

# WATER TREATMENT PLANT & DISTRIBUTION SYSTEM



**Operations Performance Annual Report 2020** 

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 2020, 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 two Level III Water Distribution Operator.

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

#### WATER TREATMENT PLANT

Throughout 2020, 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

Most capital projects in 2020 were postponed due to the coronavirus pandemic. However, utilities staff was able to complete the installation of new flocculation tank gearbox and motors. These units replace the original equipment installed in 2000 and are much more efficient.

#### ADDITIONAL HIGHLIGHTS:

- No violations to permit in 2020
- 1610 ML of water were produced in 2020
- 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
- Several power outages occurred in the later portion of 2020. In November, power was out to the north island for over 30 hours.
- A small water leak was found inside the water treatment plant on the 20<sup>th</sup>. After 20 years, one of
  the inner welds on the aluminum tank failed. The tank was taken offline and repaired on the 24<sup>th</sup>
  after a welder could complete the confined space training. The utilities crew performed as the
  confined space rescue team
- A General Chemistry/Physical Characteristics and Total Metals scan of the raw and treated water quality was performed on the February 25<sup>th</sup>. All results are within acceptable range
- On the May 1<sup>st</sup>, the main electrical switch disconnect failed on the 600 Volt, 600 amp service ruining the switch and fuses. Our FSR was able to secure parts on the mainland and have them brought to Campbell River where they were picked up by a District employee. The water plant had to run over the weekend on the diesel generator until Monday when the new parts could be installed
- A planned power outage occurred on August 13th. Operators switched the water plant to the standby diesel generator and there were no interruptions in service

## WATER DISTRIBUTION SYSTEM

In 2020, 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 2020, the majority of capital projects were postponed due to the Coronavirus pandemic. Some of the completed projects included:

- New leak detection equipment was purchased. Utilities staff can now use this equipment to help locate leaks that may not be boiling to the surface.
- A new altitude control valve was purchased for Fort Rupert Reservoir. This smaller valve will replace the original that is too large for the application and could cause issues within the distribution system
- Water main clearing continued to keep our infrastructure accessible
- Revisions to the mapping continued in 2019. The new maps have been delivered to the operators and edits and additions are underway

#### ADDITIONAL HIGHLIGHTS:

- All air valves in the District were inspected and insulated
- A project to install two new hydrants on Byng Road. A Traffic Control Plan has been created and the project should begin in early 2021
- All fire hydrants were "B" Serviced this year
- Work to locate 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
- A contractor was digging and broke the water main on Hastings Street on the January 7th. Utilities
  operators were able to excavate and make repairs promptly. Water samples were collected after
  the repairs on two consecutive days. All sample results were returned within expected
  parameters
- A water leak was found at the Fort Rupert Village Liftstation. The issue was isolated and repaired on February 12<sup>th</sup>. A new yard hydrant was installed
- A water leak was found at the water treatment plant on the February 21st. The leak was a service line no longer being used. The line was traced back to the main and deactivated

- In September, the leak detection equipment was deployed to survey for possible leaks in the Beaver Harbour area. A leak was found that was not surfacing that was approximately 60 litres/minute.
- A water service was repaired on MacDougal Road in November. The leak was estimated to be approximately 60 litres/minute
- 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
- A mainline water leak was found on Goodspeed Road. The thrust block on the end cap had deteriorated causing a leak. The end cap and thrust block were replaced and the leak repaired. This outage only affected one customer
- Two water service lines were repaired on McDougal Road in April. New water service line was installed from the main to the property line shutoffs
- A large structure fire on Hardy Bay Road on April 18th caused a high demand for water. Utility
  operators were able to make some adjustments and the water treatment plant was able to meet the
  water demands keeping the reservoirs near full
- A water main break occurred September 2<sup>nd</sup> on Main Street. 14 valves were required to isolate the
  issue. The water main was repaired and a new water main valve was installed during the repairs.
  Water mains were flushed after the break and water samples were sent out. All samples tested
  were returned within acceptable limits

## **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. In August, all District Backflow assemblies were tested and recertified.

## 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 2020, new meters were installed on commercial properties on Granville Street and Jensen Cove Road. Other meters that failed to read remotely were replaced after attempts to repair them failed.

## 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	27	24	27	26	26	26	27	26	26	26	26	27	314	
Reservoir Water pH Daily Grab Sample or Continuous 6.5 - 8.5	31	29	31	30	31	30	31	31	30	31	30	31	366	
Colour (Reservoir) AO: <= 15 TCU	27	24	27	26	26	26	27	26	26	26	26	27	314	
Free Chlorine Residual (Reservoir) Daily Grab Sample or Continuous	31	29	31	30	31	30	31	31	30	31	30	31	366	
Free Chlorine Residual Distribution Grab Sample	48	44	42	44	46	44	42	44	51	44	44	44	537	
Turbidity (Distribution)  Grab Samples	48	44	42	44	46	44	42	44	51	44	44	44	537	
Turbidity (Filter) Grab Sample or Continuous <= 0.3 NTU in at least 95%; never > 1.0 NTU	31	29	31	30	31	30	31	31	30	31	30	31	366	
Turbidity (Reservoir)  Daily Grab Sample or Continuous  1 NTU Maximum in finished water	31	29	31	30	31	30	31	31	30	31	30	31	366	
Escherichia Coli (E.coli) 11 per month Distribution, 1 Raw MAC: 0 CFU/100mL	12	12	12	12	12	12	12	12	19	12	12	12	151	
Total Coliforms 11 per month Distribution, 1 Raw MAC: 0 CFU/100mL	12	12	12	12	12	12	12	12	19	12	12	12	151	
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 <sup>th</sup> of the following month	1	1	1	1	1	1	1	1	1	1	1	1	12	
Annual Report Before January 31 <sup>st</sup>	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	3	2	1	3	2	4	3	2	2	2	3	2	29	
Water Service Locates	3	3	4	4	4	4	6	4	4	6	2	1	45	
Water Service Repairs	3	2	3	2	2	3	3	0	0	0	0	1	19	
Water Main Repairs	0	0	1	4	0	1	1	0	1	0	0	0	8	
BC One Calls	4	4	0	6	11	13	12	14	9	14	8	4	99	
PRV Inspections	11	11	0	0	0	0	11	0	0	0	0	0	33	
ERP Exercises	0	0	0	0	0	0	0	0	0	0	0	0	0	
Air Valve Inspections	0	0	0	0	0	0	0	0	0	10	22	0	32	
Mainline Valve Locates/Inspections	0	1	4	4	4	0	4	4	14	10	4	20	69	
Hydrant A - Services	0	0	0	0	4	0	0	0	0	1	0	0	5	
Hydrant B - Services	0	0	0	47	75	0	0	0	0	56	20	0	198	

# RAW AND TREATED WATER PRODUCTION

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Raw Water Pumped in ML	144	125	137	129	142	141	200	152	144	184	130	135	1762
Treated Water Production in ML	141	123	129	121	133	137	149	145	138	136	126	132	1610
Rainfall in mm	446	204	168	44	36.8	70.7	29.1	105.4	138.4	288.6	425.2	178	2134
Backwashes	36	33	36	36	38	36	38	36	34	34	35	37	429

# CHEMICAL USAGE

	January	February	March	April	May	June	July	August	September	October	November	December	Total
ISOPAC 6 Coagulant in kg	3881	3217	3292	2673	2604	3417	2639	3554	4861	7170	5574	5446	48328
Soda Ash in kg	1634	1453	1657	1453	1203	1430	999	999	1816	2361	2020	1771	18796
Filter Aid (LT20) in kg	0.89	0.82	0.81	0.79	0.97	0.95	1.00	0.97	0.92	0.92	0.82	0.88	10.74
Salt for Chlorine Generator in kg	780	720	620	420	460	420	900	1060	920	1040	800	920	9060
Liquid Sodium Hypochlorite 12% in kg	0	0	0	0	80	0	0	0	0	0	0	0	80
Lime in kg	1797	1687	1786	1896	1885	1836	2105	1998	2109	2711	2668	2735	25212
Carbon Dioxide in kg	2786	1540	2637	2570	2284	2848	2815	2975	3001	3145	3777	3405	33783

