41	4	0.00005	0.00120	0.00038	0.00070	0.00024
Diss-Silicon (Si) (mg/L)	40	40	8.32000	11.20000	9.63325	10.30500	0.50642
Diss-Sodium (Na) (mg/L)	40	40	9.15000	42.50000	11.68400	12.60500	5.05677
Diss-Strontium (Sr) (mg/L)	41	41	0.66500	1.78000	1.00588	1.40000	0.20235
Diss-Zinc (Zn) (mg/L)	41	25	0.00025	0.00880	0.00206	0.00510	0.00184
Hardness (mg/L)	40	40	125.00000	442.00000	219.95000	331.65000	56.17461
Nitrate (mg/L)	19	4	0.00250	0.58300	0.07101	0.51910	0.17268
Nitrate and Nitrite (mg/L)	36	11	0.00200	0.59500	0.04009	0.26325	0.13112
Nitrite (mg/L)	33	12	0.00050	0.01200	0.00204	0.00720	0.00265
pH (in situ) (pH)	36	36	6.51000	8.20000	7.71036	8.07000	0.35112
Sulphate (mg/L)	39	36	0.00003	181.00000	11.94359	76.30000	37.13612
Temp (in situ) (Degrees Celcius)	34	34	5.30000	13.10000	8.15588	11.78000	1.95606
Total Nitrogen (mg/L)	7	5	0.02500	0.60000	0.23429	0.56100	0.22580

Grid Format Report

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Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229687 : GW96-5a - Tailings Impoundment Background Well (de

	6-Jun-07	11-Oct-07	28-May-08	19-Nov-08	7-May-09	14-Sep-09	26-May-10	28-Oct-10	26-May-11	20-Oct-11	31-May-12	23-Oct-12
Alkalinity (CaCO3) (	368	331	314	323	328	357	332	321	325	323	322	311
Ammonia (as N) (mg/L	<0.02	<0.005	0.0072	<0.005	<0.005	<0.005	0.0059	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Chloride (mg/L)								<0.5	<0.5	<0.50	<0.50	<0.50
Cond (in situ) (µs/cm)	559	563	556	565	566	568	565	554	561	567	551	585
Diss-Aluminum (Al) (mg/L)	0.0042	0.0021	<0.001	0.0088	0.0031	0.217	<0.001	<0.003	<0.003	<0.0030	<0.0030	0.0051
Diss-Antimony (Sb) (mg/L)	0.00075	0.00079	0.00053	0.00089	0.00169	0.00157	0.00153	0.00136	0.00087	0.00067	0.00085	0.00108
Diss-Arsenic (As) (mg/L)	0.00063	0.00037	0.00041	0.00049	0.00048	0.00052	0.00036	0.00037	0.00045	0.00029	0.00041	0.00053
Diss-Barium (Ba) (mg/L)	0.0294	0.028	0.0291	0.0333	0.0333	0.0498	0.0407	0.0438	0.0367	0.0349	0.0351	0.0918
Diss-Cadmium (Cd) (mg/L)	<0.000017	<0.000017	0.000027	0.000027	0.000035	0.000026	<0.000017	0.000017	0.000011	0.000013	0.000011	<0.000010
Diss-Calcium (Ca) (mg/L)	37.2	38.5	37.1	39.6	38.7	38.2	38.3	40	40.9	37.3	37.3	38.4
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	0.00098	<0.0025	<0.003	<0.002	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)	0.00039	0.00036	0.00024	0.00033	<0.0001	0.00047	<0.0001	0.00011	<0.0001	<0.00010	<0.00010	0.00013
Diss-Copper (Cu) (mg/L)	0.00061	0.00195	0.00341	0.00225	0.00376	0.00926	0.00222	0.00265	0.00242	0.00188	0.00162	0.00088
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	0.21	<0.03	<0.03	<0.03	<0.030	<0.030	<0.030
Diss-Lead (Pb) (mg/L)	0.000118	<0.00005	0.000058	0.000124	0.000255	0.000558	<0.00005	0.000077	0.000054	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)	46.2	48.4	46.7	48.9	48.8	49.4	49.4	47.9	45.9	49.7	46.5	48.1
Diss-Manganese (Mn) (mg/L)	0.0207	0.0102	0.00828	0.00703	0.00322	0.0197	0.00289	0.00913	0.00145	0.0121	0.0247	0.139
Diss-Molybdenum (Mo) (mg/L)	0.00258	0.00215	0.00158	0.0018	0.00168	0.00138	0.00168	0.00143	0.00131	0.00117	0.00146	0.00129
Diss-Nickel (Ni) (mg/L)	0.00268	0.00328	0.00081	0.00135	0.00117	0.00191	0.00137	0.00138	0.00103	0.00056	0.00094	0.00069
Diss-Potassium (K) (mg/L)	2.06	1.97	2.06	2.01	1.85	1.99	1.99	2.13	2.08	1.98	1.87	2.06
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	<0.00050
Diss-Silicon (Si) (mg/L)	7.41	8.19	7.99	7.78	7.73	8.27	7.81	7.9	8.05	8.35	8.08	8
Diss-Sodium (Na) (mg/L)	31.9	22.7	22	20.7	19.3	18.1	19	19.2	20.5	18.9	19.8	20.1
Diss-Strontium (Sr) (mg/L)	0.426	0.449	0.46	0.462	0.406	0.47	0.46	0.531	0.49	0.48	0.47	0.49
Diss-Zinc (Zn) (mg/L)	0.0031	0.0058	0.0018	0.0012	0.003	0.0034	<0.001	<0.003	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)	283	296	285	300	298	299	299	297	291	298	285	294
Nitrate (mg/L)	<0.005	0.0051	0.0117	0.0658	0.0347	0.005	0.0366	<0.005	0.0184	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)	<0.005	0.0051	0.0117	0.0658	0.0361	0.005	0.0366	<0.0051	0.0184	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)	<0.001	<0.001	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
pH (in situ) (pH)	7.91	7.72	7.668	7.92	7.65	8.05	7.8	7.95	7.45	7.65	7.6	7.677
Sulphate (mg/L)	4.95	4.5	4.73	5.39	5.73	5.12	5.15	5.37	4.66	5.21	4.6	4.76
Temp (in situ) (Degrees Celcius)	9.3	8.5	9.7	6.2	7.4	8.8	8.3	6.9	7.9	7.6	8.2	6.0
Total Nitrogen (mg/L)							0.15	<0.05	0.08	0.06	<0.050	0.21

