



*Loch Lomond Drinking Water Treatment Facility  
September 2018*

## *2018 Annual Water Report*



# ***2018 Saint John Water - Annual Water Report***

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## 1. INTRODUCTION

Saint John Water, a department of the City of Saint John, is responsible for the delivery of the *Drinking Water* and the *Industrial Water services*. The following annual report covers both the Drinking Water and the Industrial Water services with the main focus being Drinking Water.

The goal of the *Drinking Water* service is to reliably supply safe, clean drinking water to all users. The service is regulated under the Clean Environment Act – Water Quality Regulation and Clean Water Act - Potable Water Regulation and delivered under *Approval to Operate W-1510 Drinking Water Treatment and Distribution Facilities*. This *Approval to Operate* (see Appendix E) was issued by the New Brunswick Minister of the Environment on September 7, 2017 superseding Approval W-1332. The City’s current certificate is valid for a 5-year period from September 7, 2017 to September 6, 2022. The certificate represents formal authorization to the City of Saint John (Approval Holder) by the Minister to operate drinking water facilities.

All municipal drinking water systems in New Brunswick are required to abide by the various conditions set out in *Approvals to Operate* drinking water treatment and distribution facilities. These regulatory tools set standards for water treatment facilities, distribution facilities, system operators and overall operation of facilities that strive to ensure safe and reliable drinking water for all users. Saint John Water fully endorses these standards and the philosophy behind the need for strict regulation of systems supplying such a vital public service.

The Industrial Water service provides large industrial customers in Saint John (Irving Pulp & Paper, Irving Tissue, NB Power Coleson Cove Generation Station, Irving Oil Refinery and Irving Paper) with raw industrial water to support and carry out their processes.

### 1.1. Protective Barriers

People must have safe, clean drinking water. That water must be delivered to Saint John homes, institutions and businesses in a quality that meets the New Brunswick Drinking Water Quality Guidelines. Saint John Water goes above and beyond by striving to meet or exceed the Guidelines for Canadian Drinking Water Quality.

The *Drinking Water Service* is a public service that provides drinking water to the community and is vital to the economic vitality of the region. This service includes the supply of water, treatment, testing, transmission and distribution, administration of the service, and billing and collections.



Saint John Water manages its drinking water service based on the Multi-Barrier Approach from the water source to the user's tap. Drinking water quality must be assured through a series of protective barriers:

1. Source (watershed and wellfield) Protection
2. Drinking Water Treatment
3. Operations and Maintenance (including staff training, development and staff levels)
4. Monitoring and Alarms (Sampling Plan, SCADA system, and record keeping)
5. Distribution System (residual chlorine maintenance, total coliform sampling, E. coli sampling, water quality flushing, storage reservoirs, backflow prevention and cross-connection control)
6. Emergency Response (contingency plans, boil order responses, safety training, etc.)

## 1.2. Annual Report

Condition 25 (Approval W-1510) of the certificate requires submission of an *Annual Report* to the New Brunswick Department of Environment and Local Government. The report provides pertinent technical and operating information to the regulator on the City's water systems including:

- Monitoring results (daily/weekly/monthly data such as free chlorine residual, turbidity, pH, temperature, iron, manganese, etc.)
- Monthly water production;
- water usage (flowmeter), and water level data for the South Bay production wells;
- Operational highlights (significant incidents and system improvements, changes, or additions);
- Alarm log (major alarms – the balance to be discussed during formal Compliance Evaluations);
- Summary of backflow prevention and cross-connection activities;
- Summary of flushing activities;
- Operator information (training, certifications, and staffing changes);
- Public relations (notifications & public education);
- List of new extensions and/or renewals complete with analytical results (microbiological, organic & inorganic); and
- Additional comments.

## 2. MONITORING RESULTS

### 2.1. Raw Water and Distribution System

The City of Saint John operates two large but separate distribution systems separated by the Reversing Falls Bridge. In September 2017, as part of the Safe, Clean Drinking Water Project, the West Saint John system (west of the Reversing Falls Bridge) was converted from a surface water supply to a groundwater supply from the South Bay Wellfield (SBWF). As a result of this change, the Spruce /Ludgate Lake reservoir along with the periodical inter-basin transfer from East Musquash is totally devoted to service raw water to industrial customers. The City maintains the protected watershed designation associated with the Spruce Lake / Ludgate Lake to ensure quality raw water is supplied to industry and as a long-term backup water supply that could be treated to meet Canadian Drinking Water Quality Guidelines.



The East water distribution system is supplied by Latimer Lake and Loch Lomond Lakes water sheds. Prior to August 30, 2018, water from the lake system was treated at Latimer Lake by first course screening the water followed by the addition of chlorine to the water as a means of disinfection. As part of the Safe, Clean Drinking Water Project, the new Loch Lomond Drinking Water Treatment Facility (LLDWTF) began supplying the east water distribution system with fully treated drinking water that exceeds the Canadian Drinking Water Quality Guidelines on August 30, 2018.

In preparation for the new Loch Lomond Drinking Water Treatment Facility, Saint John Water slowly began adding Sodium Hydroxide in April 2018 to adjust the pH of the water to match the pH of the finished water once the new Loch Lomond Drinking Water Treatment Facility was treating drinking water to a higher level. In June 2018, Saint John Water also began adding an orthophosphate solution as a means to begin transitioning the distribution pipes to the new water quality that would be produced by the Loch Lomond Drinking Water Treatment Facility once the new Facility was commissioned.

The quality of water in the lakes that make up the watersheds and the wells that make up the wellfields are important to the final quality of treated potable water. To that end, Saint John Water analyzed raw surface water sources in the eastern water system from ten locations and in the western water system from four locations. Saint John Water also analyzes the raw water at each of the five product wells (3 SBWF and 2 Harbourview subdivision). With the new west well system, there are also twelve (12) monitoring wells surrounding the wellfield which form part of the overall monitoring of the raw well water. This raw water sampling is in addition to the water quality Sampling Plan approved by the Department of Environment and Local Government. Appendix A includes maps of the east and west systems which note



the raw water sample sites. Appendix B provides a summary of all parameters measured for each of the respective raw water sampling locations.

The approved Water Sampling Plan from the Department of Environment and Local Government required that samples be collected weekly at thirty eight locations across the three water systems and microbiologically analyzed. Twenty three of the sites are required to be analyzed semi-annually for inorganic parameters and quarterly for organic parameters.

The sampling plan adhered to during 2018 is summarized in Table 2.1-1 below.

**Table 2.1-1: 2018 Summarized Sampling Plan**

<b>Bacteriological (weekly sampling)</b>		
<b>Source</b>	<b>Raw Water</b>	<b>Distribution System</b>
Loch Lomond	1	17
Spruce Lake	1	0
Red Head	2	4
South Bay Wellfield	3	10
<b>Total</b>	<b>7</b>	<b>31</b>
<b>Inorganic (semi-annual sampling)</b>		
<b>Source</b>	<b>Raw Water</b>	<b>Distribution System</b>
Loch Lomond	1	7
Spruce Lake	1	0
Red Head	2	2
South Bay Wellfield	3	7
<b>Total</b>	<b>7</b>	<b>16</b>
<b>Organic (quarterly sampling)</b>		
<b>Source</b>	<b>Raw Water</b>	<b>Distribution System</b>
Loch Lomond	1	7
Spruce Lake	1	0
Red Head	2	2
South Bay Wellfield	3	7
<b>Total</b>	<b>7</b>	<b>16</b>

Organic and inorganic analytical results are included in Appendix C noting each location where the respective samples were collected.

Weekly microbiological results for *E. coli* (EC), total coliforms (TC) and monthly results for Heterotrophic Plate Count (HPC) can be found in Appendix D.

**General Comments regarding procedures developed and followed by Saint John Water:**

- Given the historic levels of trihalomethanes (THMs) found at some of the sampling locations, the frequency of THM sampling remained at monthly; well above the





Sampling Plan requirements of quarterly analyses. THMs are formed when the disinfectant chlorine reacts with decaying organic material in the untreated water. Results are reported in Appendix Q.

- Haloacetic acids (HAAs) are another disinfection by-product formed when chlorine reacts with organic material in the unfiltered water. Although HAAs are not currently regulated in New Brunswick, it is anticipated that this will happen in the future. Results are reported in Appendix Q.
- Dissolved organic carbon (DOC) and total organic carbon (TOC) are precursors to the formation of both THMs and HAAs. These parameters continued to be monitored during 2018. The Lomond Water Treatment Facility was designed to reduce these organic precursors. When the disinfectant (chlorine) is added near the end of the treatment process at the new Facility, the quantities of THMs and HAAs formed are substantially less than prior to the new Facility, and less than the levels regulated by Health Canada. With the development of the South Bay Wellfield, these organic carbons are essentially non-existent and thus THMs and HAAs in West Saint John are essentially non-existent and well within regulatory requirements after September 2017. Results are reported in Appendix Q. With the commissioning of the new Loch Lomond Drinking Water Treatment Facility, THM and HAA formations have reduced dramatically within the East, North & South distribution system as can be seen in Appendix Q.
- Collection of samples for ultraviolet transmittance (UVT) first began in May of 2007. Results for 2018 are reported in Appendix Q. Since the commissioning of the South Bay Wellfield there has been a significant improvement in UVT.
- Taste and odour sampling continued to be monitored in 2018. The indicator parameters for taste and odour are Geosmin and MIB (2-methylisoborneol). Results are included in Appendix S.

With respect to water testing, Saint John Water utilizes a number of accredited laboratories. Analytical service providers include: Saint John Laboratory Services Ltd. for microbiological analyses; SGS Canada for organics (including THMs and HAAs) and taste/odour analyses; Saint John Laboratory Services Ltd. for inorganics; AGAT Laboratories for organic carbon (dissolved and total); Caduceon Environmental Laboratories for benzo[a]pyrene and pentachlorophenol; Saint John Laboratory Services Ltd. for the watershed analyses; and SGS Canada performed “Full Scan” analyses (including pesticides, dioxins, furans and radionuclides) on Latimer Lake & Spruce Lake Raw sources. Regarding the “Full Scan” analyses, SGS Canada subcontracted out the dioxin and furans analysis to Wellington Laboratories and the radionuclides (gross alpha, gross beta & Tritium) to Maxxam Analytics.

Saint John Water has been utilizing the WaterTrax data management service for many years. It allows data to be input directly into the database by contract laboratories as well as field staff, and historical data may be reported via custom templates, plotted on trend screens, or



downloaded into spreadsheet format. The Department of Health has access to all data within WaterTrax.

## 2.2. Monitoring Results

On-line chlorine analyzers are located at the Lakewood Heights Pumping Station (east) and the Gault Road PRV (west). As a result of the infrastructure changes at the Lakewood Heights Pump Station due to the SCDWP, the on-line chlorine analyser at Lakewood Heights Pump Station was relocated to the Champlain Heights Pump Station in August 2018. The data collected during 2018 is summarized in Appendix F. Furthermore, residual chlorine is also monitored by on-line chlorine analyzers at the Latimer Lake Facility and Spruce Lake Facility.

On-line turbidity monitoring was installed and commissioned at the Latimer Lake Treatment Facility and the Spruce Lake Treatment Facility in 2008. Three additional on-line turbidity meters were installed at the South Bay Wellfield in 2017. Manual calibration checks are performed to confirm the accuracy of the on-line instruments. The turbidity data collected during 2018 is summarized in Appendix Q.

The temperature of the raw surface water sources are also measured regularly. The data collected during 2018 are summarized in Appendix Q and include the raw waters at Latimer Lake, Spruce Lake, and each of the three production wells at the South Bay Wellfield.

Included in Appendix G is the chlorine residual data collected as part of the regular water testing program as well as other regularly monitored data, such as pH, turbidity, total dissolved solids, conductivity, and iron. The Saint John Water Environmental Laboratory continues to participate in CALA Proficiency Testing for various parameters to assure our in-house analysis meets industry standards.

Saint John Water Environmental Laboratory staff calibrates the portable chlorine detection units to ensure reading accuracy. The HACH Chlorine Pocket Colorimeters calibration check is targeted to be performed on a quarterly basis, or more often if requested from the user. The units are compared against HACH standards to ensure their reliability. The results from these regular calibration checks are recorded and are included in Appendix I.

Saint John Water utilizes four portable HACH turbidimeters for field work and spot checks on stationary instruments. These portable instruments undergo calibration checks quarterly. Annually a HACH customer service representative is contracted to check the portable turbidimeters and on a rotational basis the HACH Chlorine Pocket Colorimeters. Functional Check Record sheets for the portable turbidimeters are also located in Appendix I.

The SCADA (Supervisory Control and Data Acquisition) system that monitors on-line parameters throughout the water system includes a system for generating alarms when conditions are outside of the pre-set desired operating ranges. Saint John Water continues to



verify on a regular basis that this system for chlorination alarms, turbidity alarms, and facility intrusion alarms are operating correctly.

### 3. WATER PRODUCTION

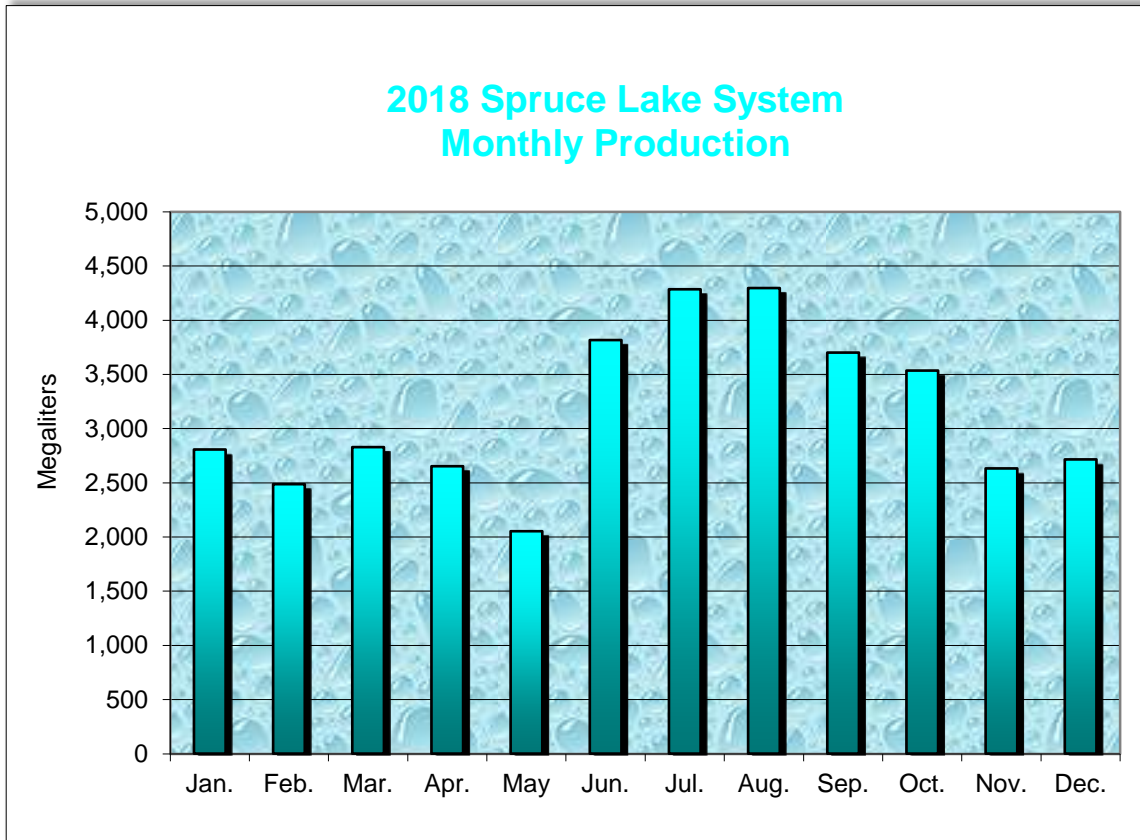
#### 3.1. Spruce Lake Industrial System

In September 2017, when the South Bay Wellfield came online supplying high quality drinking water to west side customers, the Spruce Lake reservoir became a raw water source for industrial customers on the West side. Annual raw industrial water supplied by Spruce Lake in 2018 was 37.8 billion litres. Table 3.1-1 below breaks down the annual Raw Water withdrawn from Spruce Lake by month including the peak volumes per month.

**Table 3.1-1: Spruce Lake – 2018 Raw Water Production**

Month	Peak Daily Production (Mega Litres)	Monthly Production (Mega Litres)
January	93.5	2,805.4
February	90.5	2,485.4
March	95.9	2,827.3
April	95.7	2,651.1
May	110.2	2,051.6
June	144.5	3,815.0
July	139.2	4,283.4
August	145.5	4,294.7
September	123.3	3,699.3
October	142.0	3,533.4
November	142.0	2,630.7
December	91.6	2,713.9
<b>TOTAL</b>		<b>37,791.2</b>

Figure 3.1-1 below represents this data in graphical form.



**Figure 3.1-1: 2018 Spruce Lake Monthly Raw Water Production**

### 3.2. South Bay Wellfield

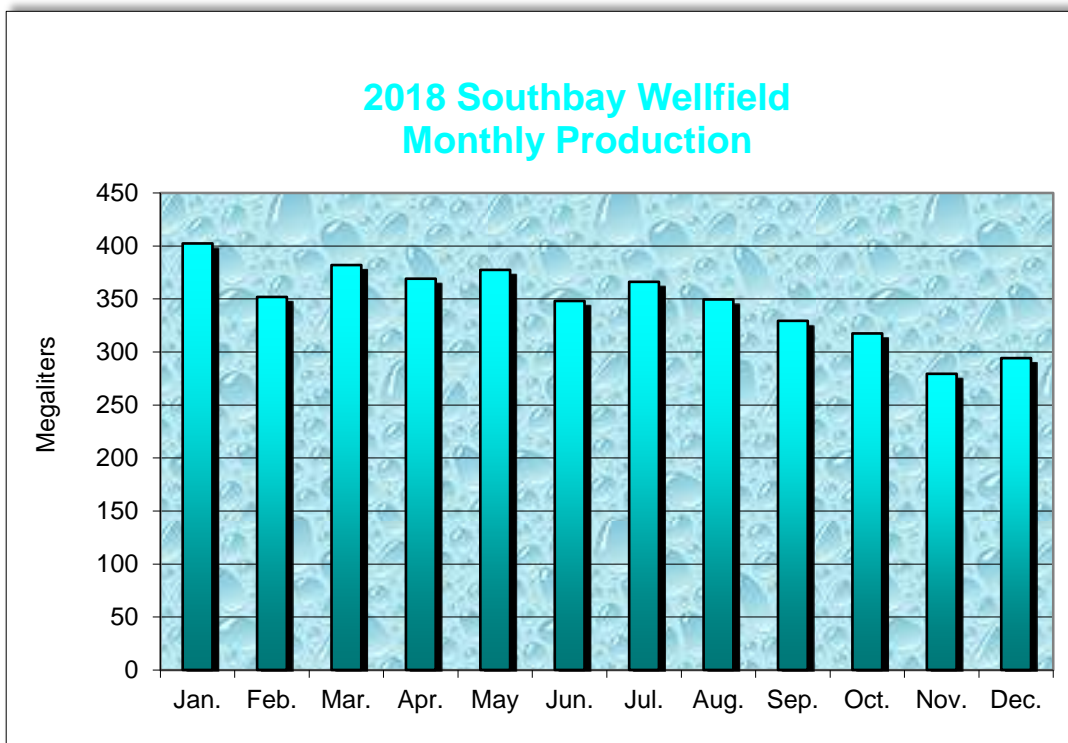
Annual ground water withdrawn from the South Bay aquifer in 2018 was about 4.2 billion litres. 2018 was the first full year water was pumped from the aquifer and delivered to customers after chlorination and orthophosphate addition at the Spruce Lake Treatment Facility. Table 3.2-1 below breaks down the annual ground water withdrawn from the South Bay Aquifer by month including the peak volumes per month.



**Table 3.2-1: South Bay Wellfield – 2018 Water Production**

Month	Peak Daily Production (Mega Litres)	Average Daily Production (Mega Litres)	Monthly Production (Mega Litres)
January	16.5	13.0	402.2
February	15.5	12.6	351.7
March	14.5	12.3	381.8
April	15.1	12.3	368.9
May	15.2	12.2	377.2
June	14.5	11.6	347.9
July	14.0	11.8	366.0
August	15.0	11.3	349.4
September	13.1	11.0	329.2
October	14.3	10.2	317.3
November	11.6	9.3	279.2
December	11.3	9.5	294.0
<b>TOTAL AVERAGE</b>		<b>11.4</b>	<b>4,164.9</b>

Figure 3.2-1 below represents this data in graphical form.



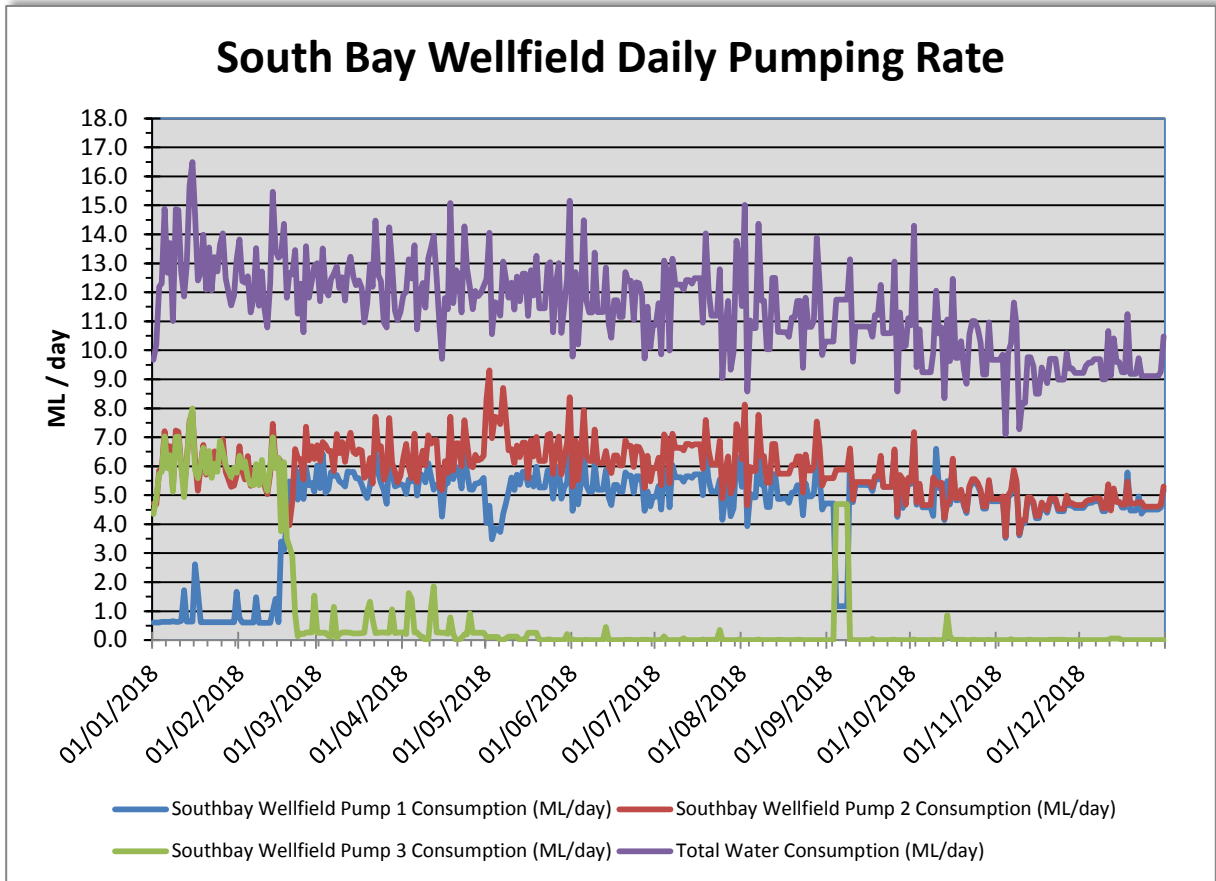
**Figure 3.2-1: 2018 South Bay Wellfield Monthly Potable Water Production**

Condition 2 in our Approval to Operate W-1510 indicates a maximum annual average pumping rate for the combined three production wells of 12.5 ML/day. It further states that



the 12.5 ML/day operational pumping rate for the South Bay Wellfield is to be averaged over a running annual basis (i.e. a maximum of 4562.5ML pumped over 365 days).

As can be seen in Table 3.2-1 a maximum of 4164.9 ML was pumped from the aquifer in 2018. This represents 91.3% of the maximum allowable water pumped from the aquifer or 397.6 ML lower than the maximum allowable as per our Approval to Operate. Furthermore, the daily average pumping rate over the entire year is 11.4 ML/day which is lower than the 12.5 ML/day permitted within the Approval to Operate; therefore Saint John Water is compliant with condition 2 of the Approval to Operate. Figure 3.2-2 below illustrates the daily pumping rates for the three production wells along with the total of all three pumps (purple line).



**Figure 3.2-2: 2018 South Bay Wellfield Daily Pumping Rates**

As can be seen in Figure 3.2-2, the water demands on the west side were highest in January 2018 decreasing constantly over the entire year ending with the lowest water demands at the end of 2018. This pattern of water usage or water demands by Customer has not been experienced in previous years by Saint John Water. Water demands can be expected to peak in summer months during higher water usage periods.

Approval to Operate W-1510 also requires the monitoring and recording of water levels in each of the three production wells (Condition 27). Condition 27 further states that each well is not to fall below +1m above mean sea level (amsl) more than 100 days/year with a maximum of 20 consecutive days. Table 3.2-2 below shows the water elevation for each production well on a quarterly basis since the production wells were commissioned in September 2017.

**Table 3.2-2: South Bay Wellfield – 2017/2018 Quarterly Production Well Water Elevation<sup>1</sup>**

Well ID	Monitoring Period	Water Level Elevation at Start of the Monitoring Period (m asl)	Water Level Elevation at End of the Monitoring Period (m asl)	Approximate Change in Water Level Elevation (m)	
				Quarterly	Total <sup>2,3</sup>
Well #1	Q1 (Oct –Dec 2017)	4.6	2	2.6	2.6
	Q2 (Jan – Mar 2018)	2	0.6	1.4	4
	Q3 (Apr – Jun 2018)	0.6	0.2	0.4	4.4
	Q4 (Jul – Sep 2018)	0.2	-0.8	1	5.4
	Q5 (Oct – Dec 2018)	-0.8	-1.2	0.4	5.8
Well #2	Q1 (Oct –Dec 2017)	4.7	2	2.7	2.7
	Q2 (Jan – Mar 2018)	2	0.5	1.5	4.2
	Q3 (Apr – Jun 2018)	0.5	0.1	0.4	4.6
	Q4 (Jul – Sep 2018)	0.1	-0.7	0.8	5.4
	Q5 (Oct – Dec 2018)	-0.7	-1.1	0.4	5.8
Well #3	Q1 (Oct –Dec 2017)	4.7	2	2.7	2.7
	Q2 (Jan – Mar 2018)	2	0.6	1.4	4.1
	Q3 (Apr – Jun 2018)	0.6	0.2	0.4	4.5
	Q4 (Jul – Sep 2018)	0.2	-0.7	0.9	5.4
	Q5 (Oct – Dec 2018)	-0.7	-0.8	0.1	5.5

Notes:

1. Data supplied by BGC Engineering based on Saint John Water’s SCADA data
2. Total change in water elevation to the water level elevation observed at each location (August 21, 2017 before the start of the wellfield operation (September 14, 2017).
3. Total change at the end or Q4 is the annual change.