# DISTRIBUTION WATER QUALITY AND BACTERIOLOGICAL RESULTS

February

March

January

Dist	tribution	n Samp	ling		Dis	tributio	n Samp	ling			Dis	tributio	n Sampl	ing	
		Free	Turbidity				Free	Turbidity		1			Free Chlorine	Turbidity	
Location	Date	Chlorine mg/L	NTU	pH	Location	Date	Chlorine mg/L	NTU	pH		Location	Date	mg/L	NTU	pH
	01/07/20 01/21/20	0.4	0.25	7.6 7.5		02/04/20 02/11/20	0.5	0.15 0.17	7.6 7.7			03/03/20 10/03/20	0.5	0.16	7.3 7.8
Chatham Avenue	01/28/20	0.6	0.17	7.6	Chatham Avenue	02/18/20	0.8	0.18	7.5		Chatham Avenue	17/03/20	0.6	0.19	7.9
						02/25/20	0.6	0.17	7.7			24/03/20	0.6	0.25	7.6
						/ /				1		31/03/20	0.6	0.18	7.6
Peel Street	01/07/20 01/14/20	0.8	0.21	7.5 7.5	Peel Street	02/04/20 02/11/20	0.7	0.17	7.4	1		03/03/20 10/03/20	0.9	0.18	7.2 7.5
Liftstation	01/14/20	0.9	0.19	7.3	Liftstation	02/11/20	0.7	0.16	7.3	1	Peel Street	17/03/20	0.8	0.19	7.6
	01/28/20	0.7	0.28	7.5		02/25/20	0.8	0.24	7.5		Liftstation	24/03/20	0.8	0.18	7.4
										4		31/03/20	0.9	0.18	7.5
Airport Wastewater	01/07/20 01/14/20	0.7	0.18	7.4 7.4	Airport Wastewater	02/04/20 02/11/20	0.6	0.25	7.4 7.3	1		03/03/20 10/03/20	0.8	0.19	7.4 7.6
Treatment Plant	01/21/20	0.8	0.22	7.4	Treatment Plant	02/11/20	0.8	0.22	7.3	1	Airport Wastewater	17/03/20	0.8	0.20	7.6
	01/28/20	0.3	0.79	7.5		02/25/20	0.7	0.23	7.5		Treatment Plant	24/03/20	0.8	0.20	7.4
	04 /07 /00	0.0	0.04	7.		00 (04 (00	4.0	0.05		ļ		31/03/20 03/03/20	0.7	0.19	7.5
	01/07/20 01/14/20	0.9	0.94	7.6 7.4		02/04/20 02/11/20	1.0	0.25 0.15	7.4 7.3	1		10/03/20	0.8	0.31	7.3
Public Works Yard	01/21/20	1.0	0.37	7.5	Public Works Yard	02/18/20	0.8	0.16	7.4		Public Works Yard	17/03/20	1.0	0.21	7.6
	01/28/20	1.1	0.37	7.6		02/25/20	0.9	0.18	7.6			24/03/20	0.8	0.17	7.5
	01 /00 /00	0.4	0.20	7.0		02 /04 /20	0.5	0.21	7.0	4		31/03/20 03/03/20	1.0 0.5	0.16	7.6
	01/08/20 01/14/20	0.4	0.28	7.6 7.6		02/04/20 02/11/20	0.5	0.21	7.2 7.3	1		10/03/20	0.5	0.29	7.6 7.8
Eagleview School	01/21/20	0.5	0.29	7.5	Eagleview School	02/18/20	0.4	0.28	7.5		Eagleview School	17/03/20	0.5	0.29	7.4
	01/28/20	0.4	0.25	7.6		02/25/20	0.3	0.29	7.5		1	24/03/20	0.4	0.28	7.3
	01 /07 /00	0.7	0.10	7.		02/04/20	0.7	0.27	7-	ļ	-	31/03/20 03/03/20	0.7	0.25	7.6 7.2
	01/07/20 01/14/20	0.7	0.18	7.5 7.4		02/04/20 02/11/20	0.7	0.27	7.5 7.4	1	1	10/03/20	0.8	0.17 0.25	7.2
Bear Cove Reservoir	01/21/20	0.9	0.16	7.5	Bear Cove Reservoir	02/18/20	0.7	0.17	7.4		Bear Cove Reservoir	17/03/20	0.9	0.2	7.6
	01/28/20	0.7	0.75	7.5		02/25/20	0.9	0.19	7.5			24/03/20	0.7	0.17	7.4
	01/07/20	0.3	0.32	7.2		02/04/20	0.7	0.16	7.4	4		31/03/20 03/03/20	0.8	0.19 0.14	7.5 7.3
	01/07/20 01/14/20	0.3	0.32	7.4		02/04/20 02/11/20	0.7	0.16 0.11	7.4			10/03/20	0.8	0.14	7.8
Ferry Terminal	01/21/20	0.6	0.60	7.4	Ferry Terminal	02/18/20	0.8	0.13	7.3		Ferry Terminal	17/03/20	0.7	0.18	7.6
	01/28/20	0.7	0.67	7.5		02/25/20	0.7	0.16	7.4			24/03/20	0.7	0.20	7.5
	01 /07 /00	1.0	0.89	7.4		02 /04 /20	0.9	0.24	7.3	4		31/03/20	0.7	0.18 0.17	7.5 7.6
	01/07/20 01/14/20	1.0	0.89	7.4		02/04/20 02/11/20	1.0	0.24	7.3			03/03/20 10/03/20	0.8	0.17	7.8
		1.1	0.24	7.4	Highway 19 PRV	02/11/20	1.0	0.17	7.4	1	Highway 19 PRV	17/03/20	1.0	0.24	7.6
Highway 19 PRV								0.28	7.4						
Highway 19 PRV	01/21/20 01/28/20	1.0	0.20	7.5		02/25/20	1.0	0.28				24/03/20	0.9	0.18	7.4
	01/28/20											31/03/20	0.8	0.19	7.6
Average	01/28/20	0.7	0.36	7.5	Averag	2	0.7	0.20	7.4		Average	31/03/20	0.8 0.7	0.19 0.22	7.6 7.5
	01/28/20				Averag Minimu Maximu	e m					Average Minimur Maximui	31/03/20 n	0.8	0.19	7.6
Average Minimun	01/28/20	0.7 0.3 1.1	0.36 0.16	7.5 7.2	Minimu	2 m m	0.7 0.3 1.0	0.20 0.11	7.4 7.2		Minimur	31/03/20 : : : : : : :	0.8 0.7 0.4 1.0	0.19 0.22 0.14	7.6 7.5 7.2
Average Minimun Maximur	01/28/20	0.7 0.3 1.1	0.36 0.16 0.94	7.5 7.2	Minimu Maximu	Ma	0.7 0.3 1.0	0.20 0.11 0.31	7.4 7.2		Minimur Maximui	31/03/20 en n	0.8 0.7 0.4 1.0	0.19 0.22 0.14 0.53	7.6 7.5 7.2
Average Minimun Maximur	01/28/20	0.7 0.3 1.1	0.36 0.16 0.94	7.5 7.2	Minimu Maximu	2 m m	0.7 0.3 1.0	0.20 0.11 0.31	7.4 7.2		Minimur Maximui	31/03/20 en n	0.8 0.7 0.4 1.0	0.19 0.22 0.14 0.53	7.6 7.5 7.2
Average Minimun Maximur	o1/28/20 en h m h m h h h h h h h h h h h h h h h	0.7 0.3 1.1  oril  Free Chlorine (mg/L)	0.36 0.16 0.94	7.5 7.2 7.6	Minimu Maximu	Mi	0.7 0.3 1.0	0.20 0.11 0.31	7.4 7.2 7.7 7.7		Minimur Maximui	Ju	0.8 0.7 0.4 1.0  ne Sampl Free Chlorine mg/L	0.19 0.22 0.14 0.53	7.6 7.5 7.2 7.9
Average Minimun Maximur	on 1/28/20  on m  Ap  tribution  Date  04/06/20	0.7 0.3 1.1 Samp Florine (mg/L) 0.6	0.36 0.16 0.94 ling Turbidity (NTU)	7.5 7.2 7.6 pH	Minimu Maximu Dis	Matribution  Date  05/04/20	0.7 0.3 1.0 ay Samp Free Chlorine mg/L 0.5	0.20 0.11 0.31 ling Turbidity NTU	7.4 7.2 7.7 pH		Minimur Maximur	Ju tributio Date 06/01/20	0.8 0.7 0.4 1.0  ne  Sampl  Free Chlorine mg/L 0.6	0.19 0.22 0.14 0.53 ing Turbidity NTU	7.6 7.5 7.2 7.9 pH
Average Minimun Maximur	01/28/20 pm m Ap tribution Date 04/06/20 04/14/20	0.7 0.3 1.1  oril  Free Chlorine (mg/L)	0.36 0.16 0.94 ling Turbidity (NTU) 0.18 0.19	7.5 7.2 7.6	Minimu Maximu Dis	Matribution  Date  05/04/20 05/11/20	0.7 0.3 1.0	0.20 0.11 0.31 ling Turbidity NTU 0.19 0.21	7.4 7.2 7.7 pH 7.7 7.5		Minimur Maximur	Ju tributio Date 06/01/20 06/08/20	0.8 0.7 0.4 1.0 ne Sampl Free Chlorine mg/L 0.6	0.19 0.22 0.14 0.53 ing Turbidity NTU 0.15 0.18	7.6 7.5 7.2 7.9
Average Minimun Maximur  Dist	01/28/20 p m m Apptribution Date 04/06/20 04/14/20 04/27/20	0.7 0.3 1.1 Pril Samp Free Chlorine (mg/L) 0.6 0.4 0.5 0.6	0.36 0.16 0.94 ling Turbidity (NTU) 0.18 0.19 0.17	7.5 7.2 7.6 PH 7.5 7.6 7.2	Minimu Maximu Dis	Mi m m Date 05/04/20 05/11/20 05/12/20	0.7 0.3 1.0 Pay Samp Free Chlorine mg/L 0.5 0.5 0.5	0.20 0.11 0.31 ling Turbidity NTU 0.19 0.21 0.12	7.4 7.2 7.7 pH 7.7 7.5 7.6 7.7		Minimur Maximur  Dis  Location	31/03/20 m n Date 06/01/20 06/08/20 06/12/20	0.8 0.7 0.4 1.0 ne ne sampl Free Chlorine mg/L 0.6 0.6 0.4	0.19 0.22 0.14 0.53 ing Turbidity NTU 0.15 0.18 0.15	7.6 7.5 7.2 7.9 pH 7.6 7.8 7.7
Average Minimum Maximum  Dist  Location  Chatham Avenue	01/28/20 p m m Date 04/06/20 04/14/20 04/20/20 04/27/20	0.7 0.3 1.1 Samp Free Chlorine (mg/L) 0.6 0.4 0.5 0.6	0.36 0.16 0.94 ling Turbidity (NTU) 0.18 0.19 0.17 0.17	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.7	Minimu Maximu Dis Location Chatham Avenue	Main Main Main Main Main Main Main Main	0.7 0.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 ling Turbidity NTU 0.19 0.21 0.12 0.12	7.4 7.2 7.7 pH 7.7 7.5 7.6 7.7		Minimur Maximur  Dis  Location  Chatham Avenue	31/03/20 m n  Ju  tributio  Date  06/01/20 06/08/20 06/15/20 06/22/20 06/01/20	0.8 0.7 0.4 1.0 ne ne n Sampl Free Chlorine mg/L 0.6 0.6 0.4	0.19 0.22 0.14 0.53  ing Turbidity NTU 0.15 0.18 0.15 0.24 0.14	7.6 7.5 7.2 7.9 pH 7.6 7.8 7.7 7.7
Average Minimum Maximur  Disi  Location  Chatham Avenue	01/28/20  P m m  Ap  tribution  Date  04/06/20 04/14/20 04/20/20 04/27/20 04/06/20 04/06/20	0.7 0.3 1.1 Pril Samp Free Chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6	0.36 0.16 0.94 Urbidity (NTU) 0.18 0.19 0.17 0.17 0.18 0.19	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.7 7.4 7.4	Minimu Maximu  Dis  Location  Chatham Avenue	Mi tribution Date 05/04/20 05/11/20 05/26/20 05/26/20 05/04/20	0.7 0.3 1.0 ay Free Chlorine mg/L 0.5 0.5 0.4 0.6	0.20 0.11 0.31 Iing Turbidity NTU 0.19 0.21 0.12 0.12 0.13 0.19	7.4 7.2 7.7 PH 7.7 7.5 7.6 7.7 7.6 7.2		Minimur Maximur Maximur  Dis Location  Chatham Avenue	31/03/20 mn n  Ju  tributio  Date  06/01/20 06/08/20 06/15/20 06/22/20 06/01/20 06/08/20	0.8 0.7 0.4 1.0 1.0 Pree Chlorine mg/L 0.6 0.6 0.4 0.4 0.8	0.19 0.22 0.14 0.53  ing Turbidity NTU 0.15 0.18 0.15 0.24 0.14 0.12	7.6 7.5 7.2 7.9 pH 7.6 7.8 7.7 7.7 7.2 7.6
Average Minimum Maximur  Dist  Location  Chatham Avenue	01/28/20 p m m Date 04/06/20 04/14/20 04/20/20 04/27/20	0.7 0.3 1.1 Samp Free Chlorine (mg/L) 0.6 0.4 0.5 0.6	0.36 0.16 0.94 ling Turbidity (NTU) 0.18 0.19 0.17 0.17	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.7	Minimu Maximu Dis Location Chatham Avenue	Mistribution  Date  05/04/20 05/11/20 05/19/20 05/26/20 05/04/20 05/04/20 05/05/05/20	0.7 0.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 ling Turbidity NTU 0.19 0.21 0.12 0.12	7.4 7.2 7.7 pH 7.7 7.5 7.6 7.7		Minimur Maximur  Dis  Location  Chatham Avenue	31/03/20 m n  Ju  tributio  Date  06/01/20 06/08/20 06/15/20 06/22/20 06/01/20	0.8 0.7 0.4 1.0 ne ne n Sampl Free Chlorine mg/L 0.6 0.6 0.4	0.19 0.22 0.14 0.53  ing Turbidity NTU 0.15 0.18 0.15 0.24 0.14	7.6 7.5 7.2 7.9 pH 7.6 7.8 7.7 7.7
Average Minimum Maximum Maximum  Dist  Location  Chatham Avenue	01/28/20  p m m  Date  04/06/20 04/14/20 04/20/20 04/22/20 04/22/20 04/22/20 04/22/20	0.7 0.3 1.1 Samp Free Chlorine (mg/L) 0.6 0.4 0.5 0.6 0.8 0.5	0.36 0.16 0.94 0.94 Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.7 7.4 7.4 7.4 7.5	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation	Main Main Main Main Main Main Main Main	0.7 0.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 Turbidity NTU 0.19 0.21 0.12 0.13 0.19 0.19 0.11	7.4 7.2 7.7 7.7 pH 7.7 7.5 7.6 7.7 7.5 7.6 7.2 7.5 7.6		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation	Ju tributio  Date  06/01/20 06/08/20 06/15/20 06/08/20 06/15/20 06/08/20 06/22/20 06/08/20	0.8 0.7 0.4 1.0 ne n Sampl Free Chlorine mg/L 0.6 0.4 0.4 0.8 0.8 0.5 0.5	0.19 0.22 0.14 0.53  Ing Turbidity NTU 0.15 0.18 0.15 0.24 0.14 0.12 0.16 0.15 0.14	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.7 7.5
Average Minimun Maximur  Dist  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater	01/28/20  P m m  Ap  tribution  Date  04/06/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20	0.7 0.3 1.1  Pril  Samp  Free Chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.8 0.5 0.6 0.5 0.6 0.5	0.36 0.16 0.94 Urbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15 0.18	7.5 7.2 7.6 7.6 7.5 7.6 7.2 7.7 7.4 7.4 7.4 7.3 7.5	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Lifistation  Airport Wastewater	Date   Date   D5/11/20   D5/19/20   D5/19/20	07 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.31 0.19 0.12 0.12 0.12 0.13 0.19 0.19 0.19 0.19 0.19	7.4 7.2 7.7 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.5 7.6 7.7 7.5 7.5 7.5		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater	Ju tributio Date  06/01/20 06/08/20 06/02/20 06/02/20 06/02/20 06/02/20 06/02/20 06/02/20 06/02/20	0.8 0.7 0.4 1.0 ne ne n Sampl Free Chlorine mg/ L 0.6 0.6 0.4 0.4 0.8 0.5 0.5	0.19 0.22 0.14 0.53  Ing Turbidity NTU 0.15 0.18 0.15 0.24 0.14 0.12 0.16 0.15 0.14 0.13	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.2 7.5 7.4 7.5 7.7
Average Minimum Maximum Maximum  Dist  Location  Chatham Avenue	01/28/20  p m m  Date  04/06/20 04/14/20 04/20/20 04/22/20 04/22/20 04/22/20 04/22/20	0.7 0.3 1.1 Samp Free Chlorine (mg/L) 0.6 0.4 0.5 0.6 0.8 0.5	0.36 0.16 0.94 0.94 Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.7 7.4 7.4 7.4 7.5	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation	Mistribution  Date  05/04/20 05/11/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/26/20 05/26/20 05/36/20 05/36/20 05/36/20 05/36/20	0.7 0.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 Turbidity NTU 0.19 0.21 0.12 0.13 0.19 0.19 0.11	7.4 7.2 7.7 7.7 pH 7.7 7.5 7.6 7.2 7.5 7.6 7.2 7.5 7.6 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation	Ju tributio  Date  06/01/20 06/08/20 06/15/20 06/08/20 06/15/20 06/08/20 06/22/20 06/08/20	0.8 0.7 0.4 1.0 ne n Sampl Free Chlorine mg/L 0.6 0.4 0.4 0.8 0.8 0.5 0.5	0.19 0.22 0.14 0.53  Ing Turbidity NTU 0.15 0.18 0.15 0.24 0.14 0.12 0.16 0.15 0.14	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.7 7.5
Average Minimum Maximur  Diss  Location  Chatham Avenue  Peel Street Lifistation  Airport Wastewater	01/28/20  2  m  Date  04/06/20  04/14/20  04/20/20  04/14/20  04/06/20  04/06/20  04/06/20  04/06/20  04/06/20  04/06/20	0.7 0.3 1.1 Pril Samp Free Chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.9 0.6 0.5 0.6	0.36 0.16 0.94 0.94 0.94 0.94 0.18 0.19 0.17 0.17 0.18 0.19 0.15 0.15 0.18	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.4 7.4 7.4 7.5 7.5 7.5	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Lifistation  Airport Wastewater	Mistribution  Date  05/04/20 05/11/20 05/11/20 05/19/20 05/11/20 05/19/20 05/11/20 05/19/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/04/20 05/11/20 05/04/20	07 03 1.0 Pree Chlorine mg/L 0.5 0.5 0.4 0.6 0.5 0.7 0.7 0.4	0.20 0.11 0.31 0.31 0.31 0.31 0.19 0.12 0.12 0.12 0.13 0.19 0.19 0.19 0.19 0.19 0.19	7.4 7.2 7.7 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.5 7.6 7.7 7.5 7.5 7.5		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater	Ju tributio  Date 06/01/20 06/08/20 06/15/20 06/15/20 06/15/20 06/15/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20	0.8 0.7 0.4 1.0 ne ne n Sampl Free Chlorine mg/L 0.6 0.6 0.4 0.8 0.8 0.5 0.5 0.5	0.19 0.22 0.14 0.53  Ing Turbidity NTU 0.15 0.18 0.15 0.24 0.12 0.16 0.15 0.14 0.13 0.17	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.7 7.7 7.5 7.5 7.5 7.5
Average Minimun Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	01/28/20  2  m m  Date  04/06/20 04/14/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20	0.7 0.3 1.1  Pril  Samp  Free (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.8 0.5 0.6 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7	0.36 0.16 0.94 ling Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.18 0.19 0.15 0.18 0.19 0.15 0.19 0.15 0.19 0.15 0.19	7.5 7.2 7.6 PH PF 7.5 7.6 7.2 7.7 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	Mistribution  Date  05/04/20 05/11/20 05/11/20 05/19/20 05/11/20 05/19/20 05/11/20 05/26/20 05/26/20 05/26/20 05/26/20 05/26/20 05/26/20 05/26/20 05/26/20	07 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.31 0.31 0.19 0.19 0.12 0.13 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.4 7.2 7.7 7.7 7.7 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5		Minimur Maximur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	Ju tributio  Date  06/01/20 06/08/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20	0.8 0.7 0.4 1.0  ne n Sampl Free Chlorine mg/L 0.6 0.4 0.8 0.8 0.8 0.5 0.5 0.5 0.5 0.4 0.4 0.9	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.19 0.19 0.19 0.10 0.11 0.11 0.11 0.11	7.6 7.5 7.2 7.9 pH pH 7.6 7.8 7.7 7.7 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5
Average Minimun Maximur  Dist  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater	01/28/20  primary and a primar	0.7 0.3 1.1  Pril  Samp  Free Chlorine (mg/L) 0.6 0.6 0.4 0.5 0.6 0.6 0.5 0.6 0.6 0.7 0.7 0.5 0.4 0.9	0.36 0.16 0.94 Ling Turbidity (NTU) 0.18 0.19 0.17 0.17 0.15 0.15 0.15 0.14 0.14 0.19 0.19 0.19	7.5 7.2 7.6 7.6 7.7 7.7 7.7 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Lifistation  Airport Wastewater	Date    Date   D	07 03 1.0 Pree Chlorine mg/L 0.5 0.5 0.5 0.6 0.6 0.6 0.7 0.4 0.6 0.5 0.7 0.4 0.6 0.5 0.5 0.5	0.20 0.11 0.31 0.31 0.31 0.19 0.21 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.21 0.23 0.14 0.12 0.23	7.4 7.2 7.7 7.7 7.5 7.6 7.2 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater	Ju tributio  Date  06/01/20 06/08/20 06/15/20 06/08/20 06/15/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20	0.8 0.7 0.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.14 0.12 0.16 0.15 0.14 0.13 0.17 0.16 0.13 0.22 0.18	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.2 7.6 7.7 7.7 7.5 7.7 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimun Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	01/28/20  2 m m  Date  04/06/20 04/14/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20	0.7 0.3 1.1  Free (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.8 0.5 0.6 0.7 0.5 0.6 0.7 0.7 0.7 0.9 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.36 0.16 0.94 ling Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.18 0.19 0.15 0.18 0.19 0.15 0.19 0.15 0.19 0.15 0.19	7.5 7.2 7.6 PH 7.5 7.6 7.7 7.4 7.4 7.5 7.5 7.5 7.5 7.6 7.7 7.4 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	Main mm Main m	07 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.31 0.31 0.19 0.19 0.12 0.13 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	PH 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	Ju tributio  Date  06/01/20 06/08/20 06/08/20 06/08/20 06/01/20 06/08/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20	0.8 0.7 0.4 1.0  ne n Sampl Free Chlorine mg/L 0.6 0.4 0.8 0.8 0.8 0.5 0.5 0.5 0.5 0.4 0.4 0.9	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.19 0.19 0.19 0.10 0.11 0.11 0.11 0.11	7.6 7.5 7.2 7.9 pH pH 7.6 7.8 7.7 7.7 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5
Average Minimum Maximur  Disl  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	01/28/20  2 m m Date 04/06/20 04/14/20 04/20/20 04/14/20 04/20/20	0.7 0.3 1.1  Pril  Samp  Free Chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.5 0.6 0.5 0.6 0.7 0.7 0.7 0.9 0.6 0.8 0.9 0.6 0.9 0.6 0.8 0.9 0.6 0.9 0.6 0.6 0.7 0.7 0.7 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.36 0.16 0.94  Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15 0.15 0.18 0.24 0.12 0.19 0.18 0.21 0.19 0.18 0.21 0.19 0.18 0.21 0.19 0.18 0.21 0.19 0.18	7.5 7.2 7.6 7.5 7.6 7.5 7.6 7.7 7.7 7.4 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	Tribution  Date  05/04/20 05/11/20 05/11/20 05/19/20 05/11/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/04/20 05/04/20 05/04/20 05/04/20 05/04/20 05/04/20 05/04/20	07 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.19 0.19 0.12 0.12 0.13 0.19 0.19 0.19 0.11 0.15 0.23 0.14 0.12 0.23 0.14 0.15 0.20 0.50 0.50 0.50 0.50 0.50 0.50 0.5	PH 7.7 7.5 7.6 7.2 7.5 7.6 7.2 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	31/03/20  n n Tibutio  Date  06/01/20 06/08/20 06/15/20 06/01/20 06/08/20 06/15/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20	0.8 0.7 0.4 1.0  1.0  1.0  1.0  1.0  1.0  1.0	ing  Turbidity NTU  0.15 0.18 0.15 0.18 0.19 0.10 0.11 0.11 0.11 0.11 0.11 0.11	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.7 7.5 7.5 7.5 7.5 7.5 7.7 7.7
