Sample Name	CCME Guideline (RWQ)	CCME Guidelines (FWAL)	Units	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake (Beach)	Sandy Lake (Lake Centre)	Sandy Lake (Farmers Inlet)	Sandy Lake (Northern Outlet)	Sandy Lake (Northern Inlet)	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake
Lake Name				Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake (Beach)	Sandy Lake (Lake Centre)	Sandy Lake (Farmers Inlet)	Sandy Lake (Northern Outlet)	Sandy Lake (Northern Inlet)	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake
Easting	-	-	-	unknown	unknown	unknown	444574	444574	444574	unknown	unknown	unknown	unknown	unknown	unknown	unknown	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444390	444550	444550	444550	444550	444550
Northing	-	-	-	unknown	unknown	unknown	4953566	4953566	4953566	unknown	unknown	unknown	unknown	unknown	unknown	unknown	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953507	4953619	4953619	4953619	4953619	4953619
Sampling Date	-	-	dd-mmm-yy	1-Jan-80	1-Jan-91	1-Jan-91	2-Sep-98	2-Sep-98	2-Sep-98	1-Jan-00	1-Jan-00	25-Nov-01	25-Nov-01	25-Nov-01	25-Nov-01	25-Nov-01	30-Aug-05	30-Sep-05	28-Oct-05	5-Dec-05	31-Mar-06	6-May-06	2-Jun-06	5-Jul-06	31-Jul-06	1-Sep-06	4-Oct-06	2-Nov-06	8-Jun-07	13-Jul-07	10-Aug-07	7-Sep-07	5-Oct-07	31-May-06	24-Oct-06	23-May-07	1-Nov-07	28-May-08
Sampled By / Data Source	-	-	-	DFO	DFO	DFO	NSE	NSE	NSE	DFO	DFO	Dalhousie University	Dalhousie University	Dalhousie University	Dalhousie University	Dalhousie University	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	Sandy Lake Resident	HRM	HRM	HRM	HRM	HRM
FIELD DATA																																										
Secchi Depth	1.20	-	Meters	-			3.05	3.05	3.05	-							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0	1.5	3.0	2.00	3.8
Temp	-	-	Celsius	4	6		22	22	22	5.1	5.7						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.18	12.24	11.81	11.97	13.88
Dissolved Oxygen	-	5.5-9.5	mg/L	-			3	3	3								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.67	9.47	10.22	9.60	10.96
pH	5.0-9.0	6.5-9	pH	4.9	5.3		5.7	6.2	5.9	5.81	5.65	5.85			5.25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00	6.43	6.48	6.41	6.61
Specific Conductance	-	-	uS/cm	58.9	113.7		146	125	130	132.1	133						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124	99	158	117	193
TDS	-	-	g/L	-				0.069									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	0.08	0.13
Salinity	-	-	ppt	-													-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	0.06	0.09
INORGANICS																																										
Total Alkalinity (as CaCO3)	-	-	mg/L	0.05	0.1		2	3	2.8	0.21	0.42	2.8	2	4	2.8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	5	<5
Dissolved Chloride (Cl)				13.7	25		34	29	30	30.2	30																							27	21	38	27	50
Colour	-	-	TCU		22.5					8	12	25.9	29	27	24.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	17	32	24
Nitrite + Nitrate	-	-	mg/L				0.09	<0.01	0.05			<0.05	<0.05	<0.05	<0.05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	0.08	0.16
Nitrite (N)	-	60.00	mg/L	0.05	0.08					0.1	0.1						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	ND	-	-	<0.01
Nitrogen (Ammonia Nitrogen)	-	19.00	mg/L	0.02	0.023		0.01	0.03	0.021	0.019							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Nitrogen TKN - water (as N)	-	-															-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	0.3	0.4	0.6	0.3
Total Nitrogen	-	-	mg/L	0.24	0.25		0.332	0.2	0.22	0.1	0.17						0.19	0.22	0.26	0.36	0.27	0.24	0.26	0.19	0.27	0.25	0.26	0.26	0.27	0.21	0.23	0.30	-	-	-	-	-	-
Total Organic Carbon	-	-	mg/L				3.9	4.4	4.4			4.7	4.7	5.4	4.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	6.2	3.4
Orthophosphate (as P)	-	-	mg/L	0.002	0.02		0.004	<0.001	<0.001			<0.01	<0.01	<0.01	<0.01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
pH (Lab)	5.0-9.0	6.5-9	pH	4.9	5.29							6.3	6.3	6.3	6.3		6.50		6.40	6.50	7.30	6.30	6.90	7.00	6.50	6.60	6.90	6.50	6.40	6.60	6.50	-	-	-	-	6.26	6.61	6.55
Total Calcium (Ca)	-	-	mg/L	1.8	3.3		3.92	3.9	3.92	4	3.9	4.2	4.3	5.6	4.3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	4	5.1
Total Magnesium (Mg)	-	-	mg/L	0.9	0.9		0.96	0.93	0.92	0.99	0.97	1	1	1.3	1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	0.9	1