As shown in Table 3.2-2, the water level in each of the three production wells begins to stabilize below the +1m amsl towards the end of 2018. As a result, Saint John Water is out of compliance with respect to Condition 27 of the Approval to Operate the Drinking Water System. Saint John Water has been diligently working with industry experts along with the Department of Environment and Local Government and Department of Health to find a solution to this issue and restore the water levels in the aquifer above the +1 amsl.



In 2017, Common Council authorized the City Manager to direct City Staff to begin the wellfield designation process for the South Bay Wellfield under the Clean Water Act, Regulation 2000-47. The process will result in the designation of a Wellfield Protected Area around the South Bay wells to prevent contamination. The New Brunswick Minister of Environment, under the Clean Water Act, will issue a Wellfield Protected Area Designation Order. A Wellfield Protection Study for the South Bay Wellfield is underway and once complete it will be submitted to Department of Environment and Local Government as part of the wellfield designation process.

### 3.3. Spruce Lake / South Bay Wellfield Combined System

Annual water production (raw from Spruce Lake and potable from the South Bay Wellfield) during 2018 for the Spruce Lake / South Bay Wellfield system was approximately 41.9 billion litres, an increase of 4.2 billion litres over 2017 annual Spruce Lake water production, which was 37.7 billion litres. A comparison of water production for previous four years can be seen in Table 3.3-1 below.

**Table 3.3-1: Annual Water Production (raw and treated) Spruce Lake / South Bay Wellfield**

Year	Production (billion Liters)	Increase/Decrease from Previous Year (billions of Liters)
2018	41.9	+4.2
2017	37.7	-4.6
2016	42.3	8.1
2015	34.2	-3.5
2014	37.7	-1.9

In 2018, Loch Lomond water flowed from the East water system crossing Reversing Falls Bridge to the West system via a 900 mm transmission main from January to October. When East water is flowing across the bridge, it only supplies industrial customers (Irving Pulp and Paper and Irving Tissue). The water distribution system configuration physically prevents East treated water from mixing with west potable water due to a physical air gap which was installed between the 2 systems as part of the Safe Clean Drinking Water Project (SCDWP). Water flow across the bridge stopped on October 2, 2018 when the requirement for having the 900mm pipe in service to accommodate the SCDWP work ceased. During the period, the 900 mm transmission main was in service, industrial customers on the West side were supplied with water for process based on the operating split of approximately one-sixth of their water from East and five-sixths from the West raw water system. It is important to note that the West system supplies only raw untreated water to these industrial customers while the East system supplies potable water. Irving Pulp and Paper will be supplied raw water from the West Industrial System going forward.

In 2018, peak monthly production was 4.65 billion litres occurring in the month of July. This is 0.90 billion litres higher than the peak in 2017 as can be seen in Table 3.3-2. This table also compares the previous four year’s peak production and the month in which it occurred.

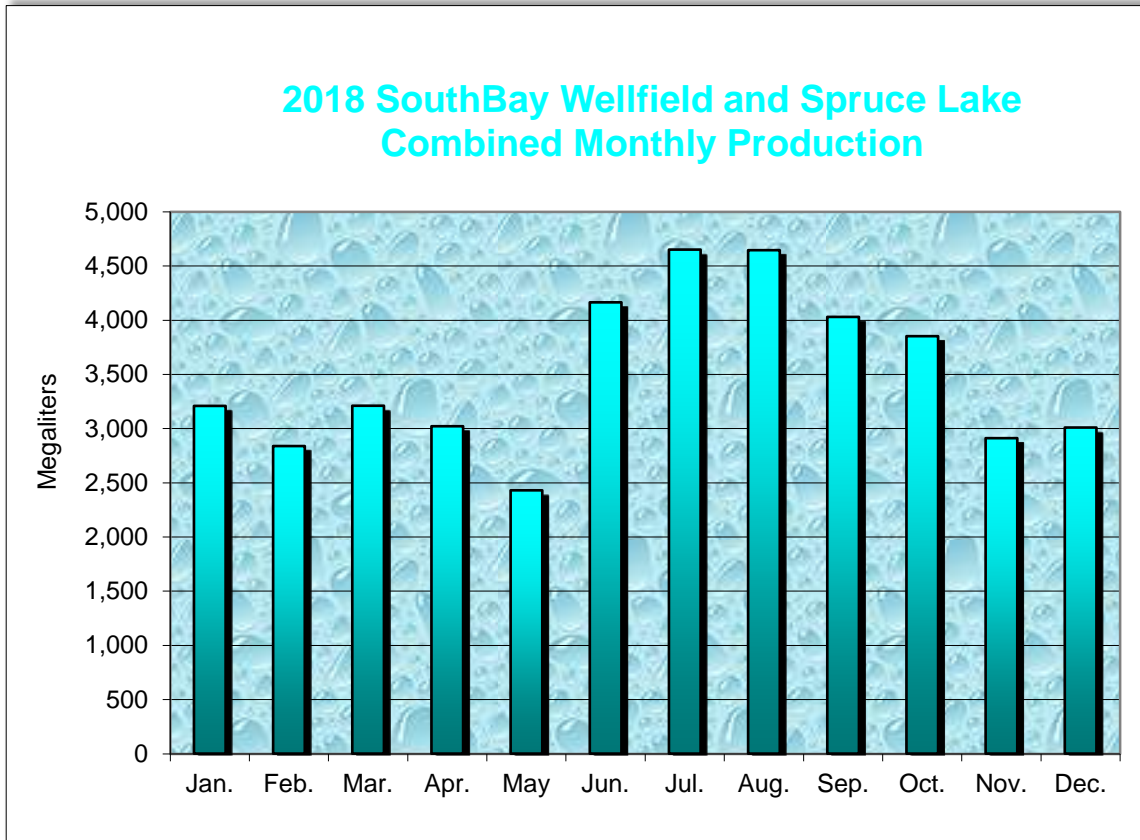


**Table 3.3-2: Peak Monthly Production (raw and treated) – Spruce Lake/South Bay Wellfield**

Year	Peak Monthly Production (billion Liters)	Increase/Decrease from Previous Year (billions of Liters)	Peak Month
2018	4.65	+0.90	Jul
2017	3.75	-0.52	Aug
2016	4.27	-0.03	Sep
2015	4.30	-0.42	Jul
2014	4.72	+0.84	Aug

**Table 3.3-3: 2018 Spruce Lake / South Bay Wellfield Combined System – Treated and Raw Water Production**

Month	Peak Daily Production (Mega Litres)	Monthly Production (Mega Litres)
January	110.0	3,207.5
February	105.9	2,837.1
March	110.3	3,209.1
April	110.8	3,020.0
May	125.3	2,428.8
June	159.0	4,162.9
July	153.2	4,649.4
August	160.6	4,644.1
September	136.5	4,028.6
October	156.3	3,850.8
November	153.7	2,910.0
December	102.9	3,007.9
<b>TOTAL</b>		<b>41,956.1</b>



**Figure 3.3-1: 2018 Spruce Lake / South Bay Wellfield Combined System Monthly Production**

### **3.4. Musquash Water System Supplemental Supply to Spruce Lake Watershed**

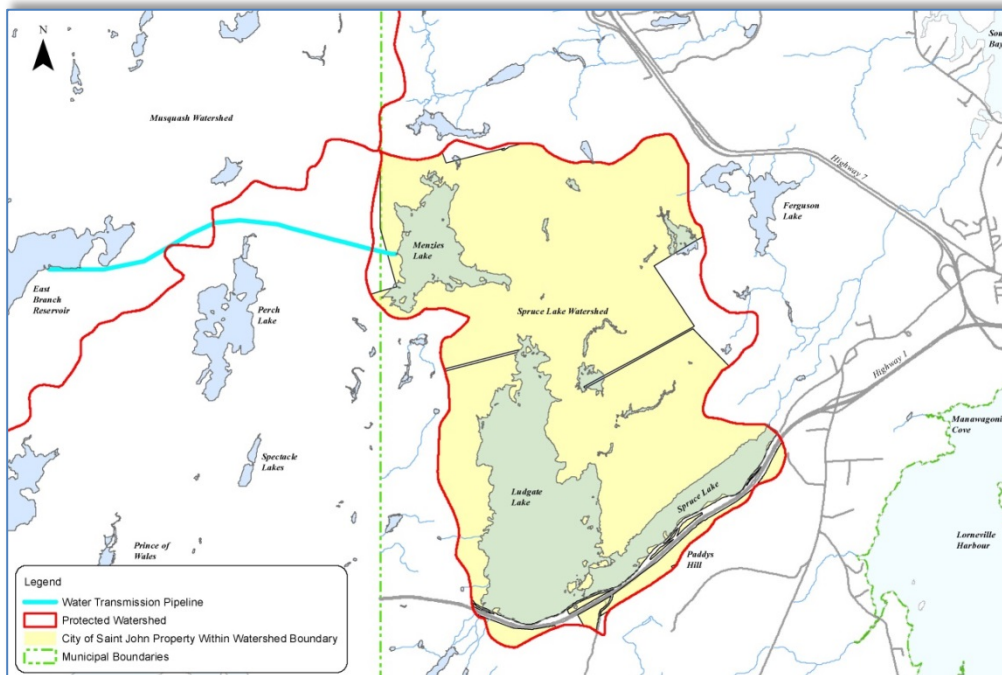
When the water level in Spruce Lake drops to approximately 60 metres, Saint John Water turns on the Musquash Pump Station and transfers water from the East Musquash watershed to Menzies Lake. This inter-basin transfer is necessary to provide for the industrial demand and to assure adequate lake levels in Spruce Lake in times of low precipitation. A total volume of 16.007 billion litres was transferred during a total of 111 days of pumping in 2018. For comparison purposes, the previous four year’s inter-basin transfers are shown in Table 3.4-1 below.



**Table 3.4-1: Musquash – Menzies Lake Interbasin Transfer**

Year	Volume Transferred (billions of Litres)	# of Operating Days
2018	16.007	111
2017	16.615	111
2016	23.726	182
2015	10.548	87
2014	7.197	57

As mentioned previously, for three months in 2018 all water delivered to Irving Pulp and Paper (IPP) flowed via the 1500mm west raw water transmission main originating from Spruce Lake as opposed to the split of approximately one-sixth from East and five-sixths from the West raw water system. As can be seen in the table above, the pumping volume and duration from Musquash remained about the same as it was in 2017. It is anticipated that once the East water transmission main is disconnected, as part of the Safe, Clean Drinking Water project, from the West industrial customer demand, the reliance on Musquash for supplemental water will increase.



**Figure 3.4-1: Map of Western Watersheds (Musquash and Spruce Lake)**

The Spruce Lake watershed is 20.6 km<sup>2</sup>. The total surface area of the lakes is 5.4 km<sup>2</sup> (26.3%) and the City owned land surface totals 13.5 km<sup>2</sup> or 65.8% of the total Spruce Lake Watershed area.

### 3.5. Loch Lomond System

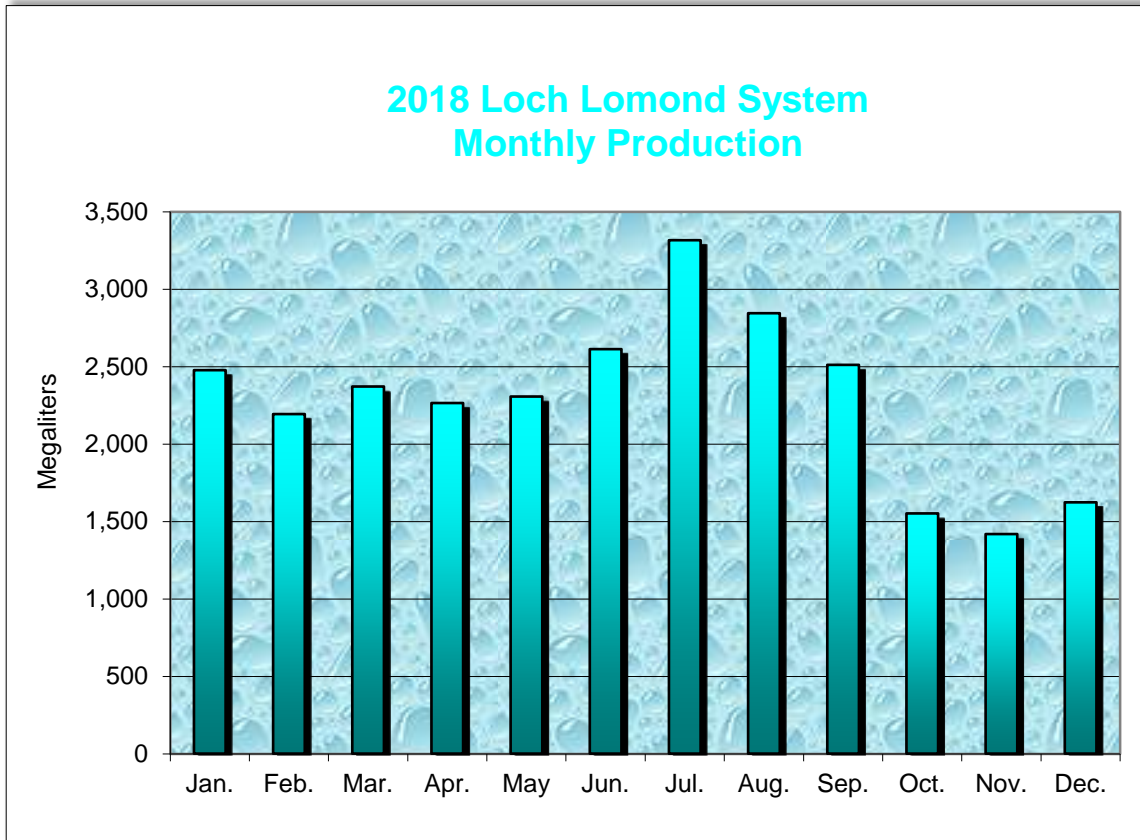
During 2018, annual water production for the Loch Lomond system (raw and treated) was 27.5 billion litres, a decrease of 5.8 billion litres over 2017 Loch Lomond water production, which was 33.3 billion litres. This decrease can be contributed to the decrease flow across the Reversing Falls Bridge via the 900mm transmission main compared to 2017 along with the rehabilitation of various water transmission and distribution pipes associated with the Safe, Clean drinking Water project. For comparison purposes, Table 3.5-1 shows the total annual water production (raw and treated) for the previous four years.

**Table 3.5-1: 2018 Annual Water Production (raw and treated)  
– Loch Lomond System**

Year	Production (billion Litres)	Increase/Decrease from Previous Year (billions of Litres)
2018	27.5	-5.8
2017	33.3	+1.6
2016	31.7	-4.7
2015	36.4	+4.4
2014	32.0	+0.2

**Table 3.5-2: Loch Lomond System 2018 Combined-Domestic and Industrial Water Production**

MONTH	Peak Daily Production (Mega Litres)	Monthly Production (Mega Litres)
January	109.2	2,476.0
February	97.5	2,192.5
March	102.4	2,370.4
April	136.0	2,263.9
May	97.6	2,305.7
June	119.2	2,611.8
July	146.3	3,315.2
August	134.7	2,843.8
September	98.0	2,510.3
October	85.9	1,551.0
November	59.4	1,417.7
December	58.6	1,622.6
<b>TOTAL</b>		<b>27,480.9</b>



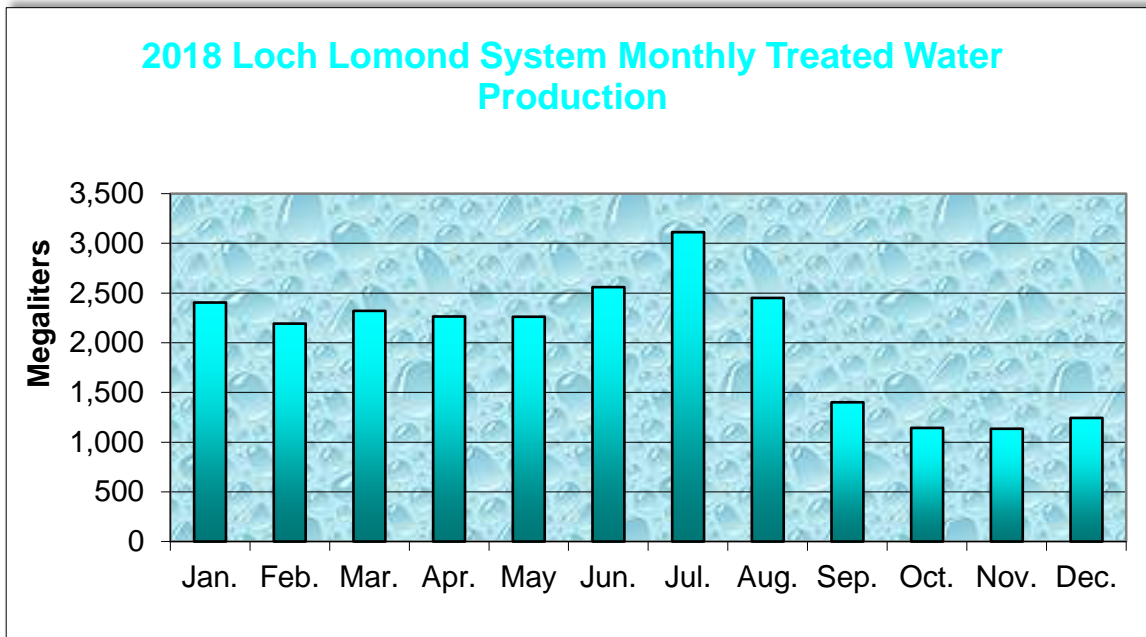
**Figure 3.5-1: 2018 Loch Lomond System Monthly Production**

Annual treated water production for 2018 for the Loch Lomond system was approximately 24.5 billion litres, a decrease of 5.4 billion litres from 2017 water production, which was 29.9 billion litres. In 2018, peak daily production was 137.5 ML an increase from 2017 which was 135.1 ML.

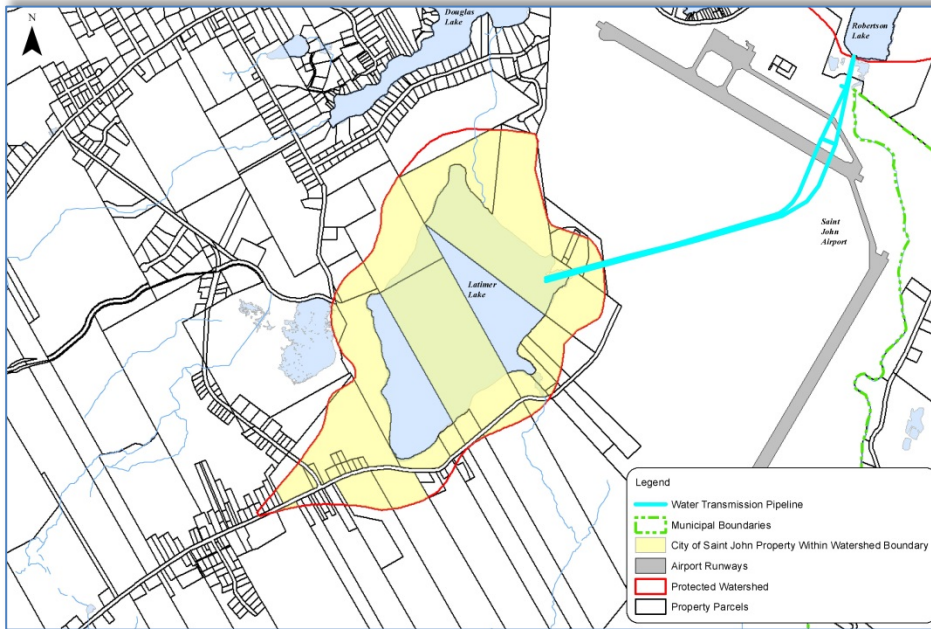
**Table 3.5-3: Loch Lomond System 2018 Treated Water Production<sup>3</sup>**

Month	Peak Daily Production (Mega Litres)	Monthly Production (Mega Litres)
January	100.6	2,404.5
February	97.5	2,192.5
March	102.4	2,320.8
April	136.0	2,263.9
May	97.6	2,261.5
June	119.2	2,559.7
July	137.5	3,112.4
August	126.1	2,450.8
September	54.9	1,401.0
October	43.5	1,143.1
November	46.0	1,134.7
December	44.1	1,243.7
<b>TOTAL</b>		<b>24,488.5</b>

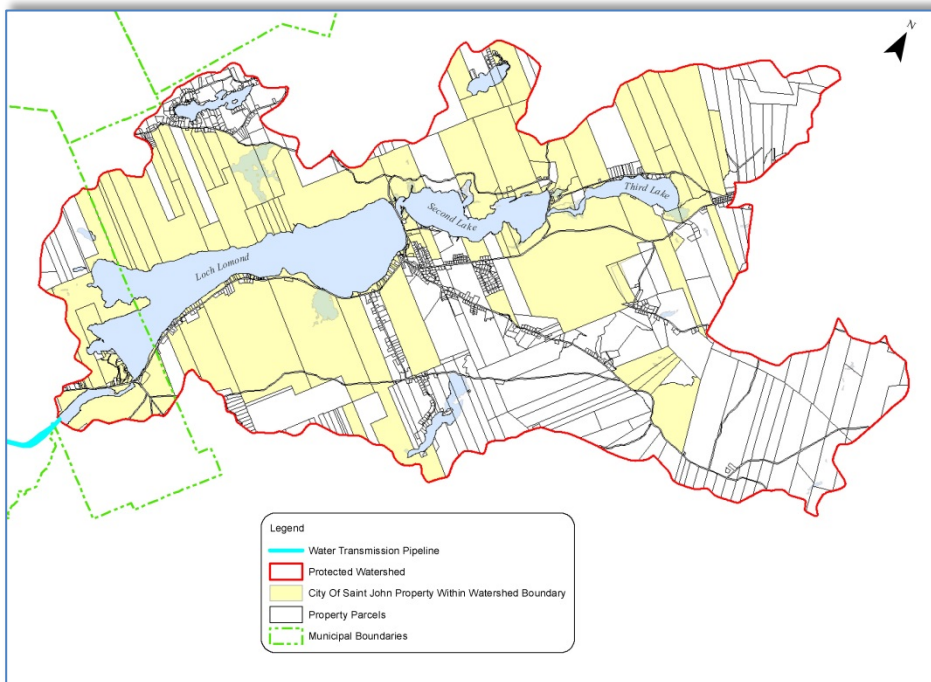
<sup>3</sup>(excludes raw water sent to Irving Paper)



**Figure 3.5-2: 2018 Loch Lomond System Monthly Treated Water Production**



**Figure 3.5-3: Map of Eastern Watersheds (Latimer)**



**Figure 3.5-4: Map of Eastern Watersheds (Loch Lomond)**



The Latimer Lake watershed is approximately 2 km<sup>2</sup>. The surface area of Latimer Lake is 0.8 km<sup>2</sup> (42%) and the City owned land totals approximately 1 km<sup>2</sup> or 52% of the total Latimer Lake Watershed area.

The Loch Lomond watershed is 104 km<sup>2</sup>. The total surface area of the lakes is 13km<sup>2</sup> (12.6%) and the City owned land totals 48 km<sup>2</sup> or 46%.

### 3.6. Harbourview Well System

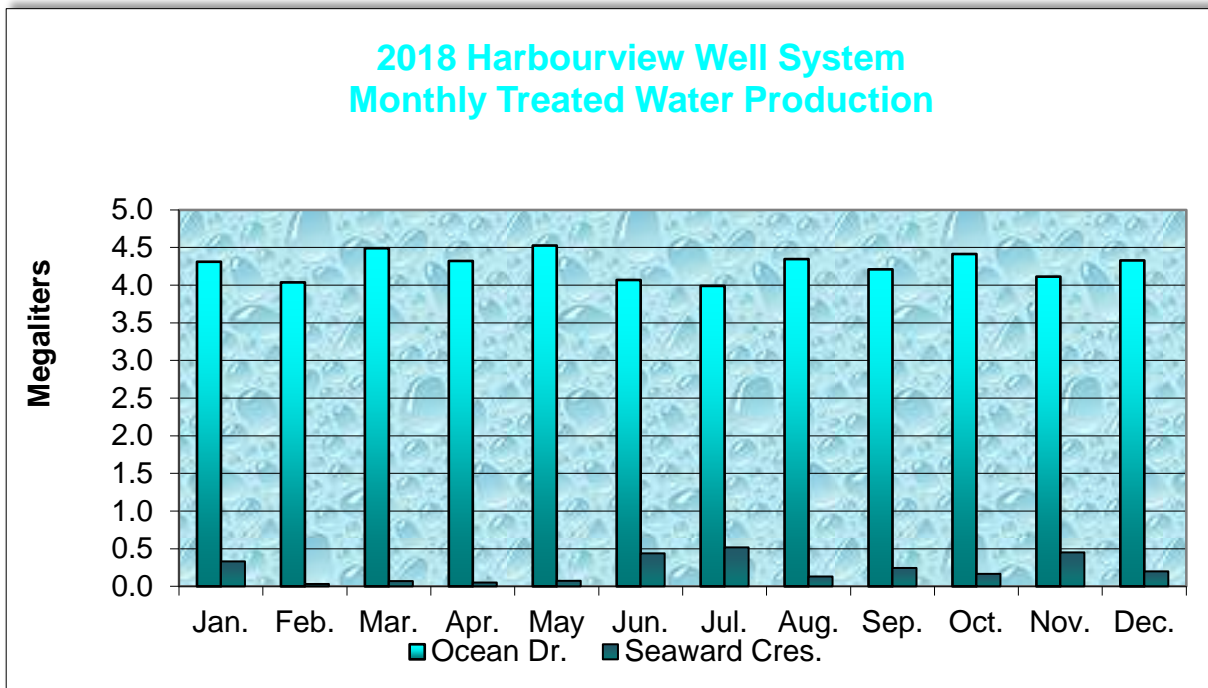
Saint John Water owns, operates and maintains two (2) well houses in the Red Head area in East Saint John. This ground water system supplies chlorinated well water to about 450 residences in the Harbourview subdivision. The majority of chlorinated well water originates from the Ocean Drive Well house while the Well house on Seaward Crescent provides backup supply. Each well house on its own can supply average daily demand in the system but both wells are required when demand increases significantly.

Condition 2 of our Approval to Operate indicates a maximum pumping rate of 7.00L/s (604.8m<sup>3</sup>/d) from the Ocean Drive and Seaward Crescent Wells. Table 3.6-1 below shows the pumping rates for each well in 2018.

