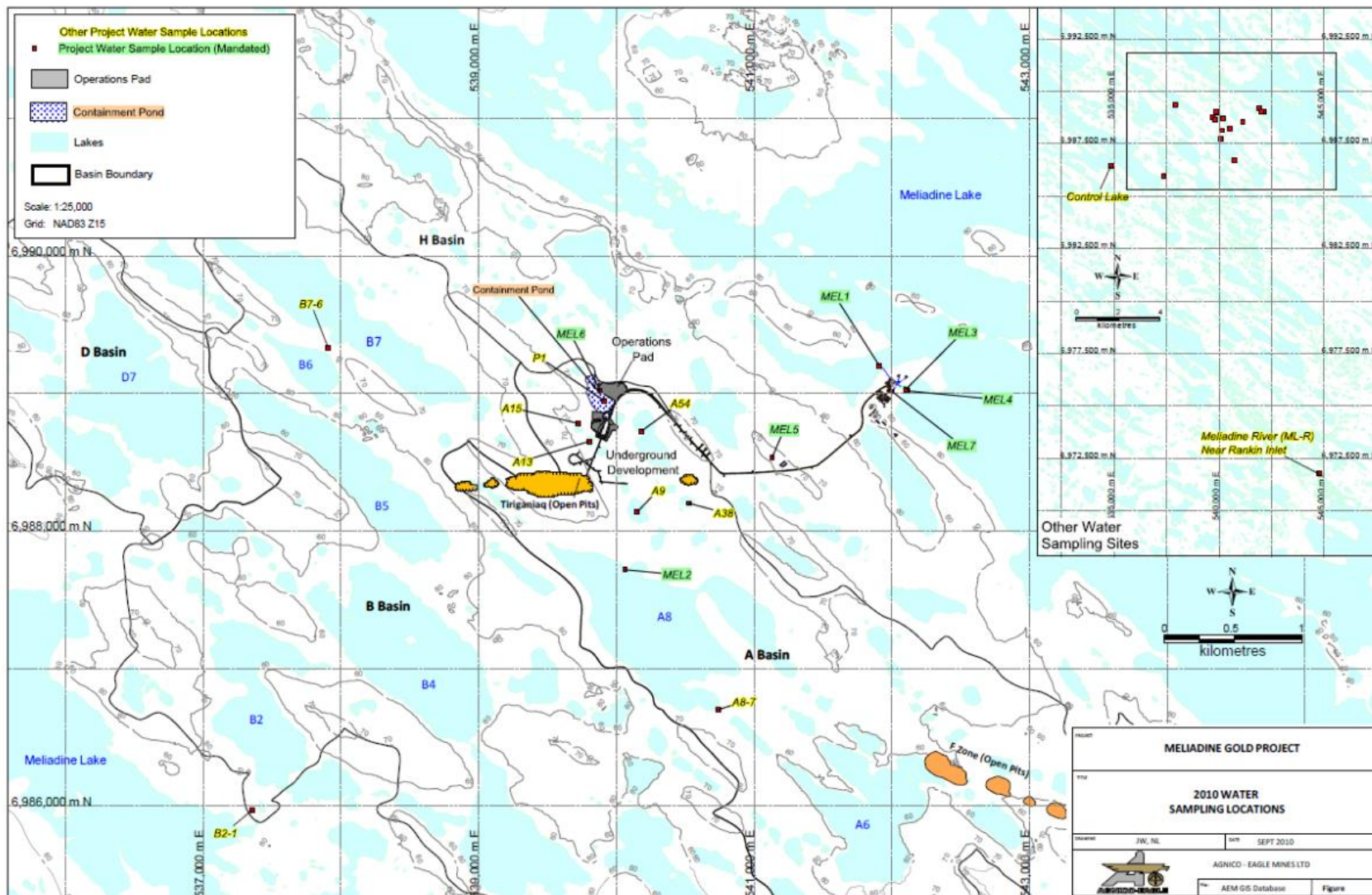


Appendix A

Figure 1, water sampling locations
Water quality data tables



Appendix A: Water Quality QAQC 2009 for the 2015 year

Pound A13

Waterbody: A13								
Year:		CCME	2015					
Date Sampled			28/06/2015	28/06/2015	19/07/2015	19/07/2015	25/08/2015	22/09/2015
GPS Coordinates			539828-6988676	539828-6988676	539828-6988676	539828-6988676	539828-6988677	539828-6988678
LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB	ALS LAB	ALS LAB
Field Measurements								
Water Temperature	oC		14.3	dup	14.5	dup	13.1	3.3
pH	pH units		8.28	dup	8.64	dup	8.76	8.56
Conductivity	(µS/cm)		717	dup	1575	dup	1246	1444
Laboratory-Measured								
Ion balance	%		107	98.2	95.8	97.5	102	100
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	<2.0	<2.0	
Ammonia as N	mg/L	2.33	0.17	0.171	0.189	0.199	0.222	0.59
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0092	0.0109	0.0078	0.007	0.0091	<0.050
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Total Kjeldahl Nitrogen	mg/L		0.75	0.81	1.32	1.37	1	
Total Suspended Solids	mg/L		<5.0	<5.0	<5.0	8	<5.0	5
Alkalinity, Total (as CaCO3)	mg/L		32.4	31.7	43	42	50.1	53.8
Bicarbonate (HCO3)	mg/L		39.5	38.7	52.5	51.2	61.1	65.6
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		96.9	87	170	169	162	
Magnesium (Mg)-Dissolved	mg/L		10.3	10.2	20.2	19.6	16.8	
Potassium (K)-Dissolved	mg/L		4.72	4.69	8.48	8.1	7.76	
Sodium (Na)-Dissolved	mg/L		22.5	22.1	38	36.5	43.1	
Chloride	mg/L		162	163	349	337	308	368
Conductivity	umhos/cm		688	682	1220	1250	1200	1330
Fluoride	mg/L	0.12	0.037	0.033	<0.10	<0.040	<0.040	
Hardness (as CaCO3)	mg/L		263	253	536	543	463	566
Nitrate-N	mg/L	13	1.01	1.01	1.47	1.42	1.27	0.934
Nitrate and Nitrite as N	mg/L		1.03	1.03	1.53	1.47	1.32	0.96
Nitrite-N	mg/L	0.197	0.021	0.019	0.054	0.052	0.046	0.027
Sulfate	mg/L		52.1	52.1	83.5	82	74.7	73.1
TDS (Calculated)	mg/L		447	443	790	810	777	734
Aluminum (Al)-Total	mg/L	0.1	0.0102	0.0087	0.0129	0.0129	0.0069	0.0661
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00191	0.00183	0.00398	0.00407	0.00252	0.00348
Barium (Ba)-Total	mg/L		0.0713	0.0695	0.138	0.136	0.115	0.126
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	0.015	0.014	0.025	0.025	0.021	0.011
Cadmium (Cd)-Total	mg/L	Equation	<0.000010	<0.000010	0.000014	0.000012	<0.000010	0.000018
Calcium (Ca)-Total	mg/L		88.3	84.4	181	184	159	195
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.00010	<0.00010	0.00013	0.00011	<0.00010	0.00027
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	0.0002	0.00023	<0.00020	0.00044
Copper (Cu)-Total	mg/L	Equation	0.00173	0.00174	0.00313	0.00314	0.002	0.00203
Iron (Fe)-Total	mg/L	0.3	0.095	0.098	0.451	0.45	0.082	0.764
Lead (Pb)-Total	mg/L	Equation	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.00021
Lithium (Li)-Total	mg/L		0.0194	0.0187	0.0495	0.0495	0.037	0.0469
Magnesium (Mg)-Total	mg/L		10.4	10.4	20.7	20.6	15.9	19.1
Manganese (Mn)-Total	mg/L		0.00674	0.00636	0.0141	0.0139	0.00584	0.0524
Molybdenum (Mo)-Total	mg/L	0.073	0.00039	0.00037	0.00054	0.00072	0.00045	0.00044
Nickel (Ni)-Total	mg/L	Equation	0.0028	0.00282	0.00552	0.00529	0.00338	0.0051
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		4.74	4.67	8.52	8.47	7.47	7.6
Rubidium (Rb)-Total	mg/L		0.00321	0.00328	0.0057	0.00554	0.00574	0.00586
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Silicon (Si)-Total	mg/L		0.21	0.19	0.34	0.35	0.12	1.26
Silver (Ag)-Total	mg/L	0.0001	0.000015	0.000014	0.000022	0.000022	0.000014	0.000032
Sodium (Na)-Total	mg/L		22.9	22.4	39.2	39.1	39.5	35.1
Strontium (Sr)-Total	mg/L		0.711	0.68	1.41	1.39	1.52	1.58
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00203
Tungsten (W)-Total	mg/L		0.00014	0.00014	0.00013	0.00016	0.00019	0.00021
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	0.00019	0.0002	0.00013	0.00025
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031
Zinc (Zn)-Total	mg/L	0.03	0.0018	0.0028	0.0017	0.0017	<0.0010	0.0027
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Turbidity	NTU		0.71	0.8	1.84	1.78	0.65	4.3
pH	pH units	6.5-9.0	7.61	7.58	7.51	7.51	7.77	7.71
Ortho-Phosphate (PO4-P)	mg/L							
Sodium Adsorption Ratio			0.61	0.61	0.74	0.73	0.86	