Total Phosphorus	-	-	mg/L	0.007	0.019		0.012	0.001	0.005	0.008	0.008						0.008	0.006	0.014	0.013	0.012	0.005		0.006	0.009	0.008	0.008	0.006	0.005	0.006	0.006	0.006	0.006	-	-	0.1	-	0.1
Total Phosphorus (1M depth)	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002	0.009	0.02	0.006	0.012
Total Phosphorus (Deep)	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Potassium (K)	-	-	mg/L	0.7	0.7		0.7	0.8	0.9	0.66	0.67	0.7	0.8	0.8	0.9		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.2	1.1
Total Sodium (Na)	-	-	mg/L	8.4	15.3		19.5	17	18.1	17.1	18.4	20.8	21.1	20.1	21.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	18	31
Reactive Silica (SiO2)	-	-	mg/L				3.2	2.1	2.6			2.7	2.7	4.5	2.7		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.6	2.4
Total Suspended Solids	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	2	<1	2	<1
Dissolved Sulphate (SO4)	-	-	mg/L	3.9	3.3		9.8	10	9.8	9.07	8.97	10.2	9.9	14.2	9.7		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	7	9
Lab Turbidity (NTU)	50.00	-	NTU														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	0.9	0.7	1.3	0.7
Conductivity (uS/cm)	-	-	µS/cm														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	120	200
Calculated Parameteres																																										
Anion Sum	-	-	me/L									1.23	1.23	1.28	1.24		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27	1.02	1.6
Bicarb. Alkalinity (calc. as CaCO3)	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	5	<1
Calculated TDS	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	65	100
Carb. Alkalinity (calc. as CaCO3)	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	<1
Cation Sum	-	-	me/L									1.22	1.24	1.28	1.24		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.41	1.08	1.73
Hardness (CaCO3)	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	14	17
Ion Balance (% Difference)	-	-	%														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.22	2.86	3.9
Langelier Index (@ 20C)	-	-	N/A														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NC	-3.39	NC
Langelier Index (@ 4C)	-	-	N/A														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NC	-3.64	NC
Saturation pH (@ 20C)	-	-	N/A														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NC	10	NC
Saturation pH (@ 4C)	-	-	N/A														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NC	10.3	NC
Metals (ICP-MS)																																										
Total Aluminum (Al)	-	5-100	µg/L				200	64	130	180	167						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	120
Total Antimony (Sb)	-	5-100	µg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Arsenic (As)	-	5.00	µg/L		0.1	0.2				0.3	0.3						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Barium (Ba)	-	-	µg/L							16.4	16.9						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	19
Total Beryllium (Be)	-	-	µg/L							0.027	0.023						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Bismuth (Bi)	-	-	µg/L							<0.01	<0.01						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Cadmium (Cd)	-	0.02	µg/L		0.14	0.13				0.16	0.123						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	-	<0.3
Total Chromium (Cr)	-	1.00	µg/L							0.21	0.19						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Cobalt (Co)	-	-	µg/L							0.93	0.85						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	<1
Total Copper (Cu)	-	2.0-4.0	µg/L		3.6	2	0.01	<0.01	0.01	1.1	2.3	<0.002	<0.002	0.002	0.002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Lead (Pb)	-	1.0-7.0	µg/L							0.25	0.3						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5
Total Molybdenum (Mo)	-	73.00	µg/L							<0.05	<0.05						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Nickel (Ni)	-	25-150	µg/L							2.2	2.1						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Selenium (Se)	-	1.00	µg/L							<1	<1						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Silver (Ag)	-	0.10	µg/L							<0.01	<0.01						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	<0.5
Total Thallium (Tl)	-	0.80	µg/L							<0.005	<0.005						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	<2
Total Tin (Sn)	-	-	µg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Titanium (Ti)	-	-	µg/L							1.1	1						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Uranium (U)	-	-	µg/L		0.02	0.039				0.012	0.014						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	<0.1