Average Minimum Maximur  Diss  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	01/28/20  2 mm  Date  04/06/20 04/14/20 04/20/20 04/21/20 04/20/20 04/21/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20	0.7 0.3 1.1 1 Samp Free (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.9 0.6 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.6 0.7 0.7 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.36 0.16 0.94  ling Turbidity (NTU) 0.18 0.19 0.17 0.17 0.18 0.19 0.15 0.18 0.24 0.14 0.12 0.19 0.18 0.22 0.19 0.18 0.22 0.19 0.18 0.22	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.7 7.4 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	Mistribution  Date  05/04/20  05/11/20  05/11/20  05/19/20  05/11/20  05/19/20  05/11/20  05/11/20  05/19/20  05/11/20  05/11/20  05/04/20  05/04/20  05/04/20  05/04/20  05/04/20  05/04/20  05/04/20	07 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.19 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.23 0.14 0.23 0.14 0.20 0.21 0.23	PH PH 7.7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant	Ju tributio  Date  66/01/20 66/08/20 06/15/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20	0.8 0.7 0.4 1.0  n Sampl FreeChlorine mg/L 0.6 0.6 0.4 0.4 0.4 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.4 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.24 0.13 0.17 0.16 0.13 0.17 0.16 0.17 0.16	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.5 7.5 7.5 7.7 7.7 7.7 7.7 7.7
Average Minimun Maximur  Disl  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	01/28/20  p m m  Date  04/06/20 04/14/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20 04/20/20	0.7 0.3 1.1  Pril  Samp  Free Chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.8 0.5 0.6 0.7 0.7 0.5 0.6 0.7 0.7 0.5 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.36 0.16 0.94  Ling Turbidity (NTU) 0.18 0.19 0.17 0.17 0.18 0.19 0.15 0.18 0.19 0.15 0.18 0.19 0.11 0.19 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.2 7.6 PH 7.5 7.6 7.7 7.7 7.4 7.4 7.3 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	Date   Da	07 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.31 0.19 0.12 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.23 0.14 0.12 0.33 0.14 0.15 0.21 0.23 0.16 0.33	PH 7.7 7.5 7.6 7.2 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.7 7.5 7.6 7.7 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	Ju tributio  Date  06/01/20 06/08/20 06/05/20	0.8 0.7 0.4 1.0  1.0  1.0  1.0  1.0  1.0  1.0	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.16 0.13 0.17 0.16 0.13 0.19 0.16 0.17 0.16 0.17 0.18	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimum Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	01/28/20  Tribution  Date  04/06/20 04/14/20 04/20/20	0.7 0.3 1.1 1 Samp Free (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.9 0.6 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.7 0.5 0.6 0.6 0.7 0.7 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.36 0.16 0.94  ling Turbidity (NTU) 0.18 0.19 0.17 0.17 0.18 0.19 0.15 0.18 0.24 0.14 0.12 0.19 0.18 0.22 0.19 0.18 0.22 0.19 0.18 0.22	7.5 7.2 7.6 PH 7.5 7.6 7.2 7.7 7.4 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	Date    Date   Dold   Date   Dold   Date   D	07 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.19 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.23 0.14 0.23 0.14 0.20 0.21 0.23	PH PH 7.7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	Ju tributio  Date  66/01/20 66/08/20 06/15/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20	0.8 0.7 0.4 1.0  n Sampl FreeChlorine mg/L 0.6 0.6 0.4 0.4 0.4 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.4 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.24 0.13 0.17 0.16 0.13 0.17 0.16 0.17 0.16	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.5 7.5 7.5 7.7 7.7 7.7 7.7 7.7
Average Minimun Maximur  Disl  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	01/28/20  2 m m  Date  04/06/20 04/14/20 04/20/20 04/14/20 04/20/20	0.7 0.3 1.1  Free (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.5 0.6 0.7 0.7 0.7 0.9 0.6 0.6 0.7 0.7 0.7 0.9 0.6 0.6 0.7 0.7 0.7 0.9 0.6 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.36 0.16 0.94  Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15 0.18 0.24 0.14 0.12 0.19 0.18 0.22 0.11 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.2 7.6 7.5 7.6 7.6 7.7 7.4 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.7 7.4 7.5 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	Tribution  Date  05/04/20 05/11/20	07 03 1.0  1.0  1.0  1.0  1.0  1.0  1.0  1	0.20 0.11 0.31 0.31 0.31 0.31 0.19 0.12 0.12 0.12 0.13 0.19 0.15 0.21 0.21 0.21 0.23 0.14 0.20 0.21 0.21 0.21 0.21 0.21 0.21 0.21	PH PH 7.7 7.5 7.5 7.5 7.5 7.6 7.7 7.7 7.6 7.6 7.7 7.7 7.6 7.6 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard	Ju tributio  Date  06/01/20 06/08/20 06/08/20 06/08/20 06/01/20 06/08/20 06/01/20	0.8 0.7 0.4 1.0  ne n Sampl Free Chlorine mg/L 0.6 0.4 0.8 0.8 0.8 0.5 0.5 0.5 0.5 0.4 0.4 0.4 0.9 0.3 0.4 0.4 0.9 0.3 0.4 0.4 0.9 0.3 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.19 0.19 0.10 0.11 0.11 0.11 0.11 0.11	7.6 7.5 7.2 7.9 pH 7.6 7.8 7.7 7.7 7.7 7.5 7.5 7.5 7.7 7.7 7.7 7.7
Average Minimum Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	01/28/20  2 m m  Date  04/06/20 04/14/20 04/20/20	0.7 0.3 1.1  Samp  Free (chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.5 0.6 0.7 0.5 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.7 0.9 0.6 0.7 0.9 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.36 0.16 0.94  Turbidity (NTU) 0.18 0.19 0.17 0.17 0.18 0.19 0.15 0.18 0.24 0.14 0.12 0.19 0.18 0.22 0.11 0.18 0.22 0.11 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.2 7.6 7.5 7.6 7.5 7.6 7.2 7.7 7.4 7.4 7.3 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	Date    Date   D	107 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.31 0.19 0.12 0.12 0.13 0.19 0.11 0.21 0.23 0.14 0.20 0.33 0.14 0.20 0.33 0.14 0.21 0.30 0.31 0.31 0.31 0.31 0.31 0.31 0.3	7.4 7.2 7.7 7.7 7.7 7.7 7.5 7.6 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	Ju tributio  Date  66/01/20 66/08/20 66/08/20 66/15/20 66/08/20 66/15/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/15/20 66/08/20 66/15/20 66/08/20	0.8 0.7 0.4 1.0  n Sampl FreeChlorine mg/L 0.6 0.6 0.4 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.4 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.14 0.13 0.17 0.16 0.13 0.17 0.16 0.18 0.18 0.12 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.5 7.2 7.9 PH PH 7.6 7.8 7.7 7.7 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimum Maximum Maximum Maximum Maximum  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	01/28/20  2 m m  Date  04/06/20 04/14/20 04/20/20 04/21/20 04/20/20 04/21/20 04/20/20	0.7 0.3 1.1  Pril  Samp  Free (mg/L) 0.6 0.4 0.5 0.6 0.8 0.5 0.6 0.7 0.5 0.6 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.6 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6	0.36 0.16 0.94  Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15 0.19 0.18 0.24 0.12 0.19 0.18 0.22 0.11 0.18 0.29 0.11 0.18 0.20 0.11 0.18 0.21 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.1	7.5 7.2 7.6 7.5 7.6 7.7 7.7 7.4 7.3 7.5 7.5 7.5 7.6 7.7 7.4 7.4 7.3 7.5 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.4 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	Tribution  Date  05/04/20 05/11/20 05/11/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/19/20 05/11/20 05/19/20 05/11/20 05/19/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20	07 03 1.0  1.0  1.0  1.0  1.0  1.0  1.0  1	0.20 0.11 0.31  Urbidity NTU 0.19 0.12 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.23 0.33 0.14 0.20 0.51 0.20 0.51 0.20 0.51 0.20 0.15 0.19 0.10 0.10 0.10 0.11 0.11 0.11 0.11	PH PH 7.7 7.5 7.5 7.5 7.5 7.6 7.6 7.7 7.7 7.5 7.6 7.7 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	31/03/20  n n Tibutio  Date  06/01/20 06/08/20 06/15/20 06/01/20 06/08/20 06/15/20 06/01/20	0.8 0.7 0.4 1.0 0.8 0.7 0.4 1.0 0.8 0.8 0.5 0.6 0.4 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.8 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.14 0.13 0.16 0.16 0.15 0.16 0.17 0.16 0.16 0.16 0.18 0.17 0.16 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.8 7.7 7.9 pH 7.6 7.8 7.7 7.7 7.2 7.5 7.5 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimum Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	01/28/20  2 m m  Date  04/06/20 04/14/20 04/20/20	0.7 0.3 1.1  Samp  Free (chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.5 0.6 0.7 0.5 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.7 0.9 0.6 0.7 0.9 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.36 0.16 0.94  Turbidity (NTU) 0.18 0.19 0.17 0.17 0.18 0.19 0.15 0.18 0.24 0.14 0.12 0.19 0.18 0.22 0.11 0.18 0.22 0.11 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.2 7.6 7.5 7.6 7.5 7.6 7.2 7.7 7.4 7.4 7.3 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	Minimu Maximu  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	Date    Date   D	107 03 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.20 0.11 0.31 0.31 0.31 0.31 0.19 0.12 0.12 0.13 0.19 0.11 0.21 0.23 0.14 0.20 0.33 0.14 0.20 0.33 0.14 0.21 0.30 0.31 0.31 0.31 0.31 0.31 0.31 0.3	7.4 7.2 7.7 7.7 7.7 7.7 7.5 7.6 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School	Ju tributio  Date  66/01/20 66/08/20 66/08/20 66/15/20 66/08/20 66/15/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/08/20 66/15/20 66/08/20 66/15/20 66/08/20	0.8 0.7 0.4 1.0  n Sampl FreeChlorine mg/L 0.6 0.6 0.4 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.4 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.14 0.13 0.17 0.16 0.13 0.17 0.16 0.18 0.18 0.12 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.5 7.2 7.9 PH PH 7.6 7.8 7.7 7.7 7.7 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimum Maximum Maximum Maximum Maximum  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	01/28/20  2 m m  Date  04/06/20 04/14/20 04/20/20	0.7 0.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	0.36 0.16 0.94  ling Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15 0.18 0.24 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.2 7.6 7.5 7.6 7.2 7.7 7.4 7.4 7.3 7.5 7.5 7.5 7.6 7.6 7.7 7.4 7.4 7.5 7.5 7.6 7.6 7.6 7.6 7.7 7.7 7.6 7.7 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	Tribution  Date  05/04/20 05/11/20 05/11/20 05/19/20 05/26/20 05/36/20	07 03 1.0  1.0  1.0  1.0  1.0  1.0  1.0  1	0.20 0.11 0.31 0.31 0.31 0.31 0.31 0.31 0.3	PH P		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	Ju tributio  Date  06/01/20 06/08/20 06/15/20 06/08/20	0.8 0.7 0.4 1.0  ne n Sampl Free Chlorine mg/L 0.6 0.4 0.8 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.19 0.22 0.14 0.15 0.18 0.15 0.16 0.17 0.16 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimum Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	01/28/20  primary and a primar	0.7 0.3 1.1  Samp  Free (chlorine (mg/L) 0.6 0.4 0.5 0.6 0.9 0.6 0.5 0.6 0.7 0.5 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.8 0.6 0.8 0.8	0.36 0.16 0.94  ling Turbidity (NTU) 0.18 0.19 0.17 0.17 0.17 0.18 0.19 0.18 0.24 0.14 0.12 0.19 0.18 0.22 0.15 0.18 0.22 0.15 0.18 0.24 0.14 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.2 7.6  PH  PH  7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	Date    Date   D	07 03 1.0  Samp Free Chlorine mg/L 05 0.5 0.5 0.6 0.6 0.5 0.7 0.4 0.3 0.5 0.5 0.5 0.5 0.6 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 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	0.20 0.11 0.31 0.31 0.31 0.31 0.31 0.31 0.19 0.12 0.12 0.13 0.19 0.11 0.21 0.23 0.14 0.12 0.33 0.14 0.20 0.51 0.15 0.16 0.19 0.16 0.19 0.16 0.14 0.12 0.38	7.4 7.2 7.7 7.7 7.7 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.5 7.6 7.7 7.5 7.5 7.6 7.7 7.5 7.5 7.6 7.7 7.5 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	Ju tributio  Date  66/01/20 66/08/20 06/15/20 06/08/20 06/15/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20 06/01/20	0.8 0.7 0.4 1.0 0.8 0.7 0.4 1.0 0.8 0.8 0.8 0.6 0.6 0.6 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.14 0.13 0.17 0.16 0.13 0.17 0.16 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.7 7.7 7.9  PH  PH  7.6 7.8 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimum Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	01/28/20  primary  Date  04/06/20 04/14/20 04/27/20 04/27/20 04/27/20 04/20/20 04/27/20 04/20/20 04/27/20 04/20/20 04/27/20 04/20/20 04/27/20 04/20/20	0.7 0.3 1.1 0.7 0.3 1.1 0.8 0.8 0.6 0.6 0.8 0.5 0.6 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.36 0.16 0.94  Ling  Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15 0.18 0.24 0.12 0.19 0.18 0.22 0.11 0.18 0.22 0.11 0.18 0.22 0.11 0.18 0.23 0.11 0.18 0.21 0.19 0.19 0.19 0.19 0.19 0.10 0.19 0.10 0.10	7.5 7.2 7.6 7.5 7.6 7.7 7.7 7.4 7.3 7.5 7.5 7.5 7.6 7.6 7.7 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.6 7.6 7.7 7.7 7.6 7.6 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	Tribution  Date  05/04/20 05/11/20	ay  Free Chlorine mg/L  0.5  0.5  0.4  0.6  0.5  0.7  0.4  0.6  0.5  0.7  0.5  0.5  0.6  0.6  0.5  0.6  0.5  0.6  0.5  0.6  0.5  0.6  0.6	0.20 0.11 0.31  Urbidity NTU 0.19 0.12 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.23 0.33 0.14 0.10 0.21 0.21 0.33 0.14 0.10 0.15 0.21 0.33 0.14 0.10 0.15 0.21 0.33 0.14 0.10 0.15 0.19 0.11 0.21 0.21 0.33 0.14 0.10 0.15 0.19 0.11 0.21 0.21 0.21 0.32 0.33 0.33 0.33 0.33 0.33 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	PH PH 7.7 7.5 7.5 7.6 7.7 7.7 7.6 7.6 7.7 7.5 7.5 7.6 7.7 7.7 7.6 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir	31/03/20  Tributio  Date  06/01/20 06/08/20 06/15/20 06/15/20 06/08/20 06/15/20 06/08/20 06/15/20 06/08/20 06/15/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20 06/08/20	0.8 0.7 0.4 1.0  ne n Sampl Free Chlorine mg/L 0.6 0.4 0.8 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.18 0.16 0.16 0.16 0.17 0.16 0.18 0.17 0.16 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.5 7.2 7.9 pH 7.6 7.8 7.7 7.7 7.2 7.5 7.5 7.5 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimun Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal	01/28/20  2 m m  Date  04/06/20 04/14/20 04/20/20 04/27/20 04/20/20 04/20/20 04/27/20 04/20/20 04/27/20 04/20/20	0.7 0.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	0.36 0.16 0.94  ling  Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.18 0.24 0.19 0.15 0.18 0.22 0.11 0.18 0.19 0.15 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.5 7.2 7.6 7.5 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal	Mistribution  Date  05/04/20 05/11/20 05/11/20 05/19/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/26/20	07 03 1.0  1.0  1.0  1.0  1.0  1.0  1.0  1	0.20 0.11 0.31 0.31 0.31 0.31 0.31 0.31 0.3	PH PH 7.7 7.5 7.6 7.7 7.5 7.6 7.7 7.7 7.6 7.7 7.6 7.7 7.7 7.6 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal	Ju tributio  Date  06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20	0.8 0.7 0.4 1.0 0.8 0.7 0.4 1.0 0.8 0.8 0.8 0.6 0.6 0.4 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.15 0.14 0.13 0.17 0.16 0.13 0.17 0.16 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.5 7.2 7.9 PH 7.6 7.8 7.7 7.7 7.7 7.7 7.5 7.5 7.7 7.7 7.7 7.7
Average Minimun Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal	01/28/20  Pribution  Date  04/06/20 04/14/20 04/20/20	0.7 0.3 1.1 0.7 0.3 1.1 0.8 0.8 0.6 0.6 0.8 0.5 0.6 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.36 0.16 0.94  Ling  Turbidity (NTU) 0.18 0.19 0.17 0.18 0.19 0.15 0.15 0.18 0.24 0.12 0.19 0.18 0.22 0.11 0.18 0.22 0.11 0.18 0.22 0.11 0.18 0.23 0.11 0.18 0.21 0.19 0.19 0.19 0.19 0.19 0.10 0.19 0.10 0.10	7.5 7.2 7.6 7.5 7.6 7.7 7.7 7.4 7.3 7.5 7.5 7.5 7.6 7.6 7.7 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.6 7.6 7.7 7.7 7.6 7.6 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal	Date    Date   Dold   Date   Dold   Date   Dold   Date   Dold   Date   Dold   D	ay  Free Chlorine mg/L  0.5  0.5  0.4  0.6  0.5  0.7  0.4  0.6  0.5  0.7  0.5  0.5  0.6  0.6  0.5  0.6  0.5  0.6  0.5  0.6  0.5  0.6  0.6	0.20 0.11 0.31  Urbidity NTU 0.19 0.12 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.23 0.33 0.14 0.10 0.21 0.21 0.33 0.14 0.10 0.15 0.21 0.33 0.14 0.10 0.15 0.21 0.33 0.14 0.10 0.15 0.19 0.11 0.21 0.21 0.33 0.14 0.10 0.15 0.19 0.11 0.21 0.21 0.21 0.32 0.33 0.33 0.33 0.33 0.33 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	PH PH 7.7 7.5 7.5 7.6 7.7 7.7 7.6 7.6 7.7 7.5 7.5 7.6 7.7 7.7 7.6 7.7 7.7 7.7 7.7 7.7 7.7		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal  Highway 19 PRV	Ju tributio  Date  06/01/20 06/08/20 06/15/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20 06/08/20 06/01/20	0.8 0.7 0.4 1.0  ne n Sampl Free Chlorine mg/L 0.6 0.4 0.8 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.19 0.22 0.14 0.53  Turbidity NTU 0.15 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.5 7.2 7.9 pH 7.6 7.8 7.7 7.7 7.2 7.5 7.5 7.5 7.7 7.7 7.7 7.7 7.7 7.7 7.7
Average Minimum Maximur  Disi  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal	01/28/20  Tribution  Date  04/06/20 04/14/20 04/20/20	0.7 0.3 1.1  Samp Free Chlorine (mg/L) 0.6 0.7 0.9 0.6 0.9 0.6 0.5 0.6 0.7 0.5 0.6 0.7 0.7 0.5 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.36 0.16 0.94  Turbidity (NTU) 0.18 0.19 0.17 0.17 0.17 0.15 0.18 0.19 0.15 0.11 0.18 0.22 0.11 0.19 0.19 0.11 0.19 0.19 0.11 0.19 0.19	7.5 7.2 7.6  PH  PH  7.5 7.6 7.6 7.6 7.7 7.7 7.4 7.3 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7	Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal  Highway 19 PRV	Tribution  Date  05/04/20 05/11/20 05/19/20 05/19/20 05/19/20 05/11/20 05/19/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/11/20 05/04/20	07 03 1.0  1.0  1.0  1.0  1.0  1.0  1.0  1	0.20 0.11 0.31  Uning  Turbidity NTU 0.19 0.12 0.12 0.12 0.13 0.19 0.11 0.15 0.21 0.21 0.12 0.19 0.11 0.15 0.21 0.10 0.10 0.11 0.15 0.27 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.16 0.19 0.17 0.19 0.16 0.19 0.19 0.16 0.19 0.19 0.16 0.19 0.10 0.10 0.11 0.11 0.11 0.11 0.11	PH PH 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.		Minimur Maximur  Dis  Location  Chatham Avenue  Peel Street Liftstation  Airport Wastewater Treatment Plant  Public Works Yard  Eagleview School  Bear Cove Reservoir  Ferry Terminal	Ju tributio  Date  66/01/20 66/08/20 06/15/20 06/08/20 06/15/20 06/08/20 06/15/20 06/08/20	0.8 0.7 0.8 0.7 0.4 1.0 0.6 0.6 0.6 0.4 0.8 0.8 0.5 0.5 0.5 0.5 0.4 0.9 0.3 0.7 0.5 0.5 0.7 0.5 0.6 0.6 0.6 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Ing  Turbidity NTU  0.15 0.18 0.15 0.18 0.15 0.19 0.19 0.19 0.10 0.11 0.11 0.16 0.13 0.17 0.16 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	7.6 7.5 7.2 7.9 PH PH 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7

