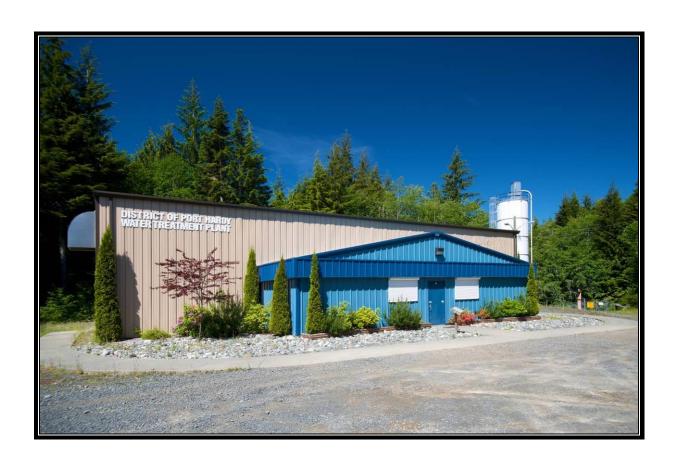


WATER TREATMENT PLANT & DISTRIBUTION SYSTEM



2019 Annual Operations Performance Report Facility Numbers 529 & 155

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OVERVIEW

Port Hardy, with a population of 4,132 residents and over 5,000 connected to the infrastructure is located at the northern end of Vancouver Island. In May 2000 the water treatment plant was commissioned and established Port Hardy's reputation for having some of British Columbia's best water quality.

Port Hardy's source water is the Tsulquate River. The water from this river is tinted brown from tannins and other leachates. Port Hardy's Water Treatment Plant uses a Dissolved Air Flotation (DAF) system which is very effective in treating highly colored water. Treatment is achieved using ISOPAC 6 and Soda Ash to remove the color, particles, sediment and organics that are present. A filter aid, Hydrofloc 400 is added in trace amounts after the DAF treatment and prior to the filters to improve coagulation of fine particles. Filtration is done through a mixed media consisting silica sand and anthracite. Lime slurry, carbon dioxide and sodium hypochlorite are injected post filtration for alkalinity, pH adjustment and disinfection.

In 2019, the plant continued to produce a very high level of treatment providing excellent water quality to the District of Port Hardy.

PERMIT TO OPERATE

The Port Hardy water treatment plant is a Level III facility as deemed by the Environmental Operators Certification Program (EOCP), certification number 529. The distribution system is a Level III system with a certification number of 155.

CERTIFIED OPERATORS

The Operational Permit from Vancouver Island Health Authority Operational requires that a certified operator is employed to match the Water Treatment Plant Certification, a level III plant. The District currently employs a Level IV operator and two, Level III operators. The District also employs a Level III Water Distribution Operator.

Operator	Title	Certification
Joe Jewell	Utilities Supervisor	WT IV, WD III, WWT II, WWC I
Justin Reusch	Chief Operator	WT III, WD II, WWT II
Roland LeFort	Operator	WWT III, WT III
Cory Henschke	Operator	WWT I, WD II
Robert Cousins	Operator	WT I, WWT I, Cross Connection

OPERATIONAL HIGHLIGHTS

WATER TREATMENT PLANT

Throughout 2019, there were times where due to heavy rains and high river colour events, that the water treatment process was upset. In these events, the plant is taken offline and no water is pumped to the reservoir. Water is only pumped to the reservoirs once the treatment plant's process quality is restored. This will result in lower than desired reservoir levels but quality will not be compromised.

CAPITAL PROJECTS

Many capital projects were undertaken in 2019 including:

- New air compressor heads were purchased to replace the original equipment
- New chemical feed pumps were purchased for both ISOPAC 6 and Soda Ash. The new pumps were upgraded in size and each new pump replaces two old pumps. Now, one pump will be used as a duty pump and a spare on standby
- A new particle counter was purchased for the DAF
- A tee and check valve were installed in Reservoir #1. This allows for operators to perform filter backwashes while the plant is offline

Additional highlights:

- No violations to permit in 2019
- Quarterly samples for THMs and HAAs all returned within acceptable limits
- All bacteriological testing came back within expected parameters
- A Stage 1 water use restriction as per Port Hardy Water Conservation Bylaw No. 06-2005
- Investigation of water leaks in the Upper Carnarvon/Carnarvon Place area are ongoing. Several locations have been tested and repaired but further work and leak detection equipment is required
- Chlorine injection lines were repaired at the Fort Rupert Reservoir in September
- All emergency generators were serviced and load bank tested this year as part of annual maintenance.
 Some minor follow-up maintenance was required on some units but all generators are running reliably

WATER DISTRIBUTION SYSTEM

In 2019, the District of Port Hardy commenced on a major upgrade to the water distribution system in the Storey's Beach area. A new 2000 cubic meter (m³) reservoir was constructed on Fort Rupert Road and 3000 meters of distribution pipe was replaced. The replacement distribution pipe was also increased in size from 150mm and 250mm to 300mm and 350mm. Additional hydrants were also installed ensuring a fire flow of 150 Litres/second where required. The Fort Rupert Reservoir site is equipped with backup power generation and chlorine disinfection booster pumps. The reservoir level is controlled by an altitude control valve which keeps the tank at a predetermined level within 1.5 meters. A rolling diaphragm pressure reducing valve is also installed on site to regulate the pressure in the event the reservoir is offline. The entire site can be monitored remotely from the water treatment.

CAPITAL PROJECTS

In 2019, the following projects were completed

- A new parking area was built for the Hydro excavation truck. This permanent bay will keep the truck's sensitive electronics from failing and reduces the cost of maintenance and less downtime
- A new controller was installed on the altitude control valve at Fort Rupert Reservoir. This will keep the reservoir from filling too quickly and reduce strain on the rest of distribution system
- Water main clearing continued to keep our infrastructure accessible
- A new trash rack and level system were purchased for the Kains Lake Dam
- Revisions to the mapping continued in 2019. The new maps have been delivered to the operators and edits and additions are underway

Additional Highlights:

- The Storey's Beach PRV was brought online in January
- The emergency power generator was commissioned at Fort Rupert Reservoir
- An air valve was repaired on Duval Forest Service Road
- Water mainline valves are being located around the District. Many of these valve boxes are below
 grade and are difficult to find and get filled with debris. Utilities staff have been cleaning out the valve
 boxes, and bringing them up to grade with riser rings in order to keep them clean and easier to locate in
 an emergency
- Several water leaks were addressed in the system this year both on District land and private. Letters are sent to property owners stating that they must be addressed
- All fire hydrants were "B" Serviced this year

CROSS CONNECTION CONTROL

A formal Cross Connection Control program created by Maintenance Tracking Systems Inc (MTS) was presented to the District of Port Hardy in late 2010. Currently, backflow preventers are installed in all high risk areas of the treatment plants, liftstations with a washdown hose, public sani dumps and public gardens.

WATER WISE PROGRAM CONTINUATION

A total of 178 meters are being read including commercial users and multi-family dwellings. All new homes and constructions will have meter setters installed as part of this program. Continuing public education around proposed metering/rate changes and general information on water wise initiatives was conducted and will be ongoing until all users are metered. In 2016, new watering restrictions as per Port Hardy Water Conservation Bylaw No. 06-2005 were adopted. As part of the water system upgrade in 2018, water meter setters were installed on all single-family dwellings on Beaver Harbour Road as new service lines were run to the property line.

In 2019, 6 new meters were installed on commercial properties and 4 faulty meters were replaced.

WATERSHED PROTECTION PLAN

The District of Port Hardy has taken steps to implement a watershed protection plan. The purpose of this is to create a plan that guides users in the best management and preservation of the Tsulquate River and Kains Lake watershed as a drinking water source for the District of Port Hardy. The plan will develop a public awareness, identify stakeholders, increase knowledge and public awareness of the watershed and develop procedures for an emergency response.

	Water Treatment Plant / Distribution Testing January February March April May June July August September October November December Total														
	January	February	March	April	May	June	July	August	September	October	November	December	Total		
Raw Water pH	26	24	26	26	27	25	27	26	26	27	25	27	312		
Reservoir Water pH Daily Grab Sample or Continuous 6.5 - 8.5	31	28	31	30	31	30	31	31	30	31	30	31	365		
Colour (Reservoir) AO: <= 15 TCU	26	24	26	26	27	25	27	26	27	27	25	27	313		
Free Chlorine Residual (Reservoir) Daily Grab Sample or Continuous	31	28	31	30	31	30	31	31	30	31	30	31	365		
Free Chlorine Residual Distribution Grab Sample	42	44	42	42	45	42	44	44	42	44	42	42	515		
Turbidity (Distribution) Grab Samples	42	44	42	42	45	42	44	44	42	44	42	42	515		
Turbidity (Filter) Grab Sample or Continuous <= 0.3 NTU in at least 95%; never > 1.0 NTU	31	28	31	30	31	30	31	31	30	31	30	31	365		
Turbidity (Reservoir) Daily Grab Sample or Continuous 1 NTU Maximum in finished water	31	28	31	30	31	30	31	31	30	31	30	31	365		
Escherichia Coli (<i>E.coli</i>) 11 per month Distribution, 1 Raw MAC: 0 CFU/100mL	12	12	12	12	12	12	14	12	12	12	12	12	146		
Total Coliforms 11 per month Distribution, 1 Raw MAC: 0 CFU/100mL	12	12	12	12	12	12	14	12	12	12	12	12	146		
Chemical and Physical Parameter Tests Once every 5 years													0		
Trihalomethanes & Haloacetic Acids (THMs & HAAs) Quarterly <0.100 mg/L annual average	1			1			1			1			4		
Monthly Report 15 th of the following month	1	1	1	1	1	1	1	1	1	1	1	1	12		
Annual Report Before January 31 st	1												1		
Permit Violations	0	0	0	0	0	0	0	0	0	0	0	0	0		

Workplace Metrics														
January February March April May June July August September October November December Total														
Safety Meetings	1	1	1	1	1	1	1	1	1	1	1	1	12	
Worksite Inspections	1	1	1	1	1	1	1	1	1	1	1	1	12	
Kain's Lake Dam Inspections	2	2	2	2	8	6	8	2	7	6	4	2	51	
Water Service Locates	2	4	2	2	7	2	40	0	0	2	2	2	65	
Water Service Repairs	1	2	1	1	7	0	2	0	0	0	4	2	20	
Water Main Repairs	0	0	0	0	0	0	0	0	0	0	0	0	0	
BC One Calls	8	2	0	2	4	34	10	2	6	4	2	1	75	
PRV Inspections	0	0	7	0	7	0	0	0	7	0	0	0	21	
ERP Exercises	0	0	0	0	0	0	0	0	0	0	0	0	0	
Air Valve Inspections	1	0	0	0	6	0	0	0	0	0	1	0	8	
Mainline Valve Locates/Inspections	4	4	4	6	6	4	4	0	0	0	0	0	32	
Hydrant A - Services	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hydrant B - Services	0	0	0	0	34	106	0	0	23	29	21	0	213	