Total Vanadium (V)	-	-	µg/L		0.41	0.92				0.27	0.23						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2	-	<2
Total Zinc (Zn)	-	30.00	µg/L		23.7	22.1	0.04	<0.01	0.01	8.3	10.6	6	6	7	8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	12
MICROBIOLOGICAL																																										
Total coliform	-	-	MPN/100mL														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. Coli	-	-	MPN/100mL														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Fecal Coliform	-	400	MPN/100mL														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	7	2	<1
Fecal Coliform	-	-	CFU/100 ml														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Chlorophyll A - Acidification method	-	-	µg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56	8.85	0.3	1.89	1.16
Chlorophyll A - Welschmeyer method	-	-	µg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34	2.11	1.07
Chlorophyll A	-	-	µg/L		0.93			2.3		0.66	0.85						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pheophytin A	-	-	µg chl eq/L					0.8									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORGANICS																																										
Biochemical Oxygen Demand	-	-	(mg/L)														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disolved Organic Carbon	-	-	mg/L														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Source	-	-	-	DFO	DFO	DFO	NSE	NSE	NSE	DFO	DFO	Dalhousie 2002 (Conrad 2002)	Dalhousie 2002 (Conrad 2002)	Dalhousie 2002 (Conrad 2002)	Dalhousie 2002 (Conrad 2002)	Dalhousie 2002 (Conrad 2002)	Sandy Lake Conservation Association																											

Sample Name				Sandy Lake									
Lake Name	CCME Guideline (RWQ)	CCME Guidelines (FWAL)	Units	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake
Easting	-	-	-	444550	444550	444550	444550	444550	444550	444550	444550	444550	444550
Northing	-	-	-	4953619	4953619	4953619	4953619	4953619	4953619	4953619	4953619	4953619	4953619
Sampling Date	-	-	dd-mmm-yy	3-Sep-08	21-Oct-08	2-Jun-09	12-Aug-09	18-Nov-09	21-May-10	24-May-10	9-Nov-10	19-Aug-11	23-May-07
Sampled By / Data Source	-	-	-	HRM	HRM	HRM	HRM	HRM	HRM	HRM	HRM	HRM	HRM
FIELD DATA													
Secchi Depth	1.20	-	Meters	2.0	2.4	2.7	N/A	1.8	3.2	2.6	1.7	1.5	-
Temp	-	-	Celsius	19.58	12.20	15.53	24.90	7.48	14.16	22.99	11.40	22.67	-
Dissolved Oxygen	-	5.5-9.5	mg/L	9.64	10.15	10.71	8.81	13.41	11.91	8.74	12.13	9.27	-
pH	5.0-9.0	6.5-9	pH	6.42	7.08	7.36	6.45	6.76	7.55	6.91	6.29	6.8	-
Specific Conductance	-	-	uS/cm	167	165	178	159	135	167	156	128	119	-
TDS	-	-	g/L	0.11	0.11	0.12	0.10	0.09	0.11	0.10	0.08	0.077	-
Salinity	-	-	ppt	0.08	0.08	0.08	0.07	0.06	0.08	0.07	0.06	0.06	-
INORGANICS													
Total Alkalinity (as CaCO3)	-	-	mg/L	6	6	<5	<5	<5	<5	<5	<5	6	-
Dissolved Chloride (Cl)				40	41	45	39	32	42	37	29	24	-
Colour	-	-	TCU	39	45	26	54	66	19	15	26	71	-
Nitrite + Nitrate	-	-	mg/L	<0.05	0.07	0.13	0.14	<0.05	0.11	<0.05	0.06	<0.05	-
Nitrite (N)	-	60.00	mg/L	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Nitrogen (Ammonia Nitrogen)	-	19.00	mg/L	<0.05	<0.05	<0.05	<0.05	0.08	0.07	0.06	0.05	<0.05	-
Nitrogen TKN - water (as N)	-	-		0.4	0.4	<0.4	1	1.2	0.5	0.7	0.4	3.6	-
Total Nitrogen	-	-	mg/L	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	mg/L	5.3	5.7	4.6	10.5	8.6	5.9	6.8	8.4	10.4	-
Orthophosphate (as P)	-	-	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
pH (Lab)	5.0-9.0	6.5-9	pH	6.52	6.66	6.8	7.2	7.0	6.8	7.0	6.6	7.1	-
Total Calcium (Ca)	-	-	mg/L	4.8	4.4	4.1	5	4.6	5.5	17.2	4.1	3.8	-
Total Magnesium (Mg)	-	-	mg/L	1.0	0.9	0.9	1	1.0	1	1.7	1.0	0.7	-
Total Phosphorus	-	-	mg/L	0.1	0.1	-	-	0.1	-	0.1	-	0.1	-
Total Phosphorus (1M depth)	-	-	mg/L	0.011	0.021	0.008	0.012	0.025	0.043	0.010	0.019	0.006	-
Total Phosphorus (Deep)	-	-	mg/L	0.015	-	-	N/A	-	-	0.026	-	0.005	-
Total Potassium (K)	-	-	mg/L	1.2	1.0	0.9	1	1.1	1	1.2	1.2	0.7	-
Total Sodium (Na)	-	-	mg/L	25	23	22.6	22.9	19.1	30.3	27.7	17.6	18.1	-
Reactive Silica (SiO2)	-	-	mg/L	2.6	3.2	2.5	2	3.5	3	2.3	3.4	2.2	-
Total Suspended Solids	-	-	mg/L	1	1	<5	<5	<5	<5	<5	<5	<5	-
Dissolved Sulphate (SO4)	-	-	mg/L	9	8	8	7	7	8	7	7	5	-
Lab Turbidity (NTU)	50.00	-	NTU	1.0	1.2	1.3	2.7	3.2	0.8	1.3	3.0	1.8	-
Conductivity (uS/cm)	-	-	µS/cm	170	170	188	165	140	177	160	129	-	-
Calculated Parameteres													