	Ju	ly				Aug	gust				Septe	ember		
Dis	tribution	n Samp	ling		D:	stribution	n Samp	ling		Dis	tributio	n Sampl	ing	
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	07/06/20 07/13/20 07/20/20	0.8 0.6 0.6	0.17 0.12 0.12	7.7 7.7 7.8	Chatham Avenue		0.4 0.4 0.7	0.13 0.12 0.13	7.8 7.8 7.7	Chatham Avenue	09/08/20 09/14/20 09/21/20	0.5 0.6 0.5 0.5	0.12 0.16 0.14 0.20	7.6 7.6 7.6
Peel Street Liftstation	07/27/20 07/06/20 07/13/20 07/20/20	0.8 1.0 0.8 0.8	0.15 0.16 0.12 0.12	7.7 7.5 7.4 7.6		08/24/20 08/31/20 08/04/20 08/10/20	0.5 0.7 0.7 0.7	0.12 0.11 0.18 0.13	7.7 7.8 7.6 7.5	Peel Street Liftstation	09/28/20 09/08/20 09/14/20 09/21/20	0.9 1.0 0.9	0.12 0.18 0.15	7.5 7.5 7.6 7.4
Airport Wastewater	07/27/20 07/06/20 07/13/20	0.9 0.7 0.6	0.14 0.22 0.19	7.5 7.6 7.5	Peel Street Liftstation	08/17/20 08/24/20 08/31/20	0.7 0.8 1.0	0.15 0.12 0.12	7.4 7.5 7.4	Airport Wastewater	09/28/20 09/08/20 09/14/20	0.7 0.5 0.5	0.14 0.14 0.17	7.8 7.5 7.5
Treatment Plant	07/20/20 07/27/20 07/06/20	0.5 0.8 0.4	0.12 0.15 0.17	7.6 7.6 7.8	Airport Wastewat Treatment Plant	08/17/20	0.4 0.5 0.9	0.16 0.13 0.13	7.6 7.5 7.5	Treatment Plant	09/21/20 09/28/20 09/08/20	0.5 0.4 0.5	0.16 0.13 0.12	7.6 7.6 7.6
Public Works Yard	07/13/20 07/20/20 07/27/20 07/06/20	0.4 0.9 0.9 0.5	0.15 0.18 0.25 0.16	7.7 7.6 7.6 7.6		08/24/20 08/31/20 08/04/20 08/10/20	0.4 0.7 0.4 0.8	0.13 0.12 0.19 0.12	7.5 7.5 7.8 7.5	Public Works Yard	09/14/20 09/21/20 09/28/20 09/08/20	0.7 0.3 0.5 0.3	0.22 0.43 0.14 0.14	7.8 7.7 7.9 7.7
Eagleview School	07/13/20 07/20/20 07/27/20	0.4 0.4 0.3	0.18 0.16 0.17	7.7 7.7 7.8	Public Works Yar		0.9 0.7 0.4	0.16 0.13 0.14	7.4 7.6 7.7	Eagleview School	09/14/20 09/21/20 09/28/20	0.3 0.3 0.2	0.17 0.19 0.21	8.0 7.6 8.2
Bear Cove Reservoir	07/06/20 07/13/20 07/20/20 07/27/20	0.6 0.6 0.5 0.6	0.18 0.13 0.13 0.19	7.5 7.5 7.6 7.6	Eagleview Schoo	08/24/20	0.3 0.4 0.3 0.3	0.19 0.23 0.16 0.19	7.8 7.7 7.5 7.7	Bear Cove Reservoir	09/08/20 09/14/20 09/21/20 09/28/20	0.4 0.5 0.4 0.4	0.13 0.17 0.12 0.15	7.5 7.6 7.5 7.8
Ferry Terminal	07/06/20 07/13/20 07/20/20 07/27/20	0.6 0.6 0.4 0.6	0.17 0.10 0.11 0.15	7.5 7.6 7.6 7.5	Bear Cove Reservo		0.3 0.4 0.4 0.5	0.21 0.16 0.11 0.12	7.7 7.6 7.5 7.5	Ferry Terminal	09/08/20 09/14/20 09/21/20 09/28/20	0.3 0.3 0.4 0.2	0.12 0.15 0.07 0.16	7.5 7.5 7.4 7.7
Highway 19 PRV	07/06/20 07/13/20 07/20/20 07/27/20	0.8 0.9 0.8 1.0	0.22 0.12 0.12 0.17	7.5 7.5 7.6 7.4		08/24/20 08/31/20 08/04/20 08/10/20	0.3 0.5 0.3 0.3	0.12 0.13 0.16 0.11	7.5 7.5 7.7 7.5	Highway 19 PRV	09/08/20 09/14/20 09/21/20 09/28/20	0.8 0.9 0.7 0.9	0.13 0.15 0.16 0.13	7.5 7.5 7.4 7.6
Average Minimur Maximur	n	0.7 0.3 1.0	0.16 0.25 0.25	7.6 7.4 7.8	Ferry Terminal	08/17/20 08/24/20 08/31/20 08/04/20	0.5 0.3 0.3 0.6	0.16 0.11 0.11 0.17	7.5 7.5 7.5 7.6	Average Minimur Maximur	n	0.5 0.2 1.0	0.16 0.07 0.43	7.6 7.4 8.2
					Highway 19 PRV	08/10/20	0.8 1.0 0.6 0.8	0.17 0.11 0.12 0.13 0.13	7.5 7.4 7.6 7.6					
					Aver Minin Maxir	nge num	0.5 0.3 1.0	0.14 0.11 0.23	7.6 7.4 7.8					
	Octo	ober				Nove	mber				Dece	mber		
Dis	tribution	n Samp	ling		D:	stributio	n Samp	ling		Dis	tributio	n Sampl	ing	
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	рН
Chatham Avenue	10/05/20 10/13/20 10/19/20	0.6 0.6 0.3	0.15 0.28 0.19	7.9 7.9 7.9	Chatham Avenue		0.4 0.4 0.3	0.16 0.13 0.18	7.9 7.8 8.0	Chatham Avenue	12/07/20 12/14/20 12/21/20	0.4 0.4 0.4	0.16 0.17 0.13	8.0 7.9 8.1
Peel Street	10/26/20 10/05/20 10/13/20	0.3 0.7 0.9	0.15 0.23 0.22	7.8 7.7		11/23/20 11/30/20 11/02/20 11/09/20	0.3 0.4 0.6 0.5	0.16 0.14 0.18 0.18	7.9 7.9 7.8 7.5	Peel Street Liftstation	12/28/20 12/07/20 12/14/20 12/21/20	0.3 0.7 0.4 0.7	0.19 0.24 0.15 0.12	7.6 7.5 7.6
Liftstation	10/19/20 10/26/20	0.5 0.6	0.14 0.18	7.6 7.7	Peel Street Liftstation	11/16/20 11/23/20 11/30/20	0.6 0.5 0.7	0.16 0.18 0.12	7.7 7.7 7.8	Airport Wastewater	12/28/20 12/07/20 12/14/20	0.7 0.6 0.6	0.20 0.17 0.18	7.7 7.7 7.7
Airport Wastewater Treatment Plant	10/05/20 10/13/20 10/19/20 10/26/20	0.5 0.6 0.4 0.4	0.16 0.17 0.17 0.19	7.8 7.7 7.6 7.7	Airport Wastewat Treatment Plant		0.3 0.3 0.6 0.5	0.18 0.17 0.15 0.18	7.7 7.7 7.8 7.7	Treatment Plant	12/21/20 12/28/21 12/07/20 12/14/20	0.6 0.7 0.7 1.0	0.14 0.13 0.21	7.6 7.9 7.9
Public Works Yard	10/05/20 10/13/20	0.4	0.70 0.25	8.6 7.8		11/30/20 11/02/20 11/09/20	0.5 0.4 0.5	0.13 0.14 0.16	7.8 8.0 7.9	Public Works Yard  Eagleview School	12/21/20 12/28/20 12/07/20	1.0 0.8 0.2	0.13 0.13 0.19	7.5 7.9 7.9
	10/19/20 10/26/20 10/05/20	0.4 0.9 0.2	0.15 0.17 0.28	7.9 7.7 8.3	Public Works Yar	11/16/20 11/23/20 11/30/20 11/02/20	1.0 0.5 0.8 0.1	0.15 0.19 0.12 0.16	7.9 7.9 7.6 8.4	Bear Cove Reservoir	12/14/20 12/07/20 12/14/20 12/21/20	0.2 0.6 0.6 0.8	0.44 0.22 0.16 0.13	7.7 7.8 7.6
Eagleview School	10/19/20	0.1	0.27	8.2 8.3	Eagleview Schoo	11/09/20	0.2 0.1 0.7 0.1	0.17 0.36 0.36 0.17	8.2 8.4 7.7 8.2	Ferry Terminal	12/28/20 12/07/20 12/14/20 12/21/20	0.7 0.7 0.7 0.7	0.21 0.24 0.17 0.12	7.7 7.6 7.7 7.6
Bear Cove Reservoir	10/05/20 10/13/20 10/19/20 10/26/20	0.3 0.3 0.6 0.5	0.14 0.17 0.21 0.16	7.9 7.7 7.6 7.8	Bear Cove Reservo	11/02/20 11/09/20	0.6 0.6 0.8 0.6	0.17 0.18 0.15 0.15 0.18	7.7 7.7 7.8 7.7	Highway 19 PRV	12/28/20 12/28/20 12/07/20 12/14/20 12/21/20	0.7 0.6 0.8 0.9 0.8	0.12 0.16 0.15 0.15 0.13	7.6 7.7 7.5 7.8 7.5
Ferry Terminal	10/05/20 10/13/20	0.2	0.67 0.19	7.9 7.6		11/30/20 11/02/20 11/09/20	0.8 0.5 0.5	0.14 0.19 0.17	7.8 7.7 7.7	Average Minimur	12/28/20 e	0.7 0.6 0.2	0.24 0.18 0.12	7.7 7.7 7.5
	10/19/20 10/26/20 10/05/20	0.5	0.15 0.32 0.17	7.6 7.8	Ferry Terminal	11/16/20 11/23/20 11/30/20 11/02/20	0.6 0.5 0.8 0.9	0.34 0.26 0.13 0.16	7.7 7.7 7.9 7.6	Maximui	n	1.0	0.44	8.1
Highway 19 PRV	10/13/20 10/19/20 10/26/20	0.9 0.8 0.9	0.17 0.18 0.16	7.8 7.7 7.6	Highway 19 PR	11/09/20	0.9 1.0 0.8 0.9	0.15 0.16 0.33 0.12	7.7 7.7 7.5 7.5					
Average	n	0.5 0.14 7.8 Average 0.6 0.18 7.8 0.1 0.70 7.6 Minimum 0.1 0.12 7.5 1.0 0.70 8.6 Maximum 1.0 0.36 8.4												