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Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229687 : GW96-5a - Tailings Impoundment Background Well (de							
Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev	
Alkalinity (CaCO3) (	35	35	226.00000	368.00000	319.65714	339.50000	20.03958
Ammonia (as N) (mg/L)	33	5	0.00500	0.02000	0.00637	0.01760	0.00402
Chloride (mg/L)	5	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	31	31	458.00000	677.00000	566.64516	622.00000	38.30017
Diss-Aluminum (Al) (mg/L)	35	27	0.00015	0.21700	0.01188	0.04587	0.03834
Diss-Antimony (Sb) (mg/L)	33	33	0.00036	0.00169	0.00074	0.00155	0.00035
Diss-Arsenic (As) (mg/L)	35	35	0.00010	0.00120	0.00058	0.00096	0.00022
Diss-Barium (Ba) (mg/L)	33	33	0.02100	0.09180	0.03778	0.05144	0.01201
Diss-Cadmium (Cd) (mg/L)	33	27	0.00001	0.00238	0.00010	0.00010	0.00041
Diss-Calcium (Ca) (mg/L)	34	34	31.50000	40.90000	37.14118	39.74000	1.70776
Diss-Chromium (Cr) (mg/L)	33	12	0.00010	0.00740	0.00094	0.00354	0.00150
Diss-Cobalt (Co) (mg/L)	33	21	0.00001	0.00066	0.00016	0.00051	0.00017
Diss-Copper (Cu) (mg/L)	35	35	0.00007	0.00926	0.00288	0.00549	0.00174
Diss-Iron (Fe) (mg/L)	34	13	0.00100	0.21000	0.02296	0.07535	0.03887
Diss-Lead (Pb) (mg/L)	35	25	0.00001	0.00071	0.00011	0.00041	0.00015
Diss-Magnesium (Mg) (mg/L)	35	35	39.10000	49.70000	46.38286	49.40000	2.00272
Diss-Manganese (Mn) (mg/L)	35	35	0.00120	0.13900	0.01838	0.03808	0.02343
Diss-Molybdenum (Mo) (mg/L)	35	35	0.00117	0.00700	0.00290	0.00629	0.00152
Diss-Nickel (Ni) (mg/L)	35	35	0.00056	0.00328	0.00118	0.00227	0.00061
Diss-Potassium (K) (mg/L)	35	35	1.80000	2.84000	2.11229	2.59200	0.24992
Diss-Selenium (mg/L)	35	7	0.00025	0.00400	0.00068	0.00373	0.00099
Diss-Silicon (Si) (mg/L)	35	35	7.07000	9.63000	7.92800	8.29400	0.40664
Diss-Sodium (Na) (mg/L)	35	35	18.10000	31.90000	23.41429	30.41000	3.56223
Diss-Strontium (Sr) (mg/L)	35	35	0.40600	0.57800	0.48280	0.53730	0.03572
Diss-Zinc (Zn) (mg/L)	35	28	0.00025	0.15400	0.00985	0.01953	0.02561
Hardness (mg/L)	33	33	267.00000	300.00000	285.18182	299.00000	9.20073
Nitrate (mg/L)	17	10	0.00250	0.06580	0.01837	0.04516	0.01920
Nitrate and Nitrite (mg/L)	33	22	0.00250	0.26700	0.02620	0.07068	0.04746
Nitrite (mg/L)	28	7	0.00050	0.00700	0.00157	0.00465	0.00164
pH (in situ) (pH)	32	32	6.10000	8.05000	7.62359	7.99150	0.45634
Sulphate (mg/L)	34	32	0.00003	115.00000	9.76412	17.40000	18.92500
Temp (in situ) (Degrees Celcius)	32	32	2.50000	12.70000	8.69375	11.34500	2.09052
Total Nitrogen (mg/L)	6	4	0.02500	0.21000	0.09167	0.19500	0.07407