RAW AND TREATED WATER PRODUCTION

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Raw Water Pumped in ML	117	137	132	114	130	132	145	146	136	137	131	135	1591
Treated Water Production in ML	116	133	129	111	127	127	139	141	132	133	128	135	1549
Rainfall in mm	225	28	43	110	16.8	43.6	95.6	56.4	104.6	183	175.2	281.2	1363
Backwashes	36	31	34	34	36	34	36	38	36	37	32	35	419

CHEMICAL USAGE

	January	February	March	April	May	June	July	August	September	October	November	December	Total
ISOPAC 6 Coagulant in kg	3533	2744	2396	2595	1630	2059	3581	3603	4606	5436	4790	5027	42000
Soda Ash in kg	1725	1226	1180	1158	817	726	1407	1521	1612	2020	1861	1816	17070
Filter Aid (LT20) in kg	0.78	0.97	0.94	0.74	0.81	0.82	0.90	0.89	0.86	0.89	0.88	0.75	10.22
Salt for Chlorine Generator in kg	360	400	540	360	380	394	620	860	740	1120	660	900	7334
Liquid Sodium Hypochlorite 12% in kg	20	0	0	0	0	0	0	0	0	0	0	151	171
Lime in kg	1831	1652	1755	1913	1976	1874	1956	1912	1690	1670	1579	1920	21727
Carbon Dioxide in kg	2277	2368	2477	2385	2680	2987	3017	2247	3072	2923	2134	82	28649

FILTERED WATER QUALITY

Month	Filt	er 1	Filt	er 2	Filt	er 3	Filt	er 4
Wionu	Avg	Max	Avg	Max	Avg	Max	Avg	Max
January	0.03	0.29	0.04	0.29	0.03	0.29	0.02	0.29
February	0.03	0.29	0.04	0.29	0.04	0.29	0.03	0.29
March	0.03	0.29	0.03	0.29	0.04	0.29	0.03	0.29
April	0.03	0.29	0.03	0.29	0.03	0.29	0.06	0.29
May	0.03	0.29	0.03	0.29	0.02	0.29	0.02	0.29
June	0.02	0.29	0.02	0.29	0.04	0.29	0.02	0.29
July	0.04	0.17	0.03	0.29	0.03	0.24	0.02	0.22
August	0.03	0.29	0.03	0.29	0.04	0.29	0.03	0.29
September	0.03	0.29	0.03	0.29	0.04	0.25	0.03	0.19
October	0.03	0.29	0.03	0.29	0.04	0.29	0.03	0.29
November	0.03	0.29	0.03	0.29	0.03	0.29	0.03	0.29
December	0.03	0.29	0.04	0.29	0.03	0.30	0.03	0.29
Average	0.03	0.28	0.03	0.29	0.03	0.28	0.03	0.28
Minimum	0.02	0.17	0.02	0.29	0.02	0.24	0.02	0.19
Maximum	0.04	0.29	0.04	0.29	0.04	0.30	0.06	0.29

RESERVOIR EFFLUENT

Month	Flow (m ³ /hour)		nlorine :/L)	p.	Н	Turbidity (NTU)
Wioitui	Avg	Avg	Max	Avg	Max	Avg
January	130	1.0	1.1	7.4	9.0	0.12
February	192	1.1	1.2	7.4	7.7	0.10
March	151	1.0	1.1	7.3	7.8	0.16
April	140	1.0	1.8	7.3	7.9	0.08
May	151	0.9	1.8	7.1	7.9	0.07
June	155	0.9	1.1	7.3	7.9	0.06
July	166	0.9	1.0	7.0	7.2	0.12
August	168	1.0	1.1	7.2	7.4	0.09
September	160	1.0	1.1	7.4	7.5	0.09
October	161	1.0	1.1	7.5	7.5	0.09
November	157	1.0	1.1	7.4	7.5	0.09
December	167	1.0	1.1	7.4	7.6	0.09
Avg	158	1.0	1.2	7.3	7.7	0.10
Min	130	0.9	1.0	7.0	7.2	0.06
Max	192	1.1	1.8	7.5	9.0	0.16

Note: Data from the above tables are accumulated from online instrumentation and SCADA trending. Maximum values can be influenced by cleaning, calibrating and flushing of online instrumentation which at that time does not reflect the actual quality of the water.