		Janu	ary						Febru	ıary			
	Bact	eriologic	al Sam	pling				Bacte	eriologic	al Sam	pling		
Sample	Sample	Free Chlorine	Turbidity	рН	Total Coliform	E.Coli	Sample	Sample	Free Chlorine	Turbidity	рН	Total Coliform	E.Coli
Date	Location	(mg/L)	(NTU)		CFU/100ml	CFU/100ml	Date	Location	(mg/L)	(NTU)		CFU/100ml	CFU/100ml
01/07/20 01/14/20	Hospital Airport Washroom	0.8	0.24	7.5 7.4	L1 L1	L1	02/04/20 02/04/20	Hospital	0.7	0.23	7.4 7.4	L1	L1 L1
01/14/20	Chatham Ave.	0.7	0.17	7.4	L1	L1 L1	02/04/20	Airport Washroom Chatham Ave.	0.8	0.35	7.4	L1 L1	L1
01/01/20	Bear Cove Reservoir	0.9	0.16	7.5	L1	L1	02/11/20	Bear Cove Reservoir	0.9	0.14	7.4	L1	L1
01/21/20	Highway 19 PRV	1.1	0.24	7.4	L1	L1	02/04/20	Highway 19 PRV	0.9	0.24	7.3	L1	L1
01/07/20	Pioneer Inn	0.9	0.23	7.5	L1	L1	02/18/20	Pioneer Inn	0.8	0.19	7.4	L1	L1
01/21/20	Public Works Yard	1.0	0.37	7.5	L1	L1	02/11/20	Public Works Yard	1.0	0.15	7.3	L1	L1
01/14/20	Glen Lyon Restaurant	1.0	0.16	7.4	L1	L1	02/18/20	Glen Lyon Restaurant	1.0	0.19	7.5	L1	L1
01/07/20	Airport Inn	0.7	0.20	7.4	L1	L1	02/18/20	Airport Inn	0.7	0.25	7.3	L1	L1
01/14/20	Peel St Liftstation	0.8	0.19	7.5	L1	L1	02/11/20	Peel St Liftstation	0.8	0.13	7.3	L1	L1
01/14/20	B.C. Ferry	0.4	0.20	7.4	L1	L1	02/11/20	B.C. Ferry	0.7	0.11	7.4	L1	L1
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
01/21/20	Tsulquate River (Untreated)		2.29	6.6	93.3	1.0	02/04/20	Tsulquate River (Untreated)		0.64	6.6	60.9	<1
		Maı	ch						Ap	ril			
	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
03/03/20	Hospital	0.8	0.17	7.4	L1	L1	04/20/20	Hospital	0.7	0.24	7.5	L1	L1
03/03/20	Airport Washroom	0.8	0.19	7.2	L1	L1	04/14/20	Airport Washroom	0.4	0.25	7.4	L1	L1
17/03/20	Chatham Ave.	0.6	0.19	7.9	L1	L1	04/14/20	Chatham Ave.	0.4	0.19	7.6	L1	L1
10/03/20	Bear Cove Reservoir	0.7	0.27	7.6	L1	L1	04/06/20	Bear Cove Reservoir	0.7	0.17	7.4	L1	L1
03/03/20	Highway 19 PRV	0.8	0.17	7.6	L1	L1	04/06/20	Highway 19 PRV	0.8	0.14	7.5	L1	L1
17/03/20	Pioneer Inn	0.9	0.24	7.6	L1	L1	04/06/20	Pioneer Inn	0.5	0.14	7.2	L1	L1
10/03/20	Public Works Yard	0.8	0.22	7.7	L1	L1	04/14/20	Public Works Yard	0.4	0.18	7.3	L1	L1
17/03/20	Glen Lyon Restaurant	0.8	0.24	7.6	L1	L1	04/20/20	Glen Lyon Restaurant	0.9	0.32	7.5	L1	L1
17/03/20	Airport Inn	0.6	0.29	7.7	L1	L1	04/20/20	Airport Inn	0.6	0.20	7.5	L1	L1
10/03/20	Peel St Liftstation	0.7	0.19	7.5	L1	L1	04/06/20	Peel St Liftstation	0.9	0.18	7.4	L1	L1
10/03/20	B.C. Ferry	0.7	0.22	7.8	L1	L1	04/20/20	B.C. Ferry	0.6	0.13	7.4	L1	L1
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
03/03/20	Tsulquate River (Untreated)		0.68	6.5	56.5	<1	04/14/20	Tsulquate River (Untreated)		0.56	6.8	52	<1
		Ma							Jur				
	Bacto	eriologic	,	nling				Bacte	eriologic		nling		
Sample Date	Sample Location	Free Chlorine (mg/L)		рН	Total Coliform CFU/100ml	E.Coli CFU/100ml	Sample Date	Sample Location	Free Chlorine (mg/L)			Total Coliform CFU/100ml	E.Coli CFU/100ml
				7.7		·	06/01/20				7.5		L1
05/04/20 05/04/20	Hospital Airport Washroom	0.5	0.15 0.52	7.7	L1 L1	L1 L1	06/01/20	Hospital Airport Washroom	0.6	0.13 0.16	7.5 7.5	L1 L1	L1 L1
05/04/20	Chatham Ave.	0.4	0.19	7.7	L1	L1	06/01/20	Chatham Ave.	0.4	0.15	7.6	L1	L1
05/01/20	Bear Cove Reservoir	0.6	0.19	7.2	L1	L1	06/08/20	Bear Cove	0.5	0.13	7.6	L1	L1
05/19/20	Highway 19 PRV	0.8	0.13	7.7	L1	L1	06/08/20	Highway 19 PRV	0.8	0.11	7.5	L1	L1
05/04/20	Pioneer Inn	0.8	0.17	7.8	L1	L1	06/08/20	Pioneer Inn	0.7	0.12	7.4	L1	L1
05/11/20	Public Works Yard	0.5	0.33	7.6	L1	L1	06/15/20	Public Works Yard	0.4	0.18	7.7	L1	L1
05/11/20	Glen Lyon Restaurant	0.7	0.80	7.3	L1	L1	06/15/20	Glen Lyon Restaurant	0.7	0.18	7.5	L1	L1
05/11/20	Airport Inn	0.6	0.17	7.3	L1	L1	06/15/20	Airport Inn	0.6	0.17	7.7	L1	L1
05/19/20	Peel St Liftstation B.C. Ferry	0.5	0.15 0.14	7.5 7.5	L1 L1	L1 L1	06/08/20	Peel St Liftstation B.C. Ferry	0.8	0.12 0.15	7.6 7.3	L1 L1	L1 L1
05/19/20	D.C. Perry	0.5	0.14	7.5	LI	LI	06/15/20	D.C. Perry	0.4	0.15	7.3	LI	LI
Sample	Sample	Free Chlorine	Turbidity	рН	Total Coliform	E.Coli	Sample	Sample	Free Chlorine		pН	Total Coliform CFU/100ml	E.Coli
Date 05/19/20	Location Tsulquate River	(mg/L)	(NTU) 0.51	7.0	CFU/100ml 228.2	CFU/100ml 2.0	Date 06/08/20	Location Tsulquate River	(mg/L)	(NTU) 0.48	6.9	CFU/100ml 579.4	3.0
05/17/20	(Untreated)		0.31	7.0	220.2	2.0	00/08/20	(Untreated)		0.40	0.7	3/7.4	5.0