Pound A15:

Waterbody: A15	Units	CCME	2015			
Year			2015			
Date Sampled			28/06/2015	19/07/2015	25/08/2015	22/09/2015
GPS Coordinates			539731.8-6988798	539731.8-6988798	539731.8-6988798	539731.8-6988798
LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB
Field Measurements						
Water Temperature	oC		16.3	14.4	13.6	4.1
pH	pH units		8.05	8.74	8.37	8.29
Conductivity	(µS/cm)		1002	1096	1448	1815
Laboratory-Measured						
Ion balance	%		97.1	100	108	91.7
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	
Ammonia as N	mg/L	2.33	0.013	<0.010	0.332	2.02
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0093	0.0135	0.0089	<0.050
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	
Total Kjeldahl Nitrogen	mg/L		0.65	1	1.33	
Total Suspended Solids	mg/L		<5.0	<5.0	10	<5.0
Alkalinity, Total (as CaCO3)	mg/L		28	46	52.5	44
Bicarbonate (HCO3)	mg/L		34.2	56.1	64.1	53.7
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		121	114	199	
Magnesium (Mg)-Dissolved	mg/L		14.6	14.3	19.9	
Potassium (K)-Dissolved	mg/L		5.9	5.95	9.15	
Sodium (Na)-Dissolved	mg/L		32.6	27.8	46.2	
Chloride	mg/L		235	219	353	532
Conductivity	umhos/cm		962	860	1390	1730
Fluoride	mg/L	0.12	<0.040	<0.040	<0.10	
Hardness (as CaCO3)	mg/L		419	357	576	719
Nitrate-N	mg/L	13	<0.040	0.043	1.37	3.42
Nitrate and Nitrite as N	mg/L		<0.070	<0.070	1.44	3.42
Nitrite-N	mg/L	0.197	<0.020	<0.020	0.077	<0.050
Sulfate	mg/L		90.6	53.2	83	
TDS (Calculated)	mg/L		625	559	904	988
Aluminum (Al)-Total	mg/L	0.1	0.0133	0.0118	0.0136	0.0546
Antimony (Sb)-Total	mg/L		0.00027	<0.00020	0.00034	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00305	0.00301	0.00364	0.00257
Barium (Ba)-Total	mg/L		0.0982	0.101	0.133	0.158
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	0.016	0.016	0.023	0.019
Cadmium (Cd)-Total	mg/L	Equation	0.000017	<0.000010	0.000016	0.000044
Calcium (Ca)-Total	mg/L		141	119	189	249
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		0.00014	<0.00010	<0.00010	0.00026
Cobalt (Co)-Total	mg/L		0.00028	<0.00020	0.00022	0.00075
Copper (Cu)-Total	mg/L	Equation	0.00225	0.00233	0.00288	0.00202
Iron (Fe)-Total	mg/L	0.3	0.567	0.17	0.481	0.707
Lead (Pb)-Total	mg/L	Equation	<0.000090	<0.000090	<0.000090	0.000149
Lithium (Li)-Total	mg/L		0.0329	0.0318	0.0491	0.0615
Magnesium (Mg)-Total	mg/L		16.3	14.3	19.3	23.7
Manganese (Mn)-Total	mg/L		0.0259	0.016	0.0159	0.107
Molybdenum (Mo)-Total	mg/L	0.073	0.0005	0.00041	0.00058	0.0004
Nickel (Ni)-Total	mg/L	Equation	0.00498	0.00364	0.00532	0.00672
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		6.43	5.98	8.78	10.3
Rubidium (Rb)-Total	mg/L		0.00363	0.0042	0.00645	0.0073
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	0.0001	<0.00010
Silicon (Si)-Total	mg/L		1.12	0.14	0.32	1.95
Silver (Ag)-Total	mg/L	0.0001	0.000023	0.000016	0.000026	0.00003
Sodium (Na)-Total	mg/L		38.2	29.6	43.3	40.4
Strontium (Sr)-Total	mg/L		0.957	0.905	1.6	2.36
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	<0.00050	<0.00050	0.00133
Tungsten (W)-Total	mg/L		0.00014	0.00021	0.00012	0.00013
Uranium (U)-Total	mg/L	0.015	<0.00010	0.0001	0.00023	0.00027
Vanadium (V)-Total	mg/L		<0.00020		<0.00020	0.00022
Zinc (Zn)-Total	mg/L	0.03	0.0027	0.0012	0.0013	0.0036
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040
Turbidity	NTU		1.44	1.66	1.44	4.3
pH	pH units	6.5-9.0	7.54	7.5	7.72	7.6
Ortho-Phosphate (PO4-P)	mg/L					
Sodium Adsorption Ratio			0.81	0.68	0.79	
Total Oil and Grease	mg/L					

Pound A9:

Waterbody: A9	Units	CCME				
Year			2015			
Date Sampled			28/06/2015	19/07/2015	25/08/2015	22/09/2015
GPS Coordinates			540194-6988142	540194-6988142	540194-6988142	540194-6988142
LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB
Field Measurments						
Water Temperature	oC		15.6	14	13.8	3.7
pH	pH units		8.52	8.72	8.51	8.58
Conductivity	(µS/cm)		629	950	910	997
Laboratory-Measured						
Ion balance	%		101	98.8	104	95.8
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2	
Ammonia as N	mg/L	2.33	0.016	<0.010	0.019	0.032
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0095	0.0108	0.0071	
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	
Total Kjeldahl Nitrogen	mg/L		0.63	0.98	0.58	
Total Suspended Solids	mg/L		5	<5.0	<5.0	<5.0
Alkalinity, Total (as CaCO3)	mg/L		37.7	48.8	53.8	62.4
Bicarbonate (HCO3)	mg/L		46	59.5	65.6	76.1
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		79.2	100	121	
Magnesium (Mg)-Dissolved	mg/L		9.07	12.6	13.7	
Potassium (K)-Dissolved	mg/L		3.87	4.64	5.09	
Sodium (Na)-Dissolved	mg/L		14.9	19.6	28.2	
Chloride	mg/L		136	181	215	252
Conductivity	umhos/cm		584	734	871	947
Fluoride	mg/L	0.12	0.03	0.036	0.042	
Hardness (as CaCO3)	mg/L		238	325	351	385
Nitrate-N	mg/L	13	<0.020	<0.020	<0.040	0.477
Nitrate and Nitrite as N	mg/L		<0.070	<0.070	<0.070	0.477
Nitrite-N	mg/L	0.197	<0.010	<0.010	<0.020	<0.020
Sulfate	mg/L		38.9	48.1	52.4	47.3
TDS (Calculated)	mg/L		380	477	566	515
Aluminum (Al)-Total	mg/L	0.1	0.0141	0.0094	0.0083	0.0107
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00218	0.00411	0.00308	0.00224
Barium (Ba)-Total	mg/L		0.0625	0.0923	0.0836	0.0925
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Equation	<0.000010	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L		80.2	107	119	130
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		0.00012	0.00033	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020	0.00026
Copper (Cu)-Total	mg/L	Equation	0.00186	0.00275	0.00224	0.0014
Iron (Fe)-Total	mg/L	0.3	0.157	0.27	0.083	0.225
Lead (Pb)-Total	mg/L	Equation	<0.000090	<0.000090	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		0.0206	0.0294	0.0273	0.0251
Magnesium (Mg)-Total	mg/L		9.09	14	13.3	14.7
Manganese (Mn)-Total	mg/L		0.00752	0.0123	0.00615	0.0172
Molybdenum (Mo)-Total	mg/L	0.073	0.00027	0.00053	0.00035	0.00029
Nickel (Ni)-Total	mg/L	Equation	0.00327	0.00481	0.00403	0.00406
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		3.8	5.25	5.01	4.85
Rubidium (Rb)-Total	mg/L		0.00301	0.00422	0.00407	0.00431
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	<0.00010
Silicon (Si)-Total	mg/L		0.11	0.31	0.13	1.74
Silver (Ag)-Total	mg/L	0.0001	<0.000010	<0.000010	<0.000010	0.00001
Sodium (Na)-Total	mg/L		15.9	22.5	25.7	26.7
Strontium (Sr)-Total	mg/L		0.623	0.791	0.896	0.985
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	<0.00050	<0.00050	<0.00050
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	0.00012	0.0001	0.00017
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0083	0.0017	<0.0010	0.0015
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040
Sodium Adsorption Ratio			0.45	0.54	0.65	
Ortho-Phosphate (PO4-P)	mg/L					
Turbidity	NTU		0.66	1.66	0.6	1.47
pH	pH units	6.5-9.0	7.41	7.54	7.82	7.74

Lake A54:

Waterbody: A54								
Year	Units	CCME	2015					
Date Sampled			14/06/2015	21/06/2015	28/06/2015	19/07/2015	25/08/2015	22/09/2015
GPS Coordinates			540135-6988794	540135-6988794	540135-6988794	540135-6988795	540135-6988795	540135-6988795
LAB			ALS	ALS	ALS	ALS	ALS	ALS
Field Measurements								
Water Temperature	oC		8.4	11.3	13.5	13.6	12.3	3.4
pH	pH units		7.3	6.75	8.01	8.29	8.26	8.28
Conductivity	(µS/cm)		0.75 mS	1.74 mS	2130	3110	3600	3600
Laboratory-Measured								
Ion balance	%		105	98.3	111	98.4	103	92.8
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	<2.0	<2.0	
Ammonia as N	mg/L	2.33	2.57	7.6	11.3	8.7	8.2	5.1
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0069	0.1	0.0062	0.0041	0.0057	<0.050
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	0.0019	
Total Kjeldahl Nitrogen	mg/L		3.32	8.6	12.2	8.7	9	
Total Suspended Solids	mg/L		<5.0	<5.0	<5.0	<5.0	<5.0	5
Alkalinity, Total (as CaCO3)	mg/L		33.5	47.6	47.7	48	38.4	39.4
Bicarbonate (HCO3)	mg/L		40.9	58.1	58.2	58.6	46.8	48.1
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		103	224	326	345	515	
Magnesium (Mg)-Dissolved	mg/L		8.58	16.3	20.4	26.9	34.2	
Potassium (K)-Dissolved	mg/L		5.96	14.1	18.4	21.6	28.5	
Sodium (Na)-Dissolved	mg/L		18.4	37.5	47.1	62.5	80.9	
Chloride	mg/L		185	448	571	718	995	1120
Conductivity	umhos/cm		700	1650	2010	2550	3460	3360
Fluoride	mg/L	0.12	0.026	<0.10	<0.20	<0.20	<0.40	
Hardness (as CaCO3)	mg/L		268	597	835	981	1360	1440
Nitrate-N	mg/L	13	3.79	11.7	15.2	15.9	23.6	22.5
Nitrate and Nitrite as N	mg/L		3.86	12	15.5	16.4	24.5	23.2
Nitrite-N	mg/L	0.197	0.072	0.233	0.28	0.47	0.97	0.7
Sulfate	mg/L		24.5	42.1	44.7	63.3	78.8	83.9
TDS (Calculated)	mg/L		455	1080	1310	1660	2250	1990
Aluminum (Al)-Total	mg/L	0.1	0.0168	0.0104	0.0086	0.0021	0.0021	0.0069
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0004
Arsenic (As)-Total	mg/L	0.005	0.0016	0.00247	0.00263	0.0022	0.00181	0.00195
Barium (Ba)-Total	mg/L		0.0602	0.127	0.151	0.186	0.254	0.254
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	0.015	0.042	0.052	0.046	0.047	0.042
Cadmium (Cd)-Total	mg/L	Equation	0.000019	0.000017	0.000016	0.000012	0.000014	0.000013
Calcium (Ca)-Total	mg/L		94.8	213	302	348	491	519
Cesium (Cs)-Total	mg/L		<0.00010	0.00036	0.00048	0.00047	0.00044	0.00037
Chromium (Cr)-Total	mg/L		<0.00010	0.00016	0.0001	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L		0.00035	0.00025	0.00024	<0.00020	0.00022	0.00023
Copper (Cu)-Total	mg/L	Equation	0.00091	0.00122	0.00093	0.00076	0.00062	0.00061
Iron (Fe)-Total	mg/L	0.3	0.06	0.114	0.125	0.05	0.015	0.052
Lead (Pb)-Total	mg/L	Equation	<0.000090	0.000112	0.000096	<0.000090	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		0.0341	0.0844	0.127	0.123	0.159	0.174
Magnesium (Mg)-Total	mg/L		7.7	15.7	19.7	26.9	31.9	35.1
Manganese (Mn)-Total	mg/L		0.0967	0.0207	0.017	0.0049	0.00567	0.0111
Molybdenum (Mo)-Total	mg/L	0.073	0.0003	0.00048	0.00051	0.00054	0.00042	0.00042
Nickel (Ni)-Total	mg/L	Equation	0.00301	0.00401	0.00443	0.00312	0.0033	0.00473
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		5.3	13.2	18.2	19.5	27.1	27.6
Rubidium (Rb)-Total	mg/L		0.00489	0.0121	0.017	0.0176	0.0213	0.0203
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00013
Silicon (Si)-Total	mg/L		0.41	0.48	0.54	1.5	3.29	3.99
Silver (Ag)-Total	mg/L	0.0001	<0.000010	0.00001	<0.000010	0.000011	0.000011	0.000023
Sodium (Na)-Total	mg/L		17.2	39.7	48.9	64.4	78.1	77
Strontium (Sr)-Total	mg/L		1.13	2.79	3.97	4.45	5.2	6.48
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	0.00022	0.00033	0.00033	0.00053
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	0.00029	0.00055	0.00074	0.00071	0.00057	0.00068
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0027	0.0045	0.0019	0.0015	0.0014	0.0015
Zirconium (Zr)-Total	mg/L		0.00099	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Turbidity	NTU		1.03	0.53	0.55	0.66	0.47	0.66
Ortho-Phosphate (PO4-P)	mg/L							
pH	pH units	6.5-9.0	7.42	7.75	7.58	7.69	7.7	7.62
Sodium Adsorption Ratio			0.46	0.71	0.74	0.9	0.92	
Total Oil and Grease	mg/L							