**Table 3.6-1: Harbourview Well System 2018 Treated Water Production**

Month	Ocean Drive		Seaward Crescent	
	ML / month	Avg. m <sup>3</sup> /day	ML / month	Avg. m <sup>3</sup> /day
January	4.31	139	0.33	10.7
February	4.04	144	0.03	1.1
March	4.49	145	0.07	2.3
April	4.32	144	0.05	1.7
May	4.53	146	0.07	2.4
June	4.07	136	0.44	14.6
July	3.99	129	0.52	16.7
August	4.35	140	0.13	4.2
September	4.21	140	0.24	8.2
October	4.41	142	0.17	5.4
November	4.11	137	0.45	15.0
December	4.33	140	0.20	6.4
<b>TOTAL</b>	<b>51.16</b>		<b>2.71</b>	

When combining both the Ocean Drive and Seaward Crescent wells, a total volume treated in 2018 was 53.87 ML, which is only slightly higher than 2017 of 52.98 ML. In comparison, as per our Approval to Operate, each well alone has a maximum equivalent water draw of 604.8 m<sup>3</sup>/day (221 ML/year). Combining both wells only about 12% of our maximum allowable draw was pumped in 2018. Figure 3.6-1 compares both well production volumes by month.



**Figure 3.6-1: 2018 Harbourview Wells Monthly Treated Water Production**

### 3.7. Chemical Consumption (Bulk)

#### 3.7.1. Chlorine Consumption

During 2018, a total of 99.6 tonnes of gaseous chlorine was consumed at Latimer Lake Water Treatment Facility for the Loch Lomond System. This is a dramatic drop in consumption from previous years due to the commissioning and start-up of the new Loch Lomond Drinking Water Treatment Facility (LLDWTF). As part of the Safe, Clean drinking Water project, the start-up of the new treatment plant occurred on August 30, 2018. As a result of this start-up Saint John Water stopped the addition of Chlorine gas at Latimer Lake on September 21, 2018 after a slow transition to the new plant.



**Figure 3.7.1-1: Sodium Hypochlorite Storage Tank - Spruce Lake WTP**

For the South Bay Wellfield water system 52.9 tonnes of sodium hypochlorite was consumed for the purposes of disinfection. The drop in chlorine usage for the West

system compared to previous years is mainly due to the conversion from surface water to ground water in September 2017, which has a much lower organic content than the surface water supply and thus has much less chlorine demand.

For comparison purposes, Table 3.7.1-1 illustrates chlorine consumption for the past five years.

**Table 3.7.1-1: Chlorine Consumption by Year**

Year	Loch Lomond System - gaseous Chlorine (tonnes)	Spruce Lake System - Sodium Hypochlorite (tonnes)
2018	99.6	52.9
2017	129.4	133.9
2016	119.8	167.6
2015	171.5	175.2
2014	144.2	186.7
2013	158.3	210.6

### 3.7.2. Orthophosphate Consumption

In 2018, Saint John Water began introducing an orthophosphate solution to both the East and West water systems. Orthophosphates are commonly used in the water treatment industry to combat pipe corrosion by stabilizing the internal pipe scale. The orthophosphate solution is a NSF 61 certified product which means it has been approved to be used in potable water systems. It should be noted that the introduction of orthophosphate was approved by both the Department of Health (DOH) and the Department of Environment and Local Government (NBDELG) prior to implementation.

A temporary orthophosphate dosing system was added to the West system to potentially assist in stabilizing existing scale formation on private copper plumbing. The dosing system was commissioned in March 2018.



**Figure 3.7.2-1: Temporary Orthophosphate Dosing System - Spruce Lake WTP**

Orthophosphate addition in the East system started in June 2018 as a means to slowly transition the water quality in the east system to water that will eventually be produced from the new Loch Lomond Drinking Water Treatment Facility. The temporary dosing of orthophosphate solution at Latimer Lake Water Treatment Facility ceased in early September shortly after the LLDWTF came on-line. The addition of orthophosphate at the new LLDWTF was always contemplated under the Safe, Clean Drinking Water Project.



As part of the 30 year operating period of the LLDWTF by Port City Water Services, the City is responsible to purchase all orthophosphate which will be used for corrosion control. Furthermore, the City has the right to choose which orthophosphate product to use along with its dosing rate. As a result, the City purchased several loads of dry product for use at the LLDWTF once it was commissioned and entered into service.

For comparison purposes, Table 3.7.2-1 illustrates orthophosphate consumption for the past year for both the East and West systems. Also included in Table 3.7.2-1 is the mass of dry Orthophosphate product the City purchased for the new LLDWTF.

**Table 3.7.2-1: Orthophosphate Consumption**

Year	Loch Lomond System - Liquid Orthophosphate (Litres)	South Bay System – Liquid Orthophosphate (Litres)	Loch Lomond Drinking Water Treatment Facility (kg)
2018	8,000	7,000	14,515

### 3.7.3. Sodium Hydroxide Consumption

In 2018, Saint John Water began introducing a 50% sodium hydroxide solution to the East water systems. Sodium Hydroxide is commonly used in the water treatment industry to adjust the pH of finished water. It is a NSF 61 certified product which means it has been approved to be used in potable water systems. It should be noted that the introduction of sodium hydroxide was approved by both the DOH and NBDELG prior to implementation.

pH adjustment in the East system started in April 2018 as a means to slowly transition the water pH in the east system to water that will eventually be produced from the new Loch Lomond Drinking Water Treatment Facility. The temporary dosing of sodium hydroxide solution at Latimer Lake Water Treatment Facility ceased in early September shortly after the LLDWTF came on-line. Table 3.7.3-1 shows the amount of Sodium Hydroxide consumed with the temporary dosing system at Latimer Lake. pH adjustment at the new LLDWTF was always contemplated under the Safe, Clean drinking Water Project.

**Table 3.7.3-1: Sodium Hydroxide Consumption**

Year	Loch Lomond System - Sodium Hydroxide (kg)
2018	106,877

## 4. OPERATIONAL HIGHLIGHTS

### 4.1. Watersheds

Saint John Water manages its drinking water service based on the Multi-Barrier Approach from the water source to the user's tap. Drinking water quality must be assured through a series of protective barriers. Source water (watershed) protection is the first barrier. To aid in this, both Spruce Lake and Loch Lomond watersheds are protected under the Province of New Brunswick's Watershed Protection Area Designation Order. This order places various restrictions on the types of activities allowed on either the watercourse or surrounding land. In general, it is much less expensive to prevent negative impacts to watersheds than site remediation after an incident has occurred.



Many of the lands in the watersheds are forested, and this brings risks such as forest fire, disease, and insect infestation. When forests are not managed properly or are not maintained in a state of good health, it puts the drinking water supply at risk. With this, Saint John Water, in conjunction with UNB and a local forestry experts, developed a long-term strategy to manage City owned properties with the watershed. In 2016, phase 1 of multiyear harvesting plan was completed in the Loch Lomond water shed north of Third Lake.

Due to the Safe Clean Drinking Water Project, Saint John Water was not able to move ahead with the second phase of this Forest Management Program in 2018. It is the intent to move forward with this plan once sufficient time and resources are available to devote to this very important step within the Multi-Barrier Approach.

In 2018, like previous years, we received various public concerns from home owners around the Loch Lomond watershed related to misuse and illegal dumping on city owned property. Operational staff increased surveillance in these areas and in some cases erected signs and barriers in the affected areas in an attempt to curtail these activities. Staff also removed several truckloads of garbage from these sites.

In 2018, Saint John Water finished the 2<sup>nd</sup> phase of a two phase project related the replacement of guardrails that line the Spruce Lake reservoir along the NB trail system adjacent to the lake. Phase 1 was completed in 2017 which consisted of the removal and replacement of 110 wooden posts and reinstatement of the steel guardrail. The second phase consisted of the removal and replacement of 80 wooden posts and reinstatement of the steel guardrail.





Saint John Water also replaced several Watershed signs along Route 1 west bound as they were in poor state and barely legible. Highway route 1 runs parallel to the Spruce Lake / Ludgate surface water reservoir.

## 4.2. Water Treatment

2018 marked a significant achievement for Saint John Water, the City of Saint John and the citizens it serves. For many decades, the City operated a Water Treatment Facility at Latimer Lake which consisted of coarse screening followed by chlorination. This rudimentary process provided drinking water to customers east of the Reversing Falls for many years. With the completion of the new Loch Lomond Drinking Water Treatment Facility in late August 2018, the City is now delivering high quality drinking water to its customers using a modern day state-of-the-art Water Treatment Facility. This treatment facility, along with several kilometres of transmission/distribution pipe, was part of the Safe Clean Drinking Water Project.

## 4.3. Water Quality

### 4.3.1. Boil Water Orders and Advisories

Depending on the public risk and the type of water quality issue, a Boil Water Order can be issued by the Department of Health (DOH). Only the Chief Medical Officer of Health can issue and rescind a Boil Water Order and these orders are issued through Mayor and Council (Approval Holder). The DOH can also advise a municipality to issue a self-imposed Boil Water Advisory. These advisories are issued by the water utility in consultation with the DOH and the steps to rescind an Advisory are the same as done with a Boil Water Order.

In 2018, there were 31 Boil Water Orders issued and 8 Boil Water Advisories issued for various reasons. The following summarizes the Boil Water Orders/Advisories issued in 2018:

- January 5, 2018 – King Street West civic #'s 15 and 29.
  - As a result of infrastructure failure in the area, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on January 11, 2018.
- January 25, 2018 – Industrial Drive civic #'s 20-291, Grandview Avenue civic #'s 430-460 and the Irving Oil Refinery.
  - As a result of infrastructure failure in the area, a Boil Water Order was issued.



- As a result of additional infrastructure failure, the Boil Water Order was expanded to Bayside Drive civic #'s 730-1185, Expansion Avenue civic #'s 11-125 and Declaration Street civic 9 on January 26, 2018.
- The Boil Water Order was rescinded on January 29, 2018.
- February 21, 2018 – Hawthorne Avenue Extension civic #'s 201-241 and Sandy Point Road civic # 1.
  - As a result of infrastructure failure, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on February 26, 2018.
- February 23, 2018 – Reed Street civic #'s 4-33.
  - As a result of infrastructure renewal on Reed Street, a Boil Water Order was issued within the noted area.
  - The order was lifted on February 27, 2018 after two successive bacteriological results came back negative.
- April 25, 2018 – St James Street civic #'s 277 and 287, Crown Street civic #'s 521-541.
  - As a result of infrastructure failure, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on April 29, 2018.
- May 3, 2018 – Dexter Drive civic #'s 87-117.
  - Infrastructure renewal on Dexter Drive caused a Boil Water Order to be issued.
  - The Boil Water Order was rescinded on May 5, 2018.
- May 8, 2018 – Visart Street civic #'s 157-200 and Natalie Street civic 40.
  - As a result of infrastructure renewal included in the capital program, a Boil Water Order was issued for the above noted area.
  - As a result of additional infrastructure renewal in the area, the Boil Water Order was expanded to 157-182 Visart Street
  - The Boil Water Order was rescinded on May 11, 2018.
- May 15, 2018 – Pitt Street Civic's 174 and 226.
  - As a result of infrastructure failure, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on May 22, 2018.
- May 16, 2018 – Mountain Road Civic #'s 20-36 and 335 McAllister Drive.
  - As a result of infrastructure failure, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on May 20, 2018.
- May 24, 2018 – Visart Street civic #'s 157-182.
  - As a result of a break in the temporary above ground water supply line, a Boil Water Order was issued.

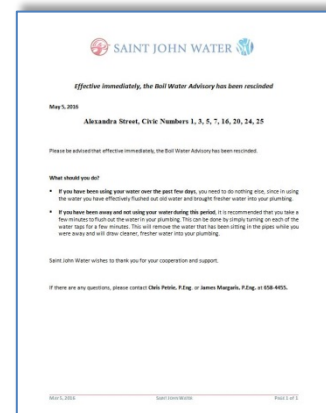






- The Boil Water Order was rescinded on May 28, 2018.
- May 31, 2018 – McCavour Drive civic #'s 832-961.
  - As a result of infrastructure failure, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on June 4, 2018.
- June 5, 2018 – Manawagonish Road civic #'s 1046-1048, 1059, 1065, 1067, 1076, 1081, 1100.
  - As a result of infrastructure failure in the above noted area, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on June 8, 2018
- June 6, 2018 – Spring Street civic #'s 19-98.
  - As a result of infrastructure upgrade in the area, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on June 10, 2018.
- June 19, 2018 – Leinster Street civic #'s 42, 55, 66, 70, 72, Carmarthen Street civic #'s 53, 55, 58, 59, 60, 61, 62, 90, 92, 94, 96 and 98.
  - As a result of infrastructure upgrade, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on June 22, 2018.
- July 25, 2018 – Westmorland Road civic # 217 and Hockey Street civic #'s 7-29.
  - As a result of installation of a fire hydrant, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on July 29, 2018.
- July 31, 2018 – Rothesay Avenue civic #'s 640 and 644, 8 Ford Avenue.
  - As a result of infrastructure failure, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on August 3, 2018.
- August 15, 2018 – 1 Sandy Point Road and Hawthorne Avenue Extension civic #'s 201-241.
  - As a result of infrastructure failure, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on August 20, 2018.
- August 17, 2018 – Westmorland Road civic #'s 185-233, Floral Street civic #'s 7-14, Hockey Street civic #'s 7-29 and Fern Street, Civic #'s 7-28
  - As a result of a valve failure, a Boil Water Order was issued for the above mentioned area.
  - The Boil Water Order was rescinded on August 20, 2018.
- August 20, 2018 – Cameron Court civic #'s 3-25 and 206 Osborne Avenue.
  - As a result of infrastructure upgrades in the area, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on August 23, 2018.

- August 27, 2018 – Glen Road civic #'s 177-321, Glenview Drive civic #'s 20-88, Purdy Drive civic #'s 219-244, Collin Avenue civic #'s 319-337, Brook Court civic #'s 1-7, Simpson Drive Extension civic #'s 220-303 and Morgan Road civic #'s 2-59.
  - As a result of a planned infrastructure improvement program, a Boil Water Order was issued for the above mentioned.
  - The Boil Water Order was rescinded on September 3, 2018.
- August 30, 2018 – Crescent Avenue civic #'s 22-66, Loch Lomond Road civic #'s 1610, 1627, 1628, 1638, 1654, 1664 and 1674.
  - As a result of planned infrastructure upgrades included in the Safe, Clean Drinking Water Project, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on September 3, 2018.
- September 4, 2018 – Gault Road civic #'s 484-555.
  - As a result of infrastructure failure, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on September 7, 2018.
- September 12, 2018 – Tilley Lane civic #'s 92 and 102.
  - As a result of infrastructure improvement, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on September 15, 2018.
- September 12, 2018 – Wellington Row civic #'s 7-27, 31, 40 and 119 Union Street.
  - As a result of infrastructure improvements, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on September 15, 2018.
- September 13, 2018 – Mountfield Crescent civic #'s 9-88.
  - As a result of infrastructure improvements, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on September 17, 2018
- September 14, 2018 – 155 Mystery Lake Drive.
  - As a result of infrastructure failure on the private side, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on September 18, 2018.
- September 20, 2018 – Union Street civic #'s 133-226.
  - As a result of infrastructure improvements, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on September 30, 2018.





- September 28, 2018 – 100 Eugene’s Way, Garnett Road civic #'s 4-181, Josselyn Court civic #'s 77-85, Josselyn Road civic #'s 4-139, Myles Drive civic #'s 4-16, Silverstone Street civic #'s 4-21, Westbrook Avenue civic #'s 2-12 and Loch Lomond Road civic #'s 937, 977, 999, 1015, 1103 and 1115.
  - As a result of infrastructure improvements included with the Safe, Clean Drinking Water Project, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on October 1, 2018.
  
- October 15, 2018 – 66, 71 Sydney Street and 20 Leinster Street.
  - As a result of a reduction in pressure, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on October 18, 2018.
  
- October 18, 2018 – 136 Glen Road, Belgian Road civic #'s 8-70, 1 John T McMillan Avenue.
  - As a result of infrastructure improvements included in the Safe, Clean Drinking Water Project, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on October 21, 2018.
  
- October 25, 2018 – Michael Crescent civic #'s 545-691 and Cindy Lee Street civic #'s 210-212.
  - As a result of a valve installation, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on October 29, 2018.
  
- November 5, 2018 – Westmorland Road civic #'s 557-744, Skyline Drive civic #'s 2-40, Harmony Drive civic #'s 3-63, Golden Grove Road civic #'s 140-245, John T McMillan Avenue civic #'s 1-60, Upland Road civic #'s 7-15, Reading Crescent civic #'s 1-23, Roxbury Drive civic #'s 10-22, Longview Court civic #'s 1-36, Coldbrook Crescent civic #'s 45-405, Mystery Lake Drive civic #'s 120-155 and Essex Street East civic #'s 1-10.
  - As part of a large, planned shutdown for the Safe, Clean Drinking Water Project, a Boil Water Order was issued.
  - As part of the same shutdown, the Boil Water Order was expanded to cover Glengarry Drive, Elgin Road and Kervin Road.
  - The Boil Water Order was rescinded on November 13, 2018.
  
- November 15, 2018 – Duke Street West civic #'s 244-264 and 285 Carleton Kirk Place.
  - As a result of infrastructure failure, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on November 19, 2018.
  
- November 20, 2018 – 536 Main Street
  - As a result of infrastructure failure, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on November 23, 2018.
  
- November 22, 2018 – Mountain Road civic #'s 3-6 and 557 Westmorland Road.



- As a result of planned infrastructure improvements included in the Safe, Clean Drinking Water Project, a Boil Water Order was issued.
- The Boil Water Order was rescinded on November 26, 2018.
  
- November 27, 2018 – Grandview Avenue civic #'s 430-438 and 340 Loch Lomond Road.
  - As a result of a valve removal, a Boil Water Order was issued.
  - The Boil Water Order was rescinded on November 30, 2018.
  
- November 29, 2018 – Gault Road civic #'s 484-495.
  - As a result of infrastructure addition, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on December 3, 2018.
  
- November 30, 2018 – Tartan Street civic #'s 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222 and 224.
  - As a result of private infrastructure failure, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on December 4, 2018.
  
- December 6, 2018 – Bayside Drive civic #'s 295, 350, 380, 430 and Willet Avenue civic #'s 1, 5, 55.
  - As a result of infrastructure failure, a Boil Water Advisory was issued.
  - The Boil Water Advisory was rescinded on December 10, 2018.

Copies of the above noted Boil Water Orders, Boil Water Advisories and rescind notices are included in Appendix N – Public Communication.

### **4.3.2. Unidirectional Flushing Program**

Saint John Water conducts an annual unidirectional flushing (UDF) program. The main purpose of flushing is to clean the distribution pipes ( $\leq 300\text{mm}$ ) in the water distribution system by expelling sediment, grit, and particles as the result of corrosion in iron pipes. It also pulls fresh water through areas where low flows can lead to insufficient chlorine residuals. Some segments of pipe cannot be flushed due to the system configuration or lack of a hydrant, thus making it difficult to deal with the problems above. While it is important to strive to reduce the amount of water flushed, Saint John Water operates and manages the water system with public health, safety and quality of drinking water as its foremost priorities.

The 2018 UDF program did not include the West Water Distribution System as Saint John Water and its Technical Advisors wanted to wait for the levels in the South Bay Ground Water Aquifer to stabilize before introducing additional water demands.

For the East system, the unidirectional flushing program was completed in its entirety. During the execution of the 2018 UDF program, 18.86 million US gal were evacuated from the water distribution network. The total water volume used was 11.41 million US gal less than the previous year (2017) since the full program could not be completed.

Saint John Water started unidirectional flushing with a pilot project in 2005. The intention was to grow it into a system wide program; thus adopting the method as the standard for routine pipe cleaning. UDF controls the flow of water by strategically closing valves, thereby increasing flushing velocities and controlling water disturbances in the immediate area. By starting at the source of water, the science based sequences step through the vast network of pipes, pulling fresh water along the way to the extremities of the system.



Saint John Water has engaged the services of Aqua Data Atlantic since 2005 to build and execute the model.

Table 4.3.2-1 below illustrates the progression of the Unidirectional Flushing Program since 2005.

**Table 4.3.2-1: Unidirectional Flushing Program by Year**

Description	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Number of sequences	114	205	377	402	544	861	1,015	1,170	1,134	1,130	1188	568	1145	737
Total length of pipe (km)	35	61	137	151	224	373	422	468	469	461	464	182.4	466	339
Length of pipe flushed (km)	21	42	92	102	183	212	255	303	299	295	304	129.5	292	204
Total number of fire hydrants	168	278	608	668	987	1,616	1,863	2,145	2,161	2,210	2311	953	2314	1427
Number of fire hydrants used	71	131	252	266	368	566	657	768	734	733	771	346	738	468
Total number of valves	377	634	1,298	1,425	2,057	3,439	4,076	4,556	4,584	4,623	4633	1996	4658	3374
Number of valves used	137	228	407	441	570	933	1,141	1,260	1,273	1,249	1262	673	1242	812

*Note: The decline in sequences for 2016 and 2018 can be attributed to the fact that the UDF program was not able to be completed due to water conservation policy implemented in 2016 and 2018.*

The UDF sequences for Saint John were performed by Aqua Data technicians between July 16, 2018 and October 22, 2018. During the execution of the program, sequence changes can occur due to construction or other maintenance programs dedicated to the water distribution system. In these instances Aqua Data would relocate to a different area of the city and often return to finish the zone at a later time. The following information highlights the results of this year’s unidirectional flushing program:

- Total number of sequences

737



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▪ Total length of pipes flushed	204 km
▪ Total number of fire hydrants utilized	468
▪ Total number of valves operated	812
▪ Total water volume used	18,864,000 US Gallons
▪ Average velocity per sequence	5.7 ft/second

Given the age and condition of some sections of our infrastructure the targeted turbidity is less than or equal to 3.0 Nephelometric Turbidity Units (NTU). Out of the 737 sequences that were executed in 2018, 51% achieved a final turbidity below 3.0 NTU. The average initial turbidity reading prior to flushing was 238.1 NTU; the average final turbidity reading directly following flushing was 3.19 NTU. Results for the average final turbidity and the percentage of sequences that achieved the target of below 3 NTU were less favorable than previous years. The busy construction season resulting from the Safe Clean Drinking Water project necessitated that the large transmission mains (600mm and 900mm) be put in and out of service multiple times throughout the summer. This could have affected the turbidity. It is anticipated that the commissioning of the new water treatment plant and the return to regular operation of the city's transmission mains will restore the efficiency of the UDF program to its historical values.



**Table 4.3.2-2: Unidirectional Flushing Program by Zone**

Zone / Sector	Average NTU	UDF since	Sequences	Max final NTU	Min final NTU	Over 3 NTU	Percent of Sequences Over 3 NTU
Carleton	NA	NA	NA	NA	NA	NA	NA
Sand Cove	NA	NA	NA	NA	NA	NA	NA
New West	NA	NA	NA	NA	NA	NA	NA
Lakewood	3.93	2008	47	4.99	2.01	35	74.47%
Cottage Hill	2.80	2009	112	5.42	1.07	41	36.61%
Glen Falls/Drury Cove	3.19	2009	47	4.99	1.24	23	48.93%
East Gravity	2.30	2010	103	4.79	0.98	17	16.50%
City Central	3.53	2010	176	4.99	2.01	91	51.70%
North End	4.50	2011	103	5.43	3.20	103	100.0%
Rockwood	1.85	2011	22	3.77	0.71	4	18.18%
Millidgeville	2.67	2012	127	5.69	1.08	47	37.01%
Distribution System Results	3.19		737			361	48.98%

### 4.3.3. Continuous Flushing Program

In 2018 Saint John Water performed continuous water quality flushing around the City’s East Side. At its peak during the warm summer weather, 18 separate water quality flushing’s (see Appendix T) were active throughout the city. Twelve of the flushing’s were historically year-round; the remainder are seasonal (temperature related). Since the Commissioning of the new Loch Lomond Drinking Water Treatment Facility on the East Side, all flushing’s have been turned off and these locations are being monitored to identify if any flushing’s are required.





#### 4.4. Backflow Prevention and Cross-Connection Control

A “cross-connection” is defined as an actual or potential connection between a potable water system and any source of pollution or contamination. Eliminating the connection is the safest method to pursue; otherwise a backflow prevention device is used to protect water systems from non-potable connections, for example: water boilers, sprinkler systems, commercial and industrial equipment.

As of December 31, 2018 there were 3445 testable backflow prevention devices registered in the City of Saint John testable backflow preventer database. This information is maintained through the city’s Plumbing Inspector.



In order to protect the water distribution system from a cross-connection, premise isolation devices are the main focus of Saint John Water. In conjunction with staff from Infrastructure Development the installation of premise isolation devices are stipulated in any approval of new industrial, commercial, and institutional services.

As of December 31, 2018 Saint John Water reported that 1087 of the registered backflow preventers were for

isolating service connections from the distribution system. Saint John Water will be developing a Cross-Connection Control and Backflow Prevention By-Law that will require public consultation and approval by Common Council.

##### Cross-connection Control Program

Condition 32 of the Approval to Operate requires that mitigation measures for all sources of cross-connections between potable water and sewer systems be undertaken in a timely fashion. In 2006 Saint John Water identified a total of 115 cross-connections and a comprehensive document complete with sketches were submitted to the Department of Environment and Local Government in 2007.



The cross-connection removal capital program began in 2008 and continued each year until 2013 when all known cross-connections were removed.



Since 2013 there were no further capital projects for cross connection removal. It is important to note that while the project for cross connection removal is complete, if cross connections are identified in the future, Saint John Water will schedule the work and remove these cross connections.

#### **4.5. Water Distribution**

In 2018, Saint John Water Staff responded to 44 water main breaks, 4 more than 2017. The mains ranged in size from 50mm to 400 mm in diameter. A detailed list of main breaks is located in Appendix K.

Also in 2018, Saint John Water did not experience any large transmission main failures. This was a direct result of the new installations as well as the rehabilitated portions of the transmission main system that was completed on the Safe Clean Drinking Water Project.

The list of water main breaks found in Appendix K does not include water service leaks repaired in 2018. A water service is the small size water piping between the water main and the Customer's house or building.

#### **Water Modelling**

In 2008 Saint John Water purchased WaterGems water modeling software. The uses for the water model include verification of new watermain sizing as well as numerous water system simulations. Regular annual updates and verifications were carried out in the city's water model in 2018 which included the addition of new pipes and verification of existing information. All cast iron watermains cleaned and lined in 2018 were updated in the model. Major notable updates in the water model include the new water treatment plant and its three tanks, all new distribution mains, transmission mains, and rehabilitations associated with the Safe Clean Drinking Water Project, and the three wells at the South Bay Wellfield with its associated transmission mains. In total, forty four (44) water modeling projects were carried out using this software all dealing with pressure, watermain sizing, flow direction, water age, and fire flow analysis.