		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
07/06/20	Hospital	0.5	0.16	7.6	L1	L1		08/17/20	Hospital	0.4	0.15	7.5	L1	L1
07/06/20	Airport Washroom	0.7	0.17	7.6	L1	L1		08/17/20	Airport Washroom	0.7	0.16	7.5	L1	L1
07/06/20	Chatham Ave.	0.8	0.17	7.7	L1	L1		08/17/20	Chatham Ave.	0.7	0.13	7.7	L1	L1
07/13/20	Bear Cove Reservoir	0.6	0.13	7.5	L1	L1		08/04/20	Bear Cove Reservoir	0.4	0.16	7.6	L1	L1
07/20/20 07/06/20	Highway 19 PRV Pioneer Inn	0.8	0.12	7.6 7.6	L1 L1	L1 L1		08/04/20 08/17/20	Highway 19 PRV Pioneer Inn	0.6	0.17	7.6 7.3	L1 L1	L1 L1
07/13/20	Public Works Yard	0.4	0.25	7.7	L1	L1		08/04/20	Public Works Yard	0.3	0.17	7.8	L1	L1
07/20/20	Glen Lyon Restaurant	0.5	0.11	7.6	L1	L1		08/17/20	Glen Lyon Restaurant	0.7	0.15	7.6	L1	L1
07/20/20	Airport Inn	0.5	0.16	7.6	L1	L1		08/17/20	Airport Inn	0.9	0.12	7.4	L1	L1
07/13/20	Peel St Liftstation	0.8	0.12	7.4	L1	L1		08/04/20	Peel St Liftstation	0.7	0.18	7.6	L1	L1
07/20/20	B.C. Ferry	0.4	0.11	7.6	L1	L1		08/17/20	B.C. Ferry	0.5	0.16	7.6	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
07/13/20	Tsulquate River (Untreated)		0.53	6.9	1413.6	14.8		08/17/20	Tsulquate River (Untreated)		0.43	7.2	>241	36.4
		Septe	mber							Octo	ber			
	Bact	eriologic		nling					Racte	eriologic	al Sam	nling		
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
					1	·								
09/21/20	Hospital	0.4	0.10	7.5	L1	L1		10/19/20	Hospital	0.4	0.15	7.8	<1	<1
09/28/20	Airport Washroom	0.1	0.14	7.7 7.5	L1 L1	L1 L1		10/13/20	Airport Washroom Chatham Ave.	0.2	0.35 0.15	7.7 7.9	<1 <1	<1 <1
09/28/20 09/14/20	Chatham Ave. Bear Cove Reservoir	0.4	0.13	7.6	L1	L1		10/05/20 10/19/20	Bear Cove Reservoir	0.6	0.13	7.9	<1	<1
09/14/20	Highway 19 PRV	0.9	0.17	7.6	L1	L1		10/19/20	Highway 19 PRV	0.8	0.21	7.7	<1	<1
09/28/20	Pioneer Inn	0.7	0.26	7.5	L1	L1		10/05/20	Pioneer Inn	0.9	0.24	7.9	<1	<1
09/14/20	Public Works Yard	0.7	0.22	7.8	L1	L1		10/05/20	Public Works Yard	0.4	0.70	8.6	<1	<1
09/21/20	Glen Lyon Restaurant	0.4	0.17	7.4	L1	L1		10/19/20	Glen Lyon Restaurant	0.7	0.18	7.8	<1	<1
09/14/20	Airport Inn	0.6	0.15	7.6	L1	L1		10/05/20	Airport Inn	0.5	0.13	7.9	<1	<1
09/28/20	Peel St Liftstation	0.7	0.14	7.8	L1	L1		10/13/20	Peel St Liftstation	0.9	0.22	7.7	<1	<1
09/28/20	B.C. Ferry	0.2	0.16	7.7	L1	L1		10/19/20	B.C. Ferry	0.5	0.15	7.6	<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)	pН	Total Coliform CFU/100ml	E.Coli CFU/100ml
09/28/20	Tsulquate River (Untreated)		0.32	7.1	2419.2	12.1		10/19/20	Tsulquate River (Untreated)		0.69	6.9	1203.3	3.1
		NI	1							D	1			
	_	Nove							-	Decer		4.		
		eriologic 		npling						eriologic		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
11/02/20	Hospital	0.6	0.19	7.8	<1	<1		12/07/20	Hospital	0.7	0.17	7.7	<1	<1
11/16/20	Airport Washroom	0.4	0.15	7.8	<1	<1		12/07/20	Airport Washroom	0.4	0.26	7.5	<1	<1
11/02/20	Chatham Ave.	0.4	0.16	7.9	<1	<1	-	12/07/20	Chatham Ave.	0.4	0.16	8.0	<1	<1
11/16/20 11/16/20	Bear Cove Reservoir Highway 19 PRV	0.8 1.0	0.15 0.16	7.8 7.7	<1	<1	-	12/14/20 12/07/20	Bear Cove Reservoir Highway 19 PRV	0.6	0.16 0.15	7.8 7.5	<1	<1 <1
11/16/20	Pioneer Inn	0.9	0.18	7.6	<1	<1		12/07/20	Pioneer Inn	0.8	0.15	7.5	<1	<1
11/02/20	Public Works Yard	0.5	0.16	7.9	<1	<1	-	12/07/20	Public Works Yard	1.0	0.21	7.9	<1	<1
11/09/20	Glen Lyon Restaurant	0.7	0.16	7.8	<1	<1		12/07/20	Glen Lyon Restaurant	0.7	0.15	7.8	<1	<1
11/16/20	Airport Inn	0.4	0.16	7.9	<1	<1		12/14/20	Airport Inn	0.6	0.17	7.8	<1	<1
11/16/20	Peel St Liftstation	0.6	0.16	7.7	<1	<1		12/07/20	Peel St Liftstation	0.7	0.24	7.6	<1	<1
11/09/20	B.C. Ferry	0.5	0.17	7.7	<1	<1		12/14/20	B.C. Ferry	0.7	0.17	7.7	<1	<1
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
11/16/20	Tsulquate River (Untreated)		0.76	6.9	260.2	1.0		12/14/20	Tsulquate River (Untreated)		0.57	6.8	12	8.0

