

	Entering Distribution from Water Plant	RANDOM Field sampling		1- Random Bacterial sample weekly	Raw Water cubic meters produced	Water hardness March & Septembr mg/l No Guideline 1mg/l=0.0584 grains/gallon	IRON mg/l Guideline: <0.3	MANGANESE mg/l Guideline: <0.05	SODIUM mg/l Guideline: <200	pH 7.0-10.0	Total alkalinity mg/l
	Grab Free Chlorine at reservoir mg/L 0.20 - 4.00 mg/l	Free Chlorine 0.10 - 4.00 mg/L	TURBIDITY maximum 5.00	total coliform and fecal coliform ABSENT OR PRESENT							
<b>Jan-19</b>											
Total					10660	<b>202</b>	<b>&lt;.03</b>	<b>&lt;.01</b>	<b>5</b>	<b>8.13</b>	<b>145</b>
min	0.98	0.68	0.09	absent	261						
max	1.18	1.00	0.25		440						
average	1.06	0.89	0.14		344						
<b>Feb-19</b>											
Total					10113	N/A	N/A	N/A	N/A	N/A	N/A
min	0.94	0.90	0.11	absent	250						
max	1.15	1.05	0.21		479						
average	1.04	0.99	0.15		361						
<b>Mar-19</b>											
Total					10596	N/A	N/A	N/A	N/A	N/A	N/A
min	0.82	0.87	0.07	absent	253						
max	1.24	1.07	0.10		501						
average	1.05	1.01	0.08		342						
<b>Apr-19</b>											
Total					10777	N/A	N/A	N/A	N/A	N/A	N/A
min	0.94	0.91	0.07	absent	263						
max	1.15	1.03	0.15		502						
average	1.07	0.98	0.10		359						
<b>May-19</b>											
Total					14802	N/A	N/A	N/A	N/A	N/A	N/A
min	0.88	0.75	0.07	absent	263						
max	1.13	1.03	0.11		812						
average	0.99	0.91	0.10		477						
<b>Jun-19</b>											
Total					19258	N/A	N/A	N/A	N/A	N/A	N/A
min	0.87	0.73	0.06	absent	387						
max	1.29	1.20	0.13		977						
average	1.07	0.95	0.10		642						
<b>Jul-19</b>											
Total					18186	<b>167</b>	<b>&lt;.03</b>	<b>&lt;.01</b>	<b>7</b>	<b>8.11</b>	<b>129</b>
min	0.86	0.84	0.09	absent	340						
max	1.24	1.06	0.12		1003						
average	1.06	0.91	0.10		587						
<b>Aug-19</b>											
Total					22284	N/A	N/A	N/A	N/A	N/A	N/A
min	0.92	0.88	0.08	absent	435						
max	1.27	1.13	0.11		1074						
average	1.05	0.97	0.09		719						
<b>Sep-19</b>											
Total					14963	N/A	N/A	N/A	N/A	N/A	N/A
min	0.99	0.96	0.09	absent	303						
max	1.17	1.08	0.24		679						
average	1.06	1.03	0.14		499						
<b>Oct-19</b>											
Total					11316	N/A	N/A	N/A	N/A	N/A	N/A
min	1.04	0.92	0.10	absent	236						
max	1.16	1.09	0.15		552						
average	1.07	1.01	0.13		365						
<b>Nov-19</b>											
Total					10811	N/A	N/A	N/A	N/A	N/A	N/A
min	1.03	0.96	0.12	absent	224						
max	1.25	1.03	0.18		597						
average	1.14	1.00	0.15		360						
<b>Dec-19</b>											
Total					11590	N/A	N/A	N/A	N/A	N/A	N/A
min	1.11	1.04	0.07	absent	225						
max	1.22	1.10	0.18		523						
average	1.16	1.07	0.12		374						
<b>Jan-20</b>											
Total					11621	<b>205</b>	<b>&lt;0.03</b>	<b>&lt;0.01</b>	<b>6</b>	<b>8.11</b>	<b>150</b>
min	1.06	0.88	0.06	absent	209						
max	1.20	0.97	0.13		482						
average	1.13	0.91	0.11		375						
<b>Feb-20</b>											
Total					10978	N/A	N/A	N/A	N/A	N/A	N/A
min	1.03	0.80	0.03	absent	234						
max	1.28	1.17	0.17		555						
average	1.18	0.98	0.13		379						
<b>Mar-20</b>											
Total				ABSENT	11361	N/A	N/A	N/A	N/A	N/A	N/A
min	0.81	0.68	0.10		238						
max	1.34	0.99	0.15		465						
average	1.09	0.83	0.13		366						

Apr-20											
Total				ABSENT	13697	N/A	N/A	N/A	N/A	N/A	N/A
min	0.78	0.99	0.07		257						
max	2.05	1.97	0.23		910						
average	1.15	1.33	0.13		457						
May-20											
Total				ABSENT	17867	N/A	N/A	N/A	N/A	N/A	N/A
min	0.75	0.95	0.06		411						
max	1.78	1.27	0.09		907						
average	1.11	1.07	0.07		576						
Jun-20											
Total				ABSENT	19323	N/A	N/A	N/A	N/A	N/A	N/A
min	0.68	0.60	0.12		483						
max	1.26	1.23	0.05		926						
average	1.07	0.96	0.07		641						
Jul-20											
Total											
min											
max											
average											
Aug-20											
Total						N/A	N/A	N/A	N/A	N/A	N/A
min											
max											
average											
Sep-20											
Total						N/A	N/A	N/A	N/A	N/A	N/A
min											
max											
average											
Oct-20											
Total						N/A	N/A	N/A	N/A	N/A	N/A
min											
max											
average											
Nov-20											
Total						N/A	N/A	N/A	N/A	N/A	N/A
min											
max											
average											
Dec-20											
Total						N/A	N/A	N/A	N/A	N/A	N/A
min											
max											
average											

Free chlorine is the residual left in the water after at least 20 minutes of contact time. We are required to maintain this at a minimum of 0.30 mg/l by environment.

Ntu is the particles left in the water. The plant must be below 0.30 Ntu and the distribution system must be below 5.00 Ntu.

Water harness tests are conducted 1 summer 1 winter.

We do 1 Bacti per week as per our approval requirements. As this is a free lab test conducted by the government through the Provincial Lab in Calgary we are limited to how many we can send in. It is population and pipeline sized based.

We do take an extra Bacti sample periodically as we are allowed.