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Printed : 27/03/2013



Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229690 : GW96-7 - SE Sed Pond Well

	21-Jun-07	28-May-08	7-May-09	26-May-10	26-May-11	20-Oct-11	31-May-12	23-Oct-12
Alkalinity (CaCO3) (		128	136	135	102	102	121	120
Ammonia (as N) (mg/L)		0.0088	0.0472	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Chloride (mg/L)					<0.5	<0.50	<0.50	<0.50
Cond (in situ) (µs/cm)	301	302	302	295	512	477	431	384
Diss-Aluminum (Al) (mg/L)		0.0012	<0.001	<0.001	<0.003	<0.0030	<0.0030	<0.0030
Diss-Antimony (Sb) (mg/L)		<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	0.00012	<0.00010
Diss-Arsenic (As) (mg/L)		0.00147	0.00123	0.00147	0.00149	0.0013	0.00108	0.00125
Diss-Barium (Ba) (mg/L)		0.017	0.0167	0.0179	0.0304	0.0226	0.0265	0.0265
Diss-Cadmium (Cd) (mg/L)		<0.000017	0.000021	<0.000017	<0.00001	0.000012	<0.000010	<0.000010
Diss-Calcium (Ca) (mg/L)		45.3	45.8	43.3	82.2	68.9	63.9	57.3
Diss-Chromium (Cr) (mg/L)		<0.0005	0.00087	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Cobalt (Co) (mg/L)		<0.0001	<0.0001	<0.0001	0.00011	<0.00010	<0.00010	<0.00010
Diss-Copper (Cu) (mg/L)		0.00044	0.0003	0.00018	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Iron (Fe) (mg/L)		0.16	0.221	0.13	<0.03	0.051	<0.030	0.088
Diss-Lead (Pb) (mg/L)		<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050
Diss-Magnesium (Mg) (mg/L)		8.81	8.56	8.56	15	14	12.3	11.4
Diss-Manganese (Mn) (mg/L)		0.129	0.107	0.127	0.226	0.189	0.185	0.164
Diss-Molybdenum (Mo) (mg/L)		0.00536	0.00507	0.00542	0.00964	0.0103	0.00818	0.0075
Diss-Nickel (Ni) (mg/L)		<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050
Diss-Potassium (K) (mg/L)		1.08	0.971	1.02	1.32	1.23	1.2	1.17
Diss-Selenium (mg/L)		<0.001	<0.001	<0.001	0.00151	<0.00050	<0.00050	<0.00050
Diss-Silicon (Si) (mg/L)		12.7	12.5	12.7	11.4	11.3	11.1	10.6
Diss-Sodium (Na) (mg/L)		7.58	6.96	7.27	8.95	8.68	8.13	7.99
Diss-Strontium (Sr) (mg/L)		0.11	0.0928	0.11	0.168	0.182	0.16	0.147
Diss-Zinc (Zn) (mg/L)		<0.001	<0.001	<0.001	<0.003	<0.0030	<0.0030	<0.0030
Hardness (mg/L)		149	150	143	267	230	210	190
Nitrate (mg/L)		0.0091	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050
Nitrate and Nitrite (mg/L)		0.0091	<0.005	<0.005	<0.0051	<0.0051	<0.0051	<0.0051
Nitrite (mg/L)		<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010
pH (in situ) (pH)	7.86	7.9	7.78	9.4	7.57	7.86	7.74	7.62
Sulphate (mg/L)		26.8	26.2	25.8	158	138	106	75.8
Temp (in situ) (Degrees Celcius)	8.5	11.7	8.2	8.34	9.2	7.7	8.1	6.8
Total Nitrogen (mg/L)				<0.05	0.06	0.07	<0.050	<0.050