# GENERAL CHEMISTRY RESULTS - RAW AND TREATED WATER



DISTRICT OF PORT HARDY Your P.O. #: 4255

#### RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

ANIONS  Nitrite (N)	BV Labs ID						XL3233		XL3234		
O9-55							2020/02/25		2020/02/25		
NITTS   MAC   AO   OG   RIVER RAW   QC Batch   RESERVOIR   RDL   QC	Sampling Date						09:55		10:10		
ANIONS  Nitrite (N)	COC Number						G133562		G133562		
Nitrite (N)			UNITS	MAC	AO	OG	RIVER RAW	QC Batch	RESERVOIR	RDL	QC Batch
Calculated Parameters  Total Hardness (CaCO3)	ANIONS										
Total Hardness (CaCO3)	Nitrite (N)		mg/L	1	-	-	<0.0050	9778972	<0.0050	0.0050	9778972
Nitrate (N)	Calculated Parameters										
Misc. Inorganics  Conductivity	Total Hardness (CaCO3	)	mg/L	-	-	-	4.59	9777634	20.0	0.50	9777634
Conductivity	Nitrate (N)		mg/L	10	-	-	<0.020	9777666	<0.020	0.020	9777666
PH	Misc. Inorganics										
Total Dissolved Solids	Conductivity		uS/cm	-	-	-	15	9777845	88	2.0	9778044
Anions  Alkalinity (PP as CaCO3) mg/L	pH		рН	-	-	7.0:10.5	6.04	9777837	7.20	N/A	9778045
Alkalinity (PP as CaCO3) mg/L <1.0 9777838 <1.0 1.0 977 Alkalinity (Total as CaCO3) mg/L 1.7 9777838 <23 1.0 977 Bicarbonate (HCO3) mg/L 2.0 9777838  28 1.0 977 Carbonate (CO3) mg/L <1.0 9777838  28 1.0 977 Dissolved Fluoride (F) mg/L 1.5 <0.050 9780647 <0.050 0.050 978 Hydroxide (OH) mg/L <1.0 9777838 <1.0 1.0 977 Dissolved Chloride (CI) mg/L - 250 - 2.0 9778278 12 1.0 977 Dissolved Sulphate (SO4) mg/L - 500 - <1.0 9778278 12 1.0 977 MISCELLANEOUS True Colour Col. Unit - 15 - 49.0 9778304 <5.0 5.0 977 Nutrients Nitrate plus Nitrite (N) mg/L <0.020 9778967 <0.020 0.020 977 Physical Properties Turbidity NTU see remark see remark see remark 1.2 9778323 1.4 0.10 977 NO Fill No Exceedance Exceeds 1 criteria policy/level	Total Dissolved Solids		mg/L	-	-	-	<10	9780633	58	10	9780633
Alkalinity (Total as CaCO3) mg/L 1.7 9777838 23 1.0 977  Bicarbonate (HCO3) mg/L 2.0 9777838 28 1.0 977  Carbonate (CO3) mg/L <1.0 9777838 28 1.0 977  Dissolved Fluoride (F) mg/L 1.5 <0.050 9780647 <0.050 0.050 978  Hydroxide (OH) mg/L <1.0 9777838 <1.0 1.0 977  Dissolved Chloride (CI) mg/L - 250 - 2.0 9778278 12 1.0 977  Dissolved Sulphate (SO4) mg/L - 500 - <1.0 9778278 12 1.0 977  MISCELLANEOUS  True Colour Col. Unit - 15 - 49.0 9778304 <5.0 5.0 977  Nutrients  Nitrate plus Nitrite (N) mg/L <0.020 9778967 <0.020 0.020 977  Physical Properties  Turbidity NTU see remark see remark see remark 1.2 9778323 1.4 0.10 977  No Fill No Exceedance Exceeds 1 criteria policy/level	Anions										
Bicarbonate (HCO3)   mg/L   -   -   -   2.0   9777838   28   1.0   977	Alkalinity (PP as CaCO3	)	mg/L	-	-	-	<1.0	9777838	<1.0	1.0	9778021
Carbonate (CO3) mg/L < 1.0 9777838 < 1.0 1.0 977 Dissolved Fluoride (F) mg/L 1.5 < 0.050 9780647 < 0.050 0.050 978 Hydroxide (OH) mg/L < 1.0 9777838 < 1.0 1.0 977 Dissolved Chloride (CI) mg/L - 250 - 2.0 9778278 12 1.0 977 Dissolved Sulphate (SO4) mg/L - 500 - < 1.0 9778278 < 1.0 1.0 977 MISCELLANEOUS True Colour Col. Unit - 15 - 49.0 9778304 < 5.0 5.0 977 Nutrients Nitrate plus Nitrite (N) mg/L < < 0.020 9778967 < 0.020 0.020 977 Physical Properties Turbidity NTU see remark see remark see remark 1.2 9778323 1.4 0.10 977 NO Fill No Exceedance Exceeds 1 criteria policy/level	Alkalinity (Total as CaC	03)	mg/L	-	-	-	1.7	9777838	23	1.0	9778021
Dissolved Fluoride (F)   mg/L   1.5   -	Bicarbonate (HCO3)		mg/L	-		-	2.0	9777838	28	1.0	9778021
Hydroxide (OH) mg/L <1.0 977838 <1.0 1.0 977 Dissolved Chloride (Cl) mg/L - 250 - 2.0 9778278 12 1.0 977 Dissolved Sulphate (SO4) mg/L - 500 - <1.0 9778278 <1.0 1.0 977 MISCELLANEOUS True Colour Col. Unit - 15 - 49.0 9778304 <5.0 5.0 977 Nutrients Nitrate plus Nitrite (N) mg/L < <0.020 9778967 <0.020 0.020 977 Physical Properties Turbidity NTU see remark see remark see remark 1.2 9778323 1.4 0.10 977 No Fill No Exceedance Exceeds 1 criteria policy/level	Carbonate (CO3)		mg/L	-	-	-	<1.0	9777838	<1.0	1.0	9778021
Dissolved Chloride (Cl)   mg/L   -   250   -   2.0   9778278   12   1.0   977	Dissolved Fluoride (F)		mg/L	1.5	•	-	<0.050	9780647	<0.050	0.050	9780647
Dissolved Sulphate (SO4)   mg/L   -	Hydroxide (OH)		mg/L	•	•	-	<1.0	9777838	<1.0	1.0	9778021
MISCELLANEOUS   True Colour   Col. Unit   - 15   - 49.0   9778304   <5.0   5.0   977	Dissolved Chloride (Cl)		mg/L	-	250		2.0	9778278	12	1.0	9778269
True Colour   Col. Unit   - 15   - 49.0   9778304   <5.0   5.0   977   Nutrients Nitrate plus Nitrite (N)   mg/L   -   -   <0.020   9778967   <0.020   0.020   977   Physical Properties Turbidity   NTU   see remark   see remark   see remark   1.2   9778323   1.4   0.10   977   No Fill   No Exceedance   Exceeds 1 criteria policy/level	Dissolved Sulphate (SO	4)	mg/L	•	500	-	<1.0	9778278	<1.0	1.0	9778269
Nutrients   Nutrients   Nitrate plus Nitrite (N)   mg/L   -   -   <0.020   9778967   <0.020   0.020   977	MISCELLANEOUS										
Nitrate plus Nitrite (N)         mg/L         -         -         <0.020         9778967         <0.020         0.020         977           Physical Properties           Turbidity         NTU         see remark         see remark         1.2         9778323         1.4         0.10         977           No Fill         No Exceedance         Exceeds 1 criteria policy/level         Exceeds 1 criteria policy/level	True Colour		Col. Unit	-	15	-	49.0	9778304	<5.0	5.0	9778304
Physical Properties           Turbidity         NTU         see remark         see remark         1.2         9778323         1.4         0.10         977           No Fill         No Exceedance         Exceeds 1 criteria policy/level	Nutrients										
Turbidity         NTU         see remark         see remark         1.2         9778323         1.4         0.10         977           No Fill         No Exceedance           Grey         Exceeds 1 criteria policy/level	Nitrate plus Nitrite (N)		mg/L	-	-	-	<0.020	9778967	<0.020	0.020	9778967
No Fill No Exceedance  Grey Exceeds 1 criteria policy/level	, ,										
Grey Exceeds 1 criteria policy/level	Turbidity		NTU	see remark	see remark	see remark	1.2	9778323	1.4	0.10	9779811
	No Fill	No Ex	ceedance	1							
Black Exceeds both criteria/levels	Grey	Excee	ds 1 crite	ria policy/lev	el						
	Black	Excee	eds both c	riteria/levels							
RDL = Reportable Detection Limit	RDL = Reportable Deter	ction Li	mit								
N/A = Not Applicable	N/A = Not Applicable										

13



DISTRICT OF PORT HARDY Your P.O. #: 4255

## MERCURY BY COLD VAPOR (DRINKING WATER)

BV Labs ID				XL3233	XL3234			
Sampling Dat	•			2020/02/25	2020/02/25			
Sampling Dat	e			09:55	10:10			
COC Number				G133562	G133562			
		UNITS	MAC	RIVER RAW	RESERVOIR	RDL	QC Batch	
Elements								
Total Mercun	/ (Hg)	ug/L	1	0.0034	<0.0019	0.0019	9779650	
No Fill	No Exceeda	nce						
Grey	Exceeds 1 cr	riteria po	olicy/le	evel				
Black	Exceeds bot	h criteri	a/leve	ls				
RDL = Reportable Detection Limit								

BV Labs Job #: C013556 Report Date: 2020/03/02

DISTRICT OF PORT HARDY Your P.O. #: 4255

## RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

ANIONS  Nitrite (N)	BV Labs ID					XL3233		XL3234		
O9-55   10-10						2020/02/25		2020/02/25		
UNITS   MAC   AO   OG   RIVER RAW   QC Batch   RESERVOIR   RDL   QC Batch	Sampling Date					09:55		10:10		
ANIONS  Nitrite (N)	COC Number					G133562		G133562		
Nitrite (N)		UNITS	MAC	AO	OG	RIVER RAW	QC Batch	RESERVOIR	RDL	QC Batch
Calculated Parameters  Total Hardness (CaCO3)	ANIONS									
Total Hardness (CaCO3)	Nitrite (N)	mg/L	1	-	-	<0.0050	9778972	<0.0050	0.0050	9778972
Nitrate (N)	Calculated Parameters									
Misc. Inorganics  Conductivity	Total Hardness (CaCO3)	mg/L	-	-	-	4.59	9777634	20.0	0.50	9777634
Conductivity us/cm 15 9777845 88 2.0 9778044 pH	Nitrate (N)	mg/L	10	-	-	<0.020	9777666	<0.020	0.020	9777666
pH         pH         -         7.0:10.5         6.04         9777837         7.20         N/A         9778045           Total Dissolved Solids         mg/L         -         -         -         -         10         9780633         58         10         9780633           Anions         Alkalinity (PP as CaCO3)         mg/L         -         -         -         -         1.0         9777832         23         1.0         9778022           Alkalinity (Total as CaCO3)         mg/L         -         -         -         1.7         9777838         23         1.0         9778022           Bicarbonate (HCO3)         mg/L         -         -         -         2.0         9777838         28         1.0         9778022           Carbonate (HCO3)         mg/L         -         -         -         -         -         1.0         9777838         28         1.0         9778022           Carbonate (HCO3)         mg/L         -	Misc. Inorganics								•	
Total Dissolved Solids	Conductivity	uS/cm	-	-	-	15	9777845	88	2.0	9778044
Anions  Alkalinity (PP as CaCO3)	pH	pH	-	-	7.0:10.5	6.04	9777837	7.20	N/A	9778045
Alkalinity (PP as CaCO3)	Total Dissolved Solids	mg/L	-	-	-	<10	9780633	58	10	9780633
Alkalinity (Total as CaCO3)	Anions									
Bicarbonate (HCO3)	Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	9777838	<1.0	1.0	9778021
Carbonate (CO3)	Alkalinity (Total as CaCO3	) mg/L	-	-	-	1.7	9777838	23	1.0	9778021
Dissolved Fluoride (F) mg/L 1.5 < <0.050 9780647 <0.050 0.050 9780641 Hydroxide (OH) mg/L < <1.0 9777838 <1.0 1.0 9778021 Dissolved Chloride (Cl) mg/L - 250 - 2.0 9778278 12 1.0 9778266 Dissolved Sulphate (SO4) mg/L - 500 - <1.0 9778278 <1.0 1.0 9778266 MISCELLANEOUS True Colour Col. Unit - 15 - 49.0 9778304 <5.0 5.0 9778304 Nutrients Nutrients Nutrate plus Nitrite (N) mg/L < <0.020 9778967 <0.020 0.020 9778967 Physical Properties Turbidity NTU see remark see remark 1.2 9778323 1.4 0.10 9779811 No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels RDL = Reportable Detection Limit	Bicarbonate (HCO3)	mg/L	-	-	-	2.0	9777838	28	1.0	9778021
Hydroxide (OH)	Carbonate (CO3)	mg/L	-	-	-	<1.0	9777838	<1.0	1.0	9778021
Dissolved Chloride (Cl)   mg/L   -     250   -     2.0     9778278   12   1.0   9778266	Dissolved Fluoride (F)	mg/L	1.5	•	-	<0.050	9780647	<0.050	0.050	9780647
Dissolved Sulphate (504) mg/L - 500 - <1.0 9778278 <1.0 1.0 9778269  MISCELLANEOUS  True Colour	Hydroxide (OH)	mg/L	-	-	-	<1.0	9777838	<1.0	1.0	9778021
MISCELLANEOUS  True Colour	Dissolved Chloride (Cl)	mg/L	•	250	-	2.0	9778278	12	1.0	9778269
True Colour   Col. Unit   -   15   -   49.0   9778304   <5.0   5.0   9778304    Nutrients  Nitrate plus Nitrite (N)   mg/L   -   -   <0.020   9778967   <0.020   0.020   9778967    Physical Properties  Turbidity   NTU   see remark   see remark   see remark   1.2   9778323   1.4   0.10   9779813    No Fill   No Exceedance   Exceeds 1 criteria policy/level   Exceeds both criteria/levels  RDL = Reportable Detection Limit	Dissolved Sulphate (SO4)	mg/L		500	-	<1.0	9778278	<1.0	1.0	9778269
Nutrients   Nutrients   Nutrate plus Nitrite (N)   mg/L   -   -   -   < 0.020   9778967   < 0.020   0.020   9778965	MISCELLANEOUS									
Nitrate plus Nitrite (N)   mg/L   -   -   -   <0.020   9778967   <0.020   0.020   9778967	True Colour	Col. Unit	-	15	-	49.0	9778304	<5.0	5.0	9778304
Physical Properties Turbidity NTU see remark see remark see remark 1.2 9778323 1.4 0.10 9779813  No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels  RDL = Reportable Detection Limit	Nutrients									
Turbidity NTU see remark see remark 1.2 9778323 1.4 0.10 9779813  No Fill No Exceedance Exceeds 1 criteria policy/level Exceeds both criteria/levels  RDL = Reportable Detection Limit	Nitrate plus Nitrite (N)	mg/L	-	-	-	<0.020	9778967	<0.020	0.020	9778967
No Fill  Grey  Exceeds 1 criteria policy/level  Black  Exceeds both criteria/levels  RDL = Reportable Detection Limit	Physical Properties								•	
Grey Exceeds 1 criteria policy/level  Black Exceeds both criteria/levels  RDL = Reportable Detection Limit	Turbidity	NTU	see remark	see remark	see remark	1.2	9778323	1.4	0.10	9779811
Black Exceeds both criteria/levels  RDL = Reportable Detection Limit	No Fill	No Exceedance								
RDL = Reportable Detection Limit	Grey	xceeds 1 crite	ria policy/lev	el						
·	Black	xceeds both c	riteria/levels							
N/A = Not Applicable	RDL = Reportable Detection	on Limit								
	N/A = Not Applicable									

# TRIHALOMETHANE AND HALOACETIC ACID QUARTERLY RESULTS 1



Surrey, British Columbia V3S 8P8, Canada

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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:

THM/HAA Sampling for Quarter #1 2020

Project Location:

LSD:

P.O.: Proj. Acct. code:

4350

Lot ID: 1401753

Control Number:

Date Received: Jan 10, 2020 Date Reported: Jan 20, 2020

Report Number: 2482141

Reference Number Sample Date

Sample Time

Sample Location

Sample Description

1401753-1

January 09, 2020 10:40

WTP Reservoir / 8.4 °C

		Sample Matrix	vvater			
				Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.019	0.001		
Bromodichloromethane		mg/L	0.001	0.001		
Dibromochloromethane		mg/L	< 0.001	0.001		
Bromoform		mg/L	< 0.001	0.001		
Total Trihalomethanes		mg/L	0.020	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	96	50-140		
Toluene-d8	EPA Surrogate	%	96	50-140		
Bromofluorobenzene	EPA Surrogate	%	103	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	6.5	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Trichloroacetic Acid		μg/L	6.5	2.0		
Total Haloacetic Acids (HAA6)		μg/L	13.0	2.0		