Anion Sum	-	-	me/L	1.44	1.44	1.45	1.27	1.05	1.36	1.19	0.97	0.9	-
Bicarb. Alkalinity (calc. as CaCO3)	-	-	mg/L	6	6	<1	<1	<1	<1	<1	<1	6	-
Calculated TDS	-	-	mg/L	88	86	82	243	206	266	253	61	56	-
Carb. Alkalinity (calc. as CaCO3)	-	-	mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Cation Sum	-	-	me/L	1.45	1.34	1.29	1.39	1.25	1.72	2.27	1.14	1.07	-
Hardness (CaCO3)	-	-	mg/L	16	15	14	17	16	18	50	14.4	12	-
Ion Balance (% Difference)	-	-	%	0.350	3.60	5.6	4.5	8.6	11.7	31.3	8.0	8.6	-
Langelier Index (@ 20C)	-	-	N/A	-3.33	-3.26	-3.47	-3.73	-4.96	-6.09	-4.39	-3.66	-3.1	-
Langelier Index (@ 4C)	-	-	N/A	-3.58	-3.51	-3.79	-4.05	-5.28	-6.41	-4.71	-3.98	-3.42	-
Saturation pH (@ 20C)	-	-	N/A	9.85	9.92	10.3	10.93	11.96	12.89	11.39	10.30	10.2	-
Saturation pH (@ 4C)	-	-	N/A	10.1	10.2	10.6	11.25	12.28	13.21	11.71	10.60	10.52	-
Metals (ICP-MS)													
Total Aluminum (Al)	-	5-100	µg/L	77	97	-	-	234	-	142	-	171	-
Total Antimony (Sb)	-	5-100	µg/L	<2	<2	-	-	<2	-	<2	-	<2	-
Total Arsenic (As)	-	5.00	µg/L	<2	<2	-	-	<2	-	<2	-	<2	-
Total Barium (Ba)	-	-	µg/L	15	15	-	-	17	-	17	-	14	-
Total Beryllium (Be)	-	-	µg/L	<2	<2	-	-	<2	-	<2	-	<2	-
Total Bismuth (Bi)	-	-	µg/L	<2	<2	-	-	<2	-	<2	-	<2	-
Total Cadmium (Cd)	-	0.02	µg/L	<0.3	<0.3	-	-	0.037	-	0.076	-	0.031	-
Total Chromium (Cr)	-	1.00	µg/L	<2	<2	-	-	<1	-	18	-	1	-
Total Cobalt (Co)	-	-	µg/L	<1	<1	-	-	1	-	<1	-	<1	-
Total Copper (Cu)	-	2.0-4.0	µg/L	<2	<2	<2	<2	<2	<2	2	<2	<2	-
Total Lead (Pb)	-	1.0-7.0	µg/L	<0.5	<0.5	-	-	0.6	-	<0.5	-	<0.5	-
Total Molybdenum (Mo)	-	73.00	µg/L	<2	<2	-	-	<2	-	2	-	<2	-
Total Nickel (Ni)	-	25-150	µg/L	<2	<2	-	-	<2	-	14	-	2	-
Total Selenium (Se)	-	1.00	µg/L	<2	<2	-	-	<1	-	<1	-	<1	-
Total Silver (Ag)	-	0.10	µg/L	<0.5	<0.5	-	-	<0.1	-	<0.1	-	<0.1	-
Total Thallium (Tl)	-	0.80	µg/L	<2	<2	-	-	<0.1	-	<0.1	-	<0.1	-
Total Tin (Sn)	-	-	µg/L	<2	<2	-	-	<2	-	<2	-	<2	-
Total Titanium (Ti)	-	-	µg/L	<2	<2	-	-	2	-	<2	-	2	-
Total Uranium (U)	-	-	µg/L	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-
Total Vanadium (V)	-	-	µg/L	<2	<2	-	-	<2	-	<2	-	<2	-
Total Zinc (Zn)	-	30.00	µg/L	7	9	<5	12	6	<5	154	6	5	-
MICROBIOLOGICAL													
Total coliform	-	-	MPN/100mL	-	-	-	-	344	111	1226	1733	-	-
E. Coli	-	-	MPN/100mL	-	-	-	-	<2	<2	<2	36	4	-
Fecal Coliform	-	400	MPN/100mL	18	<1	-	-	-	-	-	-	-	1
Fecal Coliform	-	-	CFU/100 ml	-	-	2	24	<2	-	-	-	-	-
Chlorophyll A - Acidification method	-	-	µg/L	10.56	7.62	3.64	13.20	6.33	2.95	9.41	4.33	8.33	-
Chlorophyll A - Welschmeyer method	-	-	µg/L	10.29	7.82	3.47	12.70	6.14	2.92	9.05	4.02	7.59	-
Chlorophyll A	-	-	µg/L	-	-	-	-	-	-	-	-	-	-
Pheophytin A	-	-	µg chl eq/L	-	-	-	-	-	-	-	-	-	-
ORGANICS													
Biochemical Oxygen Demand	-	-	(mg/L)	-	-	-	-	-	-	-	-	-	-
Disolved Organic Carbon	-	-	mg/L	-	-	-	-	-	-	-	-	-	-
Source	-	-	-	HRM Lakes Water Quality Sampling Program									

Sample Name	Sandy Lake Outlet										
Lake Name	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake
Easting	444018	444018	444018	444018	444018	444018	444018	444018	444018	444018	444018
Northing	4954358	4954358	4954358	4954358	4954358	4954358	4954358	4954358	4954358	4954358	4954358
Sampling Date	1-Nov-07	28-May-08	3-Sep-08	21-Oct-08	2-Jun-09	18-Nov-09	21-May-10	24-May-10	9-Nov-10	19-Aug-11	27-Aug-13
Sampled By / Data Source	HRM	HRM	HRM	HRM	HRM	HRM	HRM	HRM	HRM	HRM	AECOM
FIELD DATA											
Secchi Depth	-	-	-	-	-	-	-	-	-	-	-
Temp	-	-	-	-	-	-	-	-	-	-	21.60
Dissolved Oxygen	-	-	-	-	-	-	-	-	-	-	4.28
pH	-	-	-	-	-	-	-	-	-	-	6.08
Specific Conductance	-	-	-	-	-	-	-	-	-	-	128
TDS	-	-	-	-	-	-	-	-	-	-	0.08
Salinity	-	-	-	-	-	-	-	-	-	-	-
INORGANICS											
Total Alkalinity (as CaCO3)	-	-	-	-	-	-	-	-	-	-	-
Dissolved Chloride (Cl)	-	-	-	-	-	-	-	-	-	-	34
Colour	-	-	-	-	-	-	-	-	-	-	-
Nitrite + Nitrate	-	-	-	-	-	-	-	-	-	-	<0.05
Nitrite (N)	-	-	-	-	-	-	-	-	-	-	<0.05
Nitrogen (Ammonia Nitrogen)	-	-	-	-	-	-	-	-	-	-	<0.05
Nitrogen TKN - water (as N)	-	-	-	-	-	-	-	-	-	-	<0.4
Total Nitrogen	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	-	-	-	-	-	-	-
Orthophosphate (as P)	-	-	-	-	-	-	-	-	-	-	<0.01
pH (Lab)	-	-	-	-	-	-	-	-	-	-	-
Total Calcium (Ca)	-	-	-	-	-	-	-	-	-	-	-
Total Magnesium (Mg)	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	-	-	-	-	-	-	-	-	-	-	0.019
Total Phosphorus (1M depth)	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus (Deep)	-	-	-	-	-	-	-	-	-	-	-
Total Potassium (K)	-	-	-	-	-	-	-	-	-	-	-