### **5. CAPITAL WATER SYSTEM IMPROVEMENTS**

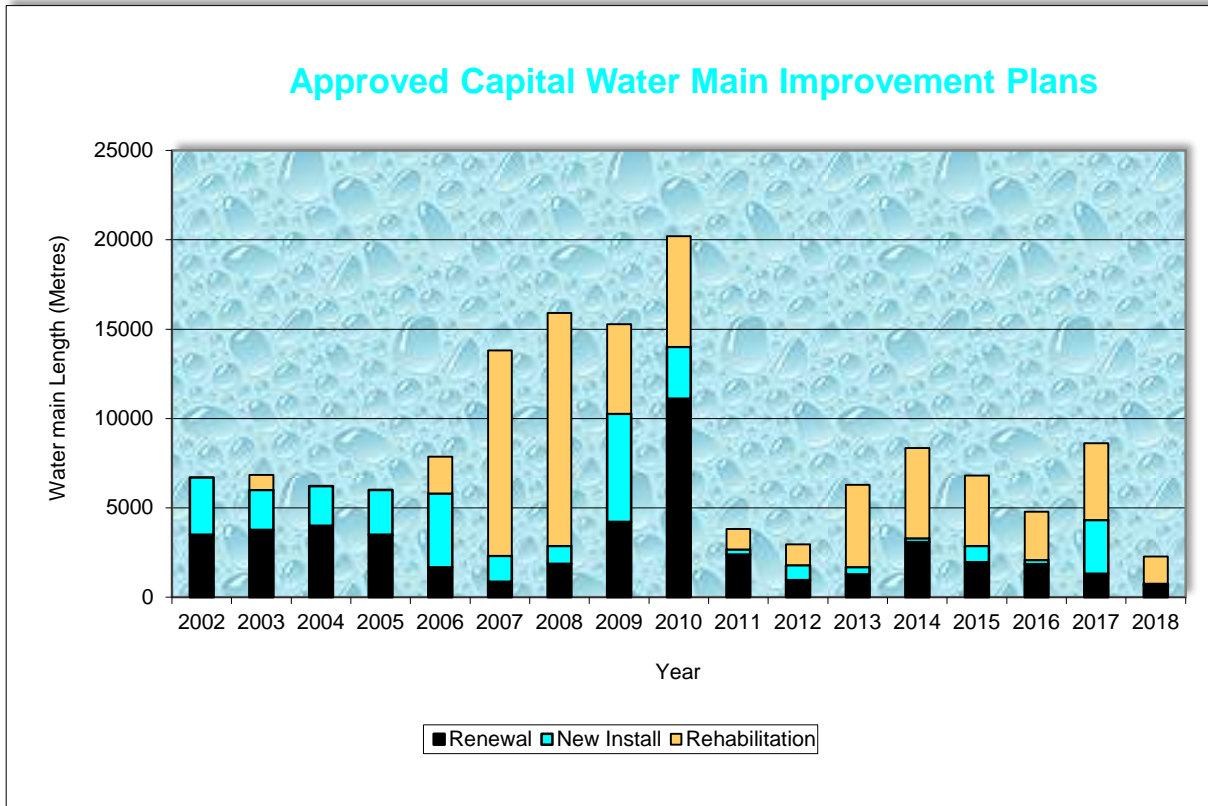
During 2018, Saint John Water administered a total of 9 water related capital projects designed to renew, clean and line and install new watermains along with electrical upgrades at two facilities.



Appendix H provides a detailed listing of the projects that were included in the 2018 Water and Sewerage Utility Fund Capital Program approved by Common Council. One project listed in the 2018 Capital program (Loch Lomond Watershed) was not completed due to a lack of resources to adequately manage this project. This project was pushed to the 2019 capital program. Seven projects focused on design and/or installation of new or rehabilitated watermains. One project involved the design and installation of a back-up electrical generator at the Ocean Drive Well house while another electrical project involved the design and construction of a new substation at the Musquash pump station.

In 2018, the utility share of capital funding to water related categories (which are made up of infrastructure renewal - water, and the safe clean drinking water program) totalled approximately \$49 million. The breakdown of the capital funding is presented in a pie chart on the first page in Appendix H, 4.2% Infrastructure Renewal Water, and 95.8% Safe Clean Drinking Water Project. In total, \$144.25 million was slated towards infrastructure improvements including \$140.6 million towards the Safe Clean Drinking Water project (other share) which officially got underway in February 2016. This project consists of a new Water Treatment Facility to serve the east, north, and south ends of Saint John along with significant upgrades to various transmission watermains.

As shown in Figure 5-1, significant infrastructure investments have been made in previous years with a significant investment reduction in 2011 and 2012 as a result of a focus on Wastewater Treatment projects due to the Harbour Cleanup initiative. The 2017 and 2018 capital programs involve major investments in water infrastructure due to the Safe Clean Drinking Water Project.



**Figure 5-1: Approved Capital Water Main Improvement Plans**

## 6. OPERATOR TRAINING & CERTIFICATION

Saint John Water continues to make advances in the operation and maintenance of our water and wastewater systems and the pivotal role they play in providing for the protection of public health and the delivery of a vital service.

Employees have continued to make progress in 2018, working towards meeting specific training and certification requirements as required within the Approvals to Operate. It is recognized that training is integral to improving the quality, efficiency and effectiveness of water and wastewater services.

A number of formal training courses were offered to staff during 2018. Some of these courses provide employees with CEUs (Continuing Education Units) and contribute to an environment of continuous learning. While ongoing CEU requirements are not necessary according to the Approval to Operate; Saint John Water strongly believes in improved competencies and skills through continuous learning. Listed below are all formal courses, complete with a short descriptor.



*Air Brake Endorsement* – This is a half day course intended to prepare employees to challenge the air brake endorsement exam, one of the requirements for attainment of a Class III Driver’s License. Employees are taught by a City of Saint John T&T Mechanic how to check and adjust slack adjusters using an airbrake simulator in the Vehicle Maintenance Facility. Successful completion of the Air Brake Examination results in an “E” endorsement on the employee’s driver’s license.

*Asbestos Awareness* – This half-day program aims to mitigate the risk of exposure to asbestos for employees. The program provides training in hazard identification, the various types of asbestos, the level of exposure risk, and associated health effects. The new Corporate Asbestos Management Program and its various elements (asbestos surveys, risk prioritization, site-specific communication and training, and remediation strategy) are outlined. This training program also explains legislated requirements under the NBOHSA, Code of Practice.

*Basic Emergency Management* – This course is structured to provide the participant with a broad base from which to carry out planning and operations for emergencies. The theory of the planning process is introduced and operating procedures are applied to a spectrum of emergency scenarios. The management, command, control and co-ordination functions necessary to meet emergencies are examined using case studies and exercises. This is an entry level course and is considered a prerequisite for advanced level courses.

*Chain Saw* – The NB Safety Council Inc. offers a full day Chain Saw Safety training course. This course has been developed for those who operate a chain saw within their course of duty and includes a classroom component where key areas of safety and operations are covered. This is followed by a practical session where individuals use the skills learned.

*CFS Common* – General Knowledge Water and Wastewater Fundamentals: provides knowledge and skills related to safety, mathematics and basic science as it applies to water and wastewater systems.

*CFS Wastewater Collection* - General Knowledge Water and Wastewater Fundamentals: provides knowledge and skills related to safety, mathematics and basic science as it applies to Water and Wastewater systems. Support Systems Water and Wastewater Fundamentals: provides knowledge of major components, principles and proper operation of common equipment including pumps, drive systems, engines and generators, compressors, valves, and control components. Wastewater Quality Fundamentals: provides knowledge and skill related to wastewater quality assurance, and quality control, including wastewater sampling and quality, public health implications and regulatory requirements. Wastewater Collection Process: provides knowledge and skill related to wastewater collection system operation and maintenance, including wastewater collection overview, gravity sewers, sewer operation and maintenance, wastewater lift stations, wastewater force mains, disinfection processes, wastewater treatment overview.





CFS Wastewater Treatment - Support Systems Water and Wastewater Fundamentals: provides knowledge of major components, principles and proper operation of common equipment, including pumps, drive systems, engines and generators, compressors, valves, and control components. Wastewater Quality Fundamentals: provides knowledge and skill related to wastewater quality assurance and quality control, including wastewater sampling and quality, public health implications and regulatory requirements. Wastewater Treatment Process: provides knowledge and skill related to wastewater treatment system operation and maintenance, including wastewater treatment overview, preliminary treatment, primary treatment, secondary treatment, sludge management, disinfection processes, and tertiary treatment.

CFS Water Distribution - General Knowledge Water Supply Fundamentals: provides knowledge and skills related to safety, mathematics and basic science as it applies to Water systems. Support Systems Water and Wastewater Fundamentals: provides knowledge of major components, principles and proper operation of common equipment including pumps, drive systems, engines and generators, compressors, valves, and control components. Water Quality Fundamentals: provides knowledge and skill related to potable water quality assurance and quality control, including water sampling and quality, public health implications and regulatory requirements. Water Supply Process: provides knowledge and skill related to water supply system operation and maintenance.

CFS Water Treatment - Support Systems Water and Wastewater Fundamentals: provides knowledge of major components, principles and proper operation of common equipment, including pumps, drive systems, engines and generators, compressors, valves, and control components. Water Quality Fundamentals: provides knowledge and skill related to potable water quality assurance and quality control, including water sampling and quality, public health implications and regulatory requirements. Water Treatment Process: provides knowledge and skill related to water treatment system operation and maintenance, including water treatment overview, primary treatment, secondary treatment, disinfection processes.

Changes to the NB OH&S Act and Regulations- This 4 hour course is designed to introduce significant changes to the NB Occupation Health and Safety Act and Regulations in 2014 to supervisory and management staff.

Class III Driver Preparation - This is a half day course intended to prepare employees to challenge the written portion of the Class III License examination. Completion of the required Class III Medical Examination and submission of the associated Doctor's report is a prerequisite for writing the Class III examination. Successful completion of the Class III written examination qualifies the employee to challenge the road test, the last requirement for award of the Class III Driver's license. This course uses the standard Province of New Brunswick Class III Preparation Guide.

Confined Space Entry - Participants develop knowledge and skills in confined space entry that meets and exceeds legislated requirements. Training topics include: the legal regulations, standard operating procedures, confined space audit, confined space entry and confined space rescue.

Confined Space Rescue - Participants learn to safely and effectively perform confined space rescue. The course covers: a review of confined space entry procedures, atmospheric monitoring and control systems, duties of rescue personnel, personal protective equipment, self-contained breathing apparatus, rescue equipment including lifeline, retrieval system, stretcher, casualty packaging and manipulation, rescue procedures and engaging first responders.

CPR/First Aid (2 day and 1 day refresher) – These courses are provided for reasons of workplace safety. It explains to individuals the fundamentals of first aid and basic life support.

Customer Service - Participants learn the basic principles of customer service with the aim of better serving our internal and external clients. Topics include: the customer-centered organization, internal customers, external customers, identification of needs, prioritization of needs, review of values-based behaviour, elements of high quality service, implications of low quality service, service examples, and lessons learned.

Effective Communication - The goal of this program is to develop knowledge and skill in interpersonal and team communications in the context of our business, using a variety of techniques including role playing, group discussion, and case studies. The critical importance of effective listening and feedback technique is emphasized as a crucial element in the building of positive workplace relationships.

Emergency Site Management – This course prepares emergency management practitioners to carry out their roles as members of an emergency site team. In an emergency situation, new relationships must be established quickly between community organizations, outside agencies, volunteers and other entities from various levels of government who might not normally work together. This advanced level course covers the principles of a coordinated multi-service and multi-jurisdictional response at an emergency site.

Excel Course – The user learns how to navigate in Excel, enter, format and move data, and apply formulas.

Fall Arrest Protection – This is a one day training program, the goal of which is to equip employees with the knowledge and skill required to employ industry standard best practices in Fall Arrest in a variety of operational tasks within Saint John Water, including Confined and Hazardous Space Entry and Rescue.

Fire Extinguisher – In this course, participants learn how to classify the types of fires and to use fire extinguishers correctly. Topics include; fire chemistry, fire





classification, types of fire extinguishers, fire extinguisher rating, symbols used on fire extinguishers, selecting a fire extinguisher, use of fire extinguishers and inspecting fire extinguishers.

Highway Signaller - Using group exercises and lectures, students will learn how to control traffic to keep themselves, their co-workers and the public safe while engaged in controlling the flow of traffic through the city's street construction project sites. A "Qualification Test" is required. This course carries a three year recertification requirement.

HTE Payroll - This course teaches participants to use the City's HTE payroll Hours Entry System. After an introduction to HTE system environment, participants learn how to make exceptions to the regular weekly hours of employees when required.

HTE Work Requests & Job Order - This course teaches participants to use the City's HTE work request job order system. After an introduction to HTE system environment, participants learn how to create internal work requests/job orders, search for work requests/job orders and close job orders.

Job Coaching - This course prepares peer trainers to become successful field coaches. The course covers; understanding adult learning needs; the coaching process; setting up the field coaching environment; guidelines for instruction; guidelines for feedback; setting goals and objectives for the trainee; developing checklists; evaluation progress; learner reactions and feedback.

Leadership - This course is designed for municipal front line, supervisors and managers (both hourly and staff) who want to contribute to their development as leaders of their organization by leading from the inside out. Knowledge is gained by applying "theory" to real life examples that require interactive group discussion, problem solving and role playing.

Lift Truck Training - This 2 day course teaches the student how to properly use various lift truck safely and to identify unsafe operations. The course is dividing into a classroom theory portion and a hands-on practical component where students actually use a lift truck.

Natural Gas Safety - Participants learn safe work practices for carrying out street construction operations near natural gas pipelines. The lecture also includes complying with regulations for natural gas pipelines, regulatory authority, notification procedure, penalties associated with non-compliance, required work method and emergency procedures and hazards associated with natural gas.

Natural Gas Safety - Working Near A Natural Gas Utility - This is a one-hour safety awareness program, provided by Maritime Northeast and Enbridge Natural Gas, focusing on excavation in proximity to the natural gas utility. Delivered by a combination of PowerPoint and group discussion, the course teaches controls provided by the utility to ensure the safety of their workers and the general public, and teaches

Safe Work Procedures for the protection of City employees. This program is open to Management staff, Engineering Staff, and Outside Workers.

Network and Windows XP – The learner will recognize and use basic computer functions of the City of Saint John computer network and Windows.

Occupation Health and Safety 1 – This course covers the following; responsibilities under Occupational Health and Safety Act, role of Joint Health and Safety Committees, due diligence, construction safety and the role of the highway signaller.

Occupational Health and Safety 2 - Participants learn about the Health and Safety Improvement System (HSIS). Topics include: safety and quality, quality systems general (iterative, audit-based processes), the HSIS framework, implementation methodology and expected outcomes.

Orientation New Hire – This is a general orientation to the City of Saint John. This 2-hour basic orientation provides introduction to the Corporate Strategic Plan, our Values, Vision, etc. Other topics covered include; pension, benefits, training and contact information.

Overhead Crane – The course aims to ensure that the City’s various operations which employ overhead monorail and jib cranes comply with Part XV of NBOHSA, Regulation 91-191, Materials Handling Equipment and Personnel Carrying Equipment – Hoisting Apparatus”. This course covers all material specified in Part XV, s 207 – s 212 of the general regulation. Training will be conducted on site at appropriate City of Saint John facilities having an installed overhead monorail crane. Delivery will include lecture and applied components. Skill will be developed in the following subject areas; Hazard Recognition, Hazard Mitigation, Inspection, Operator Record Keeping (log books), Operator Preventative Maintenance, Professional Inspection Requirements, Professional Maintenance Requirements, Safe Load Assessment, Safe Rigging Procedures, and Safe Operation. The course includes a formal examination.

Oxyacetylene - Participants learn to safely operate an oxyacetylene cutting torch and how to identify and describe hazards associated with oxyacetylene operation.

Professional Driver Improvement - Participants develop skills to prevent collisions by learning a positive approach to driving.

Program Management - Through lecture and group work, students will learn skills in managing complex projects as Field Supervisor. Employees will learn the essential framework of project and program management, including scope, schedule, quality and cost, and will develop skill in applying this framework using tools developed by the city of Saint John. Employees will learn the distinctions between project management and program management. Objectives of this course include building skill in writing project charters, developing scope statements, developing project schedules, assigning labour, resources, and procured services, conducting risk



analysis, controlling execution, reporting and project closure. Successful completion of this course is a requirement of the senior supervisory level within the Outside Workforce Career Development System.

Resource Management - Participants learn the basic principles of Human Resource Management, Property Management and Financial Management. Training topics include: the City's budget process, financial reporting and analysis, inventory and purchasing procedures and fleet management procedures.

Respiratory Protection – Participants learn about the types of respiratory protection equipment and how to safely use this equipment. The instructor reviews standard operating procedures and worker's responsibilities. Also discussed are: the type, selection and use of respirators, fit testing, medical evaluations as well as maintenance and care of respirators.

Supervisory Training – The objective is to develop supervisory personnel by providing a series of training modules focusing on key supervisory competencies.

Tag Out Lock Out – According to New Brunswick Regulation 91-191, under the Occupational Health and Safety Act, workplaces must have a written lockout procedure for each machine that is cleaned, maintained, adjusted or repaired. The procedure identifies the proper steps to follow in order to safely lock out the machine.

Temporary Services Install & Disinfection – Participants learn to apply safe work methods for installing and disinfecting temporary services. Training materials used include the drinking water standards, transportation of dangerous goods, backflow prevention, safe work procedures and emergency procedures.

Transportation of Dangerous Goods (TDG) – Participants learn about the Transportation of Dangerous Goods Act and become legally certified to transport materials covered by this legislation. Topics include: TDG classifications, packing requirements, TDG symbols, shipping documents and dangerous occurrences.

Trenching Safety - Its purpose is to teach safe trenching practices, introduce the dangers of construction excavations, the mechanics of trench cave-ins, potential hazards to workers, requirements under the Occupational Health and Safety Act, and protective systems used to avoid trench cave-ins.

Vibration Analysis – Participants learn how to diagnose malfunctions in pumps, motors and related equipment with course goals including; strengthening of preventative maintenance programs, minimizing repair expenses and extending infrastructure life.

Water Craft Operator - In-class safe boating course that lasts 3 hours on average. All the necessary material needed to obtain your "Pleasure Craft Operator Card" is covered. Included in the 3 hour course is a 45 minute exam which participants must pass in order to get their operator card.



WHMIS (Workplace Hazardous Materials Information System) – A system in Canada that provides information on the safe use of hazardous materials in the workplace. Information is provided by means of product labels, material safety data sheets (MSDS) and worker education programs.

Word 1 Assessment and Course – The user learns how to navigate in Word, enter and format text, change and move text.

Work Zone Safety - This course is to protect employees from vehicular traffic passing through construction sites. It teaches control procedures, personal protective equipment, general design instructions and emergency procedures.

Appendix L provides a comprehensive summary in tabular form of the Saint John Water team members who attended the various aforementioned courses during 2018.

As summarized in Table 6-1 below, in 2018 three members of the Saint John Water team challenged and achieved various certifications. In addition to the new certifications achieved by staff over the past year, Appendix J provides comprehensive summary of all staff certifications achieved to-date.

**Table 6-1: Certifications Achieved in 2018**

Name	WT <sup>1</sup> Class I	WT Class II	WT Class III	WT Class IV	WD Class I	WD Class II	WD Class III	WD Class IV
Jason Leclerc					•	•		
Grant Harrigan							•	
Pierre Leblanc							•	

<sup>1</sup>Water Treatment, <sup>2</sup> Water Distribution

## 6.1. Operator Training – Water Treatment

### *Condition 17 (Approval to Operate W-1510)*

*The Approval Holder shall ensure that all water treatment Operators complete the New Brunswick Community College Treatment Operation Fundamentals Program, the California State University Treatment Plant Operation (Volumes I and II) course, or an equivalent, as approved by the Director, in accordance with Water Quality Regulation 82-126, section 19.*



Mr. James Margaris, P.Eng., Operations Manager, Water Resources and Quality, was the overarching operator with direct responsible charge for both water treatment facilities in 2018. He completed the *Water Quality & Treatment Fundamentals* through NBCC in 2014.

As identified below, both water treatment operators have completed the NBCC Water Treatment Operations Fundamentals Program. In addition, LeRoy Graham has also completed the more advanced Water Quality & Water Treatment Intermediate Program.

**LeRoy Graham**

*Water Quality & Water Treatment Fundamentals* – Completed June 2005

*Common Intermediate* – Completed March 2007

*Water Quality & Water Treatment Intermediate* – Completed December 2007

**Rodrigue Comeau**

*Water Quality & Treatment Fundamentals* – Completed

**Kevin Ayles**

*Water Quality & Treatment Fundamentals* – Completed

In summary, all water treatment Operators meet Condition 17 of the Approval to Operate Approval to Operate W-1510.

**6.2. Operator Certification – Water Treatment**

***Condition 18 / Condition 19 (Approval to Operate W-1510)***

*The Approval Holder shall ensure that the certification level of the Operator in Charge is at least equivalent to the classification of the Water Treatment Facilities.*

*The Approval Holder shall employ, as a minimum, the following Certified Operator(s) based on the Class of the Water Treatment facilities listed on the Certificate page of this Approval.*

<i>Water Treatment Class</i>	<i>Water Treatment (WT) Certified Operator(s)</i>
<i>I</i>	<i>Minimum one Class I</i>
<i>II</i>	<i>Minimum two; one Class II and one Class I</i>
<i>III</i>	<i>Minimum two; one Class III and one Class II</i>
<i>IV</i>	<i>Minimum two; one Class IV and one Class III</i>

Through previous discussions with the DOE Drinking Water Approvals Engineer, it was clarified that the operator with direct responsible charge of the overall water treatment system is the Operations Manager and who should be certified to Class II water treatment.



With respect to certification requirements, as noted in

Table 6.2-1 below, in each instance the certification level of the operator is equivalent to the system classification. Saint John Water is therefore in compliance with Conditions 18 and 19(Approval to Operate W-1510).

**Table 6.2-1: Water Treatment Operator Certification**

Operator Name	Position	Operator Certification Level	System Classification
James Margaris, P.Eng.	Operations Manager	Water Treatment Level II	Class II
LeRoy Graham	Operator	Water Treatment Level II	Class II
Rodrigue Comeau	Operator	Water Treatment Level II	Class II
Kevin Ayles	Operator/ Designate Operator	Water Treatment Level II	Class II
Ed Crowley	Designate Operator	Water Treatment Level II	Class II
Joey St. Coeur	Designate Operator	Water Treatment Level II	Class II

### 6.3. Operator Training - Water Distribution

#### **Condition 14 (Approval to Operate W-1510)**

*The Approval Holder shall ensure that all water distribution system Operators complete the New Brunswick Community College Water Distribution Fundamentals Program, the California State University Water Distribution System Operation and Maintenance course, or an equivalent, as approved by the Director, in accordance with Water Quality Regulation 82-126, section 19.*

For a portion of 2018 Ms. Jodi Stringer-Webb, P.Eng was identified as the interim Operations Manager with direct responsible charge for the water distribution system. Ms. Jodi Stringer-Webb resigned from the organization in the month of March. Since then, Mr. Jason Leclerc, P.Eng has been transitioning into the Operator in Charge role and has achieved Level II Water Distribution Certification. Mr. Leclerc has achieved his Level IV certification in 2019.

Mr. Pierre Leblanc, P.Eng., Operations Manager - Water Use Management, has direct responsibility for water metering and backflow prevention (premise isolation). He also oversees the implementation and completion of the annual Unidirectional Flushing Program.



As identified below, all water distribution system operators have completed the NBCC Water Distribution Fundamentals Program and three have completed the Level III Water Distribution ACWWA Course.

**Scott Maxwell - has completed the fundamentals training**

**Peter Fudge– has completed the fundamentals training**

*Water Distribution Level III ACWWA Course – Completed spring 2013*

**Steve Anderson– has completed the fundamentals training**

*Water Distribution Level III ACWWA Course – Completed spring 2013*

**Mark McKenzie – has completed the fundamentals training**

*Water Distribution Level III ACWWA Course – Completed spring 2013*

**Patrick Mackin – has completed the fundamentals training**

In summary, all distribution system operators meet Condition 14 of the Approval to Operate (*Approval to Operate W-1510*).

### 6.4. Operator Certification - Water Distribution

*Condition 15 / Condition 16 (Approval to Operate W-1510).*

*The Approval Holder shall ensure that the certification level of the Operator in Charge is at least equivalent to the classification of the water distribution facility.*

*The Approval Holder shall employ, as a minimum, the following Certified Operator(s) based on the Class of the water distribution system listed on the Certificate page of this Approval.*

<i>Water Distribution Class</i>	<i>Water Distribution (WD) Certified Operator(s)</i>
<i>I</i>	<i>Minimum one Class I</i>
<i>II</i>	<i>Minimum two; one Class II and one Class I</i>
<i>III</i>	<i>Minimum two; one Class III and one Class II</i>
<i>IV</i>	<i>Minimum two; one Class IV and one Class III</i>

Through discussions with the DOE Drinking Water Approvals Engineer in 2008, it was clarified that the Operations Manager responsible for the water distribution system shall be the operator with direct responsible charge of the overall water distribution system and the individual who should be certified to Class III water distribution. Note the operational classification of the water distribution system was lowered in 2017 as a result of the physical





separation of the east and west water distribution systems. This change is identified on the first page of the Approval to Operate W-1510.

Saint John Water employees that have attained Class I, II, III and IV certifications in water distribution can be found in Table 6.4-1. Saint John Water is in compliance with Conditions 15 and 16.

**Table 6.4-1: Water Distribution Operator Certification**

Operator Name	Position	Operator Certification Level	System Classification
Jason Leclerc	Operation Manager	Water Distribution Class II	Class III
Grant Harrigan	Superintendent	Water Distribution Class III	Class III
James Margaris	Operations Manager	Water Distribution Class I	Class III
Pierre Leblanc	Operation Manager	Water Distribution Class III	Class III
Mark McKenzie	Operator	Water Distribution Class II	Class III
Scott Maxwell	Operator	Water Distribution Class I	Class III
Peter Fudge	Operator	Water Distribution Class III	Class III
Steven Anderson	Operator	Water Distribution Class III	Class III
Patrick Mackin	Operator	Water Distribution Class II	Class III
Michael Cook	Operator	Water Distribution Class II	Class III
Tyler Armstrong	Designate Operator	Water Distribution Class I	Class III
Michael Ballard	Designate Operator	Water Distribution Class II	Class III
Christopher Crowley	Designate Operator	Water Distribution Class I	Class III
Harold Eatmon	Designate Operator	Water Distribution Class I	Class III
Tanner McDevitt	Designate Operator	Water Distribution Class IV	Class III
Devin Nesbit	Designate Operator	Water Distribution Class I	Class III
Daniel Stone	Designate Operator	Water Distribution Class I	Class III
Mike Carr	Designate Operator	Water Distribution Class I	Class III
Randy Benson	Designate Operator	Water Distribution Class II	Class III



## 7. HUMAN RESOURCES

### 7.1. Responsible Staff

**Table 7.1-1: Saint John Water Responsible Staff**

Jeff Trail (resigned Aug 2018) City Manager - City of Saint John	LeRoy Graham (transferred Aug 2018) Certified Operator II - Water Treatment
J. Brent McGovern, P. Eng. Commissioner – Saint John Water	Rod Comeau Certified Operator II - Water Treatment
Kendall Mason, MBA, P. Eng., PMP Deputy Commissioner - Saint John Water	Steve Anderson Certified Operator III - Water & Sanitary Systems
Brian Keenan, P. Eng. Engineering Manager - Municipal Engineering	Peter Fudge Certified Operator II - Water & Sanitary Systems
James Margaris, P. Eng. Operations Manager – Saint John Water	Michael Cook Certified Operator II - Water & Sanitary Systems
Jason Leclerc, P. Eng. Operations Manager – Saint John Water	Mark McKenzie Certified Operator II - Water & Sanitary Systems
Jordan Moran, P.Eng. Operations Manager – Saint John Water	Scott Maxwell Certified Operator I - Water & Sanitary Systems
Pierre LeBlanc, P.Eng. Operations Manager – Saint John Water	Patrick Mackin Certified Operator II - Water & Sanitary Systems
Kevin Ayles Certified Operator II - Water Treatment	Jodi Stringer-Webb, P. Eng. (resigned Mar 2018) Operations Manager – Saint John Water

### 7.2. New Hires

During 2018, the City of Saint John hired 4 new full-time employees within Saint John Water operations. Each new hire is listed in Table 7.2-1 that follows.