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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:

THM/HAA Sampling for Quarter #1 2020

Project Location:

LSD: P.O.:

4350 Proj. Acct. code:

Lot ID: 1401753

Control Number:

Date Received: Jan 10, 2020 Date Reported: Jan 20, 2020 Report Number: 2482141

Reference Number Sample Date

January 09, 2020 11:10

1401753-2

Sample Time

Sample Location Sample Description Chatham Ave. / 8.4 °C

Sample Matrix Water

		Sample Matrix	water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Trihalomethanes Screen	ı - Water					
Chloroform		mg/L	0.044	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	0.046	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	94	50-140		
Toluene-d8	EPA Surrogate	%	97	50-140		
Bromofluorobenzene	EPA Surrogate	%	106	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	9.6	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Trichloroacetic Acid		μg/L	11.7	2.0		
Total Haloacetic Acids (HAA6)		µg/L	21.3	2.0		

Uperations Manager

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# THM/HAA RESULTS - QUARTER 2



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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: J.Jewell

Company: District of Port Hardy

Project ID:

Project Name: Project Location: LSD:

P.O.: 4455

Proj. Acct. code:

Lot ID: 1417322

Control Number:

Date Received: Apr 8, 2020 Date Reported: Apr 16, 2020 Report Number: 2505598

Reference Number 1417322-1 April 07, 2020 Sample Date Sample Time Sample Location

Sample Description Reservoir / 6.3 °C

		Sample Matrix	Water			
				Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.023	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	0.025	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	111	50-140		
Toluene-d8	EPA Surrogate	%	96	50-140		
Bromofluorobenzene	EPA Surrogate	%	93	50-140		
Haloacetic Acids - Water						
Monochloroacetic Acid		μg/L	<2.0	2.0		
Monobromoacetic Acid		μg/L	<2.0	2.0		
Dichloroacetic Acid		μg/L	5.4	2.0		
Trichloroacetic Acid		μg/L	3.3	2.0		
Bromochloroacetic Acid		μg/L	3.8	2.0		
Dibromoacetic Acid		μg/L	4.0	2.0		
Total Haloacetic Acids (HAA6)		μg/L	16.5	2.0	80	Below MAC





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**Analytical Report** 

Project ID: Bill To: District of Port Hardy Project Name: Box 68

Project Location: Port Hardy, BC, Canada V0N 2P0

P.O.: 4455 Attn: Accounts Payable Proj. Acct. code: Sampled By: J.Jewell

Lot ID: 1417322

Control Number:

Date Received: Apr 8, 2020 Date Reported: Apr 16, 2020 Report Number: 2505596

Company: District of Port Hardy

Reference Number Sample Date Sample Time

April 07, 2020 NA

1417322-2

Sample Location

Sample Description Chatham Ave. / 6.3 °C

		Sample Matrix	Water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.043	0.001		
Bromodichloromethane		mg/L	0.003	0.001		
Dibromochloromethane		mg/L	< 0.001	0.001		
Bromoform		mg/L	< 0.001	0.001		
Total Trihalomethanes		mg/L	0.046	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	112	50-140		
Toluene-d8	EPA Surrogate	%	96	50-140		
Bromofluorobenzene	EPA Surrogate	%	93	50-140		
Haloacetic Acids - Water						
Monochloroacetic Acid		μg/L	<2.0	2.0		
Monobromoacetic Acid		μg/L	<2.0	2.0		
Dichloroacetic Acid		μg/L	8.8	2.0		
Trichloroacetic Acid		μg/L	9.7	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Total Haloacetic Acids (HAA6)		µg/L	18.5	2.0	80	Below MAC

# THM/HAA RESULTS - QUARTER 3



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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:

THM/HAA Sampling for

1433798-1

Quarter #3 2020

Project Location:

LSD: P.O.:

4461 Proj. Acct. code:

Lot ID: 1433798

Control Number:

Date Received: Jul 9, 2020 Date Reported: Jul 20, 2020 Report Number: 2529495

Reference Number Sample Date Sample Time

Sample Location Sample Description

WTP Reservoir / 3.9 °C

Sample Matrix

		Sample Maurix	vvaler			
				Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.026	0.001		
Bromodichloromethane		mg/L	0.001	0.001		
Dibromochloromethane		mg/L	< 0.001	0.001		
Bromoform		mg/L	< 0.001	0.001		
Total Trihalomethanes		mg/L	0.027	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	101	50-140		
Toluene-d8	EPA Surrogate	%	100	50-140		
Bromofluorobenzene	EPA Surrogate	%	106	50-140		
Haloacetic Acids - Water	•					
Monochloroacetic Acid		μg/L	<2.0	2.0		
Monobromoacetic Acid		μg/L	<2.0	2.0		
Dichloroacetic Acid		μg/L	11.5	2.0		
Trichloroacetic Acid		μg/L	16.4	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Total Haloacetic Acids (HAA6)		μg/L	28.0	12.0	80	Below MAC
2,3-Dibromopropionic aci	d	%	100	50-150		



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Analytical Report

Bill To: District of Port Hardy

Box 68

Port Hardy, BC, Canada

VON 2PO

Attn: Accounts Payable Sampled By: R. LeFort

Company: District of Port Hardy

Project ID: Project Name:

Project Location:

LSD:

P.O.: 4461 Proj. Acct. code:

THM/HAA Sampling for Quarter #3 2020

Control Number:

Date Received: Jul 9, 2020 Date Reported: Jul 20, 2020

Lot ID: 1433798

Report Number: 2529495

1433798-2 Reference Number

Sample Date Sample Time Sample Location

Sample Description Chatham Ave. / 3.9 °C

		Sample Matrix	Water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Trihalomethanes Screen	ı - Water					
Chloroform		mg/L	0.052	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	0.054	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	102	50-140		
Toluene-d8	EPA Surrogate	%	101	50-140		
Bromofluorobenzene	EPA Surrogate	%	102	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	19.0	2.0		
Trichloroacetic Acid		μg/L	25.1	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Total Haloacetic Acids (HAA6)		μg/L	44.1	12.0	80	Below MAC
2,3-Dibromopropionic aci	d	%	99	50-150		

Approved by:

Operations Manager

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# THM/HAA RESULTS - QUARTER 4



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Analytical Report

Bill To: District of Port Hardy

Water & Wastewater Division 8900 Park Drive Port Hardy, BC, Canada

VON 2P0 Attn: Joe Jewell Sampled By: R. LeFort Company: District of Port Hardy Project ID: Project Name:

Project Location: Port Hardy

LSD: P.O.: 4988 Proj. Acct. code:

Lot ID: 1456332

Control Number:

Date Received: Oct 30, 2020 Date Reported: Nov 4, 2020 Report Number: 2565859

Reference Number Sample Date

1456332-1 October 29, 2020 10:36

Sample Time

Sample Location Sample Description

Reservoir / 8.3 °C

		Sample Matrix	Water			
				Nominal Detection	Guideline	Guideline
Analyte		Units	Result	Limit	Limit	Comments
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.049	0.001		
Bromodichloromethane		mg/L	0.003	0.001		
Dibromochloromethane		mg/L	< 0.001	0.001		
Bromoform		mg/L	< 0.001	0.001		
Total Trihalomethanes		mg/L	0.052	0.001	0.1	Below MAC
Trihalomethanes - Surrog	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	125	50-140		
Toluene-d8	EPA Surrogate	%	98	50-140		
Bromofluorobenzene	EPA Surrogate	%	105	50-140		
Haloacetic Acids - Water						
Monochloroacetic Acid		μg/L	2.4	2.0		
Monobromoacetic Acid		μg/L	<2.0	2.0		
Dichloroacetic Acid		μg/L	15.4	2.0		
Trichloroacetic Acid		μg/L	18.5	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Total Haloacetic Acids (HAA6)		μg/L	36.3	12.0	80	Below MAC
2,3-Dibromopropionic acid	I	%	110	50-150		



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Analytical Report

Bill To: District of Port Hardy

element

Water & Wastewater Division 8900 Park Drive

Port Hardy, BC, Canada V0N 2P0 Attn: Joe Jewell

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

Project Name: Project Location: Port Hardy LSD:

P.O.: 4988 Proj. Acct. code:

Lot ID: 1456332

Control Number:

Date Received: Oct 30, 2020 Date Reported: Nov 4, 2020 Report Number: 2565859

Reference Number Sample Date

1456332-2 October 29, 2020

Sample Time 10:56

Sample Location Sample Description Chatham Ave. / 8.3 °C

		Sample Matrix	Water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Trihalomethanes Screen	- Water					
Chloroform		mg/L	0.079	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	0.083	0.001	0.1	Below MAC
Trihalomethanes - Surro	gate Recovery					
Dibromofluoromethane	EPA Surrogate	%	128	50-140		
Toluene-d8	EPA Surrogate	%	99	50-140		
Bromofluorobenzene	EPA Surrogate	%	107	50-140		
Haloacetic Acids - Water	г					
Monochloroacetic Acid		μg/L	3.0	2.0		
Monobromoacetic Acid		μg/L	<2.0	2.0		
Dichloroacetic Acid		μg/L	22.9	2.0		
Trichloroacetic Acid		μg/L	34.0	2.0		
Bromochloroacetic Acid		μg/L	<2.0	2.0		
Dibromoacetic Acid		μg/L	<2.0	2.0		
Total Haloacetic Acids (HAA6)		μg/L	59.9	12.0	80	Below MAC
2,3-Dibromopropionic aci	d	%	120	50-150		

Approved by:

Operations Manager

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

Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

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# ADDITIONAL SAMPLING RESULTS

## Sample Results from Hastings Street Main Break January 2020



DISTRICT OF PORT HARDY Your P.O. #: 4255

## MICROBIOLOGY (WATER)

BV Labs ID				XF1169	XF1170		
Sampling Date				2020/01/07	2020/01/07		
Sampling Date				14:50	15:00		
COC Number				G140068	G140068		
		UNITS	MAC	8865 HASTINGS	8835 HASTINGS	QC Batch	
Microbiological	Param.						
Total Coliforms		CFU/100mL	0	0	0	9728977	
E. coli		CFU/100mL	0	0	0	9728977	
No Fill	No Exceeda	nce					
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds bot	th criteria/lev	els				



DISTRICT OF PORT HARDY Your P.O. #: 4255

#### MICROBIOLOGY (DRINKING WATER)

	MICROBIOLOGY (DRINKING WATER)								
BV Labs ID				XF2326	XF2327				
Sampling Date				2020/01/08	2020/01/08				
				11:50	12:00				
COC Number				G140069	G140069				
		UNITS	MAC	8865 HASTINGS	8835 HASTINGS	QC Batch			
Microbiological	Param.								
Total Coliforms		CFU/100mL	0	0	0	9730154			
E. coli		CFU/100mL	0	0	0	9730154			
No Fill	No Exceedar	nce							
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds bot	h criteria/lev	els						

# SAMPLE RESULTS AFTER MAIN STREET MAIN BREAK



DISTRICT OF PORT HARDY Client Project #: Sampling Supplies Order Your P.O. #: 4255

#### MICROBIOLOGY (DRINKING WATER)

BV Labs ID			YJ8223	YJ8224	YJ8225	YJ8226	YJ8227			
Sampling Date			2020/09/03 12:45	2020/09/03 12:35	2020/09/03 12:25	2020/09/03 12:20	2020/09/03 12:00			
COC Number			617688-08-01	617688-08-01	617688-08-01	617688-08-01	617688-08-01			
	UNITS	MAC	SPORTY	8720 MAIN	CENTRAL LIFTSTATION	8708 TELCO	8730 SEAVIEW	QC Batch		
Microbiological Param.										
Total Coliforms (QT)	MPN/100mL	0	0	0	0	0	0	9988824		
E. coli (QT)	MPN/100mL	0	0	0	0	0	0	9988824		
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both crit	eria/le	evels							

BV Labs ID				YJ8228	YJ8229		
Sampling Date			2020/09/03	2020/09/03			
				11:40	11:30		
COC Number				617688-08-01	617688-08-01		
		UNITS	MAC	7300 COLUMBIA ST.	MUNICIPAL HALL	QC Batch	
Microbiological	Param.						
Total Coliforms (QT)		MPN/100mL	0	0	0	9988824	
E. coli (QT)		MPN/100mL	0	0	0	9988824	
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						

# STOREY'S BEACH SAMPLING

STOREY'S BEACH	Port Hardy – Salt Water					
	Carlton Street	Bacteriological Sample on 19/05/2020 – Enterococci : LT5				
		Bacteriological Sample on 13/07/2020 – Enterococci : LT5				
	Rotary Pavilion	Bacteriological Sample on 19/05/2020 – Enterococci : LT5				
		Bacteriological Sample on 13/07/2020 – Enterococci : LT5				
	Scotia Street	Bacteriological Sample on 19/05/2020 – Enterococci : LT5				
		Bacteriological Sample on 13/07/2020 – Enterococci : LT5				
	100 m NW of Rotary Pavilion	Bacteriological Sample on 19/05/2020 – Enterococci : LT5				
		Bacteriological Sample on 13/07/2020 – Enterococci : LT5				

Last updated Thursday, August 06, 2020

100 m SE of Rotary Pavilion	Bacteriological Sample on 19/05/2020 – Enterococci : LT5
	Bacteriological Sample on 13/07/2020 – Enterococci : LT5