Total Sodium (Na)	-	-	-	-	-	-	-	-	-	-	-
Reactive Silica (SiO2)	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	-	-	-	-	-	-	-	-	-	-	<2
Dissolved Sulphate (SO4)	-	-	-	-	-	-	-	-	-	-	-
Lab Turbidity (NTU)	-	-	-	-	-	-	-	-	-	-	-
Conductivity (uS/cm)	-	-	-	-	-	-	-	-	-	-	-
Calculated Parameteres											
Anion Sum	-	-	-	-	-	-	-	-	-	-	-
Bicarb. Alkalinity (calc. as CaCO3)	-	-	-	-	-	-	-	-	-	-	-
Calculated TDS	-	-	-	-	-	-	-	-	-	-	-
Carb. Alkalinity (calc. as CaCO3)	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO3)	-	-	-	-	-	-	-	-	-	-	-
Ion Balance (% Difference)	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (@ 20C)	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (@ 4C)	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (@ 20C)	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (@ 4C)	-	-	-	-	-	-	-	-	-	-	-
Metals (ICP-MS)											
Total Aluminum (Al)	-	-	-	-	-	-	-	-	-	-	101
Total Antimony (Sb)	-	-	-	-	-	-	-	-	-	-	<2
Total Arsenic (As)	-	-	-	-	-	-	-	-	-	-	<2
Total Barium (Ba)	-	-	-	-	-	-	-	-	-	-	16
Total Beryllium (Be)	-	-	-	-	-	-	-	-	-	-	<2
Total Bismuth (Bi)	-	-	-	-	-	-	-	-	-	-	<2
Total Cadmium (Cd)	-	-	-	-	-	-	-	-	-	-	<0.017
Total Chromium (Cr)	-	-	-	-	-	-	-	-	-	-	<1
Total Cobalt (Co)	-	-	-	-	-	-	-	-	-	-	<1
Total Copper (Cu)	-	-	-	-	-	-	-	-	-	-	2
Total Lead (Pb)	-	-	-	-	-	-	-	-	-	-	<0.5
Total Molybdenum (Mo)	-	-	-	-	-	-	-	-	-	-	<2
Total Nickel (Ni)	-	-	-	-	-	-	-	-	-	-	<2
Total Selenium (Se)	-	-	-	-	-	-	-	-	-	-	<1
Total Silver (Ag)	-	-	-	-	-	-	-	-	-	-	<0.1
Total Thallium (Tl)	-	-	-	-	-	-	-	-	-	-	<0.1
Total Tin (Sn)	-	-	-	-	-	-	-	-	-	-	<2
Total Titanium (Ti)	-	-	-	-	-	-	-	-	-	-	<2
Total Uranium (U)	-	-	-	-	-	-	-	-	-	-	<0.1
Total Vanadium (V)	-	-	-	-	-	-	-	-	-	-	<2
Total Zinc (Zn)	-	-	-	-	-	-	-	-	-	-	<5
MICROBIOLOGICAL											
Total coliform	-	-	-	-	-	332	102	>4838	2420	-	1986
E. Coli	-	-	-	-	-	<2	<2	<2	41	3	1
Fecal Coliform	5	<1	21	<1	-	-	-	-	-	-	-
Fecal Coliform	-	-	-	-	2	<2	-	-	-	-	-
Chlorophyll A - Acidification method	-	-	-	-	-	-	-	-	-	-	3.55
Chlorophyll A - Welschmeyer method	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll A	-	-	-	-	-	-	-	-	-	-	-
Pheophytin A	-	-	-	-	-	-	-	-	-	-	-
ORGANICS											
Biochemical Oxygen Demand	-	-	-	-	-	-	-	-	-	-	-
Disolved Organic Carbon	-	-	-	-	-	-	-	-	-	-	8.2
Source	HRM Lakes Water Quality Sampling Program										AECOM 2013 Sandy Lake and East Preston Sampling Program

Sample Name	Sandy Lake Outlet 2			Sandy Lake							
Lake Name	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake
Easting	444014	444014	444014	unknown	unknown	unknown	444574	444574	444574	unknown	unknown
Northing	4954340	4954340	4954340	unknown	unknown	unknown	4953566	4953566	4953566	unknown	unknown
Sampling Date	15-Nov-13	20-May-14		1/1/1980	1/1/1991	1/1/1991	2-Sep-98	2-Sep-98	2-Sep-98	1/1/2000	1/1/2000
Sampled By / Data Source	AECOM	AECOM	AECOM	DFO	DFO	DFO	NSE	NSE	NSE	DFO	DFO
FIELD DATA											
Secchi Depth				-	-	-	3.05	3.05	3.05	-	-
Temp	7.70	-		4	6	-	22	22	22	5.1	5.7
Dissolved Oxygen	4.09	-		-	-	-	3	3	3	-	-
pH	6.31	-		4.9	5.3	-	5.70	6.20	5.90	5.81	5.65
Specific Conductance	116	-		58.9	113.7	-	146	125	130	132.1	133
TDS	0.08	-		-	-	-	-	0.069	-	-	-
Salinity				-	-	-	-	-	-	-	-
INORGANICS											
Total Alkalinity (as CaCO3)				0.05	0.1	-	2	3	2.8	0.21	0.42
Dissolved Chloride (Cl)	28	47									
Colour				-	22.5	-	-	-	-	8	12
Nitrite + Nitrate	<0.05	0.07		-	-	-	0.09	<0.01	0.05	-	-
Nitrite (N)	<0.05	<0.05		-	-	-	-	-	-	-	-
Nitrogen (Ammonia Nitrogen)	<0.05	<0.05		0.02	0.023	-	-	0.01	0.03	0.021	0.019
Nitrogen TKN - water (as N)	1.4	0.9		-	-	-	-	-	-	-	-
Total Nitrogen				0.24	0.25	-	0.32	0.2	0.22	0.1	0.17
Total Organic Carbon				-	-	-	3.9	4.4	4.4	-	-
Orthophosphate (as P)	<0.01	<0.01		0.002	0.02	-	0.004	<0.001	<0.001	-	-
pH (Lab)	6.7	7.0		4.9	5.29	-	-	-	-	-	-
Total Calcium (Ca)				1.8	3.3	-	3.92	3.9	3.92	4	3.9
Total Magnesium (Mg)				0.9	0.9	-	0.96	0.93	0.92	0.99	0.97
Total Phosphorus	0.009	0.023		0.007	0.019	-	0.012	0.001	0.005	0.008	0.008
Total Phosphorus (1M depth)				-	-	-	-	-	-	-	-
Total Phosphorus (Deep)				-	-	-	-	-	-	-	-
Total Potassium (K)				0.7	0.7	-	0.7	0.8	0.9	0.66	0.67
Total Sodium (Na)				8.4	15.3	-	19.5	17	18.1	17.7	18.4
Reactive Silica (SiO2)				-	-	-	3.2	2.1	2.6	-	-
Total Suspended Solids				-	-	-	-	-	-	-	-
Dissolved Sulphate (SO4)				3.9	3.3	-	9.8	10	9.8	9.07	8.97