**Table 7.2-1: Saint John Water New Hires**

Name	Status
Matthew Warren	Chemical Technologist – June, 2018
Natasha Hickey	Temporary Chemical Technologist, July 2018 (1 year term position)
Andrew Cyr	Skilled Worker, Water Treatment, September 2018
Ryan McIntyre	Skilled Worker, Water Treatment, October 2018



### 7.3. Staffing Changes

In addition to the new employees hired during 2018, there were numerous Saint John Water staffing changes which are summarized in Table 7.3-1 below.

**Table 7.3-1: Saint John Water Staffing Changes**

Name	Status
Christopher White	Retired from The City of Saint John
John Perry	Retired from The City of Saint John
William Buckley	Retired from The City of Saint John
Patrick Richard	Retired from The City of Saint John
Brenda MacKinnon	Resigned from The City of Saint John
Jodi Stringer-Webb	Resigned from The City of Saint John
Robert MacDonald	Resigned from The City of Saint John
Michael Baker	Promoted to Operations Manager
Kevin Ayles	Promoted to Operator – Water Treatment
Scott Mason	Promoted to Operator – Wastewater Treatment
Kyle Hetherington	Temporary transfer to Skilled Worker - Customer Service
LeRoy Graham	Transferred to Customer Service

## 8. PUBLIC INFORMATION

### 8.1. Communications

During the 2018 capital construction season bilingual communication was regularly provided to citizens by means of weekly construction updates, an example of which can be seen in Appendix M. This information, compiled by staff in Engineering, was shared with the public via of the City of Saint John website, news releases carried in the local newspaper and by email to large distribution groups. The regular updates provide citizens with information relating to the limits of work, project start date, work to be accomplished, traffic impacts where applicable, and projected end date.

In addition to regular weekly update notices there was also information regularly sent out during the summer season with respect to watermain flushing. This information is advertised



regularly on the City of Saint John website and emailed to My Saint John subscribers to provide citizens with information relating to when and where the flushing is being carried out, noting that there may be some discolouration of water and providing a contact number for further information.

Further to the regular public information, there are also instances where media releases or special communications are required from time to time. An example of special communications was during the boil water orders of 2018; see Appendix N for notices issued. Appendix O provides some examples of Saint John Water media coverage in 2018.

## **8.2. Customer Service**

Among the hundreds of customer requests/inquiries received during 2018, a total of 87 were related to water quality and pressure problems that were received through Service Support. Each of the 87 requests were logged as the call was received; included in Appendix P are the list of requests summarized by area (east, west, north, south) and complete with a brief description detailing the reason for the job order and any comments relating to the issue or water quality. In 2018 (January to July) there were 143 reported calls from West side Customers identifying issues with pipe leaks and/or hard water.

Additional calls were referred to the Saint John Water Environmental Laboratory. In total, the Saint John Water Laboratory responded to 68 water quality concerns as can be seen on each of the Customer Action Forms enclosed in Appendix P. The form records the results of each customer analyses and the corrective action undertaken in each instance. In some instances as a follow up, several site visits to a single customer was warranted and with each of these revisits a separate Customer Action Form would have been generated. In total, the Saint John Water Environmental Laboratory collected and analyzed 99 water samples related to customer inquiries.

## **8.3. Commitment**

The Saint John public water system was first established in 1837; the first public water system in Canada.

Saint John Water is committed to service excellence and seeks to continuously improve its operations to meet the diverse needs of its customers. While Saint John Water has invested significantly in its infrastructure challenges there still remains a lot of linear infrastructure that will need to be renewed in the years ahead.

The Safe, Clean Drinking Water Project continues to move forward as a result of the funding support from the Government of Canada and Province of New Brunswick. The Safe, Clean Drinking Water Project constructed the Loch Lomond Drinking Water Treatment Facility along with three large water storage tanks which were commissioned on August 30, 2018.

The completion of the Safe, Clean Drinking Water Project in 2019 will assure that safe, clean drinking water is delivered reliably and sustainably to Customers.

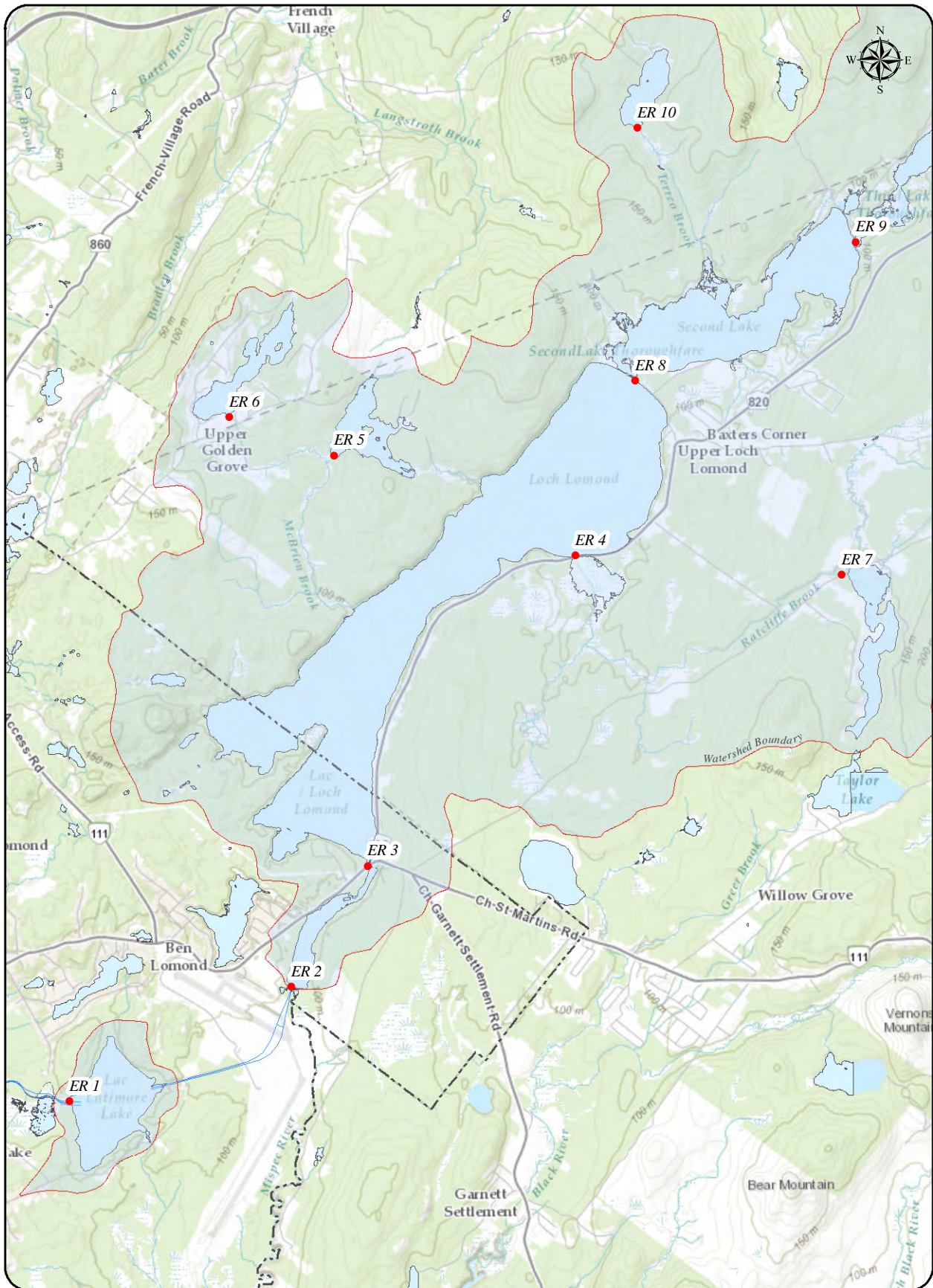
Understanding the immeasurable value of drinking water to the community, Saint John Common Council has continued to make Safe, Clean, Drinking Water a priority.



# Appendix A

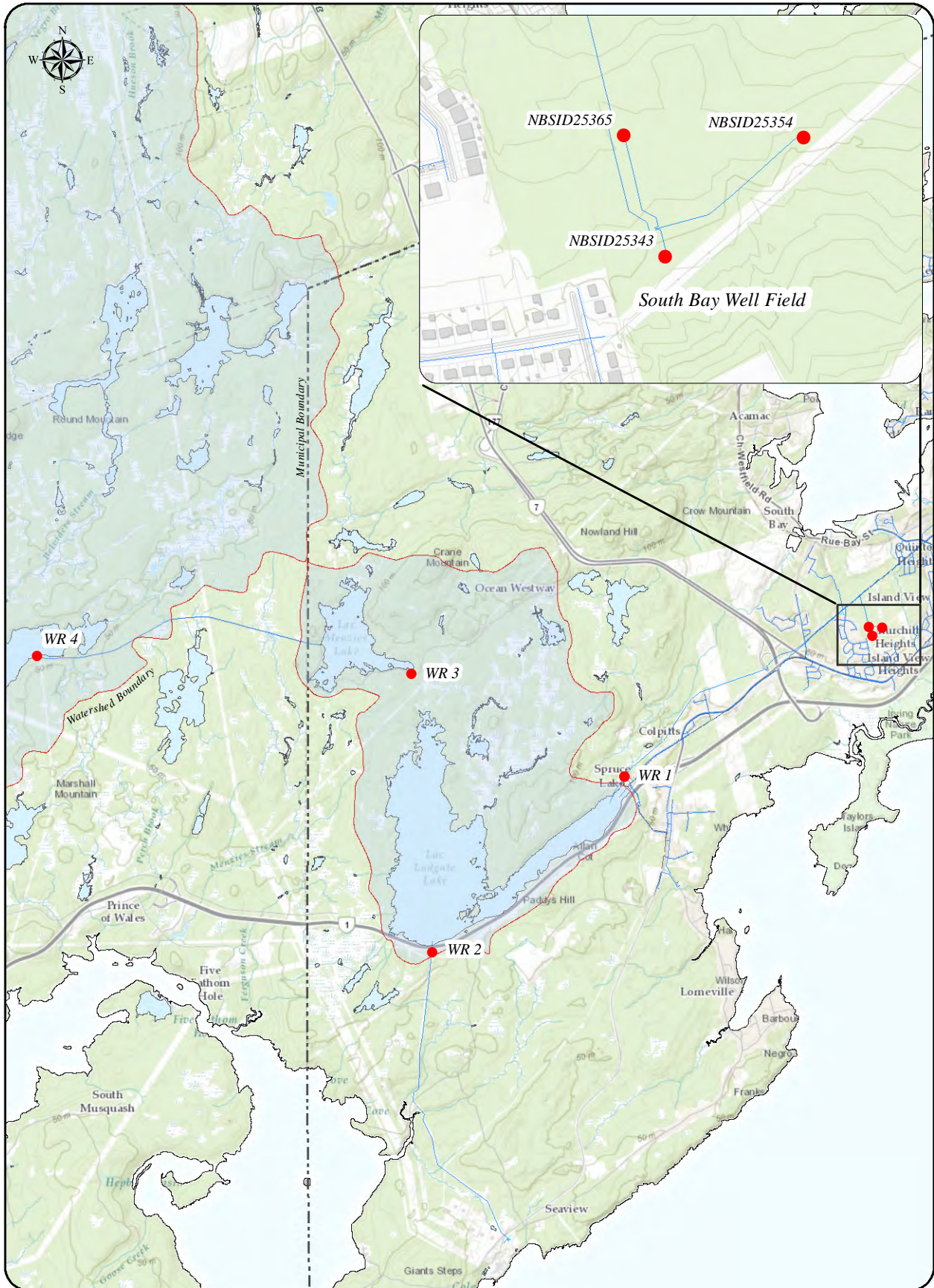
## East & West Raw Water Sample Sites





*Raw Water Sample Sites - East System*





*Raw Water Sample Sites - West System*

## Appendix B

### Watershed Raw Water Analytical Results

WATERSHED SAMPLING Lafimer Lake ER-1		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	0	0
Total coliforms (counts/100mL)	24	58
Heterotrophic Plate Count / (CFU/mL)	4500	1700
Fecal coliforms (counts/100mL)	0	0
Alkalinity (total, as CaCO <sub>3</sub> ) (mg/L)	8	8
Aluminum (total) (mg/L)	0.062	0.136
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.017	< 0.001
Iron (total) (mg/L)	0.030	0.172
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.013	0.027
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.7	6.6
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	1.1	5.2
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Robertson Lake ER-2		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	0	0
Total coliforms (counts/100mL)	94	68
Heterotrophic Plate Count / (CFU/mL)	3500	2300
Fecal coliforms (counts/100mL)	0	0
Alkalinity (total, as CaCO <sub>3</sub> ) (mg/L)	7	8
Aluminum (total) (mg/L)	0.011	0.052
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.018	< 0.001
Iron (total) (mg/L)	0.040	0.095
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.020	0.026
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.6	6.5
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	1.2	1.3
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Loch Lomond Reservoir ER-3		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	0	0
Total coliforms (counts/100mL)	62	76
Heterotrophic Plate Count / (CFU/mL)	38500	2000
Fecal coliforms (counts/100mL)	2	0
Alkalinity (total, as CaCO3) (mg/L)	7	7
Aluminum (total) (mg/L)	0.086	0.045
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.016	< 0.001
Iron (total) (mg/L)	0.038	0.086
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.018	0.025
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.6	6.5
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	0.9	1.3
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING First Lake ER-4		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	10	12
Total coliforms (counts/100mL)	378	604
Heterotrophic Plate Count / (CFU/mL)	27500	13200
Fecal coliforms (counts/100mL)	22	10
Alkalinity (total, as CaCO3) (mg/L)	9	8
Aluminum (total) (mg/L)	0.149	0.087
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.016	< 0.001
Iron (total) (mg/L)	0.248	0.189
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.040	0.018
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.6	6.5
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	2.6	1.0
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING McBrien Lake ER-5		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	0	0
Total coliforms (counts/100mL)	48	66
Heterotrophic Plate Count / (CFU/mL)	13200	5900
Fecal coliforms (counts/100mL)	6	0
Alkalinity (total, as CaCO3) (mg/L)	4	4
Aluminum (total) (mg/L)	0.061	0.061
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.015	< 0.001
Iron (total) (mg/L)	0.065	0.106
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.017	0.017
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.3	6.1
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	0.8	1.5
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Hunter Lake ER-6		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	0	0
Total coliforms (counts/100mL)	44	48
Heterotrophic Plate Count / (CFU/mL)	4600	2400
Fecal coliforms (counts/100mL)	2	0
Alkalinity (total, as CaCO3) (mg/L)	19	22
Aluminum (total) (mg/L)	0.069	0.034
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.019	< 0.001
Iron (total) (mg/L)	0.021	0.065
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.016	0.005
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.9	7.2
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	0.7	0.9
Uranium (total) (mg/L)	< 0.0005	< 0.0005



WATERSHED SAMPLING Offer Lake ER-7		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	8	6
Total coliforms (counts/100mL)	614	902
Heterotrophic Plate Count / (CFU/mL)	14800	3800
Fecal coliforms (counts/100mL)	10	10
Alkalinity (total, as CaCO3) (mg/L)	11	8
Aluminum (total) (mg/L)	0.138	0.074
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.116	< 0.001
Iron (total) (mg/L)	0.265	0.153
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.044	0.011
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.5	6.1
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	1.6	1.0
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Second Lake ER-8		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	10	0
Total coliforms (counts/100mL)	220	68
Heterotrophic Plate Count / (CFU/mL)	4100	5200
Fecal coliforms (counts/100mL)	12	0
Alkalinity (total, as CaCO3) (mg/L)	12	9
Aluminum (total) (mg/L)	0.120	0.062
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	0.013
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.014	< 0.001
Iron (total) (mg/L)	0.049	0.122
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.020	0.019
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.6	6.2
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	1.6	1.3
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Third Lake ER-9		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	4	0
Total coliforms (counts/100mL)	232	330
Heterotrophic Plate Count / (CFU/mL)	5300	4400
Fecal coliforms (counts/100mL)	8	0
Alkalinity (total, as CaCO3) (mg/L)	8	6
Aluminum (total) (mg/L)	0.106	0.109
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	0.015
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.020	0.001
Iron (total) (mg/L)	0.066	0.141
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.027	0.014
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.7	6.1
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	1.2	1.5
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Terreo Lake ER-10		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	0	0
Total coliforms (counts/100mL)	202	92
Heterotrophic Plate Count / (CFU/mL)	7700	8800
Fecal coliforms (counts/100mL)	2	0
Alkalinity (total, as CaCO3) (mg/L)	5	4
Aluminum (total) (mg/L)	0.127	0.126
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.022	< 0.001
Iron (total) (mg/L)	0.030	0.086
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.009	0.010
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.2	6.0
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	0.8	1.4
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Spruce Lake WR-1		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	2	4
Total coliforms (counts/100mL)	70	84
Heterotrophic Plate Count / (CFU/mL)	4500	2200
Fecal coliforms (counts/100mL)	0	6
Alkalinity (total, as CaCO <sub>3</sub> ) (mg/L)	1	1
Aluminum (total) (mg/L)	0.094	0.060
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.030	< 0.001
Iron (total) (mg/L)	0.031	0.111
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.007	0.013
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.2	6.0
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	0.5	0.8
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Coleson Cove WR-2		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	4	4
Total coliforms (counts/100mL)	84	75
Heterotrophic Plate Count / (CFU/mL)	3700	2600
Fecal coliforms (counts/100mL)	2	4
Alkalinity (total, as CaCO <sub>3</sub> ) (mg/L)	2	2
Aluminum (total) (mg/L)	0.091	0.086
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.014	< 0.001
Iron (total) (mg/L)	0.027	0.097
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.011	0.014
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.0	5.9
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	0.5	0.9
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Menzies Lake WR-3		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	12	0
Total coliforms (counts/100mL)	94	60
Heterotrophic Plate Count / (CFU/mL)	2500	3500
Fecal coliforms (counts/100mL)	14	0
Alkalinity (total, as CaCO3) (mg/L)	4	2
Aluminum (total) (mg/L)	0.072	0.089
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.018	0.001
Iron (total) (mg/L)	0.034	0.126
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.010	0.010
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.2	5.8
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	0.6	0.8
Uranium (total) (mg/L)	< 0.0005	< 0.0005

WATERSHED SAMPLING Musquash Lake (at Pumphouse) WR-4		
Parameter	May 2 2018	Nov 26 2018
Escherichia coli / E. coli (counts/100mL)	8	4
Total coliforms (counts/100mL)	66	268
Heterotrophic Plate Count / (CFU/mL)	3300	3100
Fecal coliforms (counts/100mL)	8	4
Alkalinity (total, as CaCO3) (mg/L)	1	9
Aluminum (total) (mg/L)	0.178	0.149
Antimony (total) (mg/L)	< 0.002	< 0.002
Arsenic (total) (mg/L)	< 0.001	< 0.001
Barium (total) (mg/L)	< 0.01	< 0.01
Boron (total) (mg/L)	< 0.1	< 0.1
Cadmium (total) (mg/L)	< 0.00002	< 0.00002
Chromium (total) (mg/L)	< 0.001	< 0.001
Copper (total) (mg/L)	0.014	0.001
Iron (total) (mg/L)	0.094	0.200
Lead (total) (mg/L)	< 0.001	< 0.001
Manganese (total) (mg/L)	0.030	0.029
Nitrate (as N) (mg/L)	< 0.2	< 0.2
pH	6.0	5.9
Selenium (total) (mg/L)	< 0.002	< 0.002
Thallium (total) (mg/L)	< 0.001	< 0.001
Turbidity (NTU)	1.0	1.0
Uranium (total) (mg/L)	< 0.0005	< 0.0005

## Appendix C

### Raw Water & Distribution System Organic & Inorganic Analytical Results

**New Brunswick Clean Water Results  
Latimer Lake Raw Water**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		< 0.29	< 0.29	< 0.29	< 0.29
Bromodichloromethane	µg/L		< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	< 0.37	< 0.37	< 0.37	< 0.37
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			7		8
Aluminum	mg/L			0.097		0.013
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.002		< 0.001
Barium	mg/L	1		0.011		0.01
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.013		< 0.001
Iron	mg/L			0.079		0.107
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.025		0.089
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.85		6.67
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			1.07		1.5
Uranium	mg/L	0.02		< 0.0005		< 0.0005



**New Brunswick Clean Water Results  
Operations Complex**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		46	43	114	48
Bromodichloromethane	µg/L		3.5	3	5.4	5.4
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	49	46	119	53
Trichloroacetic acid	µg/L		92.9	106	171	30.7
Dichloroacetic acid	µg/L		30.8	66.5	83.8	20.3
Monochloroacetic acid	µg/L		< 4.7	< 4.7	5.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	2.3	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	124	172	263	51

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			2		27
Aluminum	mg/L			0.080		0.036
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.01		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.287		0.121
Iron	mg/L			0.110		0.101
Lead	mg/L	0.01		0.003		< 0.001
Manganese	mg/L			0.014		0.004
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.40		7.08
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.88		0.22
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
36 Park Drive**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		36	44	148	61
Bromodichloromethane	µg/L		2.7	2.9	6.6	6.8
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	0.44
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	39	47	154	68
Trichloroacetic acid	µg/L		70.7	102	185	39.2
Dichloroacetic acid	µg/L		24.2	60.3	92.3	26.7
Monochloroacetic acid	µg/L		< 4.7	< 4.7	5.1	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	2.7	2.3
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	94.9	162	285	68.1

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			2		26
Aluminum	mg/L			0.069		< 0.005
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.01		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.015		0.002
Iron	mg/L			0.053		0.005
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.014		0.004
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.53		7.14
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.76		0.16
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Lakewood Pump Station, Line #2**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		18	19	103	32
Bromodichloromethane	µg/L		1.5	1.4	4.8	4.5
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	20	21	108	36
Trichloroacetic acid	µg/L		47.3	57	119	26.8
Dichloroacetic acid	µg/L		21.7	57.4	75.8	16.3
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	2.1	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	69	114	197	43.1

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			2		26
Aluminum	mg/L			0.007		0.026
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.01		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.013		0.003
Iron	mg/L			0.130		0.049
Lead	mg/L	0.01		< 0.001		0.002
Manganese	mg/L			0.023		0.012
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.18		7.10
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			1.03		0.22
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Lakewood Pump Station, Line #4**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		18	20	87	< 0.29
Bromodichloromethane	µg/L		1.5	1.5	4.5	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	20	22	92	< 0.37
Trichloroacetic acid	µg/L		50.5	63	134	< 5.3
Dichloroacetic acid	µg/L		22.2	55.9	85.9	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	5.1	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	2.2	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	72.7	119	228	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			1		8
Aluminum	mg/L			0.089		0.100
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.01		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.008		< 0.001
Iron	mg/L			0.054		0.196
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.022		0.068
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				5.80		6.80
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			1.21		1.18
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Ryerson Metals**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		58	47	146	76
Bromodichloromethane	µg/L		4.1	3.3	6.5	7.2
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	0.45
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	62	50	152	84
Trichloroacetic acid	µg/L		98	86.3	147	47.3
Dichloroacetic acid	µg/L		55.7	61	78.8	29.3
Monochloroacetic acid	µg/L		< 4.7	< 4.7	4.9	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	2.2
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	154	147	231	78.8

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			2		40
Aluminum	mg/L			0.068		0.036
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.010		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.255		0.210
Iron	mg/L			0.079		0.024
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.016		0.004
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.30		7.34
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.85		0.21
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
University Avenue Pumping Station**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		44	33	88	66
Bromodichloromethane	µg/L		3.8	2.8	4.7	4.9
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	48	35	93	70
Trichloroacetic acid	µg/L		79.5	63	102	68.5
Dichloroacetic acid	µg/L		41.1	41.2	60.7	40.2
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	2.5	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	121	104	165	109

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			3		26
Aluminum	mg/L			0.080		0.035
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.012		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.102		0.086
Iron	mg/L			0.098		< 0.001
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.021		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.53		7.20
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			1.00		0.20
Uranium	mg/L	0.02		< 0.0005		< 0.0005



**New Brunswick Clean Water Results  
Kennebecasis Drive**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		48	61	176	51
Bromodichloromethane	µg/L		3.3	3.6	7	5.8
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	51	65	183	56
Trichloroacetic acid	µg/L		84.3	133	193	36.6
Dichloroacetic acid	µg/L		45.3	73.5	107	24
Monochloroacetic acid	µg/L		< 4.7	< 4.7	7.3	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	2.2	2
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	130	207	309	62.7

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			4		25
Aluminum	mg/L			0.076		0.069
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.013		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.019		< 0.001
Iron	mg/L			0.085		0.011
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.014		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.36		7.12
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.77		0.15
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Millidgeville WWTP**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		91	51	176	43
Bromodichloromethane	µg/L		5.1	3.3	7	5.4
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	96	55	183	48
Trichloroacetic acid	µg/L		72.2	117	214	30.3
Dichloroacetic acid	µg/L		45.7	71.5	86.9	20.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	6.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	2.3	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	118	189	310	51