Pound A38:

Waterbody: A38	Units	CCME	2015			
Year						
Date Sampled			28/06/2015	19/07/2015	25/08/2015	22/09/2015
GPS Coordinates			540500-6988254	540500-6988254	540500-6988254	540500-6988254
LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB
Field Measurments						
Water Temperature	oC		14.2	14.2	14	3.9
pH	pH units		8.18	8.2	8.1	8.08
Conductivity	(µS/cm)		1740	2630	2600	2680
Laboratory-Measured						
Ion balance	%		102	98.7	106	84.2
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	
Ammonia as N	mg/L	2.33	7.4	4.73	2.55	3.31
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0049	0.0051	0.0069	<0.050
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	
Total Kjeldahl Nitrogen	mg/L		7.22	6.12	3.37	
Total Suspended Solids	mg/L		<5.0	<5.0	11	5
Alkalinity, Total (as CaCO3)	mg/L		51.4	52.4	48.1	48.1
Bicarbonate (HCO3)	mg/L		62.7	63.9	58.7	58.7
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		238	296	370	
Magnesium (Mg)-Dissolved	mg/L		17.6	24.4	30.5	
Potassium (K)-Dissolved	mg/L		14.3	18.2	21.1	
Sodium (Na)-Dissolved	mg/L		41	53.3	68.9	
Chloride	mg/L		461	612	714	897
Conductivity	umhos/cm		1690	2130	2530	2520
Fluoride	mg/L	0.12	<0.10	<0.20	<0.20	
Hardness (as CaCO3)	mg/L		690	788	1010	1060
Nitrate-N	mg/L	13	10.1	9.08	10.3	15.1
Nitrate and Nitrite as N	mg/L		10.3	9.28	10.5	15.6
Nitrite-N	mg/L	0.197	0.219	0.2	0.21	0.42
Sulfate	mg/L		47.9	57.1	68.3	79.4
TDS (Calculated)	mg/L		1100	1380	1640	1560
Aluminum (Al)-Total	mg/L	0.1	0.0233	0.0059	0.0043	0.0055
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00183	0.00225	0.00232	0.00171
Barium (Ba)-Total	mg/L		0.149	0.192	0.223	0.188
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	0.033	0.033	0.045	0.019
Cadmium (Cd)-Total	mg/L	Equation	0.00001	<0.000010	<0.000010	0.00001
Calcium (Ca)-Total	mg/L		245	273	354	378
Cesium (Cs)-Total	mg/L		0.00031	0.00034	0.00025	0.00022
Chromium (Cr)-Total	mg/L		0.00013	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L		<0.00020	0.00027	0.00022	0.00023
Copper (Cu)-Total	mg/L	Equation	0.00098	0.00116	0.00114	0.00071
Iron (Fe)-Total	mg/L	0.3	0.155	0.103	0.059	0.064
Lead (Pb)-Total	mg/L	Equation	0.000641	0.00012	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		0.095	0.127	0.113	0.128
Magnesium (Mg)-Total	mg/L		19.1	25.8	29.8	28.2
Manganese (Mn)-Total	mg/L		0.0051	0.0145	0.00973	0.0167
Molybdenum (Mo)-Total	mg/L	0.073	0.00038	0.0004	0.00041	0.00036
Nickel (Ni)-Total	mg/L	Equation	0.00279	0.00322	0.00293	0.00345
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		14.5	17.7	19.7	19.1
Rubidium (Rb)-Total	mg/L		0.0126	0.015	0.0158	0.0145
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	<0.00010
Silicon (Si)-Total	mg/L		0.34	1.4	2.87	2.88
Silver (Ag)-Total	mg/L	0.0001	0.00001	<0.000010	<0.000010	0.000012
Sodium (Na)-Total	mg/L		44.3	59	63.7	58.3
Strontium (Sr)-Total	mg/L		2.99	3.4	4.18	4.5
Tellurium (Te)-Total	mg/L		<0.00020	0.00025	0.00028	0.00038
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		0.00058	<0.00050	<0.00050	<0.00050
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	0.0005	0.00043	0.00034	0.00051
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0068	0.0071	0.0011	0.002
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040
Sodium Adsorption Ratio			0.73	0.91	0.94	
Ortho-Phosphate (PO4-P)	mg/L					
Turbidity	NTU		0.46	0.9	0.95	0.74
pH	pH units	6.5-9.0	7.77	7.71	7.67	7.6

Stream A8-7:

Waterbody: A8-7	Units	CCME	2015			
Year			2015			
Date Sampled			29/06/2015	19/07/2015	24/08/2015	21/09/2015
GPS Coordinates			0540181- 6987143	540748 -6986690	540748 -6986690	540748 -6986691
LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB
Field Measurements						
Water Temperature	oC		12.3	13.9	10.8	5.6
pH	pH units		8.18	8.33	8.27	7.1
Conductivity	(µS/cm)		176.8	317	265	0.23
Laboratory-Measured						
Ion balance	%		95.2	103	103	98.5
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	
Ammonia as N	mg/L	2.33	<0.010	<0.010	<0.010	<0.010
Mercury (Hg)-Total	mg/L	0.000026	<0.00002	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0075	0.0036	0.0025	
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	
Total Kjeldahl Nitrogen	mg/L		0.28	0.27	0.35	
Total Suspended Solids	mg/L		<5.0	<5.0	<5.0	<5.0
Alkalinity, Total (as CaCO3)	mg/L		26.7	36.2	38.5	38.8
Bicarbonate (HCO3)	mg/L		32.6	44.2	47	47.3
Carbonate (CO3)	mg/L		<0.6	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		20.1	29.6	34.5	
Magnesium (Mg)-Dissolved	mg/L		2.57	3.49	4.33	
Potassium (K)-Dissolved	mg/L		1.23	1.58	1.9	
Sodium (Na)-Dissolved	mg/L		4.52	5.53	7.3	
Chloride	mg/L		30.7	40.6	50.9	52.2
Conductivity	umhos/cm		165	214	269	262
Fluoride	mg/L	0.12	<0.02	0.021	0.025	
Hardness (as CaCO3)	mg/L		63.6	86.6	105	99.5
Nitrate-N	mg/L	13	0.034	<0.020	<0.020	<0.020
Nitrate and Nitrite as N	mg/L		<0.07	<0.070	<0.070	<0.070
Nitrite-N	mg/L	0.197	<0.01	<0.010	<0.010	<0.010
Sulfate	mg/L		5.38	5.7	7.5	7.14
TDS (Calculated)	mg/L		107	139	175	129
Aluminum (Al)-Total	mg/L	0.1	0.002	0.0029	0.0044	0.0067
Antimony (Sb)-Total	mg/L		<0.0002	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00097	0.0018	0.00118	0.00166
Barium (Ba)-Total	mg/L		0.0206	0.0247	0.0297	0.0258
Beryllium (Be)-Total	mg/L		<0.0002	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.0002	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.01	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Equation	<0.00001	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L		21	28.9	34.6	33.1
Cesium (Cs)-Total	mg/L		<0.0001	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.0001	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L		<0.0002	<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Equation	0.00054	0.00065	0.00093	0.00069
Iron (Fe)-Total	mg/L	0.3	0.051	0.102	0.024	0.071
Lead (Pb)-Total	mg/L	Equation	<0.00009	<0.000090	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		0.0056	0.0077	0.0087	0.0088
Magnesium (Mg)-Total	mg/L		2.71	3.49	4.45	4.1
Manganese (Mn)-Total	mg/L		0.00752	0.0148	0.00404	0.00914
Molybdenum (Mo)-Total	mg/L	0.073	<0.00020	<0.00020	<0.00020	0.00021
Nickel (Ni)-Total	mg/L	Equation	0.00082	0.00073	0.00078	0.00095
Phosphorus (P)-Total	mg/L		<0.05	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		1.26	1.52	1.96	1.89
Rubidium (Rb)-Total	mg/L		0.00123	0.00153	0.00214	0.00182
Selenium (Se)-Total	mg/L	0.001	<0.0001	<0.00010	<0.00010	<0.00010
Silicon (Si)-Total	mg/L		0.27	0.21	0.19	0.17
Silver (Ag)-Total	mg/L	0.0001	<0.00001	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	mg/L		4.57	5.77	7.3	7.41
Strontium (Sr)-Total	mg/L		0.138	0.189	0.22	0.247
Tellurium (Te)-Total	mg/L		<0.0002	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.0001	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.0001	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.0002	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.0005	<0.00050	<0.00050	<0.00050
Tungsten (W)-Total	mg/L		<0.0001	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.0001	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.0002	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	<0.001	<0.0010	<0.0010	<0.0010
Zirconium (Zr)-Total	mg/L		<0.0004	<0.00040	<0.00040	<0.00040
Ortho-Phosphate (PO4-P)	mg/L					
Sodium Adsorption Ratio			0.25	0.27	0.31	
Turbidity	NTU		0.28	0.59	0.32	1.26
pH	pH units	6.5-9.0	7.33	7.52	7.66	7.7