Lab Turbidity (NTU)				-	-	-	-	-	-	-	-
Conductivity (uS/cm)				-	-	-	-	-	-	-	-
Calculated Parameteres											
Anion Sum				-	-	-	-	-	-	-	-
Bicarb. Alkalinity (calc. as CaCO3)				-	-	-	-	-	-	-	-
Calculated TDS				-	-	-	-	-	-	-	-
Carb. Alkalinity (calc. as CaCO3)				-	-	-	-	-	-	-	-
Cation Sum				-	-	-	-	-	-	-	-
Hardness (CaCO3)				-	-	-	-	-	-	-	-
Ion Balance (% Difference)				-	-	-	-	-	-	-	-
Langelier Index (@ 20C)				-	-	-	-	-	-	-	-
Langelier Index (@ 4C)				-	-	-	-	-	-	-	-
Saturation pH (@ 20C)				-	-	-	-	-	-	-	-
Saturation pH (@ 4C)				-	-	-	-	-	-	-	-
Metals (ICP-MS)											
Total Aluminum (Al)				-	-	-	200	64	130	180	167
Total Antimony (Sb)				-	-	-	-	-	-	-	-
Total Arsenic (As)				-	0.1	0.2	-	-	-	0.3	0.3
Total Barium (Ba)				-	-	-	-	-	-	16.4	16.9
Total Beryllium (Be)				-	-	-	-	-	-	0.027	0.023
Total Bismuth (Bi)				-	-	-	-	-	-	<0.01	<0.01
Total Cadmium (Cd)				-	0.14	0.13	-	-	-	0.16	0.123
Total Chromium (Cr)				-	-	-	-	-	-	0.21	0.19
Total Cobalt (Co)				-	-	-	-	-	-	0.93	0.85
Total Copper (Cu)				-	3.6	2	0.01	<0.01	0.01	1.1	2.3
Total Lead (Pb)				-	-	-	-	-	-	0.25	0.3
Total Molybdenum (Mo)				-	-	-	-	-	-	<0.05	<0.05
Total Nickel (Ni)				-	-	-	-	-	-	2.2	2.1
Total Selenium (Se)				-	-	-	-	-	-	<1	<1
Total Silver (Ag)				-	-	-	-	-	-	<0.01	<0.01
Total Thallium (Tl)				-	-	-	-	-	-	<0.005	<0.005
Total Tin (Sn)				-	-	-	-	-	-	-	-
Total Titanium (Ti)				-	-	-	-	-	-	1.1	1
Total Uranium (U)				-	0.02	0.039	-	-	-	0.012	0.014
Total Vanadium (V)				-	0.41	0.92	-	-	-	0.27	0.23
Total Zinc (Zn)				-	23.7	22.1	0.04	<0.01	0.01	8.3	10.6
MICROBIOLOGICAL											
Total coliform	87	27		-	-	-	-	-	-	-	-
E. Coli	3	<1		-	-	-	-	-	-	-	-
Fecal Coliform				-	-	-	-	-	-	-	-
Fecal Coliform				-	-	-	-	-	-	-	-
Chlorophyll A - Acidification method	0.80	2.16		-	-	-	-	-	-	-	-
Chlorophyll A - Welschmeyer method	0.80	2.07		-	-	-	-	-	-	-	-
Chlorophyll A				-	0.93	-	-	2.3	-	0.66	0.85
Pheophytin A				-	-	-	-	0.8	-	-	-
ORGANICS											
Biochemical Oxygen Demand				-	-	-	-	-	-	-	-
Disolved Organic Carbon	8.1	0.5		-	-	-	-	-	-	-	-
Source	AECOM 2013 Sandy Lake and East Preston Sampling Program	AECOM 2013 Sandy Lake and East Preston Sampling Program		DFO's Synoptic Water Quality Study of Fifty Lakes in the Halifax, NS Metro Area on 14 April 1980						DFO's Synoptic Water Quality Survey of Selected Halifax Regional Municipality Lakes on 28-29 March 2000	

Sample Name	Sandy Lake							Marsh-Lake	Marsh Lake Outlet		
Lake Name	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Sandy Lake	Marsh Lake	Marsh Lake	Marsh Lake	Marsh Lake
Easting	444574	444574	444574	unknown	unknown	444590	445640	445640	445640		
Northing	4953566	4953566	4953566	unknown	unknown	4955417	4955193	4955193	4955193		
Sampling Date	2-Sep-98	2-Sep-98	2-Sep-98	1/1/2000	1/1/2000	25-Jul-07	27-Aug-13	15-Nov-13	20-May-14		
Sampled By / Data Source	NSE	NSE	NSE	DFO	DFO	NSE	AECOM	AECOM	AECOM		
FIELD DATA											
Secchi Depth	3.05	3.05	3.05	-	-	-	-				
Temp	22	22	22	5.1	5.7	-	19.20	5.60	-		
Dissolved Oxygen	3	3	3	-	-	-	4.10	4.18	-		
pH	5.70	6.20	5.90	5.81	5.65	6.40	6.10	6.10	-		
Specific Conductance	146	125	130	132.1	133	119	111	94	-		
TDS	-	0.069	-	-	-	0.073	0.07	0.06	-		
Salinity	-	-	-	-	-	-	-				
INORGANICS											
Total Alkalinity (as CaCO3)	2	3	2.8	0.21	0.42	3.8	-				
Dissolved Chloride (Cl)							30	28	44		
Colour	-	-	-	8	12	-	-				
Nitrite + Nitrate	0.09	<0.01	0.05	-	-	<0.01	<0.05				
Nitrite (N)	-	-	-	-	-	-	<0.05	<0.05	<0.05		
Nitrogen (Ammonia Nitrogen)	-	0.01	0.03	0.021	0.019	0.02	<0.05	<0.05	<0.05		
Nitrogen TKN - water (as N)	-	-	-	-	-	-	0.7	0.7	0.9		
Total Nitrogen	0.32	0.2	0.22	0.1	0.17	0.2	-				
Total Organic Carbon	3.9	4.4	4.4	-	-	5.8	-				
Orthophosphate (as P)	0.004	<0.001	<0.001	-	-	<0.005	<0.01	<0.01	<0.01		
pH (Lab)	-	-	-	-	-	-	-				
Total Calcium (Ca)	3.92	3.9	3.92	4	3.9	3.5	-				
Total Magnesium (Mg)	0.96	0.93	0.92	0.99	0.97	0.8	-				
Total Phosphorus	0.012	0.001	0.005	0.008	0.008	0.007	0.012	0.010	0.022		
Total Phosphorus (1M depth)	-	-	-	-	-	-	-				
Total Phosphorus (Deep)	-	-	-	-	-	-	-				
Total Potassium (K)	0.7	0.8	0.9	0.66	0.67	0.8	-				
Total Sodium (Na)	19.5	17	18.1	17.7	18.4	15.6	-				
Reactive Silica (SiO2)	3.2	2.1	2.6	-	-	2	-				
Total Suspended Solids	-	-	-	-	-	-	<2	<5	<2		
Dissolved Sulphate (SO4)	9.8	10	9.8	9.07	8.97	7.2	-				
Lab Turbidity (NTU)	-	-	-	-	-	-	-				