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

	E229690 : GW96-7 - SE Sed Pond Well						
	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	31	31	102.00000	137.00000	126.45161	135.50000	7.74958
Ammonia (as N) (mg/L)	32	6	0.00500	0.04720	0.00709	0.01384	0.00781
Chloride (mg/L)	4	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	26	26	200.00000	512.00000	321.03846	467.00000	69.93510
Diss-Aluminum (Al) (mg/L)	33	21	0.00010	0.00680	0.00118	0.00230	0.00120
Diss-Antimony (Sb) (mg/L)	31	23	0.00003	0.00038	0.00012	0.00029	0.00009
Diss-Arsenic (As) (mg/L)	33	33	0.00090	0.00210	0.00138	0.00150	0.00018
Diss-Barium (Ba) (mg/L)	31	31	0.01450	0.03040	0.01788	0.02650	0.00364
Diss-Cadmium (Cd) (mg/L)	31	12	0.00001	0.00007	0.00002	0.00006	0.00002
Diss-Calcium (Ca) (mg/L)	32	32	34.50000	82.20000	45.64375	66.15000	9.74461
Diss-Chromium (Cr) (mg/L)	31	6	0.00010	0.00330	0.00046	0.00195	0.00075
Diss-Cobalt (Co) (mg/L)	31	10	0.00001	0.00030	0.00004	0.00011	0.00006
Diss-Copper (Cu) (mg/L)	33	28	0.00005	0.05160	0.00202	0.00157	0.00891
Diss-Iron (Fe) (mg/L)	32	29	0.01500	0.22100	0.13063	0.19790	0.05444
Diss-Lead (Pb) (mg/L)	33	9	0.00001	0.00181	0.00009	0.00015	0.00031
Diss-Magnesium (Mg) (mg/L)	33	33	5.77000	15.00000	8.95061	12.98000	1.81645
Diss-Manganese (Mn) (mg/L)	33	33	0.07530	0.22600	0.12569	0.18660	0.02917
Diss-Molybdenum (Mo) (mg/L)	33	33	0.00468	0.01030	0.00578	0.00876	0.00128
Diss-Nickel (Ni) (mg/L)	33	2	0.00003	0.00071	0.00024	0.00025	0.00011
Diss-Potassium (K) (mg/L)	33	33	0.62000	1.32000	1.05700	1.21800	0.13315
Diss-Selenium (mg/L)	33	2	0.00005	0.00151	0.00034	0.00078	0.00029
Diss-Silicon (Si) (mg/L)	33	33	10.40000	13.10000	12.12727	13.04000	0.71819
Diss-Sodium (Na) (mg/L)	33	33	6.17000	9.12000	8.02242	9.01400	0.79524
Diss-Strontium (Sr) (mg/L)	33	33	0.08740	0.18200	0.11446	0.16320	0.02090
Diss-Zinc (Zn) (mg/L)	33	23	0.00025	0.03150	0.00253	0.00502	0.00537
Hardness (mg/L)	31	31	114.00000	267.00000	153.06452	220.00000	30.55480
Nitrate (mg/L)	15	3	0.00250	0.21100	0.02701	0.14030	0.05757
Nitrate and Nitrite (mg/L)	31	10	0.00250	0.21100	0.01470	0.06450	0.04155
Nitrite (mg/L)	28	6	0.00050	0.00400	0.00148	0.00326	0.00114
pH (in situ) (pH)	26	26	6.40000	9.40000	7.75538	8.21000	0.55869
Sulphate (mg/L)	31	29	0.00003	158.00000	36.22258	122.00000	35.17800
Temp (in situ) (Degrees Celcius)	26	26	2.70000	11.70000	8.67846	11.30000	1.89206
Total Nitrogen (mg/L)	5	2	0.02500	0.07000	0.04100	0.06800	0.02219