DISTRIBUTION WATER QUALITY AND BACTERIOLOGICAL RESULTS

	Janu	iary	-			Febr	uary	-				Ма	ırch	-			
Dis	tribution	n Samp	ling		Dis	tribution	n Samp	ling			Dis	tributio	n Sampl	ling			
Location	Date	Free Chlorine mg/L	Turbidity NTU	pH	Location	Date	Free Chlorine mg/L	Turbidity NTU	pН		Location	Date	Free Chlorine mg/L	Turbidity NTU	pН		
Chatham Avenue	01/08/19 01/15/19 01/22/19	0.5 0.6 0.6	0.14 0.13 0.16	7.6 7.9 7.8	Chatham Avenue	02/05/19 02/12/19 02/19/19	0.8 0.7 0.8	0.13 0.17 0.18	7.8 7.8 7.7		Chatham Avenue	03/05/19 03/12/19 03/19/19	0.6 0.5 0.5	0.17 0.14 0.13	7.8 7.7 7.7		
Peel Street	01/29/19 01/08/19 01/15/19	0.6 0.8 0.9 0.9	0.21 0.14 0.12	7.2 7.6 7.6 7.6	Peel Street Liftstation	02/26/19 02/05/19 02/12/19	0.7 1.0 0.8 0.9	0.16 0.23 0.14	7.7 7.5 7.4 7.5		Peel Street	03/26/19 03/05/19 03/12/19	0.4 0.9 0.7 0.6	0.14 0.26 0.13	7.7 7.5 7.4 7.4		
Liftstation Airport Wastewater	01/22/19 01/29/19 01/08/19 01/15/19	0.9 0.7 0.8 0.7	0.26 0.18 0.13 0.16	7.5 7.5 7.7	Airport Wastewater	02/19/19 02/26/19 02/05/19 02/12/19	0.9 0.8 0.5 0.6	0.15 0.15 0.48 0.28	7.4 7.7 7.5		Liftstation Airport Wastewater	03/19/19 03/26/19 03/05/19 03/12/19	0.5 0.4 0.4	0.13 0.14 0.46 0.61	7.4 7.5 7.7 7.4		
Treatment Plant	01/22/19	0.6	0.32	7.6	Treatment Plant	02/19/19 02/26/19 02/05/19	0.6 0.5 1.0	0.61 0.30 0.16	7.6 7.5 7.6		Treatment Plant	03/19/19 03/26/19 03/05/19	0.6 0.5 1.0	0.16 0.24 0.11	7.5 7.5 7.5		
Public Works Yard	01/15/19 01/22/19 01/29/19	0.9 0.8 0.9	0.14 0.12 0.20	7.6 7.8 7.5	Public Works Yard	02/12/19 02/19/19 02/26/19	0.9 0.8 0.8	0.14 0.21 0.14	7.6 7.7 7.5		Public Works Yard	03/12/19 03/19/19 03/26/19	0.7 0.7 0.5	0.11 0.15 0.14	7.7 7.5 7.7		
Eagleview School	01/08/19 01/15/19 01/22/19 01/29/19	0.4 0.4 0.4 0.5	0.21 0.27 0.33 0.22	7.9 7.7 7.8 7.8	Eagleview School	02/05/19 02/12/19 02/19/19 02/26/19	0.6 0.5 0.4 0.5	0.14 0.19 0.19 0.22	7.8 7.8 7.7 7.7		Eagleview School	03/05/19 03/12/19 03/19/19 03/26/19	0.7 0.5 0.4 0.4	0.17 0.24 0.31 0.17	7.6 7.5 7.4 7.6		
Bear Cove Reservoir	01/08/19 01/15/19 01/22/19	0.8 0.8 0.7	0.14 0.14 0.15	7.6 7.6 7.6	Bear Cove Reservoir	02/05/19 02/12/19 02/19/19	0.8 0.9 0.8	0.15 0.18 0.17	7.6 7.5 7.6		Bear Cove Reservoir	03/05/19 03/12/19 03/19/19	0.7 0.8 0.8	0.11 0.18 0.17	7.5 7.5 7.3		
Ferry Terminal	01/29/19 01/08/19 01/15/19 01/22/19	0.7 0.6 0.7 0.7	0.15 0.14 0.15 0.13	7.5 7.7 7.7 7.6	Ferry Terminal	02/26/19 02/05/19 02/12/19 02/19/19	0.9 0.7 0.8 1.0	0.20 0.13 0.12 0.16	7.5 7.7 7.4 7.5		Ferry Terminal	03/26/19 03/05/19 03/12/19 03/19/19	0.7 0.7 0.7 0.6	0.16 0.37 0.13 0.11	7.5 7.5 7.4		
·	01/22/19 01/29/19 01/08/19 01/15/19	0.7 0.7 1.0 0.8	0.13 0.18 0.18 0.14	7.6 7.6 7.6		02/19/19 02/26/19 02/05/19 02/12/19	0.9 1.0 1.1	0.16 0.21 0.23 0.16	7.5 7.4 7.5 7.5			03/19/19 03/26/19 03/05/19 03/12/19	0.6 0.5 1.1 0.9	0.11 0.15 0.17 0.13	7.5 7.5 7.5 7.5		
Highway 19 PRV	01/22/19 01/29/19	0.9 1.0	0.19 0.13	7.6 7.5	Highway 19 PRV Average	02/19/19 02/26/19	1.1 0.9 0.8	0.18 0.24 0.20	7.5 7.4 7.6		Highway 19 PRV Average	03/19/19 03/26/19	0.8 0.9 0.6	0.16 0.15 0.19	7.4 7.5 7.5		
Minimu	Average 0.7 0.17 7.6 Minimum 0.4 0.12 7.2 Maximum 1.0 0.33 7.9				Minimur Maximur	n	0.4 1.1	0.12 0.61	7.4 7.8		Minimus Maximus	m	0.4 1.1	0.11 0.61	7.3 7.8		
						Mari						Juna					
Die	Ap		lin a	_	Dia	May						June Distribution Sampling					
Dis	tribution	n Samp Free	- Ŭ -		Dis	tributio	n Samp Free				Dis	tributio					
Location	Date 04/02/19	Chlorine (mg/L) 0.4	Turbidity (NTU) 0.32	pH 7.2	Location	Date 05/07/19	Chlorine mg/L 0.5	Turbidity NTU 0.14	pH 7.5		Location	Date 06/04/19	Free Chlorine mg/L 0.5	NTU 0.15	pH 7.6		
Chatham Avenue	04/09/19 04/16/19 04/23/19 04/30/19	0.5 0.4 0.4 0.4	0.18 0.17 0.21 0.23	7.8 7.8 7.9 8.1	Chatham Avenue	05/14/19 05/21/19 05/28/19	0.6 0.6 0.5	0.18 0.21 0.34	7.5 7.5 7.6		Chatham Avenue	06/11/19 06/18/19 06/25/19	0.4 0.5 0.5	0.14 0.28 0.15	7.7 7.7 7.7		
Peel Street Liftstation	04/02/19 04/02/19 04/09/19 04/16/19 04/23/19 04/30/19	0.7 0.6 0.7 0.7 0.7	0.14 0.18 0.16 0.13 0.14	7.5 7.3 7.5 7.6 7.5	Peel Street Liftstation	05/07/19 05/14/19 05/21/19 05/28/19	0.8 0.7 0.8 0.6	0.13 0.14 0.15 0.21	7.3 7.3 7.5 7.4		Peel Street Liftstation	06/04/19 06/11/19 06/18/19 06/25/19	0.7 0.8 0.6 0.7	0.12 0.14 0.29 0.17	7.5 7.6 7.5 7.6		
Airport Wastewater Treatment Plant	04/02/19 04/09/19 04/16/19 04/23/19	0.5 0.6 0.6 0.5	0.27 0.15 0.27 0.25	7.6 7.6 7.5 7.6	Airport Wastewater Treatment Plant	05/07/19 05/14/19 05/21/19 05/28/19	0.5 0.6 0.7 0.6	0.23 0.15 0.21 0.26	7.4 7.4 7.5 7.5		Airport Wastewater Treatment Plant	06/04/19 06/11/19 06/18/19 06/25/19	0.6 0.6 0.5 0.5	0.14 0.23 0.20 0.24	7.4 7.5 7.5 7.6		
Public Works Yard	04/30/19 04/02/19 04/09/19 04/16/19 04/23/19	0.5 0.7 1.0 0.9 0.7	0.15 0.16 0.13 0.13 0.18	7.6 7.5 7.6 7.6 7.6	Public Works Yard	05/07/19 05/14/19 05/21/19 05/28/19	0.9 0.9 0.3 0.8	0.20 0.12 0.13 0.17	7.4 7.6 7.8 7.5		Public Works Yard	06/04/19 06/11/19 06/18/19 06/25/19	0.9 0.9 0.8 0.5	0.22 0.40 0.37 0.23	7.7 7.4 7.7 7.8		
Eagleview School	04/30/19 04/02/19 04/09/19 04/16/19	0.8 0.6 0.6 0.6	0.12 0.18 0.19 0.15	7.5 7.5 7.5 7.5	Eagleview School	05/07/19 05/14/19 05/21/19	0.4 0.5 0.3	0.13 0.12 0.23	7.3 7.5 7.6		Eagleview School	06/04/19 06/11/19 06/18/19	0.5 0.4 0.4	0.12 0.12 0.24	7.3 7.6 7.5		
	04/23/19 04/30/19 04/02/19 04/09/19	0.7 0.5 0.8 1.0	0.48 0.21 0.14 0.18	7.6 7.6 7.5 7.3		05/28/19 05/07/19 05/14/19	0.4 0.8 0.9	0.17 0.18 0.15	7.5 7.3 7.5		-	06/25/19 06/04/19 06/11/19	0.3 0.8 0.8	0.27 0.13 0.20	7.6 7.5 7.6		
		0.7	0.15 0.26	7.5 7.6	Bear Cove Reservoir	05/21/19 05/28/19	0.7	0.15 0.13	7.4 7.4		Bear Cove Reservoir	06/18/19 06/25/19	0.8 0.7	0.26 0.36 0.17	7.5 7.7		
Bear Cove Reservoir	04/23/19 04/30/19	0.7 0.7	0.17	7.5													
Bear Cove Reservoir Ferry Terminal	04/23/19 04/30/19 04/02/19 04/09/19 04/16/19 04/23/19	0.7 0.5 0.6 0.5 0.6	0.17 0.30 0.29 0.40 0.13	7.5 7.2 7.4 7.4 7.2	Ferry Terminal	05/07/19 05/14/19 05/21/19 05/28/19	0.5 0.5 0.4 0.6	0.17 0.15 0.15 0.15	7.4 7.5 7.4 7.4		Ferry Terminal	06/04/19 06/11/19 06/18/19 06/25/19	0.8 0.4 0.6 0.8	0.28 0.14 0.33 0.30	7.3 7.5 7.4 7.5		
	04/23/19 04/30/19 04/02/19 04/09/19 04/16/19 04/23/19 04/30/19 04/02/19 04/09/19 04/16/19	0.7 0.5 0.6 0.5 0.6 0.6 1.0 1.2 0.9	0.17 0.30 0.29 0.40 0.13 0.14 0.28 0.16 0.18	7.5 7.2 7.4 7.4 7.2 7.3 7.5 7.4 7.4	Ferry Terminal Highway 19 PRV	05/14/19 05/21/19 05/28/19 05/28/19 05/07/19 05/14/19 05/21/19	0.5 0.4 0.6 0.9 0.9 1.0	0.15 0.15 0.15 0.21 0.15 0.20	7.5 7.4 7.4 7.3 7.5 7.4		Ferry Terminal Highway 19 PRV	06/11/19 06/18/19 06/25/19 06/04/19 06/11/19 06/18/19	0.4 0.6 0.8 0.8 0.8 1.1	0.14 0.33 0.30 0.19 0.13 0.42	7.5 7.4 7.5 7.6 7.5 7.5		
Ferry Terminal	04/23/19 04/30/19 04/02/19 04/09/19 04/09/19 04/23/19 04/30/19 04/02/19 04/09/19 04/16/19 04/23/19 04/30/19	0.7 0.5 0.6 0.5 0.6 0.6 1.0 1.2	0.17 0.30 0.29 0.40 0.13 0.14 0.28 0.16	7.5 7.2 7.4 7.4 7.2 7.3 7.5 7.4		05/14/19 05/21/19 05/28/19 05/07/19 05/14/19 05/21/19 05/28/19	0.5 0.4 0.6 0.9	0.15 0.15 0.15 0.21 0.15	7.5 7.4 7.4 7.3 7.5			06/11/19 06/18/19 06/25/19 06/04/19 06/11/19 06/18/19 06/25/19	0.4 0.6 0.8 0.8	0.14 0.33 0.30 0.19 0.13	7.5 7.4 7.5 7.6 7.5		