Conductivity (uS/cm)	-	-	-	-	-	-	-				
Calculated Parameteres											
Anion Sum	-	-	-	-	-	-	-				
Bicarb. Alkalinity (calc. as CaCO3)	-	-	-	-	-	-	-				
Calculated TDS	-	-	-	-	-	-	-				
Carb. Alkalinity (calc. as CaCO3)	-	-	-	-	-	-	-				
Cation Sum	-	-	-	-	-	-	-				
Hardness (CaCO3)	-	-	-	-	-	-	-				
Ion Balance (% Difference)	-	-	-	-	-	-	-				
Langelier Index (@ 20C)	-	-	-	-	-	-	-				
Langelier Index (@ 4C)	-	-	-	-	-	-	-				
Saturation pH (@ 20C)	-	-	-	-	-	-	-				
Saturation pH (@ 4C)	-	-	-	-	-	-	-				
Metals (ICP-MS)											
Total Aluminum (Al)	-	-	-	-	-	-	-				
Total Antimony (Sb)	-	-	-	-	-	-	<2				
Total Arsenic (As)	-	-	-	-	-	-	<2				
Total Barium (Ba)	-	-	-	-	-	-	14				
Total Beryllium (Be)	-	-	-	-	-	-	<2				
Total Bismuth (Bi)	-	-	-	-	-	-	<2				
Total Cadmium (Cd)	-	-	-	-	-	-	<0.017				
Total Chromium (Cr)	-	-	-	-	-	-	<1				
Total Cobalt (Co)	-	-	-	-	-	-	<1				
Total Copper (Cu)	0.01	<0.01	0.01	1.1	2.3	<0.002	3				
Total Lead (Pb)	-	-	-	0.25	0.3	-	<0.5				
Total Molybdenum (Mo)	-	-	-	<0.05	<0.05	-	<2				
Total Nickel (Ni)	-	-	-	2.2	2.1	-	<2				
Total Selenium (Se)	-	-	-	<1	<1	-	<1				
Total Silver (Ag)	-	-	-	<0.01	<0.01	-	<0.1				
Total Thallium (Tl)	-	-	-	<0.005	<0.005	-	<0.1				
Total Tin (Sn)	-	-	-	-	-	-	<2				
Total Titanium (Ti)	-	-	-	1.1	1	-	<2				
Total Uranium (U)	-	-	-	0.012	0.014	-	<0.1				
Total Vanadium (V)	-	-	-	0.27	0.23	-	<2				
Total Zinc (Zn)	0.04	<0.01	0.01	8.3	10.6	0.007	<5				
MICROBIOLOGICAL											
Total coliform	-	-	-	-	-	-	1986	299	1414		
E. Coli	-	-	-	-	-	-	20	5	1		
Fecal Coliform	-	-	-	-	-	-	-				
Fecal Coliform	-	-	-	-	-	-	-				
Chlorophyll A - Acidification method	-	-	-	-	-	-	<0.5

Sample Name				Uplands Park WWTF																															
Lake Name	CCME Guideline (RWQ)	CCME Guidelines (FWAL)	Units	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Easting	-	-	-	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown
Northing	-	-	-	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown
Sampling Date	-	-	dd-mmm-yy	10-Jan-12	26-Jan-12	10-Feb-12	7-Mar-12	29-Mar-12	11-Apr-12	25-Apr-12	28-May-12	12-Jun-12	26-Jun-12	6-Jul-12	10-Jul-12	17-Jul-12	9-Aug-12	11-Sep-12	5-Oct-12	30-Oct-12	14-Nov-12	27-Nov-12	11-Dec-12	7-Jan-13	21-Jan-13	14-Feb-13	4-Mar-13	19-Mar-13	8-Apr-13	23-Apr-13	14-May-13	4-Jun-13	18-Jun-13	3-Jul-13	23-Jul-13
Sampled By / Data Source	-	-	-	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water	Halifax Water
FIELD DATA																																			
Secchi Depth	1.20	-	Meters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temp	-	-	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen	-	5.5-9.5	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	5.0-9.0	6.5-9	pH	6.77	7.05	7.07	6.85	6.82	6.61	6.50	6.37	6.33	7.02	6.51	6.59	6.51	6.62	6.52	6.49	6.35	6.39	6.76	6.53	6.64	6.51	6.30	6.54	6.66	6.71	6.14	6.23	6.35	6.66	6.06	6.28
Specific Conductance	-	-	uS/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TDS	-	-	g/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Salinity	-	-	ppt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INORGANICS																																			
Total Alkalinity (as CaCO3)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Chloride (Cl)																																			
Colour	-	-	TCU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite + Nitrate	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (N)	-	60.00	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen (Ammonia Nitrogen)	-	19.00	mg/L	2.20	3.30	9.60	6.20	6.80	8.40	5.10	5.80	4.40	17.00	3.30	7.20	5.30	12.00	2.10	3.70	5.10	5.90	13.00	2.10	7.00	3.60	4.00	5.00	3.60	6.90	2.00	1.10	3.70	2.60	2.00	-
Nitrogen TKN - water (as N)	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Nitrogen	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orthophosphate (as P)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	5.0-9.0	6.5-9	pH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Calcium (Ca)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Magnesium (Mg)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	-	-	mg/L	1.20	1.50	3.20	1.90	2.80	4.20	2.70	3.90	3.90	4.40	3.20	3.60	4.70	3.60	1.70	2.40	3.20	2.00	2.80	0.94	2.80	1.30	2.20	2.40	1.90	2.30	3.60	1.50	4.40	2.40	1.70	-