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229691 : GW96-8a - Bootjack Lake FSR Well at 11k

	7-Jun-07	4-Jun-08	2-Jun-09	20-May-10	20-Oct-10	26-May-11
Alkalinity (CaCO3) (	140	127	128	122		122
Ammonia (as N) (mg/L)	<0.02	<0.005	<0.005	<0.005		<0.005
Chloride (mg/L)						<0.5
Cond (in situ) (µs/cm)	253	249	251	251	251	254
Diss-Aluminum (Al) (mg/L)	0.0043	<0.001	0.0013	<0.001		<0.003
Diss-Antimony (Sb) (mg/L)	0.00023	0.00011	0.00012	<0.0001		<0.0001
Diss-Arsenic (As) (mg/L)	0.00095	0.00093	0.00099	0.00094		0.00097
Diss-Barium (Ba) (mg/L)	0.00285	0.00273	0.00319	0.00319		0.00325
Diss-Cadmium (Cd) (mg/L)	0.000021	<0.000017	<0.000017	<0.000017		<0.00001
Diss-Calcium (Ca) (mg/L)	34.8	32.9	35.5	31.4		37.1
Diss-Chromium (Cr) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
Diss-Cobalt (Co) (mg/L)	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001
Diss-Copper (Cu) (mg/L)	0.00053	0.0012	0.00072	0.00038		<0.0005
Diss-Iron (Fe) (mg/L)	<0.03	<0.03	<0.03	<0.03		<0.03
Diss-Lead (Pb) (mg/L)	<0.00005	<0.00005	<0.00005	<0.00005		<0.00005
Diss-Magnesium (Mg) (mg/L)	8.69	8.18	8.87	7.97		8.55
Diss-Manganese (Mn) (mg/L)	0.000065	0.000139	0.000076	0.000206		0.000743
Diss-Molybdenum (Mo) (mg/L)	0.0292	0.0281	0.0273	0.0285		0.0296
Diss-Nickel (Ni) (mg/L)	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
Diss-Potassium (K) (mg/L)	1.08	0.969	0.98	0.932		1
Diss-Selenium (mg/L)	0.0017	0.0017	0.0017	0.0017		0.00152
Diss-Silicon (Si) (mg/L)	8.21	8.83	9.08	8.36		9
Diss-Sodium (Na) (mg/L)	8.75	7.41	7.64	7.57		7.66
Diss-Strontium (Sr) (mg/L)	0.11	0.112	0.102	0.112		0.119
Diss-Zinc (Zn) (mg/L)	0.0026	<0.001	<0.001	<0.001		0.0085
Hardness (mg/L)	123	116	125	111		128
Nitrate (mg/L)	0.0597	0.0647	0.0672	0.0544		0.0975
Nitrate and Nitrite (mg/L)	0.0597	0.0647	0.069	0.0544		0.0975
Nitrite (mg/L)	<0.001	<0.001	0.0018	<0.001		<0.001
pH (in situ) (pH)	7.9	8.036	7.75		7.8	7.64
Sulphate (mg/L)	12.2	11.8	13.2	12.2		12.7
Temp (in situ) (Degrees Celcius)	7.1	7.3	8	7.7	7.5	8
Total Nitrogen (mg/L)				0.08		0.13