	Ju	ly				Aug	gust				Septe	ember		
Dis	tribution	n Samp	ling		Dis	tributio	n Samp	ling		Dis	tributio	n Sampl	ling	
Location	Date	Free Chlorine mg/L	Turbidity NTU	pН	Location	Date	Free Chlorine mg/L	Turbidity NTU	pН	Location	Date	Free Chlorine mg/L	T	pH
Chatham Avenue	07/02/19 07/09/19 07/16/19	0.3 0.6 0.3	0.23 0.31 0.16	7.9 7.6 7.7	Chatham Avenue	08/06/19 08/13/19 08/20/19	0.3 0.3 0.4	0.28 0.91 0.48	7.7 7.4 7.4	Chatham Avenue	09/03/19 09/10/19 09/17/19	0.3 0.2 0.2	0.18 0.26 0.96	7.5 7.4 7.2
	07/23/19 07/30/19	0.3 0.3	0.36 0.27	7.6 7.6		08/27/19	0.3	0.30	7.5		09/24/19	0.3	0.26	7.5
Peel Street Liftstation	07/02/19 07/09/19 07/16/19 07/23/19	0.6 0.7 0.5 0.2	0.15 0.23 0.16 0.27	7.6 7.6 7.2 7.6	Peel Street Liftstation	08/06/19 08/13/19 08/20/19 08/27/19	0.5 0.7 0.7 0.7	0.18 0.74 0.26 0.22	7.6 7.3 7.4 7.4	Peel Street Liftstation	09/03/19 09/10/19 09/17/19 09/24/19	0.6 0.6 0.4 0.5	0.16 0.61 0.86 0.22	7.3 7.5 7.3 7.4
Almost Western Land	07/30/19 07/02/19 07/09/19	0.4 0.4 0.5	0.23 0.23 0.28	7.3 7.7 7.6	Airport Wastewater	08/06/19 08/13/19	0.5	0.29	7.5 7.3	Airport Wastewater	09/03/19 09/10/19	0.3	0.22	7.4
Airport Wastewater Treatment Plant	07/16/19 07/23/19 07/30/19	0.3 0.2 0.1	0.24 0.28 0.36	7.5 7.4 7.4	Treatment Plant	08/20/19 08/27/19	0.2	0.60	7.4 7.4	Treatment Plant	09/17/19 09/24/19	0.3	0.18 0.17	7.1 7.2
Public Works Yard	07/02/19 07/09/19 07/16/19 07/23/19	0.6 0.4 0.3 0.5	0.20 0.21 0.17 0.46	7.8 7.9 7.8 7.8	Public Works Yard	08/06/19 08/13/19 08/20/19 08/27/19	0.3 0.5 0.4 0.3	0.17 0.21 0.28 0.28	7.8 7.7 7.5 7.8	Public Works Yard	09/03/19 09/10/19 09/17/19 09/24/19	0.3 0.4 0.2 0.7	0.12 0.23 0.20 0.25	7.6 7.3 7.6 7.5
	07/23/19 07/30/19 07/02/19 07/09/19	0.5 0.2 0.8 0.8	0.46 0.47 0.37 0.37	7.8 7.8 7.5 7.5		08/27/19 08/06/19 08/13/19	0.4	0.28	7.5 7.4		09/24/19 09/03/19 09/10/19	0.7	0.25	7.8 7.6
Eagleview School	07/16/19 07/23/19	0.7	0.63	7.5	Eagleview School	08/20/19 08/27/19	0.5	0.57	7.4 7.5	Eagleview School	09/17/19 09/24/19	0.2	0.16 0.12	7.3 7.5
Bear Cove Reservoir	07/02/19 07/09/19 07/16/19	0.6 0.7 0.5	0.15 0.23 0.22	7.7 7.6 7.5	Bear Cove Reservoir	08/06/19 08/13/19 08/20/19	0.4 0.6 0.6	0.18 0.18 0.21	7.5 7.4 7.3	Bear Cove Reservoir	09/03/19 09/10/19 09/17/19	0.5 0.6 0.5	0.10 0.35 0.29	7.4 7.4 7.2
	07/23/19 07/30/19 07/02/19 07/09/19	0.5 0.5 0.7 0.8	0.44 0.30 0.16 0.22	7.5 7.4 7.5 7.4		08/27/19 08/06/19 08/13/19	0.5 0.7 0.6	0.29 0.19 0.17	7.3 7.4 7.3		09/24/19 09/03/19 09/10/19	0.6 0.5 0.7	0.12 0.16 0.34	7.3 7.4 7.2
	07/16/19 07/23/19 07/30/19	0.7 0.3 0.4	0.22 0.28 0.30	7.4 7.3 7.3	Ferry Terminal	08/20/19 08/27/19	0.4	0.28 0.17	7.3 7.4	Ferry Terminal	09/17/19 09/24/19	0.3 0.6	0.31	7.0
Highway 19 PRV	07/02/19 07/09/19 07/16/19	0.8 0.9 0.9	0.25 0.16 0.28	7.6 7.5 7.4	Highway 19 PRV	08/06/19 08/13/19 08/20/19	1.0 0.7 0.9	0.30 0.40 0.26	7.0 7.3 7.1	Highway 19 PRV	09/03/19 0.8 0.18 09/10/19 0.8 0.15 19 PRV 09/17/19 0.9 0.48		0.15 0.48	7.3 7.4 7.3
Averag		1.0 0.8 0.5	0.21 0.42 0.28	7.3 7.3 7.5	Averag		0.9	0.20	7.3	Average		0.6	0.24	7.3
Minimus Maximu		0.1 1.0	0.63	7.2 7.9	Minimu Maximu		0.2 1.0	0.17	7.0 7.8	Minimus Maximu		0.2	0.10	7.0 7.8
	Ostohou													
Dia	Octo		1:		Dia	Nove		lin a		Dia		ember	lin a	
Dis	Octo		- 		Dis	Nove		- Ŭ -		Dis		n Sampl		
Dis		n Samp	ling Turbidity NTU 0.28	pH 7.7	Dis		n Samp	ling Turbidity NTU 0.34	pH 7.7	Dis				pH 7.5
	tribution	Free Chlorine mg/L	Turbidity NTU			tribution Date	Free Chlorine mg/L	Turbidity NTU			stributio Date	n Sampl Free Chlorine mg/L	Turbidity NTU	
Location Chatham Avenue	Date 10/01/19 10/07/19 10/15/19 10/22/19 10/29/19 10/07/19 10/07/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 0.9 1.2	Turbidity NTU 0.28 0.45 0.19 0.16 0.19 0.15	7.7 7.7 7.6 7.6 7.6 7.5 7.5	Location Chatham Avenue	Date 11/05/19 11/12/19 11/19/19 11/26/19 11/05/19 11/12/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.9 1.2	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67	7.7 7.6 7.6 7.6 7.6 7.4 7.4	Location Chatham Avenue	Date 12/03/19 12/10/19 12/17/19 12/23/19 12/31/19 12/03/19 12/10/19	n Sampl Free Chlorine mg/L 0.4 0.6 0.3 0.3 1.5 0.5	Turbidity NTU 0.19 0.61 0.34 0.24 0.34 0.32	7.5 7.4 7.4 7.5 7.6 7.1 7.1
Location	Date 10/01/19 10/07/19 10/15/19 10/22/19 10/29/19 10/07/19 10/07/19 10/15/19 10/22/19 10/29/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 0.9 1.2 1.1 1.1	Turbidity NTU 0.28 0.45 0.19 0.16 0.19 0.15 0.15 0.19 0.14	7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4	Location	Date 11/05/19 11/12/19 11/19/19 11/26/19 11/05/19 11/12/19 11/19/19 11/19/19 11/26/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 1.2 1.2 0.9	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17 0.26	7.7 7.6 7.6 7.6 7.4 7.4 7.3 7.3	Location	Date 12/03/19 12/10/19 12/17/19 12/23/19 12/31/19 12/03/19 12/17/19 12/23/19 12/31/19 12/31/19	Free Chlorine mg/L 0.4 0.6 0.3 0.3 1.5 0.6 0.6 0.6 0.6	Turbidity NTU 0.19 0.61 0.34 0.24 0.32 0.17 0.18 0.14 0.18	7.5 7.4 7.4 7.5 7.6 7.1 7.1 7.2 7.3
Location Chatham Avenue	Date 10/01/19 10/07/19 10/15/19 10/15/19 10/22/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19 10/01/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 0.9 1.2 1.1 1.1 1.2 0.4 0.9 0.6 0.7	Turbidity NTU 0.28 0.45 0.19 0.16 0.15 0.15 0.19 0.14 0.14 0.21 0.19	7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.3 7.3 7.3 7.3	Location Chatham Avenue Peel Street	Date 11/05/19 11/12/19 11/19/19 11/26/19 11/05/19 11/12/19 11/19/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.9 1.2 1.2	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17	7.7 7.6 7.6 7.6 7.6 7.4 7.4 7.3	Location Chatham Avenue	Date 12/03/19 12/10/19 12/10/19 12/17/19 12/23/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19	Free Chlorine mg/L 0.4 0.6 0.3 0.3 1.5 0.5 0.6 0.6 0.6 0.7 0.6 0.2 0.7 0.6 0.7 0.6 0.7 0.7 0.8	Turbidity NTU 0.19 0.61 0.34 0.24 0.34 0.32 0.17 0.18 0.14 0.18 0.68 0.17	7.5 7.4 7.4 7.5 7.6 7.1 7.1 7.2 7.3 7.3 7.1 7.1 7.1 7.2 7.3
Location Chatham Avenue Peel Street Liftstation Airport Wastewater	Date 10/01/19 10/07/19 10/07/19 10/15/19 10/22/19 10/22/19 10/07/19 10/15/19 10/15/19 10/15/19 10/15/19 10/07/19 10/07/19 10/07/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 1.1 1.1 1.2 0.4 0.9 0.6	Turbidity NTU 0.28 0.45 0.19 0.16 0.19 0.15 0.19 0.14 0.14 0.14 0.21 0.19	7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.3 7.3 7.3	Location Chatham Avenue Peel Street Liftstation Airport Wastewater	Date 11/05/19 11/12/19 11/12/19 11/12/19 11/26/19 11/05/19 11/05/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.9 1.2 1.2 0.9 0.7 0.7	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17 0.26 0.30 0.25 0.22	7.7 7.6 7.6 7.6 7.4 7.4 7.3 7.3 7.3	Location Chatham Avenue Peel Street Liftstation Airport Wastewater	Date 12/03/19 12/10/19 12/10/19 12/21/19 12/23/19 12/23/19 12/23/19 12/23/19 12/23/19 12/23/19 12/23/19 12/23/19 12/23/19 12/23/19 12/23/19	Free Chlorine mg/L 0.4 0.6 0.3 0.3 0.3 1.5 0.6 0.6 0.6 0.6 0.7 0.6 0.2	Turbidity NTU 0.19 0.61 0.34 0.24 0.32 0.17 0.18 0.14 0.18 0.68 0.68 0.17	7.5 7.4 7.4 7.5 7.6 7.1 7.1 7.2 7.3 7.3 7.1 7.1 7.1
Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant	Date 10/01/19 10/07/19 10/15/19 10/15/19 10/15/19 10/22/19 10/07/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 1.1 1.1 1.2 0.4 0.9 0.6 0.7 0.4 0.2 0.3 0.7 0.4 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.7	Turbidity NTU 0.28 0.45 0.19 0.16 0.19 0.15 0.15 0.19 0.14 0.14 0.21 0.15 0.19 0.16 0.19 0.10 0.10 0.10 0.10 0.10 0.10 0.10	7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.5 7.7 7.7 7.7 7.7	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant	Tribution Date 11/05/19 11/12/19 11/19/19 11/19/19 11/19/19 11/12/19 11/19/19 11/12/19 11/19/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19 11/12/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.9 1.2 1.2 1.2 0.9 0.7 0.7 0.6 0.6 0.8 0.7 0.9 0.9 0.4 0.4 0.5 0.6 0.8 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17 0.26 0.30 0.25 0.22 0.59 0.13 0.16 0.18 0.28	7.7 7.6 7.6 7.6 7.6 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant	Date 12/03/19 12/10/19 12/10/19 12/17/19 12/31/19	n Sampl Free Chlorine mg/L 0.4 0.4 0.6 0.3 0.3 0.3 1.5 0.6 0.6 0.6 0.7 0.6 0.0 0.1 0.0 0.0 0.0 0.0 0.0	Turbidity NTU 0.19 0.61 0.34 0.24 0.34 0.32 0.17 0.18 0.68 0.17 0.33 0.35 0.37 0.19 0.48 0.49 0.16 0.24	7.5 7.4 7.4 7.5 7.6 7.1 7.1 7.2 7.3 7.3 7.1 7.1 7.1 7.1 7.1 7.1 7.4 7.4 7.4 7.4 7.4 7.4
Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant	Date 10/01/19 10/07/19 10/07/19 10/07/19 10/22/19 10/22/19 10/22/19 10/07/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 1.1 1.1 1.2 0.4 0.9 0.6 0.7 0.4 0.2 0.9 0.6 0.7	Turbidity NTU 0.28 0.45 0.19 0.16 0.19 0.15 0.19 0.14 0.21 0.19 0.15 0.20 0.18 0.11 0.18 0.14 0.16 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant	11/05/19 11/12/19	Pree Chlorine mg/L 0.2 0.5 0.4 0.5 0.9 1.2 1.2 0.9 0.3 0.7 0.7 0.6 0.8 0.7 0.9 0.9	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17 0.26 0.30 0.25 0.22 0.59 0.13 0.16 0.18 0.28	7.7 7.6 7.6 7.6 7.4 7.4 7.3 7.3 7.3 7.3 7.4 7.3 7.7 7.4 7.5 7.4	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant	Date 12/03/19 12/10/19 12/10/19 12/10/19 12/25/19 12/25/19 12/25/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19 12/31/19	Prec Chlorine mg/L 0.4 0.6 0.3 0.3 1.5 0.5 0.6 0.6 0.6 0.7 0.6 0.6 0.7 0.6 0.8 0.9 0.9	Turbidity NTU 0.19 0.61 0.34 0.24 0.34 0.32 0.17 0.18 0.14 0.18 0.68 0.17 0.33 0.35 0.32 0.17 0.28 0.48 0.49 0.16	7.5 7.4 7.4 7.5 7.6 7.1 7.1 7.2 7.3 7.3 7.1 7.1 7.1 7.2 7.3 7.1 7.1 7.4 7.4 7.4 7.4 7.4
Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard	Tribution Date 10/01/19 10/07/19 10/15/19 10/15/19 10/22/19 10/07/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.5 0.6 0.5 0.6 0.6 0.5	Turbidity NTU 0.28 0.45 0.19 0.16 0.19 0.15 0.19 0.15 0.19 0.14 0.14 0.14 0.16 0.20 0.18 0.11 0.18 0.19 0.15 0.19 0.19 0.10 0.19 0.10 0.10 0.10 0.10	7.7 7.7 7.6 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.7 7.7 7.6 7.2 7.2 7.2 7.2 7.2 7.3	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard	Tribution Date 11/05/19 11/12/19 11/19/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.9 1.2 1.2 1.2 0.9 0.9 0.6 0.6 0.8 0.7 0.6 0.6 0.8 0.7 0.9 0.9 0.4 0.2 0.2 0.3 0.7 0.6 0.6 0.8 0.7 0.6 0.6 0.8 0.7 0.6 0.6 0.8 0.7 0.9 0.9 0.9 0.4 0.2 0.2 0.3 0.7 0.6 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17 0.26 0.25 0.22 0.59 0.13 0.16 0.18 0.28 0.30 0.23 0.27	7.7 7.6 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard	Date 12/03/19 12/10/19 12/10/19 12/17/19 12/31/19	n Sampl Free Chlorine mg/L 0.4 0.6 0.3 0.3 0.5 0.5 0.6 0.6 0.7 0.6 0.0 0.2 0.4 0.3 1.0 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0	Turbidity NTU 0.19 0.61 0.34 0.34 0.32 0.17 0.18 0.18 0.19 0.19 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.4 7.4 7.5 7.6 7.1 7.1 7.2 7.3 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School	Date 10/01/19 10/07/19 10/07/19 10/07/19 10/22/19 10/22/19 10/22/19 10/07/19	Free Chlorine mg/L 02 03 03 02 04 02 04 02 1.1 1.1 1.2 0.4 0.9 0.6 0.7 0.4 0.2 0.3 0.8 0.9 0.7 0.4 0.0 0.7 0.4 0.0 0.7 0.4 0.0 0.7 0.4 0.0 0.7 0.6 0.7 0.6 0.7 0.7 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Turbidity NTU 0.28 0.45 0.49 0.19 0.16 0.19 0.15 0.19 0.14 0.21 0.14 0.21 0.15 0.20 0.18 0.11 0.18 0.10 0.19 0.15 0.19 0.10 0.10 0.11 0.11 0.11 0.11 0.11	7.7 7.7 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.7 7.7 7.6 7.2 7.2 7.2 7.2 7.5 7.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School	Tribution Date 11/05/19 11/12/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.9 1.2 0.9 0.9 0.7 0.7 0.6 0.8 0.7 0.9 0.9 0.6 0.6 0.8 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.17 0.26 0.30 0.25 0.22 0.59 0.13 0.16 0.18 0.28 0.30 0.23 0.30 0.23 0.31	7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.5 7.4 7.4 7.3	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School	Date 12/03/19 12/10/19 12/10/19 12/25/19	n Sampl Free Chlorine mg/L 0.4 0.6 0.3 0.3 1.5 0.5 0.6 0.6 0.6 0.7 0.6 0.6 0.7 0.6 0.8 0.9 0.9 0.9	Turbidity NTU 0.19 0.61 0.61 0.34 0.24 0.34 0.32 0.17 0.18 0.18 0.68 0.17 0.33 0.35 0.32 0.17 0.28 0.48 0.49 0.16 0.24 0.28 0.58	7.5 7.4 7.4 7.5 7.6 7.1 7.1 7.2 7.3 7.1 7.1 7.1 7.1 7.1 7.4 7.4 7.4 7.4 7.4 7.4 7.1 7.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1
Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir	10/01/19 10/07/19 10/07/19 10/22/19 10/22/19 10/29/19 10/29/19 10/07/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 0.9 1.1 1.1 1.1 1.2 0.4 0.9 0.6 0.7 0.4 0.2 0.3 0.8 0.9 0.7 0.2 0.3 0.8 0.9 0.7 0.2 0.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Turbidity NIU 0.28 0.45 0.49 0.19 0.15 0.15 0.19 0.14 0.14 0.16 0.19 0.15 0.20 0.18 0.11 0.18 0.14 0.16 0.29 0.25 0.21 0.15 0.19 0.15 0.20 0.18 0.11 0.18 0.14 0.16 0.29 0.21 0.15 0.21 0.15 0.21 0.15 0.21 0.15 0.21 0.15 0.21 0.15 0.21 0.15 0.21 0.15 0.21 0.15 0.25 0.21 0.15 0.26 0.12 0.13 0.26 0.12 0.13 0.26 0.12 0.13 0.26 0.12 0.11 0.11 0.14 0.13 0.31 0.32 0.32	777 777 776 776 776 776 776 777 777 777	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir	Tribution Date 11/05/19 11/12/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.2 0.2 0.3 0.7 0.6 0.6 0.7 0.6 0.6 0.7 0.6 0.6 0.7 0.6 0.6 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17 0.26 0.25 0.22 0.59 0.13 0.16 0.18 0.28 0.23 0.32 0.27 0.15 0.23 0.23 0.22 0.16 0.18 0.28 0.29 0.10 0.11 0.11 0.12 0.13 0.15 0.21 0.15 0.23 0.25 0.26 0.21 0.13 0.21 0.13 0.22 0.26	77 76 76 76 76 77 77 78 77 73 73 73 73 77 74 75 75 74 75 75 74 77 77 74 77 77 77 77 77 77 77 77 77	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir	Date 12/03/19 12/10/19 12/10/19 12/21/19 12/23/19 12/31/19	n Sampl Free Chlorine mg/L 0.4 0.6 0.3 0.3 0.3 1.5 0.5 0.6 0.6 0.6 0.7 0.6 0.6 0.8 0.9 0.5 0.4 0.3 0.3 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Turbidity NTU 0.19 0.61 0.34 0.24 0.34 0.32 0.17 0.18 0.68 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	75 74 74 74 75 76 76 77 71 71 71 71 71 73 73 73 74 74 74 74 74 74 74 74 74 77 74 77 73 73 73 74 74 75 76 77 77 77 77 77 77 77 77 77 77 77 77
Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir	10/01/19 10/07/19 10/07/19 10/07/19 10/02/19 10/02/19 10/02/19 10/02/19 10/07/19	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.2 0.9 1.1 1.1 1.1 1.2 0.4 0.9 0.6 0.7 0.4 0.2 0.3 0.8 0.9 0.7 0.4 0.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Turbidity NIU 0.28 0.45 0.19 0.19 0.16 0.19 0.15 0.19 0.14 0.14 0.11 0.19 0.15 0.19 0.10 0.19 0.10 0.10 0.10 0.10 0.10	77 77 76 76 76 76 77 77 76 77 77 77 77 7	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir	Tribution Date 11/05/19 11/12/19 11/15/19 11/15/19 11/15/19 11/16/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.5 0.4 0.5 0.6 0.6 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.29 0.17 0.26 0.25 0.25 0.22 0.59 0.13 0.16 0.18 0.28 0.20 0.21 0.15 0.23 0.26	77 76 76 76 77 77 78 77 73 73 73 73 73 75 74 75 74 75 77 74 75 77 77 77 77 77 77 77 77 77 77 77 77	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir	12/03/19 12/10/19 12/10/19 12/23/19	n Sampl Free Chlorine mg/L 0.4 0.6 0.3 0.3 1.5 0.5 0.6 0.6 0.6 0.7 0.6 0.8 0.9 0.9 0.9 0.6 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.6 0.6 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Turbidity NTU 0.19 0.61 0.34 0.24 0.23 0.17 0.18 0.68 0.17 0.33 0.35 0.32 0.17 0.28 0.49 0.16 0.24 0.28 0.58	75 74 74 74 75 76 76 77 71 71 71 72 73 73 74 74 74 74 74 74 74 74 77 73 73 74 74 77 77 77 77 77 77 77 77 77 77 77
Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir Ferry Terminal	Date 10/01/19 10/07/19 10/15/19 10/07/19 10/15/19 10	Free Chlorine mg/L 0.2 0.3 0.2 0.4 0.4 0.7 0.2 0.3 0.3 0.2 0.4 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Turbidity NTU 0.28 0.45 0.19 0.16 0.19 0.15 0.19 0.15 0.19 0.14 0.14 0.21 0.19 0.15 0.19 0.15 0.19 0.19 0.15 0.19 0.10 0.19 0.11 0.18 0.19 0.10 0.18 0.11 0.18 0.19 0.10 0.10 0.10 0.10 0.10 0.10 0.10	7.7 7.7 7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.7	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir Ferry Terminal	Tribution Date 11/05/19 11/12/19	Free Chlorine mg/L 0.2 0.5 0.4 0.5 0.5 0.6 0.6 0.8 0.7 0.9 0.9 0.9 0.9 0.9 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.7 0.6 0.6 0.6 0.6 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Turbidity NTU 0.34 0.36 0.19 0.22 0.19 0.67 0.17 0.26 0.25 0.22 0.59 0.30 0.25 0.22 0.59 0.30 0.28 0.20 0.13 0.16 0.18 0.28 0.20 0.21 0.15 0.23 0.26 0.21 0.15 0.22 0.16 0.18	77 76 76 76 76 77 77 78 73 73 73 73 74 74 75 77 74 75 77 74 75 77 77 77 77 77 77 77 77 77 77 77 77	Location Chatham Avenue Peel Street Liftstation Airport Wastewater Treatment Plant Public Works Yard Eagleview School Bear Cove Reservoir Ferry Terminal	Date 12/03/19 12/10/19 12/10/19 12/23/19 12/31/19	n Sampl Free Chlorine mg/L 0.4 0.6 0.3 0.3 1.5 0.5 0.6 0.6 0.7 0.6 0.8 0.9 0.9 0.9 0.6 0.7 0.6 0.6 0.7 0.6 0.6 0.7 0.6 0.6	Turbidity NTU 0.19 0.61 0.34 0.32 0.17 0.18 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	75 74 74 75 75 76 76 77 71 71 72 73 73 73 74 74 74 74 74 74 74 74 74 75 75 76 76 77 77 77 77 77 77 77 77 77 77 77

