



Entering Distribution from Water Plant	RANDOM Field sampling		1- Random Bacterial sample weekly total coliform and fecal coliform ABSENT OR PRESENT	Raw Water cubic meters produced		Water Hardness March & September 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	
	Free Chlorine 0.10 - 4.00 mg/L	NTU maximum 5.00										
Jan-17												
Grab Free Chlorine at reservoir mg/L 0.20 - 4.00 mg/l				10055	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.94	0.48	0.08	absent	259							min
	1.11	0.98	0.10		390							max
	1.02	0.85	0.09		324							average
Feb-17												
				9462	Total	192	<0.03	<0.01	14	8.09	135	
	0.73	0.92	0.07	absent	240							min
	1.14	1.02	0.16		448							max
	0.98	0.97	0.11		338							average
Mar-17												
				10046	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.75	0.89	0.11	absent	264							min
	1.14	0.99	0.16		417							max
	0.97	0.90	0.13		324							average
Apr-17												
				9851	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.89	0.76	0.13	absent	271							min
	1.19	0.95	0.16		429							max
	1.04	0.89	0.15		328							average
May-17												
				15037	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.87	0.69	0.13	absent	295							min
	1.18	1.01	0.19		743							max
	1.01	0.83	0.16		485							average
Jun-17												
				19371	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.93	0.88	0.11	absent	373							min
	1.20	1.06	0.15		936							max
	1.08	0.97	0.14		646							average
Jul-17												
				28383	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.85	0.85	0.08	absent	535							min
	1.27	1.04	0.12		1312							max
	1.06	0.96	0.10		916							average
Aug-17												
				28772	Total	155	<0.03	<0.01	4	8.13	114	
	0.83	0.93	0.13	absent	553							min
	1.25	1.11	0.19		1217							max
	1.10	0.99	0.15		928							average
Sep-17												
				21939	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.92	0.89	0.13	absent	358							min
	1.17	1.01	0.17		1205							max
	1.05	0.93	0.15		721							average
Oct-17												
				11728	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.94	0.86	0.10	absent	247							min
	1.17	1.06	0.14		615							max
	1.08	0.94	0.11		378							average
Nov-17												
				9904	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.94	0.89	0.12	absent	176							min
	1.17	1.07	0.15		482							max
	1.09	1.00	0.13		330							average
Dec-17												
				11333	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.96	0.98	0.12	absent	217							min
	1.27	1.18	0.16		531							max
	1.12	1.07	0.14		366							average
Jan-18												
				10161	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.87	0.82	0.09	absent	213							min
	1.19	1.05	0.21		481							max
	1.07	0.94	0.16		328							average
Feb-18												
				9123	Total	189	<0.3	<0.1	15	8.1	142	
	0.95	0.94	0.11	absent	196							min
	1.21	1.06	0.16		445							max
	1.08	1.03	0.13		326							average
Mar-18												
				9765	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.97	0.87	0.12	absent	229							min
	1.18	1.03	0.50		381							max
	1.09	0.96	0.25		315							average
Apr-18												
				9919	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.93	0.86	0.11	absent	220							min
	1.31	1.07	0.13		442							max
	1.10	0.99	0.12		328							average
May-18												
				20491	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.83	0.80	0.12	absent	340							min
	1.35	1.21	0.16		1170							max
	1.12	1.05	0.14		661							average
Jun-18												
				23157	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.93	0.94	0.09	absent	498							min
	1.31	1.18	0.23		1172							max
	1.14	1.06	0.15		772							average
Jul-18												
				26263	Total	165	<0.3	<0.1	5	8.01	118	
	0.93	0.83	0.05	absent	566							min
	1.21	1.07	0.21		1245							max
	1.06	0.97	0.13		847							average
Aug-18												
				27382	Total	N/A	N/A	N/A	N/A	N/A	N/A	
	0.87	0.83	0.09	absent	556							min
	1.29	1.08	0.13		1286							max
	1.07	0.97	0.11		883							average
Sep-18												
					Total	N/A	N/A	N/A	N/A	N/A	N/A	
					min							
					max							
					average							
Oct-18												
					Total	N/A	N/A	N/A	N/A	N/A	N/A	
					min							
					max							
					average							
Nov-18												
					Total	N/A	N/A	N/A	N/A	N/A	N/A	
					min							
					max							
					average							
Dec-18												
					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 hardness tests are conducted 1 summer 1 winter.
 We do 1 Bacti per week as per our 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.