Meliadine River:

Waterbody: Meliadine River	Units	CCME Limits	2015			
Year						
Date Sampled			28/06/2015	19/07/2015	23/08/2015	21/09/2015
GPS Coordinates			544778.3-6971712	544778.3-6971712	544778.3-6971712	544778.3-6971712
LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB
Field Measurements			Field Measurements			
Water Temperature	oC		8.2	10.5	10.6	6.3
pH	pH units		8.73	8.3	8.46	7.8
Conductivity	(mS/cm)		0.08	0.15	0.10	0.16
Laboratory-Measured						
Ion balance	%		Low EC	97.4	Low EC	104
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	
Ammonia as N	mg/L	2.33	<0.010	<0.010	<0.010	<0.010
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0082	0.0037	0.0038	
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	0.002	
Total Kjeldahl Nitrogen	mg/L		0.2	0.25	<0.20	
Total Suspended Solids	mg/L		5	<5.0	<5.0	<5.0
Alkalinity, Total (as CaCO3)	mg/L		17.4	22.3	22.9	30.1
Bicarbonate (HCO3)	mg/L		21.2	27.2	27.9	36.7
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		7.37	9.17	8.82	
Magnesium (Mg)-Dissolved	mg/L		1.08	1.52	1.48	
Potassium (K)-Dissolved	mg/L		0.974	1.08	1.14	
Sodium (Na)-Dissolved	mg/L		4.78	6.66	6.42	
Chloride	mg/L		8.25	13.5	12.4	27.8
Conductivity	umhos/cm		73.3	102	94.8	169
Fluoride	mg/L	0.12	0.023	0.025	0.028	
Hardness (as CaCO3)	mg/L		24.3	30.5	27.9	50.6
Nitrate-N	mg/L	13	<0.020	<0.020	<0.020	<0.020
Nitrate and Nitrite as N	mg/L		<0.070	<0.070	<0.070	<0.070
Nitrite-N	mg/L	0.197	<0.010	<0.010	<0.010	<0.010
Sulfate	mg/L		3.82	4.61	4.45	10.3
TDS (Calculated)	mg/L		48	66	62	90.3
Aluminum (Al)-Total	mg/L	0.1	0.0762	0.0326	0.0042	0.0248
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00029	0.00027	0.00027	0.00032
Barium (Ba)-Total	mg/L		0.0105	0.0115	0.00996	0.0139
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Equation	<0.000010	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L		7.73	9.42	8.7	15.3
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		0.00025	<0.00010	<0.00010	0.00011
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Equation	0.00097	0.00096	0.00087	0.00131
Iron (Fe)-Total	mg/L	0.3	0.122	0.071	0.025	0.089
Lead (Pb)-Total	mg/L	Equation	<0.000090	<0.000090	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		<0.0020	<0.0020	<0.0020	<0.0020
Magnesium (Mg)-Total	mg/L		1.22	1.69	1.49	3.02
Manganese (Mn)-Total	mg/L		0.00823	0.00653	0.00295	0.00414
Molybdenum (Mo)-Total	mg/L	0.073	<0.00020	<0.00020	<0.00020	0.00025
Nickel (Ni)-Total	mg/L	Equation	0.00073	0.0006	0.00041	0.001
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		1.02	1.18	1.11	1.87
Rubidium (Rb)-Total	mg/L		0.0015	0.00167	0.0015	0.00208
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	<0.00010
Silicon (Si)-Total	mg/L		0.34	0.26	0.21	0.57
Silver (Ag)-Total	mg/L	0.0001	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	mg/L		4.63	7.33	6.68	13.9
Strontium (Sr)-Total	mg/L		0.0329	0.0453	0.0392	0.0747
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		0.0043	0.00177	<0.00050	0.00128
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	0.0001
Vanadium (V)-Total	mg/L		0.00028	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	<0.0010	<0.0010	<0.0010	0.0012
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040
Sodium Adsorption Ratio	%		0.41	0.58	0.55	
Ortho-Phosphate (PO4-P)	mg/L					<0.0010
Turbidity	NTU		1.75	0.66	0.38	0.99
pH	pH units	6.5-9.0	7.19	7.38	7.57	7.56

P1:

Waterbody: P1								
Year	Units	CCME	2015					
Date Sampled			14/06/2015	21/06/2015	28/06/2015	19/07/2015	25/08/2015	22/09/2015
GPS Coordinates			539901-6988967	539901-6988968	539901-6988969	539901-6988970	539901-6988970	539901-6988970
Source			ALS	ALS	ALS	ALS	ALS	ALS
Field Measurements								
Water Temperature	oC		1	7.8	11.3	13.7	12	3.3
pH	pH units		7.4	7.14	7.5	8.02	7.84	7.89
Conductivity	(µS/cm)		1770	2220	2800	9100	14220	13260
Laboratory-Measured								
Ion balance	%		103	100	98.8	97.1		88.4
Biochemical Oxygen Demand	mg/L		<2.0	2.4	<2.0	<2.0	<2.0	
Ammonia as N	mg/L	0.00233	9.7	17.7	20.3	57.4	102	76.7
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0101	0.023	<0.050	0.0151	0.023	<0.050
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Total Kjeldahl Nitrogen	mg/L		10.8	19.1	21.2	58.6	93	
Total Suspended Solids	mg/L		<5.0	37	6	12	23	14
Alkalinity, Total (as CaCO3)	mg/L		14.9	27.9	39	86.3	73.4	77.1
Alkalinity Bicarbonate (HCO3)	mg/L		18.2	34	47.6	105	89.5	94.1
Alkalinity Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Alkalinity Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		170	348	399	1160	2520	
Magnesium (Mg)-Dissolved	mg/L		6.17	9.97	16.2	50.6	83.7	
Potassium (K)-Dissolved	mg/L		9.91	17.8	23.7	63	104	
Sodium (Na)-Dissolved	mg/L		18	32.4	48.7	142	255	
Chloride	mg/L		322	668	803	2420	4590	5030
Conductivity	umhos/cm		1110	2320	2730	7420	>12900	12500
Fluoride	mg/L	0.12	<0.040	<0.20	<0.40	<1.0	<1.0	
Hardness (as CaCO3)	mg/L		419	902	1170	3250	6630	5900
Nitrate-N	mg/L	13	12.4	23.7	28.4	74	125	123
Nitrate and Nitrite as N	mg/L		12.6	24.1	28.9	74.5	126	123
Nitrite-N	mg/L	0.197	0.161	0.4	0.44	0.53	0.53	0.5
Sulfate	mg/L		6.34	7.1	11.9	42	61	69
TDS (Calculated)	mg/L		721	1510	1770	4820	8900	8330
Aluminum (Al)-Total	mg/L	0.1	0.149	1.58	0.265	0.0259	0.0356	0.14
Antimony (Sb)-Total	mg/L		<0.00020	0.00021	0.00034	0.00025	0.00035	0.00035
Arsenic (As)-Total	mg/L	0.005	0.00185	0.0046	0.00321	0.004	0.00463	0.00459
Barium (Ba)-Total	mg/L		0.0369	0.0771	0.124	0.511	0.823	0.782
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	0.039	0.064	0.072	0.11	0.156	0.096
Cadmium (Cd)-Total	mg/L	Equation	0.000049	0.000135	0.000128	0.000194	0.000563	0.000442
Calcium (Ca)-Total	mg/L		159	343	444	1220	2440	2220
Cesium (Cs)-Total	mg/L		0.0005	0.00083	0.00088	0.00188	0.00259	0.00135
Chromium (Cr)-Total	mg/L		0.00063	0.00619	0.00097	0.00013	0.00018	0.0006
Cobalt (Co)-Total	mg/L		0.00059	0.00229	0.00191	0.00169	0.00316	0.00396
Copper (Cu)-Total	mg/L	Equation	0.00126	0.00325	0.00186	0.00181	0.0019	0.00229
Iron (Fe)-Total	mg/L	0.3	0.25	2.73	0.512	0.214	0.45	0.411
Lead (Pb)-Total	mg/L	Equation	0.000341	0.00181	0.000602	0.000226	0.000279	0.000328
Lithium (Li)-Total	mg/L		0.0659	0.158	0.179	0.456	0.94	0.483
Magnesium (Mg)-Total	mg/L		5.71	11	15.7	51.3	81	86.8
Manganese (Mn)-Total	mg/L		0.187	0.518	0.786	0.392	1.1	1.25
Molybdenum (Mo)-Total	mg/L	0.073	0.0003	0.0004	0.00046	0.00082	0.00099	0.0012
Nickel (Ni)-Total	mg/L	Equation	0.00287	0.00775	0.00579	0.00727	0.0116	0.0117
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050	0.053	<0.050
Potassium (K)-Total	mg/L		8.99	17.7	21.7	59	103	102
Rubidium (Rb)-Total	mg/L		0.0112	0.0204	0.0247	0.0556	0.112	0.0806
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	0.00013	0.00017	0.00023
Silicon (Si)-Total	mg/L		0.46	2.05	1.11	0.35	2.17	2.58
Silver (Ag)-Total	mg/L	0.0001	0.000011	0.000033	0.000026	0.00002	0.000045	0.000049
Sodium (Na)-Total	mg/L		17.6	35.4	46.1	153	246	227
Strontium (Sr)-Total	mg/L		2.66	5.28	6.76	16.6	33.8	30
Tellurium (Te)-Total	mg/L		<0.00020	0.00037	0.00035	0.00164	0.00316	0.00372
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010	0.00017	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		0.00178	0.0112	0.00447	<0.00050	<0.00050	0.00265
Tungsten (W)-Total	mg/L		<0.00010	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	0.00012	0.0002	0.00043	0.00228	0.00316	0.00439
Vanadium (V)-Total	mg/L		0.00053	0.00535	0.00083	<0.00020	0.00031	0.00074
Zinc (Zn)-Total	mg/L	0.03	0.0096	0.0122	0.0082	0.0051	0.0104	0.0097
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Turbidity	NTU		4.5	14.1	3	1.74	3.4	4
Ortho-Phosphate (O-PO4)	mg/L							
Sodium Adsorption Ratio			0.37	0.51	0.59	1.16	1.36	
Total Oil and Grease	mg/L							
pH	pH units	6.5-9.0	6.99	7.4	7.36	7.63	7.43	7.45

Surface Portal Sump (SPS):

Waterbody: Surface Portal Sump (SPS)	Units	CCME	2015		
Year			28/06/2015	19/07/2015	22/09/2015
Date Sampled			539945-6988851	539945-6988851	539945-6988851
GPS Coordinates			ALS LAB	ALS LAB	ALS LAB
LAB					
Field Measurements					
Water Temperature	oC		5.3	14.1	4
pH	pH units		11.3	8.13	8.19
Conductivity	(µS/cm)		1502	7970	6850
Laboratory-Measured					
Ion balance	%		55.4	102	98.8
Biochemical Oxygen Demand	mg/L		4.5	<2.0	
Ammonia as N	mg/L	2.33	14.1	36.1	21.2
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	3.28	0.0164	0.16
Phosphorus (P)-Total Reactive	mg/L		0.032	<0.0010	
Total Kjeldahl Nitrogen	mg/L		12.5	38.7	
Total Suspended Solids	mg/L		3490	9	70
Alkalinity, Total (as CaCO3)	mg/L		186	68.1	90.1
Bicarbonate (HCO3)	mg/L		<1.2	83.1	110
Carbonate (CO3)	mg/L		93.7	<0.60	<0.60
Hydroxide (OH)	mg/L		10.3	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		198	846	
Magnesium (Mg)-Dissolved	mg/L		4.46	101	
Potassium (K)-Dissolved	mg/L		14.2	71.4	
Sodium (Na)-Dissolved	mg/L		34.4	274	
Chloride	mg/L		560	1820	1830
Conductivity	umhos/cm		1410	6710	6480
Fluoride	mg/L	0.12	0.26	<1.0	
Hardness (as CaCO3)	mg/L		2860	2510	2580
Nitrate-N	mg/L	13	35.6	87.7	96.3
Nitrate and Nitrite as N	mg/L		36.3	90.1	99.9
Nitrite-N	mg/L	0.197	0.691	2.4	3.59
Sulfate	mg/L		74.3	310	445
TDS (Calculated)	mg/L		913	4360	4110
Aluminum (Al)-Total	mg/L	0.1	19.1	0.178	3.2
Antimony (Sb)-Total	mg/L		0.0029	0.00114	0.00134
Arsenic (As)-Total	mg/L	0.005	0.929	0.0101	0.0178
Barium (Ba)-Total	mg/L		0.488	0.18	0.117
Beryllium (Be)-Total	mg/L		<0.0020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.0020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	0.11	0.223	0.358
Cadmium (Cd)-Total	mg/L	Equation	0.0015	0.000119	0.000204
Calcium (Ca)-Total	mg/L		849	848	816
Cesium (Cs)-Total	mg/L		0.0057	0.0008	0.00115
Chromium (Cr)-Total	mg/L		0.731	0.00139	0.0121
Cobalt (Co)-Total	mg/L		0.204	0.00715	0.0185
Copper (Cu)-Total	mg/L	Equation	0.377	0.00505	0.00845
Iron (Fe)-Total	mg/L	0.3	340	0.317	4.75
Lead (Pb)-Total	mg/L	Equation	0.203	0.000561	0.00298
Lithium (Li)-Total	mg/L		0.345	0.0908	0.114
Magnesium (Mg)-Total	mg/L		179	95.9	131
Manganese (Mn)-Total	mg/L		9.63	0.629	0.718
Molybdenum (Mo)-Total	mg/L	0.073	0.0081	0.00735	0.0079
Nickel (Ni)-Total	mg/L	Equation	0.572	0.0424	0.0966
Phosphorus (P)-Total	mg/L		5.63	0.056	0.16
Potassium (K)-Total	mg/L		22.3	63	64.5
Rubidium (Rb)-Total	mg/L		0.062	0.0493	0.0427
Selenium (Se)-Total	mg/L	0.001	<0.0010	0.00062	0.00095
Silicon (Si)-Total	mg/L		277	2.48	6.32
Silver (Ag)-Total	mg/L	0.0001	0.00097	0.000025	0.000044
Sodium (Na)-Total	mg/L		44	276	329
Strontium (Sr)-Total	mg/L		3.08	10.3	8.87
Tellurium (Te)-Total	mg/L		<0.0020	0.00095	0.00083
Thallium (Tl)-Total	mg/L	0.0008	<0.0010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		0.0283	<0.00010	0.00049
Tin (Sn)-Total	mg/L		0.0031	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		2.43	0.00204	0.0403
Tungsten (W)-Total	mg/L		0.0116	0.00039	0.00052
Uranium (U)-Total	mg/L	0.015	0.0049	0.00865	0.0139
Vanadium (V)-Total	mg/L		0.531	0.00067	0.00954
Zinc (Zn)-Total	mg/L	0.03	1.15	0.007	0.0312
Zirconium (Zr)-Total	mg/L		0.0517	<0.00040	0.00165
Turbidity	NTU		800	5	60
Ortho-Phosphate (PO4-P)	mg/L				
pH	pH units	6.5-9.0	11.07	7.59	7.58
Sodium Adsorption Ratio			0.36	2.4	