		Janu	ary						Febru	ıary			
	Bacte	eriologic	al Sam	pling				Bact	eriologic	al Sam	pling		
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml
01/08/19	Hospital	0.9	0.20	7.5	L1	L1	02/19/1		0.8	0.40	7.6	L1	L1
01/08/19	Airport Washroom	0.6	0.17	7.7	L1	L1	02/05/19		0.9	0.24	7.6	L1	L1
01/15/19 01/15/19	Chatham Ave. Bear Cove Reservoir	0.6	0.13 0.14	7.9 7.6	L1 L1	L1 L1	02/19/19		0.8	0.18	7.7 7.6	L1 L1	L1 L1
01/15/19	Highway 19 PRV	0.8	0.14	7.6	L1	L1	02/12/1		1.1	0.16	7.5	L1	L1
01/08/19	Pioneer Inn	0.5	0.13	7.5	L1	L1	02/19/19		0.7	0.14	7.5	L1	L1
01/22/19	Public Works Yard	0.8	0.12	7.8	L1	L1	02/12/19	Public Works Yard	0.9	0.14	7.6	L1	L1
01/15/19	Glen Lyon Restaurant	0.7	0.12	7.6	L1	L1	02/12/19	Glen Lyon Restaurant	1.0	0.14	7.5	L1	L1
01/22/19	Airport Inn	0.7	0.18	7.6	L1	L1	02/19/19	Airport Inn	0.8	0.16	7.5	L1	L1
01/08/19	Peel St Liftstation	0.8	0.14	7.6	L1	L1	02/05/1		1.0	0.23	7.5	L1	L1
01/22/19	B.C. Ferry	0.7	0.13	7.6	L1	L1	02/12/19	B.C. Ferry	0.8	0.12	7.4	L1	L1
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml
01/22/19	Tsulquate River (Untreated)		0.47	6.6			02/05/19	Tsulquate River (Untreated)		0.49	6.8		
		Mar	ch						ril				
	Bacte	eriologic	al Sam	pling				Bact	pling				
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml
03/12/19	Hospital	0.7	0.16	7.5	L1	L1	04/02/1	Hospital	0.8	0.21	7.6	L1	L1
03/05/19	Airport Washroom	0.4	0.52	7.7	L1	L1	04/02/1	_	0.5	0.45	7.5	L1	L1
03/12/19	Chatham Ave.	0.5	0.14	7.7	L1	L1	04/02/1	Chatham Ave.	0.4	0.32	7.2	L1	L1
03/05/19	Bear Cove Reservoir	0.7	0.11	7.5	L1	L1	04/09/1	Bear Cove Reservoir	1.0	0.18	7.3	L1	L1
03/19/19	Highway 19 PRV	0.8	0.16	7.4	L1	L1	04/09/1	Highway 19 PRV	1.2	0.16	7.4	L1	L1
03/19/19	Pioneer Inn	0.5	0.13	7.3	L1	L1	04/16/1	_	0.7	0.17	7.5	L1	L1
03/12/19	Public Works Yard	0.7	0.11	7.7	L1	L1	04/09/1		1.0	0.13	7.6	L1	L1
03/19/19	Glen Lyon Restaurant	0.7	0.13	7.4	L1	L1	04/16/19	Glen Lyon Restaurant	0.7	0.20	7.5	L1	L1
03/12/19	Airport Inn	0.7	0.14	7.5	L1	L1	04/16/19	_	0.6	0.13	7.4	L1	L1
03/05/19 03/19/19	Peel St Liftstation B.C. Ferry	0.9	0.26 0.11	7.5 7.5	L1 L1	L1 L1	04/16/19		0.7	0.16	7.5 7.2	L1 L1	L1 L1
03/19/19	B.C. Perry	0.0	0.11	7.5	Li	LI	04/02/1	B.C. Perry	0.5	0.30	7.2	LI	LI
Sample	Sample	Free Chlorine	Turbidity		Total Coliform	E.Coli	Sample	Sample	Free Chlorine	Turbidity		Total Coliform	E.Coli
Date	Location Tsulquate River	(mg/L)	(NTU)	pН	CFU/100ml	CFU/100ml	Date	Location Teulquate River	(mg/L)	(NTU)	pH	CFU/100ml	CFU/100ml
03/05/19	(Untreated)		0.40	6.7			04/09/1	(Untreated)		0.50	6.6		
		Ma	ıy						Jur	ne			
	Bacte	eriologic	al Sam	pling				Bact	eriologic	al Sam	pling		
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml
05/07/19	Hospital	0.8	0.17	7.3	L1	L1	06/04/1		0.8	0.15	7.5	L1	L1
05/07/19	Airport Washroom	0.4	0.18	7.2	L1	L1	06/04/1	-	0.5	0.22	7.5	L1	L1
05/07/19 05/14/19	Chatham Ave. Bear Cove Reservoir	0.5	0.14 0.15	7.5 7.5	L1 L1	L1 L1	06/04/19 06/18/19		0.5	0.15	7.6 7.5	L1 L1	L1 L1
05/14/19	Highway 19 PRV	0.9	0.15	7.5	L1	L1	06/18/1		1.1	0.36	7.5	L1	L1
05/14/19	Pioneer Inn	0.9	0.23	7.4	L1	L1	06/04/1		0.8	0.13	7.6	L1	L1
05/21/19	Public Works Yard	0.3	0.13	7.8	L1	L1	06/18/1		0.8	0.37	7.7	L1	L1
05/07/19	Glen Lyon Restaurant	0.7	0.53	7.3	L1	L1	06/11/19	_	0.6	0.28	7.5	L1	L1
05/14/19 05/21/19	Airport Inn Peel St Liftstation	0.6	0.12 0.15	7.4 7.5	L1 L1	L1 L1	06/11/1 06/11/1	•	0.5	0.15 0.14	7.6 7.6	L1 L1	L1 L1
05/21/19	B.C. Ferry	0.4	0.15	7.4	L1	L1	06/11/1		0.4	0.14	7.5	L1	L1
	·												
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml
05/21/19	Tsulquate River (Untreated)		0.31	7.2			06/18/1	Teulauata Rivar		0.25	7.3		

