

2016 Potable Water Quality Analysis

PARAMETER	Canadian Guideline Limit	Reason Guideline Established		PW77-2 Well 1/2			PW64-3 Well 3			PW99-6 Well 6/7			PW99-8 Well 8			PW07-9 Well 9			PW75-10 Well 10		
				Jan	May	Sept	Jan	May	Sept	Jan	May	Sept	Jan	May	Sept	Jan	May	Sept	Jan	May	Sept
pH	6.5-8.5	AO	Conventional Parameters in Water	7.35	7.18	7.41	7.40	7.27	7.57	7.93	7.58	7.91	7.97	7.61	7.94	7.95	7.65	7.96	7.76	7.50	7.80
Conductivity (uS/cm)	-			102	120	109	108	106	98	123	119	121	105	104	102	134	131	133	112	107	106
True Colour (Col. Unit)	15	AO		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Turbidity (NTU)	1.0	OG		<0.1	<0.1	<0.1	<0.1	<0.1	0.40	<0.1	0.93	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.10
Hardness	-		Dissolved Anions in Water	44.1	52.2	48.0	47.3	48.0	43.8	52.1	55.2	57.2	45.7	49.7	47.5	55.5	59.5	62.7	44.4	48.6	48.10
Total Dissolved Solids	500	AO		42	69	70	50	53	59	56	59	53	44	48	44	66	74	83	27	52	52.00
Alkalinity as CaCO3	-			43.0	43.0	*	47.3	42.0	*	52.0	47.0	*	45.0	43.0	*	55.0	51.0	*	49.0	44.0	*
Chloride	250	AO		1.39	4.1	1.3	1.87	1.47	0.65	0.85	0.83	0.96	0.68	0.77	0.55	1.27	1.44	1.15	1.07	0.91	0.65
Sulphate	500	AO		7.1	7.1	7.00	7.1	7.4	6.6	9.7	9.5	8.7	7.2	7.2	6.7	9.9	9.9	9.5	6.8	6.4	5.7
Ammonia	-			0.031	0.022	0.020	<0.020	<0.020	<0.020	<0.020	0.021	<0.020	<0.020	0.032	0.022	<0.020	<0.020	0.039	<0.020	0.022	<0.020
Nitrate	10	MAC		0.225	0.387	0.200	0.309	0.278	0.160	0.135	0.142	0.168	0.140	0.175	0.133	0.207	0.245	0.200	0.153	0.150	0.107
Nitrite	3.2	MAC		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoride	1.5	MAC		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aluminum	0.1	OG		<0.005	<0.005	<0.005	<0.005	0.006	<0.005	0.006	0.007	0.0070	0.010	0.010	0.0110	0.007	0.011	0.006	<0.005	0.0060	<0.005
Antimony	0.006	MAC		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001
Arsenic	0.01	MAC		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0017	0.0020	0.0016	0.0007	0.0006	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Barium	1.0	MAC		0.011	0.012	0.011	0.012	0.012	0.010	0.011	0.012	0.013	0.009	0.010	0.009	0.011	0.011	0.011	0.009	0.010	0.009
Boron	5.0	MAC		0.006	0.013	0.018	0.006	0.014	0.016	0.006	0.013	0.014	0.005	0.012	0.013	0.005	0.012	0.013	0.008	0.016	0.017
Cadmium	0.005	MAC		<0.00001	0.00002	0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Calcium	-			15.1	18.3	17.1	16.3	17.6	15.6	18.0	20.6	20.5	16.0	18.1	17.4	19.5	23.2	22.5	15.2	18.6	17.1
Chromium	0.05	MAC		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Copper	1.0	AO	0.0012	0.0039	0.0013	0.0032	0.0052	0.0035	0.0012	0.0018	0.0011	0.0006	0.0009	0.0007	0.0006	0.0007	0.0009	0.0031	0.0037	0.0047	
Iron	0.3	AO	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Lead	0.01	MAC	<0.0001	0.0002	<0.0001	0.0002	0.0002	0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0002	<0.0001	<0.0001	0.0002	<0.0001	
Magnesium	-		1.55	1.77	1.69	1.57	1.62	1.44	1.71	1.89	1.90	1.39	1.46	1.44	1.65	1.78	1.78	1.56	1.69	1.60	
Manganese	0.05	AO	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Mercury	0.001 mg/L	MAC	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	
Nickel	-		<0.0002	<0.0002	<0.0002	0.0007	0.0006	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Phosphorus	-		0.006	<0.02	0.003	0.008	0.004	0.003	0.028	0.022	0.017	0.010	0.005	0.006	0.007	0.006	0.004	0.008	0.005	0.005	
Potassium	-		0.67	0.84	0.78	0.62	0.75	0.69	0.77	0.95	0.88	0.57	0.68	0.69	0.63	0.75	0.73	0.64	0.76	0.73	
Selenium	0.01	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Silicon	-		3.8	4.6	4.4	3.4	4.1	3.8	3.8	5.0	4.4	3.1	3.8	3.9	3.5	4.3	3.9	3.6	4.7	4.1	
Silver	-		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Sodium	200	AO	2.32	2.80	2.36	1.82	1.82	1.69	1.60	1.70	1.66	1.38	1.45	1.50	1.60	1.70	1.75	2.00	2.19	2.16	
Uranium	0.02	MAC	0.00004	0.00004	0.00003	0.00004	0.00004	0.00004	0.00013	0.00012	0.00012	0.00004	0.00003	0.00003	0.00006	0.00006	0.00006	0.00006	0.00005	0.00005	
Zinc	5.0	AO	<0.004	0.009	<0.004	0.004	0.009	0.016	<0.004	0.038	0.004	<0.004	0.004	0.005	0.005	0.006	0.006	<0.004	<0.004	0.005	

NOTES:
Measurements are in mg/L unless otherwise indicated
Empty fields were not contained in analytical record.
MAC = Maximum Acceptable Concentration
AO = Aesthetic Objective
OG = Operational Guideline
GBHNR = Great Blue Heron Nature Reserve
Exceeds limits
* = data not available