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Mount Polley

Mining Corporation

IMPERIAL METALS CORPORATION

E229691 : GW96-8a - Bootjack Lake FSR Well at 11k (deep)

	Sample (n)	Count >MDL	Min	Max	Mean	95th Percentile	St Dev
Alkalinity (CaCO3) (	28	28	93.80000	140.00000	122.06429	127.65000	6.94722
Ammonia (as N) (mg/L)	28	7	0.00500	0.06200	0.00879	0.02130	0.01136
Chloride (mg/L)	2	0	0.25000	0.25000	0.25000	0.25000	0.00000
Cond (in situ) (µs/cm)	24	24	235.00000	418.00000	259.12500	264.70000	34.88779
Diss-Aluminum (Al) (mg/L)	30	18	0.00010	0.00700	0.00146	0.00579	0.00180
Diss-Antimony (Sb) (mg/L)	27	19	0.00003	0.00035	0.00011	0.00024	0.00008
Diss-Arsenic (As) (mg/L)	30	30	0.00009	0.00140	0.00095	0.00121	0.00026
Diss-Barium (Ba) (mg/L)	27	27	0.00237	0.00441	0.00294	0.00364	0.00041
Diss-Cadmium (Cd) (mg/L)	27	18	0.00001	0.00021	0.00004	0.00008	0.00004
Diss-Calcium (Ca) (mg/L)	30	30	27.30000	37.10000	34.27000	36.27500	2.24256
Diss-Chromium (Cr) (mg/L)	27	4	0.00010	0.00340	0.00037	0.00142	0.00069
Diss-Cobalt (Co) (mg/L)	27	5	0.00001	0.00010	0.00003	0.00008	0.00003
Diss-Copper (Cu) (mg/L)	30	28	0.00020	0.07610	0.00334	0.00323	0.01376
Diss-Iron (Fe) (mg/L)	30	5	0.00100	0.05600	0.00942	0.03875	0.01330
Diss-Lead (Pb) (mg/L)	30	11	0.00001	0.00187	0.00012	0.00042	0.00035
Diss-Magnesium (Mg) (mg/L)	30	30	7.28000	9.26000	8.51933	9.00200	0.42315
Diss-Manganese (Mn) (mg/L)	30	23	0.00001	0.00214	0.00025	0.00105	0.00045
Diss-Molybdenum (Mo) (mg/L)	30	30	0.02620	0.03240	0.02920	0.03176	0.00153
Diss-Nickel (Ni) (mg/L)	30	2	0.00003	0.00060	0.00024	0.00028	0.00010
Diss-Potassium (K) (mg/L)	30	30	0.78000	8.47000	1.22127	1.15750	1.37203
Diss-Selenium (mg/L)	30	30	0.00090	0.00220	0.00166	0.00211	0.00027
Diss-Silicon (Si) (mg/L)	30	30	8.21000	9.54000	9.04033	9.49200	0.37129
Diss-Sodium (Na) (mg/L)	30	30	6.91000	8.93000	8.16667	8.90000	0.57014
Diss-Strontium (Sr) (mg/L)	30	30	0.10200	0.13400	0.11853	0.12810	0.00664
Diss-Zinc (Zn) (mg/L)	30	20	0.00025	0.00980	0.00223	0.00900	0.00271
Hardness (mg/L)	29	29	68.50000	130.00000	119.28966	128.00000	11.69070
Nitrate (mg/L)	11	11	0.04000	0.09750	0.06655	0.08810	0.01445
Nitrate and Nitrite (mg/L)	29	27	0.00250	0.17600	0.06603	0.13260	0.03794
Nitrite (mg/L)	25	14	0.00050	0.00900	0.00198	0.00620	0.00204
pH (in situ) (pH)	24	24	6.29000	8.53000	7.90025	8.37000	0.43126
Sulphate (mg/L)	27	25	0.00003	18.70000	11.31111	14.62000	3.88372
Temp (in situ) (Degrees Celcius)	25	25	5.80000	11.40000	8.08400	11.10000	1.47611
Total Nitrogen (mg/L)	3	3	0.08000	0.13000	0.10333	0.12700	0.02517