		Jul	y						Aug	ust			
	Bact	eriologic	al Sam	pling				Bacte	eriologic	al Sam	pling		
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml
07/09/19	Hospital	0.7	0.16	7.6	L1	L1	08/06/19	Hospital	0.7	0.18	7.6	L1	L1
07/09/19	Airport Washroom	0.5	0.40	7.5	L1	L1	08/06/19	Airport Washroom	0.2	0.40	7.5	L1	L1
07/09/19	Chatham Ave.	0.6	0.31	7.6	L1	L1	08/06/19	Chatham Ave.	0.3	0.28	7.7	L1	L1
07/16/19	Bear Cove Reservoir	0.5	0.22	7.5	L1	L1	08/13/19	Bear Cove Reservoir	0.6	0.18	7.4	L1	L1
07/23/19 07/09/19	Highway 19 PRV Pioneer Inn	1.0 0.8	0.21	7.3 7.4	L1 L1	L1 L1	08/20/19 08/06/19	Highway 19 PRV Pioneer Inn	0.9 1.0	0.26	7.1 7.3	L1 L1	L1 L1
07/09/19	Public Works Yard	0.3	0.17	7.4	L1	L1	08/13/19	Public Works Yard	0.5	0.10	7.7	L1	L1
07/16/19	Glen Lyon Restaurant	0.6	0.22	7.4	L1	L1	08/13/19	Glen Lyon Restaurant	0.8	0.27	7.3	L1	L1
07/16/19	Airport Inn	0.3	0.16	7.5	L1	L1	08/20/19	Airport Inn	0.5	0.45	7.4	L1	L1
07/23/19	Peel St Liftstation	0.5	0.36	7.6	L1	L1	08/13/19	Peel St Liftstation	0.7	0.74	7.3	L1	L1
07/23/19	B.C. Ferry	0.3	0.28	7.3	L1	L1	08/20/19	B.C. Ferry	0.4	0.29	7.3	L1	L1
Sample Date	Sample Location Tsulquate River	Free Chlorine (mg/L)	(NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location Tsulquate River	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml
07/23/19	(Untreated)		0.39	7.0			08/20/19	(Untreated)		0.28	7.1		
		Septe	mber						Octo	ber			
	Bacte	eriologic	al Sam	pling				Bacte	eriologic	al Sam	pling		
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml
09/10/19	Hospital	0.4	0.20	7.4	L1	L1	10/01/19	Hospital	0.7	0.20	7.4	<1	<1
09/17/19	Airport Washroom	0.1	0.34	7.2	L1	L1	10/15/19	Airport Washroom	0.5	0.41	7.3	<1	<1
09/03/19	Chatham Ave.	0.3	0.18	7.6	L1	L1	10/01/19	Chatham Ave.	0.2	0.28	7.7	<1	<1
09/03/19	Bear Cove Reservoir	0.5	0.10	7.4	L1	L1	10/08/19	Bear Cove Reservoir	0.6	0.21	7.4	<1	<1
09/17/19	Highway 19 PRV	0.9	0.48	7.3	L1	L1	10/08/19	Highway 19 PRV	0.9	0.24	7.4	<1	<1
09/17/19	Pioneer Inn	0.8	0.22	7.3	L1	L1	10/01/19	Pioneer Inn	0.9	0.25	7.4	<1	<1
09/03/19	Public Works Yard	0.3	0.12	7.6 7.4	L1	L1	10/15/19	Public Works Yard	0.8	0.14	7.2 7.2	<1	<1
09/10/19	Glen Lyon Restaurant	0.5		7.4	L1 L1	L1 L1	10/15/19	Glen Lyon Restaurant	0.8	0.11	7.4	<1	<1 <1
09/10/19 09/10/19	Airport Inn Peel St Liftstation	0.5	0.58	7.4	L1	L1	10/01/19 10/08/19	Airport Inn Peel St Liftstation	0.8	0.22	7.4	<1	<1
09/17/19	B.C. Ferry	0.3	0.31	7.0	L1	L1	10/15/19	B.C. Ferry	0.4	0.11	7.3	<1	<1
07/17/17	D.C.Telly	0.5	0.01	7.0			10/10/17	D.C. Telly	0.1	0.11	7.5	-	
Sample	Sample	Free Chlorine	Turbidity	рН	Total Coliform	E.Coli	Sample	Sample	Free Chlorine	Turbidity	pН	Total Coliform	E.Coli
Date 09/03/19	Location Tsulquate River	(mg/L)	(NTU) 0.30	7.2	CFU/100ml	CFU/100ml	Date 10/08/19	Location Tsulquate River	(mg/L)	(NTU) 0.92	7.0	CFU/100ml	CFU/100ml
	(Untreated)							(Untreated)					
		Nove	mber						Decer	nber			
	Bacte	eriologic	al Sam	pling				Bacte	eriologic	al Sam	pling		
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml
11/12/19	Hospital	0.7	0.19	7.4	<1	<1	12/17/19	Hospital	0.7	0.25	7.3	<1	<1
11/19/19	Airport Washroom	0.7	0.21	7.4	<1	<1	12/17/19	Airport Washroom	0.5	0.42	7.4	<1	<1
11/12/19	Chatham Ave.	0.5	0.36	7.6	<1	<1	12/03/19	Chatham Ave.	0.4	0.19	7.5	<1	<1
11/05/19	Bear Cove Reservoir Highway 19 PRV	0.7	0.15	7.4	<1	<1	12/03/19	Bear Cove Reservoir	0.9	0.16	7.1	<1	<1
11/19/19 11/12/19	0 /	1.0 0.8	0.17 0.17	7.3	<1	<1	12/17/19	Highway 19 PRV	1.0	0.40	7.2	<1	<1
11/12/19	Pioneer Inn Public Works Yard	0.8	0.17	7.3 7.7	<1	<1	12/17/19 12/03/19	Pioneer Inn Public Works Yard	1.1	0.22	7.1 7.1	<1	<1
11/19/19	Glen Lyon Restaurant	0.8	0.13	7.3	<1	<1	12/17/19	Glen Lyon Restaurant	0.8	0.17	7.1	<1	<1
11/12/19	Airport Inn	0.8	0.39	7.4	<1	<1	12/17/19	Airport Inn	0.5	0.21	7.3	<1	<1
11/05/19	Peel St Liftstation	0.9	0.19	7.4	<1	<1	12/17/19	Peel St Liftstation	0.6	0.18	7.1	<1	<1
11/19/19	B.C. Ferry	0.2	0.22	7.1	<1	<1	12/17/19	B.C. Ferry	0.6	0.18	7.3	<1	<1
	·							·					
Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)	Turbidity (NTU)	рН	Total Coliform CFU/100ml	E.Coli CFU/100ml
11/05/19	Tsulquate River (Untreated)		0.35	6.9		, 20031	12/03/19	Tsulquate River (Untreated)		1.48	6.6		.,
	(====earca)							(========)					