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			2		27
Aluminum	mg/L			0.095		0.044
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.011		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.144		0.097
Iron	mg/L			0.16		0.004
Lead	mg/L	0.01		0.013		0.006
Manganese	mg/L			0.014		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.65		7.08
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			1.01		0.2
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Ocean Drive Well**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		< 0.29	< 0.29	< 0.29	< 0.29
Bromodichloromethane	µg/L		< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	< 0.37	< 0.37	< 0.37	< 0.37
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			92		87
Aluminum	mg/L			0.032		0.027
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.002		0.002
Barium	mg/L	1		0.228		0.211
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.011		< 0.001
Iron	mg/L			0.018		< 0.001
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			< 0.002		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		1.5		1.5
pH				8.08		7.78
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.15		0.37
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Seaward Crescent Well**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		< 0.29	< 0.29	< 0.29	< 0.29
Bromodichloromethane	µg/L		< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	< 0.37	< 0.37	< 0.37	< 0.37
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			97		94
Aluminum	mg/L			0.033		0.048
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.002		< 0.001
Barium	mg/L	1		0.301		0.291
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		0.002
Copper	mg/L			0.018		0.008
Iron	mg/L			0.028		0.076
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			< 0.002		0.47
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		1.1		1.6
pH				8.00		7.83
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.28		0.16
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Aberdeen Street**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		< 0.29	0.44	0.72	0.96
Bromodichloromethane	µg/L		< 0.26	0.39	0.83	1.20
Dibromochloromethane	µg/L		< 0.37	0.41	0.95	1.4
Bromoform	µg/L		< 0.34	< 0.34	0.58	0.6
Total Trihalomethanes	µg/L	100	< 0.37	1.2	3.1	4.1
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			93		88
Aluminum	mg/L			0.026		0.026
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.002		0.001
Barium	mg/L	1		0.228		0.212
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.013		< 0.001
Iron	mg/L			0.029		0.042
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			< 0.002		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		1.5		1.5
pH				8.30		7.88
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.16		0.49
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Eden Street**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		0.4	0.37	0.59	0.56
Bromodichloromethane	µg/L		0.47	0.44	0.79	0.75
Dibromochloromethane	µg/L		0.67	0.56	1	0.94
Bromoform	µg/L		0.43	< 0.34	0.65	0.47
Total Trihalomethanes	µg/L	100	2	1.4	3	2.7
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			91		89
Aluminum	mg/L			0.032		0.144
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.002		0.001
Barium	mg/L	1		0.228		0.211
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.014		0.004
Iron	mg/L			0.023		0.6
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			< 0.002		0.017
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		1.6		1.5
pH				8.20		7.88
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.13		0.15
Uranium	mg/L	0.02		< 0.0005		< 0.0005

**New Brunswick Clean Water Results  
Spruce Lake Raw Water**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		< 0.29	< 0.29	< 0.29	< 0.29
Bromodichloromethane	µg/L		< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	< 0.37	< 0.37	< 0.37	< 0.37
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			1		3
Aluminum	mg/L			0.125		0.091
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.003		< 0.001
Barium	mg/L	1		< 0.010		< 0.010
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.013		< 0.001
Iron	mg/L			0.108		0.088
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.023		0.017
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				6.40		6.20
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.49		0.53
Uranium	mg/L	0.02		< 0.0005		< 0.0005



**New Brunswick Clean Water Results  
Fundy Linen, Spruce Lake Industrial Park**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		0.55	0.49	0.64	0.64
Bromodichloromethane	µg/L		0.61	< 0.26	0.42	0.35
Dibromochloromethane	µg/L		1.2	0.59	0.91	0.89
Bromoform	µg/L		0.78	0.48	0.7	0.67
Total Trihalomethanes	µg/L	100	3.2	1.6	2.7	2.6
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			134		131
Aluminum	mg/L			0.039		0.079
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.001		< 0.001
Barium	mg/L	1		0.07		0.072
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.076		0.118
Iron	mg/L			0.04		0.156
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.002		0.006
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.8		0.7
pH				8.20		8.10
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.14		0.14
Uranium	mg/L	0.02		0.003		0.0029

**New Brunswick Clean Water Results  
Centracare**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		1	0.73	0.85	0.77
Bromodichloromethane	µg/L		1.1	0.7	0.88	1.2
Dibromochloromethane	µg/L		1.9	1.4	1.8	2.5
Bromoform	µg/L		1.2	0.93	1.4	1.8
Total Trihalomethanes	µg/L	100	5.2	3.8	5	6.2
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			129		132
Aluminum	mg/L			0.036		0.032
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.001		0.001
Barium	mg/L	1		0.07		0.069
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.034		0.07
Iron	mg/L			0.027		0.003
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			< 0.002		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.8		0.7
pH				8.00		7.72
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.18		0.14
Uranium	mg/L	0.02		0.0029		0.0028

**New Brunswick Clean Water Results  
Churchill Heights Tank**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		1	0.52	0.73	0.64
Bromodichloromethane	µg/L		1.2	0.75	0.92	0.91
Dibromochloromethane	µg/L		2.4	1.4	1.9	2
Bromoform	µg/L		1.4	0.89	1.5	1.5
Total Trihalomethanes	µg/L	100	6	3.5	5.1	5.1
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			128		133
Aluminum	mg/L			0.044		0.002
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		< 0.001
Barium	mg/L	1		0.075		0.07
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.017		< 0.001
Iron	mg/L			0.044		< 0.001
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.002		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.8		0.7
pH				7.80		7.96
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.14		0.15
Uranium	mg/L	0.02		0.0031		0.0029

**New Brunswick Clean Water Results  
Doiron's**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		1.6	0.54	0.82	0.78
Bromodichloromethane	µg/L		1.3	0.44	0.68	0.64
Dibromochloromethane	µg/L		1.8	0.88	1.3	1.4
Bromoform	µg/L		1	0.64	1	1
Total Trihalomethanes	µg/L	100	5.7	2.5	3.9	3.8
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			130		132
Aluminum	mg/L			0.044		0.081
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.001		0.001
Barium	mg/L	1		0.071		0.067
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.042		0.138
Iron	mg/L			0.027		0.166
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			< 0.002		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.8		0.7
pH				8.05		7.68
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.18		0.16
Uranium	mg/L	0.02		0.003		0.0029

**New Brunswick Clean Water Results  
Carleton Community Centre**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		0.88	0.73	0.75	0.89
Bromodichloromethane	µg/L		1.2	0.9	0.87	1.1
Dibromochloromethane	µg/L		2.2	1.5	1.7	2.2
Bromoform	µg/L		1.2	1.1	1.4	1.6
Total Trihalomethanes	µg/L	100	5.5	4.2	4.7	5.8
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			130		132
Aluminum	mg/L			0.037		0.016
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.001		0.001
Barium	mg/L	1		0.067		0.067
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.064		0.157
Iron	mg/L			0.031		< 0.001
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.003		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.8		0.7
pH				8.03		7.86
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.12		0.11
Uranium	mg/L	0.02		0.0028		0.0028

**New Brunswick Clean Water Results  
Bridge Road (Zone 8)**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		1.1	0.88	0.89	0.79
Bromodichloromethane	µg/L		1.2	0.77	0.96	0.79
Dibromochloromethane	µg/L		2.1	1.4	2	1.7
Bromoform	µg/L		1.4	0.86	1.4	1.2
Total Trihalomethanes	µg/L	100	5.8	3.9	5.3	4.4
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			129		131
Aluminum	mg/L			0.038		0.084
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.002		0.002
Barium	mg/L	1		0.071		0.071
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.015		0.002
Iron	mg/L			0.305		0.273
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.008		0.031
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.5		0.7
pH				8.05		7.70
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.92		0.42
Uranium	mg/L	0.02		0.0029		0.0028

**New Brunswick Clean Water Results  
Dunn Avenue**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		0.53	0.47	0.67	0.61
Bromodichloromethane	µg/L		0.58	0.34	0.62	0.64
Dibromochloromethane	µg/L		1.2	0.81	1.3	1.2
Bromoform	µg/L		0.76	0.64	1.1	0.92
Total Trihalomethanes	µg/L	100	3	2.3	3.7	3.4
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			130		130
Aluminum	mg/L			0.029		0.108
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.001		0.001
Barium	mg/L	1		0.069		0.067
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.062		0.118
Iron	mg/L			0.027		0.01
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			< 0.002		< 0.002
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.8		0.7
pH				8.08		7.45
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.15		0.12
Uranium	mg/L	0.02		0.0029		0.0029



**New Brunswick Clean Water Results  
Southbay Well #1**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		0.52	0.5	0.56	0.56
Bromodichloromethane	µg/L		< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	0.52	0.50	0.56	0.56
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			129		129
Aluminum	mg/L			0.036		0.038
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.001		0.001
Barium	mg/L	1		0.15		0.057
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.004		< 0.001
Iron	mg/L			0.036		0.006
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.057		0.008
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.6		0.8
pH				8.25		7.84
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.16		0.21
Uranium	mg/L	0.02		0.0044		0.0027

**New Brunswick Clean Water Results  
Southbay Well #2**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		0.47	< 0.29	0.31	0.45
Bromodichloromethane	µg/L		< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	0.47	< 0.37	< 0.37	0.45
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			128		130
Aluminum	mg/L			0.038		0.141
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		< 0.001		0.001
Barium	mg/L	1		0.055		0.079
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		0.001
Copper	mg/L			0.005		0.002
Iron	mg/L			0.03		0.251
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.004		0.03
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		0.4		0.7
pH				8.15		7.78
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.18		0.24
Uranium	mg/L	0.02		0.0029		0.0026

**New Brunswick Clean Water Results  
Southbay Well #3**

Organic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
1,2-Dichlorobenzene	µg/L	200	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dichloroethane	µg/L	5	< 0.35	< 0.35	< 0.35	< 0.35
1,4-Dichlorobenzene	µg/L	5	< 0.36	< 0.36	< 0.36	< 0.36
Benzene	µg/L	5	< 0.32	< 0.32	< 0.32	< 0.32
Benzo[a]pyrene	µg/L	0.04	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	µg/L	2	< 0.16	< 0.16	< 0.16	< 0.16
Dichloromethane	µg/L	50	< 0.35	< 0.35	< 0.35	< 0.35
Ethylbenzene	µg/L	140	< 0.33	< 0.33	< 0.33	< 0.33
Total Xylenes	µg/L	90	< 0.43	< 0.43	< 0.43	< 0.43
Pentachlorophenol	µg/L	60	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethylene	µg/L	10	< 0.35	< 0.35	< 0.35	< 0.35
Toluene	µg/L	60	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethylene	µg/L	5	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl chloride	µg/L	2	< 0.17	< 0.17	< 0.17	< 0.17
Chloroform	µg/L		< 0.29	< 0.29	< 0.29	< 0.29
Bromodichloromethane	µg/L		< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	µg/L		< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	µg/L		< 0.34	< 0.34	< 0.34	< 0.34
Total Trihalomethanes	µg/L	100	< 0.37	< 0.37	< 0.37	< 0.37
Trichloroacetic acid	µg/L		< 5.3	< 5.3	< 5.3	< 5.3
Dichloroacetic acid	µg/L		< 2.6	< 2.6	< 2.6	< 2.6
Monochloroacetic acid	µg/L		< 4.7	< 4.7	< 4.7	< 4.7
Bromochloroacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Monobromoacetic acid	µg/L		< 2.9	< 2.9	< 2.9	< 2.9
Dibromoacetic acid	µg/L		< 2.0	< 2.0	< 2.0	< 2.0
Haloacetic acids 6 / HAA6	µg/L	80	< 5.3	< 5.3	< 5.3	< 5.3

Inorganic Parameters:	Units	Health Advisory Limit	Jan 17 2018	April 18 2018	July 11 2018	Oct 15 2018
Alkalinity (as CaCO3)	mg/L			134		180
Aluminum	mg/L			0.028		0.025
Antimony	mg/L	0.006		< 0.002		< 0.002
Arsenic	mg/L	0.01		0.001		0.001
Barium	mg/L	1		0.080		0.157
Boron	mg/L	5		< 0.1		< 0.1
Cadmium	mg/L	0.005		< 0.00002		< 0.00002
Chromium	mg/L	0.05		< 0.001		< 0.001
Copper	mg/L			0.004		< 0.001
Iron	mg/L			0.027		0.034
Lead	mg/L	0.01		< 0.001		< 0.001
Manganese	mg/L			0.002		0.034
Mercury	mg/L	0.001		< 0.00002		< 0.00002
Nitrate (as NO3)	mg/L	45		< 0.2		< 0.2
pH				8.10		7.76
Selenium	mg/L	0.05		< 0.002		< 0.002
Thallium	mg/L			< 0.001		< 0.001
Turbidity	NTU			0.20		0.30
Uranium	mg/L	0.02		0.0029		0.0042

## Appendix D

### Monthly Water Testing Summaries

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

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www.sjlabs.ca

## Summary of Water Testing for January 2018

SID	#	Sample Location	Lab ID:		G2701-18	G2754-18	G27138-18	G27192-18
			Date:		Jan 2/18	Jan 9/18	Jan 16/18	Jan 22/18
			Parameters:		TC/EC	HPC	TC/EC	TC/EC
15441	1	Carleton Community Center	0/0	3	0/0	0/0	-	
15407	2	Centracare, Bay Street	0/0	51	0/0	0/0	0/0	
15087	3	City Works Complex, East	0/0	50	0/0	0/0	-	
19965	4	Travelodge Suites, Fairville Blvd.	0/0	1	0/0	0/0	-	
19363	5	Doirons Sports Excellence	0/0	2	0/0	0/0	0/0	
15349	6	Fundy Linen, King William Rd.	0/0	9	0/0	0/0	0/0	
21045	7	Eastern Wastewater Treatment	0/0	2	0/0	0/0	-	
19716	8	Jones Variety, 304 Cityline Road	0/0	2	0/0	0/0	-	
21216	9	Churchill Heights Water Reservoir	0/0	37	0/0	0/0	0/0	
15781	10	Meter Station, 36 Park Drive	0/0	3	0/0	0/0	0/0	
15872	11	NBCC, 950 Grandview Ave.	0/0	4	0/0	0/0	0/0	
21056	12	PRV Station, Gault Road	0/0	3	0/0	0/0	0/0	
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	0	0/0	0/0	-	
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	10	0/0	0/0	-	
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	142	0/0	0/0	-	
15145	16	Pump Stn, 147 Highland Road	0/0	9	0/0	0/0	-	
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	16	0/0	0/0	0/0	
17367	18	Pump Stn, 21 Champlain Drive	0/0	28	0/0	0/0	-	
15747	19	Pump Stn, 399 University Ave.	0/0	7	0/0	0/0	-	
15645	20	Pump Stn, 510 Somerset Street	0/0	2	0/0	0/0	-	
15236	21	Pump Stn, Line #2 Lakewood	0/0	2	0/0	0/0	-	
15269	22	Pump Stn, Line #3 Lakewood	0/0	14	0/0	0/0	-	
15281	23	Pump Stn, Line #42 Lakewood	0/0	5	0/0	0/0	-	
15509	24	Raw Intake - Latimer Lake	19/1*	580	27/0*	90/1*	-	
15667	25	Raw Intake - Spruce Lake	47/1*	628	78/1*	25/0*	-	
15725	26	Ryerson Metals, Whiteborne Way	0/0	5	0/0	0/0	0/0	
15543	27	Stand Pipe, 124 Willie Avenue	-	-	0/0	0/0	-	
15463	28	Wastewater Treatment Plant	0/0	6	0/0	0/0	-	
20315	29	Fundy Heights, 658 Dunn Ave	0/0	4	0/0	0/0	-	
20724	30	Harris & Roome, Charlotte Street	0/0	8	0/0	0/0	-	
21170	31	Pump Stn, Ocean Drive Treated	0/0	10	0/0	0/0	-	
21181	32	Pump Stn, Seaward Cres. Treated	0/0	4	0/0	0/0	-	
21852	33	Bridge Road	0/0	1	0/0	0/0	0/0	
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	21	0/0	0/0	-	
21192	35	Hydrant, 79 Eden Street	0/0	13	0/0	0/0	-	
-	36	Spruce Lake House, Ocean Westway	0/0	0	0/0	0/0	-	
-	37	Tourist Information Center	-	-	-	-	-	

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for January 2018

		Lab ID:	G27197-18	G27241-18
		Date:	Jan 23/18	Jan 30/18
		Parameters:	TC/EC	TC/EC
SID	#	Sample Location		
15441	1	Carleton Community Center	0/0	0/0
15407	2	Centracare, Bay Street	-	0/0
15087	3	City Works Complex, East	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	0/0
19363	5	Doirons Sports Excellence	-	0/0
15349	6	Fundy Linen, King William Rd.	-	0/0
21045	7	Eastern Wastewater Treatment	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	0/0
21216	9	Churchill Heights Water Reservoir	-	0/0
15781	10	Meter Station, 36 Park Drive	-	0/0
15872	11	NBCC, 950 Grandview Ave.	-	0/0
21056	12	PRV Station, Gault Road	-	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	-	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	0/0	0/0
15281	23	Pump Stn, Line #42 Lakewood	0/0	0/0
15509	24	Raw Intake - Latimer Lake	76/0*	133/1*
15667	25	Raw Intake - Spruce Lake	69/4*	189/1*
15725	26	Ryerson Metals, Whiteborne Way	-	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	0/0
21852	33	Bridge Road	-	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	0/0
21192	35	Hydrant, 79 Eden Street	0/0	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	0/0
-	37	Tourist Information Center	-	-

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P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

January 4, 2018

Report #: G2729-18, Analysis of water sample.

Two samples were submitted for analysis on January 3, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G2729-1		Well #2 Southbay Wellfield	1	0
G2729-2		Well #3 Southbay Wellfield	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
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Saint John, New Brunswick  
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January 5, 2018

Report #: G2717-18, Analysis of water sample.


Two samples were submitted for analysis on January 3, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL	HPC cfu/100mL
G2717-1	27	Stand Pipe, Willie Avenue	0	0	1
G2717-2	35	Sampling Hydrant, Eden Street	0	0	NR

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided. SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

January 11, 2018

Report #: G2788-18, Analysis of water sample.

Two samples were submitted for analysis on January 10, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

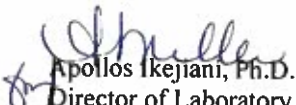
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G2788-1		Well #2 Southbay Wellfield	0	0
G2788-2		Well #3 Southbay Wellfield	0*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
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January 12, 2018

Report #: G27108-18, Analysis of water sample.

Two samples were submitted for analysis on January 11, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

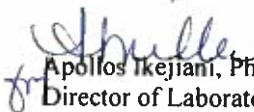
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27108-1		Well #1 Southbay Wellfield, Sample 1	0*	0
G27108-2		Well #1 Southbay Wellfield, Sample 2	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
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Saint John, New Brunswick  
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January 18, 2018

Report #: G27168-18, Analysis of water sample.

Three samples were submitted for analysis on January 17, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27168-1		Well #1 Southbay Wellfield	0*	0
G27168-2		Well #2 Southbay Wellfield	1	0
G27168-3		Well #3 Southbay Wellfield	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
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January 20, 2018

Report #: G27184-18, Analysis of water sample.


Two samples were submitted for analysis on January 19, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27184-1	34	Sampling Hydrant, Aberdeen Avenue	0	0
G27184-2	35	Sampling Hydrant, Eden Street	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
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January 21, 2018

Report #: G27189-18, Analysis of water sample.


Two samples were submitted for analysis on January 20, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27189-1	34	Sampling Hydrant, Aberdeen Avenue	0	0
G27189-2	35	Sampling Hydrant, Eden Street	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided. SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
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January 25, 2018

Report #: G27214-18, Analysis of water sample.

Two samples were submitted for analysis on January 24, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27214-1		Well #2 Southbay Wellfield	2	0
G27214-2		Well #3 Southbay Wellfield	1	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

February 1, 2018

Report #: G27264-18, Analysis of water sample.

Three samples were submitted for analysis on January 31, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

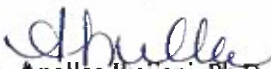
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27264-1		Well #1 Southbay Wellfield	0*	0
G27264-2		Well #2 Southbay Wellfield	0	0
G27264-3		Well #3 Southbay Wellfield	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for February 2018

		Lab ID:	G27293-18	G27362-18	G27410-18	G27459-18
		Date:	Feb 6/18	Feb 13/18	Feb 20/18	Feb 27/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC
SID	#	Sample Location				
15441	1	Carleton Community Center	0/0	0	0/0	0/0
15407	2	Centracare, Bay Street	0/0	2	0/0	0/0
15087	3	City Works Complex, East	0/0	7	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	3	0/0	0/0
19363	5	Doirons Sports Excellence	0/0	10	0/0	-
15349	6	Fundy Linen, King William Rd.	0/0	0	0/0	0/0
21045	7	Eastern Wastewater Treatment	0/0	1	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	13	0/0	0/0
21216	9	Churchill Heights Water Reservoir	0/0	4	0/0	0/0
15781	10	Meter Station, 36 Park Drive	0/0	7	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	0	0/0	0/0
21056	12	PRV Station, Gault Road	0/0	3	0/0	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	3	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	5	0/0	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	110	0/0*	0/0*
15145	16	Pump Stn, 147 Highland Road	0/0	16	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	4	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	19	0/0	0/0*
15747	19	Pump Stn, 399 University Ave.	0/0	4	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	3	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	13	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	0/0	14	0/0	0/0*
15281	23	Pump Stn, Line #42 Lakewood	0/0	6	0/0	0/0
15509	24	Raw Intake - Latimer Lake	31/0*	924	36/1*	40/0*
15667	25	Raw Intake - Spruce Lake	81/4*	1188	60/1*	109/0*
15725	26	Ryerson Metals, Whiteborne Way	0/0	1	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	6	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	2	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	1	0/0	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	1	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	0	0/0	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	1	0/0	0/0
21852	33	Bridge Road	0/0	132	0/0	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	0	0/0	0/0
21192	35	Hydrant, 79 Eden Street	0/0	19	0/0	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	100	0/0	0/0
-	37	Tourist Information Center	-	-	-	-

Note: TNFC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided. SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

February 8, 2018

Report #: G27331-18, Analysis of water sample.

Three samples were submitted for analysis on February 7, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27331-1		Well #1 Southbay Wellfield	8*	0
G27331-2		Well #2 Southbay Wellfield	0	0
G27331-3		Well #3 Southbay Wellfield	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

February 14, 2018

Report #: G27365-18, Analysis of water sample.

Three samples were submitted for analysis on February 13, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27365-1		Well #1 Southbay Wellfield	9*	0
G27365-2		Well #2 Southbay Wellfield	0	0
G27365-3		Well #3 Southbay Wellfield	0	0

\*Please note: Non-coliform bacteria present

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

February 15, 2018

Report #: G27389-18, Analysis of water sample.

Three samples were submitted for analysis on February 14, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

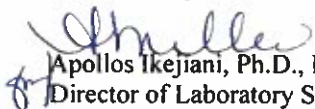
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27389-1		Well #1 Southbay Wellfield	6*	0
G27389-2		Well #2 Southbay Wellfield	0	0
G27389-3		Well #3 Southbay Wellfield	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

February 22, 2018

Report #: G27433-18, Analysis of water sample.


Three samples were submitted for analysis on February 21, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27433-1		Well #1 Southbay Wellfield	0	0
G27433-2		Well #2 Southbay Wellfield	0	0
G27433-3		Well #3 Southbay Wellfield	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

February 22, 2018

Report #: G27436-18, Analysis of water sample.


One sample was submitted for analysis on February 21, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27436-1	5	Doirons Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick. F2M 5V8

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February 23, 2018

Report #: G27440-18, Analysis of water sample.


Two samples were submitted for analysis on February 22, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27440-1	18	Pump Stn., Loch Lomond Road	0	0
G27440-2	22	Pump Stn., Line #3 Lakewood	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 1, 2018

Report #: G27486-18, Analysis of water sample.

Three samples were submitted for analysis on February 28, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27486-1		Well #1 Southbay Wellfield	0*	0
G27486-2		Well #2 Southbay Wellfield	0	0
G27486-3		Well #3 Southbay Wellfield	55*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

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## Summary of Water Testing for March 2018

		Lab ID:	G27531-18	G27596-18	G27676-18	G27738-18
		Date:	March 6/18	Mar 12/18	Mar 20/18	Mar 27/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC
SID	#	Sample Location				
15441	1	Carleton Community Center	0/0	6	0/0	0/0
15407	2	Centracare, Bay Street	0/0	21	0/0	0/0
15087	3	City Works Complex, East	0/0*	28	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	4	0/0	0/0
19363	5	Doirons Sports Excellence	0/0	8	0/0	0/0*
15349	6	Fundy Linen, King William Rd.	0/0	0	0/0	0/0*
21045	7	Eastern Wastewater Treatment	0/0	9	-	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	2	0/0	0/0
21216	9	Churchill Heights Water Reservoir	0/0	3	0/0	0/0
15781	10	Meter Station, 36 Park Drive	0/0	2	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0*	10	0/0	0/0
21056	12	PRV Station, Gault Road	0/0	1	0/0	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	6	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	3	0/0	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0*	329	0/0	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	3	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	4	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	12	0/0	0/0*
15645	20	Pump Stn, 510 Somerset Street	0/0	6	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0*	29	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	0/0	36	0/0	0/0
15281	23	Pump Stn, Line #42 Lakewood	0/0	11	0/0	0/0
15509	24	Raw Intake - Latimer Lake	30/0*	642	29/0*	31/0*
15667	25	Raw Intake - Spruce Lake	41/2*	956	32/0*	45/0*
15725	26	Ryerson Metals, Whiteborne Way	0/0	2	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	16	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	15	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	5	0/0	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	12	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	8	0/0	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	13	0/0	0/0
21852	33	Bridge Road	0/0	19	0/0	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	35	0/0	0/0
21192	35	Hydrant, 79 Eden Street	0/0	12	0/0	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	29	0/0	0/0
-	37	Tourist Information Center	-	-	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 8, 2018

Report #: G27552-18, Analysis of water sample.

Three samples were submitted for analysis on March 7, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

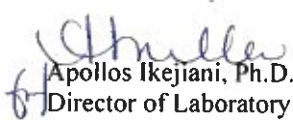
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27552-1		Well #1 Southbay Wellfield	1*	0
G27552-2		Well #2 Southbay Wellfield	2*	0
G27552-3		Well #3 Southbay Wellfield	82*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 9, 2018

Report #: G27576-18, Analysis of water sample.


Three samples were submitted for analysis on March 8, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27576-1	2	Centracare	0	0
G27576-2	11	NBCC	0	0
G27576-3	21	Pump Strn. Line 2 Lakewood	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 14, 2018

Report #: G27603-18, Analysis of water sample.


One sample was submitted for analysis on March 13, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27603-1	7	Eastern Wastewater Treatment Plant	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick. E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 17, 2018

Report #: G27662-18, Analysis of water sample.

Three samples were submitted for analysis on March 16, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27662-1		Well #1 Southbay Wellfield	0*	0
G27662-2		Well #2 Southbay Wellfield	0	0
G27662-3		Well #3 Southbay Wellfield	0*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollios Ikejiani, Ph.D., MCIC  
for Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 23, 2018

Report #: G27722-18, Analysis of water sample.

Three samples were submitted for analysis on March 22, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27722-1	5	Doiron Sports Excellence	0	0
G27722-2	6	Fundy Linen	0	0
G27722-3	19	Pump Stn., University Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick. E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 22, 2018

Report #: G27715-18. Analysis of water sample.

Three samples were submitted for analysis on March 21, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27715-1		Well #1 Southbay Wellfield	0	0
G27715-2		Well #2 Southbay Wellfield	0	0
G27715-3		Well #3 Southbay Wellfield	20*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report. please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick. F2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

March 29, 2018

Report #: G27755-18, Analysis of water sample.