Total Phosphorus (1M depth)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus (Deep)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Potassium (K)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Sodium (Na)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reactive Silica (SiO2)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Suspended Solids	-	-	mg/L	14.00	16.00	31.00	10.00	15.00	11.00	35.00	57.00	15.00	13.00	12.00	12.00	16.00	11.00	37.00	10.00	7.20	44.00	9.30	13.00	5.80	13.00	5.00	4.60	5.00	4.40	5.20	12.00	26.00	19.00	9.20	-
Dissolved Sulphate (SO4)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Turbidity (NTU)	50.00	-	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity (uS/cm)	-	-	µS/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calculated Parameteres																																			
Anion Sum	-	-	me/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bicarb. Alkalinity (calc. as CaCO3)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calculated TDS	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carb. Alkalinity (calc. as CaCO3)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	-	-	me/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (CaCO3)	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ion Balance (% Difference)	-	-	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (@ 20C)	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Langelier Index (@ 4C)	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (@ 20C)	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saturation pH (@ 4C)	-	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (ICP-MS)																																			
Total Aluminum (Al)	-	5-100	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Antimony (Sb)	-	5-100	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Arsenic (As)	-	5.00	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Barium (Ba)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Beryllium (Be)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Bismuth (Bi)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Cadmium (Cd)	-	0.02	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Chromium (Cr)	-	1.00	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Cobalt (Co)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Copper (Cu)	-	2.0-4.0	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Lead (Pb)	-	1.0-7.0	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Molybdenum (Mo)	-	73.00	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Nickel (Ni)	-	25-150	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Selenium (Se)	-	1.00	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Silver (Ag)	-	0.10	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Thallium (Tl)	-	0.80	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Tin (Sn)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Titanium (Ti)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Uranium (U)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Vanadium (V)	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Zinc (Zn)	-	30.00	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICROBIOLOGICAL																																			
Total coliform	-	-	MPN/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. Coli	-	-	MPN/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fecal Coliform	-	400	MPN/100mL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fecal Coliform	-	-	CFU/100 ml	< 100	< 100	< 100	< 100	< 100	100.00	< 100	100.00	< 100	3400.00	< 100	< 100	< 100	< 100	100.00	< 100	< 100	300.00	600.00	< 100	< 10	100.00	< 10	10.00	10.00	< 10	< 10	< 10	300.00	< 100	< 10	< 10
Chlorophyll A - Acidification method	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll A - Welschmeyer method	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorophyll A	-	-	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pheophytin A	-	-	µg chl eq/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORGANICS																																			
Biochemical Oxygen Demand	-	-	(mg/L)	5.00	7.10	17.00	7.70	11.00	15.00	7.00	8.40	6.00	13.00	5.00	5.90	5.90	34.00	7.80	< 5.0	7.50	12.00	18.00	4.40	5.60	6.70	2.90	5.10	5.00	6.50	< 5.0	< 5.3	7.40	< 5.0	< 5.0	-
Disolved Organic Carbon	-	-	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Source	-	-	-	Halifax Water 's 2012/2013 Effluent Data																															