RAW WATER BACTERIOLOGICAL SAMPLING RESULTS

Water Sample Range Report for DISTRICT OF PORT HARDY WATER PLANT

Page 1 of 2

Water Sample Range Report

Island Health

Facility Name: DISTRICT OF PORT HARDY WATER PLANT

E - estimated

Facility Type: 301-10000 (DWT)
Date Range: Jan 1 2019 to Dec 9 2019

Date Created: Dec 09 2019

Result Values:

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Port Hardy,				
Tsulquate River Raw				
Water, Source site,				
Monthly				
	22-Jan-2019	62.4	3.1	
	05-Feb-2019	56.3	1.0	
	05-Mar-2019	24.6	L1	
	09-Apr-2019	261.3	L1	
	21-May-2019	178.9	4.1	
	18-Jun-2019	410.6	8.6	
	23-Jul-2019	1046.2	17.5	
	20-Aug-2019	1986.3	15.8	
	03-Sep-2019	1986.3	5.2	
	08-Oct-2019	1299.7	15.8	
	05-Nov-2019	1119.9	L1	
	03-Dec-2019	<u>461.1</u>	<u>27.5</u>	
	Total Positive:	12	9	0

Interpreting Sample Reports

L - less than

G - greater than

In VIHA, the results of drinking water sampling are reported using the following coding system: L1 Less than 1 (no detectable bacteria) - Meaning: No bacteria present

OG Overgrown - Meaning: Too many background bacteria to give an accurate count EST Estimated Count

and

A Sample not tested; Too long in transit

C Sample leaked/broken in transit

D Sample not tested; No collection date given

T Sample submitted unsatisfactory. Exceeded 30 hours holding time, please resample.

NS No sample received with requisition

TRIHALOMETHANE AND HALOACETIC ACID QUARTERLY RESULTS

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Analytical Report

Bill To: District of Port Hardy Project ID: Lot ID: 1327058

Box 68 Project Name: Control Number:

Matrix

 Port Hardy, BC, Canada
 Project Location:
 Date Received:
 Jan 11, 2019

 V0N 2P0
 LSD:
 Date Reported:
 Jan 21, 2019

 Attn:
 Accounts Payable
 P.O.:
 Report Number:
 2370695

Sampled By: Robert Cousins Proj. Acct. code:

Company: District of Port Hardy

 Reference Number
 1327058-1
 1327058-2

 Sample Date
 Jan 10, 2019
 Jan 10, 2019

 Sample Time
 NA
 NA

 Sample Location
 NA
 NA

Sample Description DPH / Chatham Ave. DPH / Resrvoir / 11.1°C 11.1°C

Water Water

		Maurx	water	water		
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.047	0.013		0.001
Bromodichloromethane		mg/L	0.003	< 0.001		0.001
Dibromochloromethane		mg/L	<0.001	< 0.001		0.001
Bromoform		mg/L	<0.001	< 0.001		0.001
Total Trihalomethanes		mg/L	0.050	0.013		0.001
Trihalomethanes - Surrog	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	103	99		50-140
Toluene-d8	EPA Surrogate	%	107	95		50-140
Bromofluorobenzene	EPA Surrogate	%	103	115		50-140
Haloacetic Acids - Water						
Monochloroacetic Acid		μg/L	<2.0	<2.0		2.0
Monobromoacetic Acid		μg/L	<2.0	<2.0		2.0
Dichloroacetic Acid		μg/L	13.8	2.9		2.0
Bromochloroacetic Acid		μg/L	<2.0	<2.0		2.0
Dibromoacetic Acid		μg/L	<2.0	<2.0		2.0
Trichloroacetic Acid		μg/L	12.6	2.4		2.0
Total Haloacetic Acids (HAA6)		µg/L	26.4	5.3		2.0

Approved by:

Mathieu Simoneau Operations Manager

Nothier Simmeon

Operations Manager

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).

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Analytical Report

Lot ID: 1342336 Bill To: District of Port Hardy Project ID:

Project Name: Box 68 Control Number:

Port Hardy, BC, Canada Project Location: Date Received: Apr 3, 2019 V0N 2P0 Date Reported: Apr 11, 2019 LSD: Attn: Accounts Payable P.O.: Report Number: 2392723

Sampled By: R. LeFort Proj. Acct. code:

Company: District of Port Hardy

Reference Number 1342336-1 1342336-2 Apr 02, 2019 Apr 02, 2019 Sample Date Sample Time 09:05 10:37 Sample Location

Sample Description WTP Reservoir / 6.4 Chatham Ave. / 6.4 °C °C

		Matrix	Water	Water		
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.003	0.049		0.001
Bromodichloromethane		mg/L	<0.001	0.002		0.001
Dibromochloromethane		mg/L	<0.001	< 0.001		0.001
Bromoform		mg/L	<0.001	< 0.001		0.001
Total Trihalomethanes		mg/L	0.003	0.051		0.001
Trihalomethanes - Surrog	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	109	108		50-140
Toluene-d8	EPA Surrogate	%	99	98		50-140
Bromofluorobenzene	EPA Surrogate	%	97	103		50-140
Haloacetic Acids - Water						
Monochloroacetic Acid		µg/L	<2.0	<2.0		2.0
Monobromoacetic Acid		μg/L	<2.0	<2.0		2.0
Dichloroacetic Acid		µg/L	5.8	13.9		2.0
Bromochloroacetic Acid		μg/L	<2.0	<2.0		2.0
Dibromoacetic Acid		μg/L	<2.0	<2.0		2.0
Trichloroacetic Acid		µg/L	7.9	21.8		2.0
Total Haloacetic Acids (HAA6)		μg/L	13.7	35.7		2.0

Nothier Approved by:

Mathieu Simoneau

Operations Manager

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Analytical Report

Bill To: District of Port Hardy

Box 68

Port Hardy, BC, Canada

V0N 2P0

Attn: Accounts Payable Sampled By: R. LeFort

Company: District of Port Hardy

Project ID:

Project Name: Project Location:

LSD: P.O.:

Proj. Acct. code:

Lot ID: 1363165

Control Number:

Date Received: Jul 11, 2019 Date Reported: Jul 22, 2019 Report Number: 2422902

Reference Number 1363165-1 1363165-2 Sample Date Jul 10, 2019 Jul 10, 2019 Sample Time 10:30 11:15 Sample Location

Sample Description WTP Reservoir / 7.9 Chatham Ave. / 7.9 °C °C

Matrix Water Water Nominal Detection Analyte Units Results Results Results Trihalomethanes Screen - Water 0.025 0.058 0.001 Chloroform mg/L Bromodichloromethane mg/L 0.002 0.004 0.001 <0.001 < 0.001 0.001 Dibromochloromethane mg/L Bromoform mg/L < 0.001 < 0.001 0.001 0.001 Total Trihalomethanes 0.027 0.082 mg/L Trihalomethanes - Surrogate Recovery Dibromofluoromethane EPA Surrogate % 119 116 50-140 100 50-140 Toluene-d8 EPA Surrogate % 101 % 50-140 Bromofluorobenzene EPA Surrogate 98 97 Haloacetic Acids - Water Monochloroacetic Acid μg/L <2.0 <2.0 2.0 2.0 Monobromoacetic Acid <2.0 <2.0 μg/L Dichloroacetic Acid 7.9 16.0 2.0 μg/L Bromochloroacetic Acid μg/L <2.0 < 2.0 2.0 Dibromoacetic Acid μg/L <2.0 <2.0 2.0 Trichloroacetic Acid μg/L 10.6 23.8 2.0 μg/L Total Haloacetic Acids 18.5 39.8 2.0 (HAA6)





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Analytical Report

Bill To: District of Port Hardy

V0N 2P0

Attn: Accounts Payable

Project ID: Project Name:

Box 68 Port Hardy, BC, Canada Project Location:

LSD:

P.O.: 4092 Proj. Acct. code:

Lot ID: 1381198 Control Number:

Date Received: Oct 3, 2019 Date Reported: Oct 11, 2019 Report Number: 2447728

Sampled By: R. LeFort

Company: District of Port Hardy

Reference Number Sample Date 1381198-2 October 02, 2019 11:30

Sample Time Sample Location

Sample Description

Chatham Ave. / 4 °C

		Sample Matrix	Water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.082	0.001		
Bromodichloromethane		mg/L	0.004	0.001		
Dibromochloromethane		mg/L	< 0.001	0.001		
Bromoform		mg/L	< 0.001	0.001		
Total Trihalomethanes		mg/L	0.086	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	110	50-140		
Toluene-d8	EPA Surrogate	%	98	50-140		
Bromofluorobenzene	EPA Surrogate	%	100	50-140		
Haloacetic Acids - Water	г					
Monochloroacetic Acid		μg/L	<2.0	2.0		
Monobromoacetic Acid		μg/L	<2.0	2.0		
Dichloroacetic Acid		μg/L	8.7	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Trichloroacetic Acid		μg/L	40.2	2.0		
Total Haloacetic Acids (HAA6)		μg/L	48.9	2.0		

Matthew Norman, BSc, PChem Operations Chemist

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Analytical Report

Bill To: District of Port Hardy

Box 68

Port Hardy, BC, Canada

V0N 2P0

Attn: Accounts Payable

Sampled By: R. LeFort Company: District of Port Hardy Project ID: Project Name:

Project Location: LSD:

Proj. Acct. code:

P.O.: 4092 Lot ID: 1381198

Control Number:

Date Received: Oct 3, 2019 Date Reported: Oct 11, 2019 Report Number: 2447728

Reference Number Sample Date Sample Time 1381198-1 October 02, 2019

10:20

Sample Location

Sample Description Reservoir / 4 °C

		Sample Matrix	Water			
				Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Trihalomethanes Screen	ı - Water					
Chloroform		mg/L	0.037	0.001		
Bromodichloromethane		mg/L	0.002	0.001		
Dibromochloromethane		mg/L	< 0.001	0.001		
Bromoform		mg/L	< 0.001	0.001		
Total Trihalomethanes		mg/L	0.039	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	106	50-140		
Toluene-d8	EPA Surrogate	%	100	50-140		
Bromofluorobenzene	EPA Surrogate	%	105	50-140		
Haloacetic Acids - Water	r					
Monochloroacetic Acid		μg/L	<2.0	2.0		
Monobromoacetic Acid		μg/L	<2.0	2.0		
Dichloroacetic Acid		μg/L	12.4	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Trichloroacetic Acid		μg/L	17.9	2.0		
Total Haloacetic Acids (HAA6)		μg/L	30.3	2.0		

ADDITIONAL SAMPLING RESULTS

Sampling Results before bringing Fort Rupert Reservoir and Storey's Beach PRV online



Maxxam Job #: B901539 Report Date: 2019/01/10 DISTRICT OF PORT HARDY

Your P.O. #: 1936

MICROBIOLOGY (DRINKING WATER)

Maxxam ID				VB1795	VB1796		
Sampling Date				2019/01/07	2019/01/07		
COC Number				g034087	g034087		
		UNITS	MAC	STORIES BEACH PRV	FR RESERVOIR	QC Batch	
Microbiologica	l Param.				•		
Total Coliforms	;	CFU/100mL	0	0	0	9286751	
E. coli		CFU/100mL	0	0	0	9286751	
No Fill	No Exceed	ance					
Grey	Exceeds 1	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels						



Maxxam Job #: B903636 Report Date: 2019/01/18 DISTRICT OF PORT HARDY Your P.O. #: 1936

MICROBIOLOGY (DRINKING WATER)

Maxxam ID				VC2229		
Sampling Da	to			2019/01/15		
Sampling Da	ite			11:00		
COC Numbe	r			129524		
		UNITS	MAC	C FR RESERVOIR QC Ba		
Microbiolog	ical Param.		-			
Total Colifon	ms	CFU/100mL	0	0	9297155	
E. coli		CFU/100mL	0	0	9297155	
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					

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Storey's Beach Sampling

TOREY'S BEACH	Port Hardy – Salt Water	Port Hardy – Salt Water				
	Carlton Street					
	Rotary Pavilion	Bacteriological Sample on 28/05/2019 – E. Coli : L5				
	Scotia Street	Bacteriological Sample on 28/05/2019 – E. Coli : L5				
	100 m NW of Rotary Pavilion	Bacteriological Sample on 28/05/2019 – E. Coli : L5				
		Bacteriological Sample on 28/05/2019 – E. Coli : L5				
	100 m SE of Rotary Pavilion					

STOREY'S BEACH	Port Hardy – Salt Water	Port Hardy – Salt Water				
	Carlton Street	Bacteriological Sample on 28/05/2019 – Enterococci : L5				
	Rotary Pavilion	Bacteriological Sample on 28/05/2019 - Enterococci: L5				
	Scotia Street	Bacteriological Sample on 28/05/2019 – Enterococci: L5				
	100 m NW of Rotary Pavilion	Bacteriological Sample on 28/05/2019 – Enterococci: L5				
	100 m SE of Rotary Pavilion	Bacteriological Sample on 25/06/2019 – Enterococci: L5				
		Bacteriological Sample on 25/06/2019 – Enterococci: L5				
		Bacteriological Sample on 28/05/2019 – Enterococci: L5				

Last updated Thursday, July 04, 2019

Source Surface Water Sampling of Tsulquate River



Maxxam Job #: 8934790 Report Date: 2019/05/16 DISTRICT OF PORT HARDY
Site Location: PORT HARDY WTP

Your P.O. #: 1936 Sampler Initials: RL

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		VQ6341		
Campling Date		2019/05/08		
Sampling Date		11:30		
COC Number		007221		
	UNITS	RIVER RAW	RDL	QC Batch
Total Metals by ICPMS	-	-		
Total Aluminum (Al)	ug/L	104	3.0	9415590
Total Antimony (Sb)	ug/L	<0.50	0.50	9415590
Total Arsenic (As)	ug/L	<0.10	0.10	9415590
Total Barium (Ba)	ug/L	<1.0	1.0	9415590
Total Beryllium (Be)	ug/L	<0.10	0.10	9415590
Total Bismuth (Bi)	ug/L	<1.0	1.0	9415590
Total Boron (B)	ug/L	<50	50	9415590
Total Cadmium (Cd)	ug/L	0.025	0.010	9415590
Total Chromium (Cr)	ug/L	<1.0	1.0	9415590
Total Cobalt (Co)	ug/L	<0.20	0.20	9415590
Total Copper (Cu)	ug/L	5.76	0.50	9415590
Total Iron (Fe)	ug/L	91	10	9415590
Total Lead (Pb)	ug/L	4.47	0.20	9415590
Total Manganese (Mn)	ug/L	3.7	1.0	9415590
Total Molybdenum (Mo)	ug/L	<1.0	1.0	9415590
Total Nickel (Ni)	ug/L	<1.0	1.0	9415590
Total Selenium (Se)	ug/L	<0.10	0.10	9415590
Total Silicon (Si)	ug/L	1330	100	9415590
Total Silver (Ag)	ug/L	<0.020	0.020	9415590
Total Strontium (Sr)	ug/L	5.3	1.0	9415590
Total Thallium (TI)	ug/L	<0.010	0.010	9415590
Total Tin (Sn)	ug/L	<5.0	5.0	9415590
Total Titanium (Ti)	ug/L	<5.0	5.0	9415590
Total Uranium (U)	ug/L	<0.10	0.10	9415590
Total Vanadium (V)	ug/L	<5.0	5.0	9415590
Total Zinc (Zn)	ug/L	17.0	5.0	9415590
Total Zirconium (Zr)	ug/L	<0.10	0.10	9415590
RDL = Reportable Detection	Limit			



Maxxam Job #: B934790 Report Date: 2019/05/16 DISTRICT OF PORT HARDY
Site Location: PORT HARDY WTP

Your P.O. #: 1936 Sampler Initials: RL

VIHA PKG, SURFACE WATER - VICTORIA (WATER)

Maxxam ID		VQ6341		
Sampling Date		2019/05/08		
		11:30		
COC Number		007221		
	UNITS	RIVER RAW	RDL	QC Batch
Misc. Inorganics				
UV absorbance (254nm)	AU/cm	0.184	0.010	9413181
ANIONS	•	•	•	•
Nitrite (N)	mg/L	<0.0050	0.0050	9414401
Calculated Parameters	•	•	•	•
Total Hardness (CaCO3)	mg/L	7.13	0.50	9410360
Nitrate (N)	mg/L	0.030	0.020	9410721
Total Organic Nitrogen (N)	mg/L	<0.020	0.020	9411412
Transmittance at 254nm	%T/cm	65.4	N/A	9411482
Misc. Inorganics		•		•
Fluoride (F)	mg/L	<0.020	0.020	9414113
Alkalinity (Total as CaCO3)	mg/L	5.5	1.0	9415138
Total Organic Carbon (C)	mg/L	3.5	0.50	9416897
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	9415138
Bicarbonate (HCO3)	mg/L	6.7	1.0	9415138
Carbonate (CO3)	mg/L	<1.0	1.0	9415138
Hydroxide (OH)	mg/L	<1.0	1.0	9415138
Anions	•	•	•	•
Dissolved Sulphate (SO4)	mg/L	<1.0	1.0	9415632
Dissolved Chloride (Cl)	mg/L	2.2	1.0	9413813
MISCELLANEOUS				
True Colour	Col. Unit	37	5	9411522
Tannins and Lignins	mg/L	0.77	0.10	9414903
Nutrients		•	•	
Total Ammonia (N)	mg/L	0.076	0.015	9414715
Nitrate plus Nitrite (N)	mg/L	0.030	0.020	9414400
Total Nitrogen (N)	mg/L	0.093	0.020	9416974
Physical Properties		•		
Conductivity	uS/cm	23.5	2.0	9415139
рН	pH	6.93		9415129
Physical Properties	•	•	•	
Total Dissolved Solids	mg/L	25	10	9411342
RDL = Reportable Detection I				
N/A = Not Applicable				
•••				



Maxxam Job #: 8934790 Report Date: 2019/05/16

DISTRICT OF PORT HARDY Site Location: PORT HARDY WTP Your P.O. #: 1936 Sampler Initials: RL

VIHA PKG, SURFACE WATER - VICTORIA (WATER)

Maxxam ID		VQ6341		
Maxxam ID				
Sampling Date		2019/05/08		
		11:30		
COC Number		007221		
	UNITS	RIVER RAW	RDL	QC Batch
Turbidity	NTU	0.38	0.10	9413269
Elements				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9416334
Total Metals by ICPMS				
Total Calcium (Ca)	mg/L	2.01	0.050	9410715
Total Magnesium (Mg)	mg/L	0.512	0.050	9410715
Total Potassium (K)	mg/L	0.065	0.050	9410715
Total Sodium (Na)	mg/L	1.63	0.050	9410715
Microbiological Param.				
Heterotrophic Plate Count	CFU/mL	23	1	9415190
Total Coliforms	CFU/100mL	90	N/A	9415136
E. coli	CFU/100mL	1.0	N/A	9415136
Calculated Parameters				
Langelier Index (@ 4.4C)	N/A	-3.86	N/A	9411435
Langelier Index (@ 60C)	N/A	-2.82	N/A	9411442
Saturation pH (@ 4.4C)	N/A	10.8	N/A	9411435
Saturation pH (@ 60C)	N/A	9.75	N/A	9411442
RDL = Reportable Detection L	imit	·		·
N/A = Not Applicable				



DISTRICT OF PORT HARDY Your P.O. #: 1936

MICROBIOLOGY (DRINKING WATER)

BV Labs ID				WD3489			
Sampling Date				2019/07/19 10:00			
COC Number				G129563			
		UNITS	MAC	RESERVOIR #1	QC Batch		
Microbiological Param.							
Total Coliforms (QT)		MPN/100mL	0	0	9516179		
E. coli (QT)		MPN/100mL	0	0	9516179		
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						



DISTRICT OF PORT HARDY Your P.O. #: 1936

MICROBIOLOGY (DRINKING WATER)

MICRODIOLOGI (DININKING WATER)								
BV Labs ID				WD1911				
Sampling Date				2019/07/18				
				12:10				
COC Number				G129562				
		UNITS	MAC	RESERVOIR #1	QC Batch			
Microbiological Param.								
Total Coliforms		CFU/100mL	0	0	9517266			
E. coli		CFU/100mL	0	0	9517266			
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							