Three samples were submitted for analysis on March 28, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27755-1		Well #1 Southbay Wellfield	0	0
G27755-2		Well #2 Southbay Wellfield	0	0
G27755-3		Well #3 Southbay Wellfield	1*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for April 2018

		Lab ID:	G27781-18		G27853-18	G27908-18	G27958-18
		Date:	April 4/18		April 10/18	April 17/18	April 24/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location					
15441	1	Carleton Community Center	0/0	6	0/0	0/0	0/0
15407	2	Centracare, Bay Street	0/0	9	0/0	0/0	0/0
15087	3	City Works Complex, East	0/0	1	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	12	0/0	0/0	0/0
19363	5	Doirons Sports Excellence	0/0	19	0/0	0/0	0/0
15349	6	Fundy Linen, King William Rd.	0/0	13	0/0	0/0	0/0
21045	7	Eastern Wastewater Treatment	0/0	3	0/0	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	7	0/0	0/0	0/0
21216	9	Churchill Heights Water Reservoir	0/0	1	0/0	0/0	0/0
15781	10	Meter Station, 36 Park Drive	0/0	0	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	10	0/0	0/0	0/0
21056	12	PRV Station, Gault Road	0/0	20	0/0	0/0	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	8	0/0	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	18	0/0	0/0	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	614	0/0	0/0	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	25	0/0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	7	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	3	0/0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	2	0/0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	12	0/0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	6	0/0	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	0/0	2	0/0	0/0	0/0
15281	23	Pump Stn, Line #42 Lakewood	0/0	10	0/0	0/0	-
15509	24	Raw Intake - Latimer Lake	18/1*	622	16/0*	32/0*	6/0*
15667	25	Raw Intake - Spruce Lake	14/1*	790	21/0*	34/0*	19/0*
15725	26	Ryerson Metals, Whiteborne Way	0/0	3	0/0	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	0	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	3	0/0	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	1	0/0	0/0	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	1	0/0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	4	0/0	0/0	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	3	0/0	0/0	0/0
21852	33	Bridge Road	0/0	3	0/0	0/0	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	4	0/0	0/0	0/0
21192	35	Hydrant, 79 Eden Street	0/0	7	0/0	0/0	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	3	0/0	0/0	0/0
-	37	Tourist Information Center	-	-	-	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

April 5, 2018

Report #: G27794-18, Analysis of water sample.

Three samples were submitted for analysis on April 4, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27794-1		Well #1 Southbay Wellfield	0	0
G27794-2		Well #2 Southbay Wellfield	1*	0
G27794-3		Well #3 Southbay Wellfield	0*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

April 12, 2018

Report #: G27871-18, Analysis of water sample.

Three samples were submitted for analysis on April 11, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27871-1		Well #1 Southbay Wellfield	0	0
G27871-2		Well #2 Southbay Wellfield	0	0
G27871-3		Well #3 Southbay Wellfield	0*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollós Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

April 19, 2018

Report #: G27931-18. Analysis of water sample.

Three samples were submitted for analysis on April 18, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

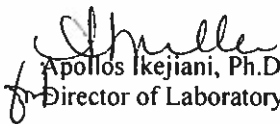
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27931-1		Well #1 Southbay Wellfield	0	0
G27931-2		Well #2 Southbay Wellfield	0	0
G27931-3		Well #3 Southbay Wellfield	11*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

April 26, 2018

Report #: G27986-18, Analysis of water sample.

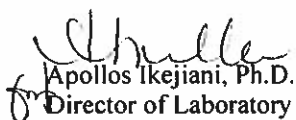
Three samples were submitted for analysis on April 25, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G27986-1		Well #1 Southbay Wellfield	0	0
G27986-2		Well #2 Southbay Wellfield	0	0
G27986-3		Well #3 Southbay Wellfield *Please note: Non-coliform bacteria present.	2*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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## Summary of Water Testing for May 2018

SID	#	Sample Location	Lab ID: G271025-18		G271099-18	G271195-18	G271259-18	G271339-18
			Date: May 1/18		May 8/18	May 15/18	May 22/18	May 29/18
			Parameters:	TC/EC	HPC	TC/EC	TC/EC	TC/EC
15441	1	Carleton Community Center	0/0	2	0/0	0/0	0/0	0/0
15407	2	Centracare, Bay Street	0/0	0	0/0	0/0	0/0	0/0
15087	3	City Works Complex, East	0/0	1	0/0*	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	1	0/0	0/0	0/0	0/0
19363	5	Doirons Sports Excellence	0/0	5	0/0*	0/0*	0/0*	0/0*
15349	6	Fundy Linen, King William Rd.	0/0	8	0/0	0/0*	0/0	0/0*
21045	7	Eastern Wastewater Treatment	0/0	7	0/0	0/0*	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	1	0/0	0/0	0/0	0/0
21216	9	Churchill Heights Water Reservoir	0/0	8	0/0	0/0	0/0	0/0
15781	10	Meter Station, 36 Park Drive	0/0	5	0/0	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	2	0/0	0/0	0/0	0/0
21056	12	PRV Station, Gault Road	0/0	10	0/0	0/0	0/0	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	12	0/0	0/0	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	4	0/0	0/0	0/0	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	107	0/0	0/0*	0/0*	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	5	0/0	0/0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	8	0/0	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	6	0/0	0/0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	2	0/0	0/0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	3	0/0	0/0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	8	0/0	0/0	1/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	0/0	10	0/0	0/0	0/0	0/0
15281	23	Pump Stn, Line #42 Lakewood	6/0	TNTC	0/0	0/0	0/0	0/0
15509	24	Raw Intake - Latimer Lake	31/0*	1064	TNTC/1	26/0*	17/0*	20/0*
15667	25	Raw Intake - Spruce Lake	34/0*	790	63/0*	47/1*	129/1*	55/1*
15725	26	Ryerson Metals, Whiteborne Way	0/0	27	0/0	0/0	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	0	0/0	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	3	0/0	0/0	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	3	0/0	0/0	0/0	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	2	0/0	0/0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	3	0/0	0/0	0/0	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	2	0/0	0/0	0/0	0/0
21852	33	Bridge Road	0/0	1	0/0	0/0	0/0	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	3	0/0	0/0	0/0	0/0
21192	35	Hydrant, 79 Eden Street	0/0	1	0/0	0/0	0/0	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	0	0/0	0/0	0/0	0/0
-	37	Tourist Information Center	-	-	-	-	-	0/0

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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www.sjlabs.ca

City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 3, 2018

Report #: G271044-18, Analysis of water sample.

Three samples were submitted for analysis on May 2, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271044-1		Well #1 Southbay Wellfield	0	0
G271044-2		Well #2 Southbay Wellfield	0	0
G271044-3		Well #3 Southbay Wellfield	35*	0

\*Please note: Non-coliform bacteria present

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 4, 2018

Report #: G271054-18, Analysis of water sample.


One sample was submitted for analysis on May 3, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271054-1	23	Pump Stn., Line 42 Lakewood	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 5, 2018

Report #: G271069-18, Analysis of water sample.

One sample was submitted for analysis on May 4, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271069-1	5	Doiron Sports Excellence	0*	0

\*Please note: Abundant non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 5, 2018

Report #: G271070-18, Analysis of water sample.


One sample was submitted for analysis on May 4, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271070-1	23	Pump Stn., Line 42 Lakewood	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 8, 2018

Report #: G271086-18. Analysis of water sample.


One sample was submitted for analysis on May 7, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271086-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SILS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 10, 2018

Report #: G271121-18, Analysis of water sample.

Three samples were submitted for analysis on May 9, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271121-1		Well #1 Southbay Wellfield	0	0
G271121-2		Well #2 Southbay Wellfield	0	0
G271121-3		Well #3 Southbay Wellfield	1*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejian, Ph.D., MCIC  
for Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 11, 2018

Report #: G271151-18, Analysis of water sample.

One sample was submitted for analysis on May 10, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271151-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 13, 2018

Report #: G271177-18, Analysis of water sample.

One sample was submitted for analysis on May 12, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271177-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 14, 2018

Report #: G271181-18, Analysis of water sample.


One sample was submitted for analysis on May 13, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271181-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 17, 2018

Report #: G271227-18, Analysis of water sample.


Three samples were submitted for analysis on May 16, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271227-1		Well #1 Southbay Wellfield	0	0
G271227-2		Well #2 Southbay Wellfield	0	0
G271227-3		Well #3 Southbay Wellfield	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 18, 2018

Report #: G271242-18, Analysis of water sample.

Two samples were submitted for analysis on May 17, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

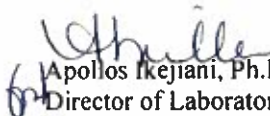
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271242-1	5	Doiron Sports Excellence	0*	0
G271242-2	6	Fundy Linen	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

**Laboratory location:** 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 18, 2018

Report #: G271236-18, Analysis of water sample.


One sample was submitted for analysis on May 17, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271236-1	7	Eastern Wastewater Treatment Facility	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 19, 2018

Report #: G271254-18, Analysis of water sample.

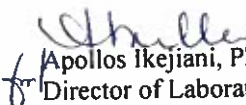
One sample was submitted for analysis on May 18, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271254-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 24, 2018

Report #: G271278-18, Analysis of water sample.


One sample was submitted for analysis on May 23, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271278-1	37	Tourist Bureau *Please note: Non-coliform bacteria present	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 24, 2018

Report #: G271280-18, Analysis of water sample.


Three samples were submitted for analysis on May 23, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271280-1		Well #1 Southbay Wellfield	0	0
G271280-2		Well #2 Southbay Wellfield	0	0
G271280-3		Well #3 Southbay Wellfield	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick. E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 26, 2018

Report #: G271301-18, Analysis of water sample.

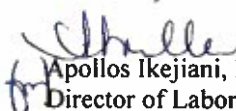
One sample was submitted for analysis on May 25, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271301-1	37	Tourist Bureau	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 26, 2018

Report #: G271306-18, Analysis of water sample.

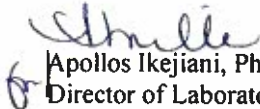
One sample was submitted for analysis on May 25, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271306-1	21	Pump Stn., Line 2 Lakewood	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
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May 25, 2018

Report #: G271293-18, Analysis of water sample.

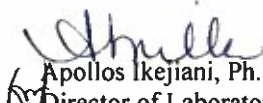
One sample was submitted for analysis on May 24, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271293-1	5	Doiron Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

May 25, 2018

Report #: G271296-18, Analysis of water sample.


One sample was submitted for analysis on May 24, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271296-1	21	Pump Stn., Line 2 Lakewood	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
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May 31, 2018

Report #: G271348-18, Analysis of water sample.


Two samples were submitted for analysis on May 30, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271348-1		Well #1 Southbay Wellfield	0	0
G271348-2		Well #2 Southbay Wellfield	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 1, 2018

Report #: G271370-18, Analysis of water sample.

Three samples were submitted for analysis May 31, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271370-1	5	Doiron Sports Excellence	0	0
G271370-2	6	Fundy Linen	0*	0
G271370-3	12	PRV Station, Gault Road	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for June 2018

SID	#	Sample Location	Lab ID: G271401-18		G271477-18		G271548-18		G271617-18	
			Date: June 5, 2018		June 12/18		June 19/18		June 26/18	
			Parameters: TC/EC		HPC	TC/EC	TC/EC	TC/EC	TC/EC	
15441	1	Carleton Community Center	0/0	7	0/0	0/0	0/0	0/0	0/0	
15407	2	Centracare, Bay Street	0/0	0	0/0	0/0	0/0	0/0	0/0	
15087	3	City Works Complex, East	0/0	2	0/0	0/0	0/0	0/0	0/0	
19965	4	Travelodge Suites, Fairville Blvd.	0/0	5	0/0	0/0	0/0	0/0	0/0	
19363	5	Doirons Sports Excellence	0/0	3	0/0*	0/0*	0/0	0/0	0/0	
15349	6	Fundy Linen, King William Rd.	0/0*	19	0/0	0/0	0/0	0/0*	0/0*	
21045	7	Eastern Wastewater Treatment	0/0	21	0/0	0/0	0/0	0/0	0/0	
19716	8	Jones Variety, 304 Cityline Road	0/0	2	0/0	0/0	0/0	0/0	0/0	
21216	9	Churchill Heights Water Reservoir	0/0	2	0/0	0/0	0/0	0/0	0/0	
15781	10	Meter Station, 36 Park Drive	0/0	1	0/0	0/0	0/0	0/0	0/0	
15872	11	NBCC, 950 Grandview Ave.	0/0	1	0/0	0/0	0/0	0/0	0/0	
21056	12	PRV Station, Gault Road	0/0	1	0/0	0/0	0/0	0/0	0/0	
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	4	0/0	0/0	0/0	0/0	0/0	
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	8	0/0	0/0	0/0	0/0	0/0	
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	660	0/0	0/0	0/0	0/0	0/0	
15145	16	Pump Stn, 147 Highland Road	0/0	18	0/0	0/0	0/0	0/0	0/0	
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	13	0/0	0/0	0/0	0/0	0/0	
17367	18	Pump Stn, 21 Champlain Drive	0/0	2	0/0	0/0	0/0	0/0	0/0	
15747	19	Pump Stn, 399 University Ave.	0/0	0	0/0	0/0	0/0	0/0	0/0	
15645	20	Pump Stn, 510 Somerset Street	0/0	11	0/0	0/0	0/0	0/0	0/0	
15236	21	Pump Stn, Line #2 Lakewood	0/0	5	0/0	0/0	0/0	0/0	0/0	
15269	22	Pump Stn, Line #3 Lakewood	0/0	1	0/0	0/0	0/0	0/0	0/0	
15281	23	Pump Stn, Line #42 Lakewood	0/0	4	0/0	0/0	0/0	0/0	0/0	
15509	24	Raw Intake – Latimer Lake	95/3*	12200	20/0*	7/0*	10/0*	10/0*	10/0*	
15667	25	Raw Intake – Spruce Lake	112/3*	3100	134/2*	89/2*	212/3*	212/3*	212/3*	
15725	26	Ryerson Metals, Whiteborne Way	0/0	2	0/0	0/0	0/0	0/0	0/0	
15543	27	Stand Pipe, 124 Willie Avenue	0/0	2	0/0	0/0	0/0	8/0*	8/0*	
15463	28	Wastewater Treatment Plant	0/0	8	0/0	0/0	0/0	0/0	0/0	
20315	29	Fundy Heights, 658 Dunn Ave	0/0	1	0/0	0/0	0/0	0/0	0/0	
20724	30	Harris & Roome, Charlotte Street	0/0	4	0/0	0/0	0/0	0/0	0/0	
21170	31	Pump Stn, Ocean Drive Treated	0/0	11	0/0	0/0	0/0	0/0	0/0	
21181	32	Pump Stn, Seaward Cres. Treated	0/0	1	0/0	0/0*	0/0	0/0	0/0	
21852	33	Bridge Road	0/0	6	0/0	0/0	0/0	0/0	0/0	
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	15	0/0	0/0	0/0	0/0	0/0	
21192	35	Hydrant, 79 Eden Street	0/0	3	0/0	0/0	0/0	0/0	0/0	
-	36	Spruce Lake House, Ocean Westway	0/0	5	0/0	0/0	0/0	0/0	0/0	
-	37	Tourist Information Center	0/0	4	0/0	0/0	0/0	0/0	0/0	

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 3, 2018

Report #: G271386-18, Analysis of water sample.


One sample was submitted for analysis on June 2, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271386-1	5	Doiron Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 2, 2018

Report #: G271381-18, Analysis of water sample.


One sample was submitted for analysis on June 1, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271381-1	12	PRV, Gault Road	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 7, 2018

Report #: G271434-18, Analysis of water sample.


Three samples were submitted for analysis on June 6, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271434-1		Well #1 Southbay Wellfield	0	0
G271434-2		Well #2 Southbay Wellfield	0	0
G271434-3		Well #3 Southbay Wellfield	1	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 9, 2018

Report #: G271459-18, Analysis of water sample.

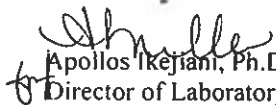
One sample was submitted for analysis on June 8, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271459-1	6	Fundy Linen <small>*Please note: Abundant non-coliform bacteria present.</small>	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 14, 2018

Report #: G271490-18, Analysis of water sample.

Three samples were submitted for analysis on June 13, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271490-1		Well #1 Southbay Wellfield	0	0
G271490-2		Well #2 Southbay Wellfield	0	0
G271490-3		Well #3 Southbay Wellfield	0*	0

\*Please note: Non-coliform bacteria present

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

*Mailing address:*  
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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 15, 2018

Report #: G271510-18, Analysis of water sample.


One sample was submitted for analysis on June 14, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271510-1	5	Doiron Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 16, 2018

Report #: G271532-18, Analysis of water sample.

Three samples were submitted for analysis June 15, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271532-1	31	Pump Stn, Ocean Drive Treated	0	0
G271532-2	34	Hydrant, 132 Aberdeen Avenue	0	0
G271532-3	35	Hydrant, 79 Eden Street	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 17, 2018

Report #: G271535-18, Analysis of water sample.

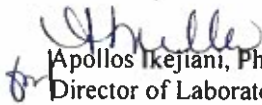
Three samples were submitted for analysis June 16, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271535-1	31	Pump Stn, Ocean Drive Treated	0	0
G271535-2	34	Hydrant, 132 Aberdeen Avenue	0	0
G271535-3	35	Hydrant, 79 Eden Street	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 21, 2018

Report #: G271579-18, Analysis of water sample.


Three samples were submitted for analysis June 20, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271579-1	31	Pump Stn, Ocean Drive Treated	0	0
G271579-2	34	Hydrant, 132 Aberdeen Avenue	0	0
G271579-3	35	Hydrant, 79 Eden Street	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, S.J.L.S makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 21, 2018

Report #: G271566-18, Analysis of water sample.

Three samples were submitted for analysis on June 20, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

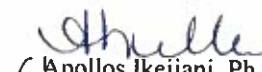
## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271566-1		Well #1 Southbay Wellfield	0	0
G271566-2		Well #2 Southbay Wellfield	0	0
G271566-3		Well #3 Southbay Wellfield	4*	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 22, 2018

Report #: G271594-18, Analysis of water sample.


Four samples were submitted for analysis June 21, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271594-1	31	Pump Stn, Ocean Drive Treated	0	0
G271594-2	32	Pump Stn., Seaward Crescent Treated	0	0
G271594-3	34	Hydrant, 132 Aberdeen Avenue	0	0
G271594-4	35	Hydrant, 79 Eden Street	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 22, 2018

Report #: G271584-18, Analysis of water sample.


One sample was submitted for analysis on June 21, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271584-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided. SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 28, 2018

Report #: G271647-18, Analysis of water sample.


Three samples were submitted for analysis on June 27, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271647-1		Well #1 Southbay Wellfield	0	0
G271647-2		Well #2 Southbay Wellfield	0	0
G271647-3		Well #3 Southbay Wellfield	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 29, 2018

Report #: G271660-18, Analysis of water sample.

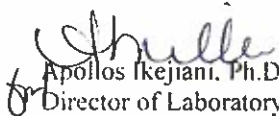
One sample was submitted for analysis on June 28, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271660-1	27	Stand Pipe, Willie Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, S.J.L.S makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 29, 2018

Report #: G271661-18, Analysis of water sample.


One sample was submitted for analysis on June 28, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271661-1	6	Fundy Linen	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, S.J.S makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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**[www.sjlabs.ca](http://www.sjlabs.ca)**

City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

June 30, 2018

Report #: G271679-18, Analysis of water sample.

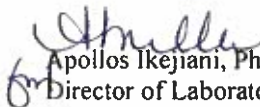
One sample was submitted for analysis on June 29, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271679-1	27	Stand Pipe, 124 Willie Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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## Summary of Water Testing for July 2018

		Lab ID:	G271693-18		G271781-18	G271865-18	G271940-18	G272005-18
		Date:	July 3, 2018		July 10/18	July 17/18	July 24/18	July 31/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location						
15441	1	Carleton Community Center	0/0	3	0/0	0/0	0/0	0/0
15407	2	Centracare, Bay Street	0/0	7	0/0	0/0	0/0	0/0*
15087	3	City Works Complex, East	0/0	9	0/0	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	10	0/0	0/0	0/0	0/0
19363	5	Doirons Sports Excellence	0/0	9	0/0	0/0	0/0	0/0
15349	6	Fundy Linen, King William Rd.	0/0	10	0/0*	0/0	0/0*	16/0*
21045	7	Eastern Wastewater Treatment	0/0	4	0/0	0/0	0/0	1/0
19716	8	Jones Variety, 304 Cityline Road	0/0	12	0/0	0/0	0/0	0/0
21216	9	Churchill Heights Water Reservoir	0/0	4	0/0	0/0	0/0	0/0
15781	10	Meter Station, 36 Park Drive	0/0	15	0/0	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	23	0/0	1/0	0/0	0/0
21056	12	PRV Station, Gault Road	0/0*	4	0/0	0/0	0/0	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	15	0/0	0/0	1/0	0/0*
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	30	0/0	1/0	0/0	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	18	0/0	0/0	0/0	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	18	0/0	0/0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	19	0/0	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	8	0/0	0/0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	5	0/0	0/0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	6	0/0	0/0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	10	0/0	0/0	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	0/0	12	0/0	0/0	0/0	-
15281	23	Pump Stn, Line #42 Lakewood	0/0	11	0/0	0/0	0/0	0/0
15509	24	Raw Intake - Latimer Lake	223/4*	107000	8/0*	TNTC/0	14/0*	96/2*
15667	25	Raw Intake - Spruce Lake	459/6*	3100	102/12*	86/14*	98/6*	82/4*
15725	26	Ryerson Metals, Whiteborne Way	0/0	6	17/0*	0/0	0/0	0/0*
15543	27	Stand Pipe, 124 Willie Avenue	0/0	7	0/0	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	6	0/0	0/0	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	7	0/0	0/0	0/0	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	5	0/0	0/0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	27	0/0	0/0	0/0	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	5	0/0	0/0	0/0	0/0
21852	33	Bridge Road	0/0	187	0/0	0/0	0/0	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	2	0/0	0/0	0/0	0/0
21192	35	Hydrant, 79 Eden Street	0/0	5	0/0	0/0	0/0	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	7	0/0	0/0	0/0	0/0
-	37	Tourist Information Center	0/0	14	0/0	0/0	0/0	0/0

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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www.sjlabs.ca

## Summary of Water Testing for July 2018

		Lab ID:	G271726-18	G271817-18	G271896-18	G271947-18	G272008-18
		Date:	July 4/18	July 12/18	July 18/18	July 24/18	July 31/18
		Parameters:	TC/EC	TC/EC	HPC	TC/EC	TC/EC
SID	#	Sample Location					
25343	W1	Southbay Wellfield, Well #1	0/0	0/0	714	0/0	0/0
25354	W2	Southbay Wellfield, Well #2	0/0	0/0	28	0/0	25/0*
25365	W3	Southbay Wellfield, Well #3	0/0	0/0*	TNTC	7/0	0/0

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

July 6, 2018

Report #: G271752-18, Analysis of water sample.

One sample was submitted for analysis on July 5, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271752-1	12	PRV Station, Gault Road	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

July 13, 2018

Report #: G271831-18, Analysis of water sample.


One sample was submitted for analysis on July 12, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271831-1	6	Fundy Linen *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
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July 13, 2018

Report #: G271830-18, Analysis of water sample.


One sample was submitted for analysis on July 12, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271830-1	26	Ryerson Metals	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

July 15, 2018

Report #: G271853-18, Analysis of water sample.


One sample was submitted for analysis on July 14, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271853-1	6	Fundy Linen *Please note: Non-coliiform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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Saint John, New Brunswick  
E2L 4L1

July 14, 2018

Report #: G271849-18, Analysis of water sample.


One sample was submitted for analysis on July 13, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271849-1	26	Ryerson Metals	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollis Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

July 20, 2018

Report #: G271916-18, Analysis of water sample.


One sample was submitted for analysis on July 19, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271916-1	11	NBCC, Grandview Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
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July 21, 2018

Report #: G271930-18, Analysis of water sample.


One sample was submitted for analysis on July 20, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271930-1	11	NBCC, Grandview Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

July 27, 2018

Report #: G271976-18, Analysis of water sample.


One sample was submitted for analysis on July 26, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271976-1	6	Fundy Linen	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
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July 27, 2018

Report #: G271983-18, Analysis of water sample.


One sample was submitted for analysis on July 26, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271983-1	13	PRV Chamber, Kenn Drive <small>*Please note: Non-coliform bacteria present.</small>	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

July 28, 2018

Report #: G271988-18, Analysis of water sample.

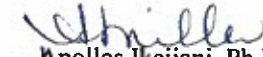
One sample was submitted for analysis on July 27, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G271987-1	13	PRV Chamber, Kenn Drive	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
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July 29, 2018

Report #: G272000-18, Analysis of water sample.


One sample was submitted for analysis on July 28, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272000-1	13	PRV Chamber, Kenn Drive	3	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for August 2018

SID	#	Sample Location	Lab ID: G272083-18		G272149-18		G272254-18	G272342-18	G272391-18
			Date: Aug 7/18		Aug 14/18		Aug 21/18	Aug 28/18	Aug 31/18
			Parameters:	TC/EC	HPC	TC/EC	HPC	TC/EC	TC/EC
15441	1	Carleton Community Center	0/0	4	0/0	-	0/0	0/0	-
15407	2	Centracare, Bay Street	0/0	6	0/0	-	0/0	0/0	-
15087	3	City Works Complex, East	0/0	3	0/0	-	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	0	0/0	-	0/0	0/0	-
19363	5	Doirons Sports Excellence	0/0	10	0/0	-	0/0	0/0*	-
15349	6	Fundy Linen, King William Rd.	0/0	4	0/0	-	0/0	0/0*	-
21045	7	Eastern Wastewater Treatment	0/0	0	0/0	-	0/0	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	5	0/0	-	0/0	0/0	-
21216	9	Churchill Heights Water Reservoir	0/0	15	0/0	-	0/0	0/0	-
15781	10	Meter Station, 36 Park Drive	0/0	3	0/0	-	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	-	-	0/0	5	0/0	0/0*	0/0
21056	12	PRV Station, Gault Road	0/0	2	0/0	-	0/0	0/0	-
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	1	0/0	-	0/0	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	112	0/0	-	0/0	0/0	-
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	36	0/0	-	0/0	0/0	-
15145	16	Pump Stn, 147 Highland Road	0/0	1	0/0	-	0/0*	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	5	0/0	-	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	128	0/0	-	0/0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0*	28	0/0	-	0/0	0/0*	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	6	0/0	-	0/0*	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	1	0/0	-	-	-	-
15269	22	Pump Stn, Line #3 Lakewood	-	-	-	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	0/0	12	0/0	-	0/0	0/0	0/0
15509	24	Raw Intake - Latimer Lake	628/4	12800	264/2*	-	32/2*	82/2*	-
15667	25	Raw Intake - Spruce Lake	118/4	3800	1028/4*	-	1564/8*	1126/4*	-
15725	26	Ryerson Metals, Whiteborne Way	1/0*	140	8/0*	-	8/0*	0/0	0/0*
15543	27	Stand Pipe, 124 Willie Avenue	0/0	348	0/0*	-	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0*	44	0/0	-	0/0*	0/0*	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	5	0/0	-	0/0	0/0	-
20724	30	Harris & Roome, Charlotte Street	0/0	1	0/0	-	0/0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	4	0/0	-	0/0	0/0	-
21181	32	Pump Stn, Seaward Cres. Treated	0/0	2	0/0	-	0/0	0/0	-
21852	33	Bridge Road	0/0	163	0/0	-	0/0	0/0	-
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	3	0/0	-	0/0	0/0	-
21192	35	Hydrant, 79 Eden Street	0/0	32	0/0	-	0/0	0/0	-
-	36	Spruce Lake House, Ocean Westway	0/0	5	0/0	-	0/0	0/0	-
-	37	Tourist Information Center	0/0	2	0/0	-	0/0	0/0	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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## Summary of Water Testing for August 2018

		Lab ID:	G272085-18	G272170-18	G272254-18	G272345-18
		Date:	August 7, 2018	August 14/18	August 21/18	August 28/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC
SID	#	Sample Location				
25343	W1	Southbay Wellfield, Well #1	0/0	17	0/0	0/0
25354	W2	Southbay Wellfield, Well #2	0/0	16	0/0	0/0
25365	W3	Southbay Wellfield, Well #3	4/0*	159	1/0	0/0

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

August 2, 2018

Report #: G272041-18, Analysis of water sample.