Meliadine Lake MEL-1:

Waterbody : Meliadine Lake Station MEL-1		Units	CCME	2015				
Date Sampled	29/06/2015			19/07/2015	25/08/2015	21/09/2015	21/09/2015	
GPS Coordinates	541934.2-6989173			541934.2-6989173	541934.2-6989173	541934.2-6989173	541934.2-6989173	
LAB	ALS LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB	
Field Measurements								
Water Temperature	oC		6.1	13.2	11.3	5.3	Dup	
pH	pH units		8.78	9.76	8.95	9.11	Dup	
Conductivity	(µS/cm)		59	79.7	74.7	82.9	Dup	
Laboratory-Measured								
Fecal Coliforms	MPN/100mL							
Total Coliforms	mg/L							
E. Coli	mg/L							
Total Oil and Grease	mg/L							
Ion balance	%		Low EC	Low EC	Low EC	Low EC	Low EC	
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0			
Ammonia as N	mg/L	2.33	<0.010	<0.010	0.15	<0.010	<0.010	
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020			
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0055	0.0028	0.0029		<0.050	
Phosphorus (P)-Total Reactive	mg/L		0.0016	<0.0010	<0.0010			
Total Kjeldahl Nitrogen	mg/L		<0.20	<0.20	0.24			
Total Suspended Solids	mg/L		<5.0	<5.0	<5.0	<5.0	<5.0	
Phosphorus (P)-Total	mg/L		0.0055					
Alkalinity, Total (as CaCO3)	mg/L		12.8	15.2	15.2	16.3	16.3	
Bicarbonate (HCO3)	mg/L		15.6	18.5	18.5	19.9	19.9	
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60	<0.60	
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34	<0.34	
Calcium (Ca)-Dissolved	mg/L		6.7	6.44	6.55			
Magnesium (Mg)-Dissolved	mg/L		0.922	1.09	1.09			
Potassium (K)-Dissolved	mg/L		0.732	0.819	0.813			
Sodium (Na)-Dissolved	mg/L		3.34	4.1	4.47			
Chloride	umhos/cm		7.21	8.44	8.76	9.9	9.89	
Conductivity	umhos/cm		55.2	66.5	72.7	78.9	77	
Fluoride	mg/L	0.12	<0.020	<0.020	0.022			
Hardness (as CaCO3)	mg/L		18.2	21.4	20.5	26.1	23.9	
Nitrate-N	mg/L	13	<0.020	<0.020	<0.020	<0.020	<0.020	
Nitrate and Nitrite as N	mg/L		<0.070	<0.070	<0.070	<0.070	<0.070	
Nitrite-N	mg/L	0.197	<0.010	<0.010	<0.010	<0.010	<0.010	
Sulfate	mg/L		3	3.52	3.73	4.67	4.68	
TDS (Calculated)	mg/L		36	43	47	39.6	38.8	
Aluminum (Al)-Total	mg/L	0.1	0.0074	0.0044	0.0035	0.0132	0.0149	
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Arsenic (As)-Total	mg/L	0.005	0.0003	0.00035	0.00034	0.00053	0.00049	
Barium (Ba)-Total	mg/L		0.00682	0.00732	0.00657	0.00865	0.00825	
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010	<0.010	<0.010	
Cadmium (Cd)-Total	mg/L	Equation	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Calcium (Ca)-Total	mg/L		5.71	6.71	6.47	8.26	7.44	
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Chromium (Cr)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	0.00012	
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Copper (Cu)-Total	mg/L	Equation	0.00074	0.00083	0.00079	0.00085	0.00091	
Iron (Fe)-Total	mg/L	0.3	0.039	0.033	0.019	0.084	0.057	
Lead (Pb)-Total	mg/L	Equation	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	
Lithium (Li)-Total	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Magnesium (Mg)-Total	mg/L		0.95	1.13	1.07	1.32	1.3	
Manganese (Mn)-Total	mg/L		0.0122	0.00832	0.00376	0.00887	0.00744	
Molybdenum (Mo)-Total	mg/L	0.073	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Nickel (Ni)-Total	mg/L	Equation	0.00073	0.00062	0.00054	0.0006	0.00062	
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium (K)-Total	mg/L		0.725	0.813	0.794	0.917	0.889	
Rubidium (Rb)-Total	mg/L		0.00106	0.00114	0.00119	0.00124	0.00134	
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Silicon (Si)-Total	mg/L		0.17	0.21	0.18	0.23	0.22	
Silver (Ag)-Total	mg/L	0.0001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium (Na)-Total	mg/L		3.21	4.37	4.23	4.8	4.86	
Strontium (Sr)-Total	mg/L		0.028	0.0304	0.0292	0.0392	0.0357	
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Titanium (Ti)-Total	mg/L		<0.00050	<0.00050	<0.00050	0.00057	0.00066	
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Zinc (Zn)-Total	mg/L	0.03	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	
Oil & Grease	mg/L							
Ortho-Phosphate (PO4-P)	mg/L							
Turbidity	NTU		0.48	0.49	0.27	0.89	0.78	
Sodium Adsorption Ratio			0.33	0.41	0.41			
pH	pH units	6.5-9.0	7.37	7.11	7.34	7.32	7.29	

Lake A8 MEL-2:

Waterbody : A8 (MEL-2)	Units	CCME	2015				
Year							
Date Sampled			28/06/2015	19/07/2015	25/08/2015	25/08/2015	22/09/2015
GPS Coordinates			540748 -6986690	540748 -6986690	540748 -6986690	540748 -6986690	540748 -6986690
LAB			ALS LAB	ALS LAB	ALS LAB	ALS LAB	ALS LAB
Field Measurements							
Water Temperature	oC		12.3	13.9	12.5	dup	3.8
pH	pH units		8.46	8.59	8.26	dup	8.92
Conductivity	(uS/cm)		148.6	316	278	dup	304
Laboratory-Measured							
Ion balance	%		105	98.1	105	113	97.7
Biochemical Oxygen Demand	mg/L		<2.0	<2.0	<2.0	<2.0	
Ammonia as N	mg/L	2.33	0.11	<0.010	<0.010	0.018	<0.010
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	
Phosphorus (P)-Total	mg/L	0.004 - 0.01	0.0047	0.004	0.0053	0.0092	<0.050
Phosphorus (P)-Total Reactive	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	
Total Kjeldahl Nitrogen	mg/L		0.32	0.35	0.27	0.32	
Total Suspended Solids	mg/L		<5.0	<5.0	<5.0	<5.0	<5.0
Alkalinity, Total (as CaCO3)	mg/L		29.1	35.1	41	41.2	39.8
Bicarbonate (HCO3)	mg/L		35.5	42.8	50	50.3	48.6
Carbonate (CO3)	mg/L		<0.60	<0.60	<0.60	<0.60	<0.60
Hydroxide (OH)	mg/L		<0.34	<0.34	<0.34	<0.34	<0.34
Calcium (Ca)-Dissolved	mg/L		18.1	27.8	36.6	40.7	
Magnesium (Mg)-Dissolved	mg/L		2.25	3.23	4.21	4.27	
Potassium (K)-Dissolved	mg/L		1.02	1.45	1.91	1.95	
Sodium (Na)-Dissolved	mg/L		3.47	5.36	7.2	7	
Chloride	mg/L		19.4	40.7	51.8	51.8	57.9
Conductivity	umhos/cm		126	201	258	267	279
Fluoride	mg/L	0.12	0.021	0.021	0.027	0.027	
Hardness (as CaCO3)	mg/L		54	85.4	106	102	110
Nitrate-N	mg/L	13	<0.020	<0.020	<0.020	<0.020	0.027
Nitrate and Nitrite as N	mg/L		<0.070	<0.070	<0.070	<0.070	<0.070
Nitrite-N	mg/L	0.197	<0.010	<0.010	<0.010	<0.010	<0.010
Sulfate	mg/L		3.75	5.31	6.62	6.58	8.2
TDS (Calculated)	mg/L		82	131	168	174	140
Aluminum (Al)-Total	mg/L	0.1	0.0065	0.0033	0.0055	0.005	0.0112
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.000153	0.00196	0.00195	0.00195	0.00179
Barium (Ba)-Total	mg/L		0.0174	0.0245	0.0242	0.0248	0.027
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Equation	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L		17.9	28.3	35.9	34.1	36.9
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.00010	0.00016	<0.00010	<0.00010	<0.00010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Equation	0.00063	0.00078	0.00076	0.0008	0.00076
Iron (Fe)-Total	mg/L	0.3	0.114	0.118	0.063	0.067	0.096
Lead (Pb)-Total	mg/L	Equation	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		0.0035	0.0078	0.0095	0.0097	0.0102
Magnesium (Mg)-Total	mg/L		2.28	3.6	4.01	4.16	4.24
Manganese (Mn)-Total	mg/L		0.00849	0.0141	0.0293	0.026	0.00726
Molybdenum (Mo)-Total	mg/L	0.073	<0.00020	0.00028	0.00029	0.00027	0.00023
Nickel (Ni)-Total	mg/L	Equation	0.0008	0.00095	0.00082	0.00083	0.00096
Phosphorus (P)-Total	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L		1	1.57	1.85	1.88	1.87
Rubidium (Rb)-Total	mg/L		0.00112	0.00166	0.00188	0.00194	0.00203
Selenium (Se)-Total	mg/L	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Silicon (Si)-Total	mg/L		0.36	0.2	0.16	0.15	0.28
Silver (Ag)-Total	mg/L	0.0001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	mg/L		3.44	6.05	6.57	6.66	6.98
Strontium (Sr)-Total	mg/L		0.103	0.191	0.258	0.252	0.266
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0012	<0.0010	<0.0010	<0.0010	<0.0010
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Sodium Adsorption Ratio			0.2	0.28	0.3	0.28	
Ortho-Phosphate (PO4-P)	mg/L						
Turbidity	NTU		0.53	0.65	0.66	0.67	1.08
pH	pH units	6.5-9.0	7.39	7.48	7.48	7.53	7.63

MEL-5:

Waterbody : MEL-5	Units	2BB Limit - Part D Item 17	CCME	
				N-Treated
Date Sampled				14/06/2015
Localisation				Bladder Berm
LAB				ALS LAB
Laboratory-Measured				
Benzene	mg/L	0.37	0.0018	<0.00050
Toluene	mg/L	0.002	0.002	<0.0010
Ethyl benzene	mg/L	0.09	0.09	<0.00050
Xylenes	mg/L	-	-	<0.0015
Lead (Pb)-Total	mg/L	0.001	Equation*	0.000334
Oil and Grease, Total	mg/L	15	0.015	<2.0
Phenols (4AAP)	mg/L	0.02	Variable	0.0033

MEL-7:

	Parameter	Biochemical Oxygen Demand	Oil & Grease-(IR)	Total Suspended Solids	pH	Fecal Coliforms
	Limits	80 mg/L	5 mg/L + no visible sheen	100 mg/L	6.0-9.5	1000 CFU/100mL
January	06/01/2015	<6.0	<2.0	5.0	6.09	<3
	12/01/2015	10.7	<2.0	<5.0	6.0	<3
	19/01/2016	<6.0	<2.0	7.0	6.5	<3
	26/01/2015	9.9	<2.0	10.0	6.98	3.0
February	02/02/2015	10.1	<2.0	19.0	7.23	4.0
	09/02/2015	4.8	<2.0	<5.0	7.58	<3
	19/02/2015	4.1	<2.0	8.0	7.34	<3
	25/02/2015	13.2	<2.0	36.0	7.55	<3
March	02/03/2015	11.5	2.5	25.0	6.5	<3
	09/03/2015	11.6	<2.0	30.0	6.77	<3
	19/03/2015	13.4	<2.0	36.0	6.55	9.0
	23/03/2015	12.2	3.0	36.7	7.1	4.0
	30/03/2015	11.0	<2.0	18.0	6.6	<3
April	06/04/2015	11.9	<2.0	25.0	6.69	<3
	13/04/2015	12.3	<2.0	32.0	7.45	<3
	20/04/2015	25.7	<2.0	27.0	7.37	4.0
	27/04/2015	26.0	<2.0	20.0	7.77	<3
May	04/05/2015	13.9	<2.0	16.0	7.6	<3
	11/05/2015	11.0	<2.0	19.0	7.12	<3
	18/05/2015	5.5	<2.0	5.0	7.2	<3
	25/05/2015	5.8	<2.0	7.0	7.14	<3
June	01/06/2015	8.4	<2.0	5.0	7.27	<3
	08/06/2015	10.0	<2.0	17	7.25	<3
	15/06/2015	5.8	<2.0	6.0	7.3	<3
	22/06/2015	15.4	<2.0	19.0	7.1	<3
	29/06/2015	10.2	<2.0	16.0	7.09	<3
July	08/07/2015	<2.0	<2.0	15.0	7.81	<3
	20/07/2015	13.1	<2.0	14.0	7.34	<3
	29/07/2015	7.0	1.0	7.0	7.46	0.0
August	03/08/2015	8	2	11	7.33	0
	10/08/2015	1	<1	8	7.26	0
	17/08/2015	9	1	8	7.36	0
	24/08/2015	9.9	<2.0	8.00	7.83	<3.0
	31/08/2015	11.50	<2.0	10	8	9
September	07/09/2015	14.8	<2.0	9.0	7.66	23.0
	14/09/2015	11.0	<2.0	14.0	7.75	23.0
	21/09/2015	12.9	<2.0	16.0	7.56	430.0
	28/09/2015	10.6	<2.0	11.0	7.7	46,000.0
October	08/10/2015	12.3	<2.0	17.0	7.3	740.0
	12/10/2015	-	<2.0	15.0	7.25	93.0
	20/10/2015	10.8	<2.0	16.0	7.4	23.0
	26/10/2015	26.1	<2.0	14.0	7.4	430.0
November	02/11/2015	28.8	2.4	18.0	7.6	430.0
	11/11/2015	14.3	2.1	16.0	8.0	93.0
	16/11/2015	32.8	<2.0	11.0	7.7	136.0
	23/11/2015	32.2	<5.0	19.0	7.3	>2000
	30/11/2015	20.8	<2.0	15.0	7.5	>2000
December	07/12/2015	27.3	<2.0	21.0	7.4	140.0
	14/12/2015	27.3	<2.0	26.0	7.48	460.0
	21/12/2015	18.0	<1	6.0	6.66	
	28/12/2015	10.0	<1	5.0	6.5	10.0