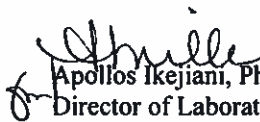
One sample was submitted for analysis on August 1, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272041-1	13	PRV Chamber, Kenn Drive	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollon Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

August 3, 2018

Report #: G272050-18, Analysis of water sample.

Five samples were submitted for analysis August 2, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272050-1	3	Centracare	0	0
G272050-2	6	Fundy Linen	0	0
G272050-3	7	Eastern WWTP	0	0
G272050-4	13	PRV Chamber, Kenn Drive	0	0
G272050-5	26	Ryerson Metals	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
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August 4, 2018

Report #: G272061-18, Analysis of water sample.


Two samples were submitted for analysis August 3, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272061-1	6	Fundy Linen	0	0
G272061-2	7	Eastern WWTP	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollós Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
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August 10, 2018

Report #: G272122-18, Analysis of water sample.


Three samples were submitted for analysis August 9, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272122-1	19	Pump Stn., University Avenue	0	0
G272122-2	26	Ryerson Metals	0	0
G272122-3	28	WWTP, Woodward Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

August 11, 2018

Report #: G272133-18, Analysis of water sample.


One sample was submitted for analysis on August 10, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272133-1	26	Ryerson Metals	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

August 17, 2018

Report #: G272200-18, Analysis of water sample.


Two samples were submitted for analysis August 16, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272200-1	26	Ryerson Metals	0	0
G272200-2	27	Stand Pipe, Willie Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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E2L 4L1

August 18, 2018

Report #: G272217-18, Analysis of water sample.


One sample was submitted for analysis on August 17, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272217-1	26	Ryerson Metals	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

August 24, 2018

Report #: G272303-18, Analysis of water sample.

Four samples were submitted for analysis August 23, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272303-1	16	Pump Station, Highland Road	0	0
G272303-2	20	Pump Station, Somerset Street	0	0
G272303-3	26	Ryerson Metals	0	0
G272303-4	28	WWTP, Woodward Avenue	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

August 25, 2018

Report #: G272322-18, Analysis of water sample.

One sample was submitted for analysis on August 24, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272322-1	26	Ryerson Metals	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

August 31, 2018

Report #: G272383-18, Analysis of water sample.

Five samples were submitted for analysis August 30, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272383-1	5	Doiron Sports Excellence	0*	0
G272383-2	6	Fundy Linen	0	0
G272383-3	11	NBCC	0	0
G272383-4	19	Pump Stn., University Avenue	0	0
G272383-5	28	WWTP, Woodward Avenue	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for September 2018

		Lab ID:	G272410-18		G272462-18	G272485-18	G272493-18	G272568-18
		Date:	Sept 4/18		Sept 7/18	Sept 10/18	Sept 11/18	Sept 14/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location						
15441	1	Carleton Community Center	0/0*	213	-	-	0/0	-
15407	2	Centracare, Bay Street	0/0*	111	-	-	0/0	-
15087	3	City Works Complex, East	0/0	3	0/0	-	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0*	326	-	-	0/0	-
19363	5	Doirons Sports Excellence	0/0*	119	-	-	0/0	-
15349	6	Fundy Linen, King William Rd.	0/0	8	-	-	0/0	-
21045	7	Eastern Wastewater Treatment	0/0*	123	0/0	-	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	31	-	-	0/0	-
21216	9	Churchill Heights Water Reservoir	0/0	8	-	-	0/0	-
15781	10	Meter Station, 36 Park Drive	0/0	11	0/0	-	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	13	0/0	-	0/0	0/0
21056	12	PRV Station, Gault Road	0/0	13	-	-	0/0	-
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	20	0/0	0/0	-	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	14	-	-	0/0	-
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	28	-	-	0/0	-
15145	16	Pump Stn, 147 Highland Road	0/0*	148	0/0	0/0	-	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	18	0/0	-	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	14	0/0	-	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	14	0/0	-	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	17	0/0	-	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	-	-	-	-	-	-
15269	22	Pump Stn, Line #3 Lakewood	-	-	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	0/0	128	0/0	0/0	-	0/0
15509	24	Raw Intake – Latimer Lake	1178/0*	5250	-	-	20/0*	-
15667	25	Raw Intake – Spruce Lake	1588/4*	5550	-	-	798/3*	-
15725	26	Ryerson Metals, Whiteborne Way	0/0*	259	0/0	-	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	21	0/0	-	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0*	125	0/0	-	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	2	-	-	0/0	-
20724	30	Harris & Roome, Charlotte Street	0/0*	105	0/0	-	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	2	-	-	0/0	-
21181	32	Pump Stn, Seaward Cres. Treated	0/0	5	-	-	0/0	-
21852	33	Bridge Road	0/0	143	-	0/0	-	-
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	3	-	0/0	-	-
21192	35	Hydrant, 79 Eden Street	0/0	5	-	0/0	-	-
-	36	Spruce Lake House, Ocean Westway	0/0	7	-	-	0/0	-
-	37	Tourist Information Center	0/0	2	-	-	0/0	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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E2M 4E3

		Lab ID:	G272588-18	G272646-18	G272662-18	G272699-18	G272738-18
		Date:	Sept 18/18	Sept 21/18	Sept 25/18	Sept 26/18	Sept 28/18
		Parameters:	TC/EC	TC/EC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location					
15441	1	Carleton Community Center	0/0	-	0/0	-	-
15407	2	Centracare, Bay Street	0/0	-	-	0/0	-
15087	3	City Works Complex, East	0/0	0/0	0/0	-	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	-	-	0/0	-
19363	5	Doirons Sports Excellence	0/0	-	0/0	-	-
15349	6	Fundy Linen, King William Rd.	0/0	-	-	0/0	-
21045	7	Eastern Wastewater Treatment	0/0	0/0	0/0	-	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	-	0/0	-	-
21216	9	Churchill Heights Water Reservoir	0/0	-	0/0	-	-
15781	10	Meter Station, 36 Park Drive	0/0	0/0	0/0	-	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	0/0	0/0	-	0/0
21056	12	PRV Station, Gault Road	0/0	-	-	0/0	-
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	0/0	0/0	-	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	-	0/0	-	-
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	-	0/0	-	-
15145	16	Pump Stn, 147 Highland Road	0/0	0/0	0/0	-	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	0/0	0/0	-	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	0/0	0/0	-	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	0/0	0/0	-	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	0/0	0/0	-	0/0
15236	21	Pump Stn, Line #2 Lakewood	-	-	-	-	-
15269	22	Pump Stn, Line #3 Lakewood	-	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	0/0	0/0	-	-	0/0
15509	24	Raw Intake – Latimer Lake	5/0*	-	20/0*	-	-
15667	25	Raw Intake – Spruce Lake	748/3*	-	1066/2*	-	-
15725	26	Ryerson Metals, Whiteborne Way	0/0	0/0	0/0	-	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	0/0	0/0	-	0/0
15463	28	Wastewater Treatment Plant	0/0	0/0	0/0	-	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	-	0/0	-	-
20724	30	Harris & Roome, Charlotte Street	0/0	0/0	0/0	-	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	-	0/0	-	-
21181	32	Pump Stn, Seaward Cres. Treated	0/0	-	0/0	-	-
21852	33	Bridge Road	0/0	-	0/0	-	-
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	-	0/0	-	-
21192	35	Hydrant, 79 Eden Street	0/0	-	0/0	-	-
-	36	Spruce Lake House, Ocean Westway	0/0	-	0/0	-	-
-	37	Tourist Information Center	0/0	-	0/0	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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[www.sjlabs.ca](http://www.sjlabs.ca)

## Summary of Water Testing for September 2018

		Lab ID:	G272410-18	G272493-18	G272588-18	G272662-18
		Date:	Sept 4/18	Sept 11/18	Sept 18/18	Sept 25/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC
SID	#	Sample Location				
25343	W1	Southbay Wellfield, Well #1	0/0	6	0/0	0/0
25354	W2	Southbay Wellfield, Well #2	0/0	9	0/0	0/0
25365	W3	Southbay Wellfield, Well #3	0/0	396	0/0	0/0

Note: TNTC-too numerous to count      – not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

September 2, 2018

Report #: G272406-18, Analysis of water sample.


One sample was submitted for analysis on September 1, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272406-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

September 7, 2018

Report #: G272453-18, Analysis of water sample.

Ten samples were submitted for analysis September 6, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.


## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272453-1	1	Carleton Community Center	0	0
G272453-2	2	Centracare	0	0
G272453-3	4	Travelodge Suites	0	0
G272453-4	5	Doiron Sports Excellence	1*	0
G272453-5	7	Eastern WWTP	0	0
G272453-6	16	Pump Stn., Highland Road	0	0
G272453-7	26	Ryerson Metals	0	0
G272453-8	28	WWTP, Woodward Avenue	0	0
G272453-9	30	Harris & Roome	0	0
G272453-10	33	Zone – Bridge Road	0	0

\*Please note: Non-coliform bacteria present.

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



# Saint John Laboratory Services Ltd.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

September 9, 2018

Report #: G272476-18, Analysis of water sample.


One sample was submitted for analysis on September 8, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272476-1	5	Doiron Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

September 10, 2018

Report #: G272480-18, Analysis of water sample.


One sample was submitted for analysis on September 9, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272480-1	5	Doiron Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

September 14, 2018

Report #: G272558-18, Analysis of water sample.


One sample was submitted for analysis on September 13, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272558-1	6	Fundy Linen	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

September 28, 2018

Report #: G272723-18, Analysis of water sample.


One sample was submitted for analysis September 27, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272723-1	21	Pump Stn., Line 2 Lakewood	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for October 2018

		Lab ID:	G272772-18	G272823-18	G272836-18	G272890-18	G272911-18
		Date:	October 2/18	October 5/18	October 9/18	October 12/18	October 16/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location					
15441	1	Carleton Community Center	0/0	0	-	0/0	0/0
15407	2	Centracare, Bay Street	0/0	159	-	0/0	0/0
15087	3	City Works Complex, East	0/0	0	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	7	-	0/0	0/0
19363	5	Doirons Sports Excellence	0/0	3	-	0/0*	0/0
15349	6	Fundy Linen, King William Rd.	0/0	1	-	0/0	0/0
21045	7	Eastern Wastewater Treatment	0/0	2	0/0	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	0	-	0/0	0/0
21216	9	Churchill Heights Water Reservoir	0/0	1	-	0/0	0/0
15781	10	Meter Station, 36 Park Drive	0/0	1	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	1	0/0	0/0	0/0
21056	12	PRV Station, Gault Road	0/0	0	-	0/0	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	2	0/0	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	4	-	0/0	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	13	-	0/0	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	1	0/0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	0	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	1	0/0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	3	0/0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	1	0/0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	3	0/0	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	-	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	-	-	-	-	-
15509	24	Raw Intake - Latimer Lake	33/2*	2050	-	39/0*	64/3*
15667	25	Raw Intake - Spruce Lake	880/5*	3050	-	602/5*	338/10*
15725	26	Ryerson Metals, Whiteborne Way	0/0	106	0/0	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	2	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	0	0/0	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	104	-	0/0	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	1	0/0	0/0	-
21170	31	Pump Stn, Ocean Drive Treated	0/0	3	-	0/0	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	1	-	0/0	0/0
21852	33	Bridge Road	0/0	188	-	0/0	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	4	-	0/0	0/0
21192	35	Hydrant, 79 Eden Street	0/0	18	-	0/0	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	0	-	0/0	0/0
-	37	Tourist Information Center	0/0	2	-	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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www.sjls.ca

## Summary of Water Testing for October 2018

		Lab ID:	G272967-18	G272980-18	G273045-18	G273063-18
		Date:	October 19/18	October 23/18	October 26/18	October 30/18
		Parameters:	TC/EC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location				
15441	1	Carleton Community Center	-	0/0	-	0/0
15407	2	Centracare, Bay Street	-	0/0	-	0/0
15087	3	City Works Complex, East	0/0	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	-	0/0	-	0/0
19363	5	Doirons Sports Excellence	-	0/0	-	0/0*
15349	6	Fundy Linen, King William Rd.	-	0/0	-	0/0
21045	7	Eastern Wastewater Treatment	0/0	0/0	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	-	0/0	-	0/0
21216	9	Churchill Heights Water Reservoir	-	0/0	-	0/0
15781	10	Meter Station, 36 Park Drive	0/0	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	0/0	0/0	0/0
21056	12	PRV Station, Gault Road	-	0/0	-	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	0/0	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	-	0/0	-	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	-	0/0	-	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	0/0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	0/0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	0/0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	0/0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	0/0	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	-	-	-	-
15509	24	Raw Intake - Latimer Lake	-	71/2*	-	119/1*
15667	25	Raw Intake - Spruce Lake	-	268/8*	-	198/16*
15725	26	Ryerson Metals, Whiteborne Way	0/0	0/0	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	0/0	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	-	0/0	-	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	-	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	-	0/0	-	0/0
21181	32	Pump Stn, Seaward Cres. Treated	-	0/0	-	0/0
21852	33	Bridge Road	-	0/0	-	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	-	0/0	-	0/0
21192	35	Hydrant, 79 Eden Street	-	0/0	-	0/0
-	36	Spruce Lake House, Ocean Westway	-	0/0	-	0/0
-	37	Tourist Information Center	-	-	-	-

Note: TNTC-too numerous to count - not available \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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[www.sjlabs.ca](http://www.sjlabs.ca)

## Summary of Water Testing for October 2018

		Lab ID:	G272772-18	G272836-18	G272911-18	G272980-18	G273063-18
		Date:	October 2/18	October 9/18	October 16/18	October 23/18	October 30/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location					
25343	W1	Southbay Wellfield, Well #1	0/0	704	0/0	0/0	0/0
25354	W2	Southbay Wellfield, Well #2	2/0	396	0/0	1/0	0/0
25365	W3	Southbay Wellfield, Well #3	1/0	1232	3/0	0/0	4/0

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

October 12, 2018

Report #: G272883-18, Analysis of water sample.

One sample was submitted for analysis October 11, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272883-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	1*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

October 14, 2018

Report #: G272898-18, Analysis of water sample.


One sample was submitted for analysis October 13, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272898-1	5	Doiron Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

October 15, 2018

Report #: G272901-18, Analysis of water sample.


One sample was submitted for analysis October 14, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272901-1	1	Carleton Community Center	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Irejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

October 16, 2018

Report #: G272909-18, Analysis of water sample.


One sample was submitted for analysis October 15, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G272909-1	5	Doiron Sports Excellence	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
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October 25, 2018

Report #: G273016-18, Analysis of water sample.


One sample was submitted for analysis October 24, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G273016-1	30	Harris & Roome	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollis Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

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## Summary of Water Testing for November 2018

		Lab ID:	G273121-18	G273135-18	G273198-18	G273219-18	
		Date:	Nov 2/18	Nov 6/18	Nov 9/18	Nov 13/18	
		Parameters:	TC/EC	TC/EC HPC	TC/EC	TC/EC	
SID	#	Sample Location					
15441	1	Carleton Community Center	-	0/0	2	-	0/0
15407	2	Centracare, Bay Street	-	0/0	132	-	0/0
15087	3	City Works Complex, East	0/0	0/0	2	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	-	0/0	9	-	0/0
19363	5	Doirons Sports Excellence	-	0/0	0	-	0/0
15349	6	Fundy Linen, King William Rd.	-	0/0	1	-	0/0
21045	7	Eastern Wastewater Treatment	0/0	0/0	3	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	-	0/0	0	-	0/0
21216	9	Churchill Heights Water Reservoir	-	0/0	1	-	0/0
15781	10	Meter Station, 36 Park Drive	0/0	0/0	1	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	0/0	1	0/0	0/0
21056	12	PRV Station, Gault Road	-	0/0	0	-	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	0/0	2	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	-	0/0	2	-	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	-	0/0	209	-	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	0/0	1	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	0/0	2	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	0/0	0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	0/0	0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	0/0	0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	0/0	3	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	-	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	-	-	-	-	-
15509	24	Raw Intake – Latimer Lake	-	101/1*	3850	-	104/0*
15667	25	Raw Intake – Spruce Lake	-	146/4*	2901	-	190/6*
15725	26	Ryerson Metals, Whiteborne Way	0/0	0/0	13	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	0/0	1	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	0/0	1	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	-	0/0	43	-	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	0/0	0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	-	0/0	1	-	0/0
21181	32	Pump Stn, Seaward Cres. Treated	-	0/0	1	-	0/0
21852	33	Bridge Road	-	0/0	333	-	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	-	0/0	2	-	0/0
21192	35	Hydrant, 79 Eden Street	-	0/0	0	-	0/0
-	36	Spruce Lake House, Ocean Westway	-	0/0	0	-	0/0
-	37	Tourist Information Center	-	-	-	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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SID	#	Sample Location	Lab ID:	G273256-18	G273267-18	G273314-18	G273331-18	G273374-18
			Date:	Nov 16/18	Nov 20/18	Nov 23/18	Nov 27/18	Nov 30/18
			Parameters:	TC/EC	TC/EC	TC/EC	TC/EC	TC/EC
15441	1	Carleton Community Center		-	0/0	-	0/0	-
15407	2	Centracare, Bay Street		-	0/0	-	0/0	-
15087	3	City Works Complex, East		0/0	0/0	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.		-	0/0	-	0/0	-
19363	5	Doirons Sports Excellence		-	0/0	-	0/0	-
15349	6	Fundy Linen, King William Rd.		-	0/0	-	0/0	-
21045	7	Eastern Wastewater Treatment		0/0	0/0	0/0	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road		-	0/0	-	0/0	-
21216	9	Churchill Heights Water Reservoir		-	0/0	-	0/0	-
15781	10	Meter Station, 36 Park Drive		0/0	0/0	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.		0/0	0/0	0/0	0/0	0/0
21056	12	PRV Station, Gault Road		-	0/0	-	0/0	-
18359	13	PRV Chamber, 1240 Kennebecasis		0/0	0/0	0/0	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive		-	0/0	-	0/0	-
15521	15	Raw - Pump Stn, 14 Seaward Cres.		-	0/0	-	0/0	-
15145	16	Pump Stn, 147 Highland Road		0/0	0/0	0/0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.		0/0	0/0	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive		0/0	0/0	0/0	0/0	0/0
15747	19	Pump Stn, 399 University Ave.		0/0	0/0	0/0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street		0/0	0/0	0/0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood		0/0	0/0	0/0	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood		-	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood		-	-	-	-	-
15509	24	Raw Intake - Latimer Lake		-	30/0*	-	57/0*	-
15667	25	Raw Intake - Spruce Lake		-	156/8*	-	75/6*	-
15725	26	Ryerson Metals, Whiteborne Way		0/0	0/0	0/0	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue		0/0	0/0	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant		0/0	0/0	0/0	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave		-	0/0	-	0/0	-
20724	30	Harris & Roome, Charlotte Street		0/0	0/0	0/0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated		-	0/0	-	0/0	-
21181	32	Pump Stn, Seaward Cres. Treated		-	0/0	-	0/0	-
21852	33	Bridge Road		-	0/0	-	0/0	-
21205	34	Hydrant, 132 Aberdeen Avenue		-	0/0	-	-	-
21192	35	Hydrant, 79 Eden Street		-	0/0	-	-	-
-	36	Spruce Lake House, Ocean Westway		-	0/0	-	0/0	-
-	37	Tourist Information Center		-	-	-	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

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Summary of Water Testing for November 2018

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		Lab ID:	G273135-18		G273233-18	G273267-18	G272980-18
		Date:	November 6/18		November 14/18	November 20/18	November 27/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC	TC/EC
SID	#	Sample Location					
25343	W1	Southbay Wellfield, Well #1	0/0	262	0/0	0/0	0/0
25354	W2	Southbay Wellfield, Well #2	0/0	24	0/0	0/0	0/0
25365	W3	Southbay Wellfield, Well #3	0/0	611	1/0	0/0	0/0

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

November 2, 2018

Report #: G273098-18, Analysis of water sample.


One sample was submitted for analysis November 1, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G273098-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8



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City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

November 4, 2018

Report #: G273128-18, Analysis of water sample.

One sample was submitted for analysis November 3, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G273128-1	5	Doiron Sports Excellence *Please note: Non-coliform bacteria present.	0*	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

*Mailing address:*  
P.O. Box 931  
Saint John, New Brunswick  
E2L 4E3

Tel: (506) 635-4938  
Fax: (506) 672-8000  
E-mail: [sjls@nb.aibn.com](mailto:sjls@nb.aibn.com)  
[www.sjlabs.ca](http://www.sjlabs.ca)

City of Saint John  
P.O. Box 1971  
Saint John, New Brunswick  
E2L 4L1

November 29, 2018

Report #: G273345-18, Analysis of water sample.

Two samples were submitted for analysis November 28, 2018. Tests for Total Coliforms and E. coli were performed. Please see below.

## RESULTS

Lab ID	CSJ #	Sample Identification	Total Coliforms cfu/100mL	E. coli cfu/100mL
G273345-1	34	Sampling Hydrant, Aberdeen Avenue	0	0
G273345-2	35	Sampling Hydrant, Eden Street	0	0

If you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

  
Apollos Ikejiani, Ph.D., MCIC  
Director of Laboratory Services

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

*Laboratory location:* 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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## Summary of Water Testing for December 2018

		Lab ID:	G273407-18	G273468-18	G273482-18	G273468-18
		Date:	Dec 4/18	Dec 7/18	Dec 11/18	Dec 14/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC
SID	#	Sample Location				
15441	1	Carleton Community Center	0/0	0	-	0/0
15407	2	Centracare, Bay Street	0/0	93	-	0/0
15087	3	City Works Complex, East	0/0	0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	3	-	0/0
19363	5	Doirons Sports Excellence	0/0	11	-	0/0
15349	6	Fundy Linen, King William Rd.	0/0	10	-	0/0
21045	7	Eastern Wastewater Treatment	0/0	4	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	6	-	0/0
21216	9	Churchill Heights Water Reservoir	0/0	32	-	0/0
15781	10	Meter Station, 36 Park Drive	0/0	3	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	37	0/0	0/0
21056	12	PRV Station, Gault Road	0/0	15	-	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	11	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	17	-	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	TNTC	-	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	31	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	57	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	154	0/0	0/0
15747	19	Pump Stn, 399 University Ave.	0/0	2	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	1	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	-	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	-	-	-	-
15509	24	Raw Intake – Latimer Lake	69/1*	2800	-	47/0*
15667	25	Raw Intake – Spruce Lake	70/1*	2350	-	81/0*
15725	26	Ryerson Metals, Whiteborne Way	0/0	1	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	2	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	14	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	21	-	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	0	-	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	1	-	0/0
21852	33	Bridge Road	0/0	3	-	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	0	-	0/0
21192	35	Hydrant, 79 Eden Street	0/0	4	-	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	3	-	0/0
-	37	Tourist Information Center	-	-	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided. SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

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[www.sjls.ca](http://www.sjls.ca)

		Lab ID:	G273542-18	G273571-18	G273575-18
		Date:	Dec 18/18	Dec 20/18	Dec 27/18
		Parameters:	TC/EC	TC/EC	TC/EC
SID	#	Sample Location			
15441	1	Carleton Community Center	0/0	-	0/0
15407	2	Centracare, Bay Street	0/0	-	0/0
15087	3	City Works Complex, East	0/0	0/0	0/0
19965	4	Travelodge Suites, Fairville Blvd.	0/0	-	0/0
19363	5	Doirons Sports Excellence	0/0	-	0/0*
15349	6	Fundy Linen, King William Rd.	0/0	-	0/0
21045	7	Eastern Wastewater Treatment	0/0	0/0	0/0
19716	8	Jones Variety, 304 Cityline Road	0/0	-	0/0
21216	9	Churchill Heights Water Reservoir	0/0	-	0/0
15781	10	Meter Station, 36 Park Drive	0/0	0/0	0/0
15872	11	NBCC, 950 Grandview Ave.	0/0	0/0	0/0*
21056	12	PRV Station, Gault Road	0/0	-	0/0
18359	13	PRV Chamber, 1240 Kennebecasis	0/0	0/0	0/0
15805	14	Raw - Pump Stn, 103 Ocean Drive	0/0	-	0/0
15521	15	Raw - Pump Stn, 14 Seaward Cres.	0/0	-	0/0
15145	16	Pump Stn, 147 Highland Road	0/0	0/0	0/0
15112	17	Pump Stn, 200 Golden Grove Rd.	0/0	0/0	0/0
17367	18	Pump Stn, 21 Champlain Drive	0/0	0/0	0/0*
15747	19	Pump Stn, 399 University Ave.	0/0	0/0	0/0
15645	20	Pump Stn, 510 Somerset Street	0/0	0/0	0/0
15236	21	Pump Stn, Line #2 Lakewood	0/0	0/0	0/0
15269	22	Pump Stn, Line #3 Lakewood	-	-	-
15281	23	Pump Stn, Line #42 Lakewood	-	-	-
15509	24	Raw Intake – Latimer Lake	35/0*	-	46/3*
15667	25	Raw Intake – Spruce Lake	62/1*	-	308/5*
15725	26	Ryerson Metals, Whiteborne Way	0/0	0/0	0/0
15543	27	Stand Pipe, 124 Willie Avenue	0/0	0/0	0/0
15463	28	Wastewater Treatment Plant	0/0	0/0	0/0
20315	29	Fundy Heights, 658 Dunn Ave	0/0	-	0/0
20724	30	Harris & Roome, Charlotte Street	0/0	0/0	0/0
21170	31	Pump Stn, Ocean Drive Treated	0/0	-	0/0
21181	32	Pump Stn, Seaward Cres. Treated	0/0	-	0/0
21852	33	Bridge Road	0/0	-	0/0
21205	34	Hydrant, 132 Aberdeen Avenue	0/0	-	0/0
21192	35	Hydrant, 79 Eden Street	0/0	-	0/0
-	36	Spruce Lake House, Ocean Westway	0/0	-	0/0
-	37	Tourist Information Center	-	-	-

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

Laboratory location: 1216 Sand Cove Road, Saint John, New Brunswick, E2M 5V8

# Saint John Laboratory Services Ltd.

Environmental, Chemical & Microbiological Services, Research & Development

Mailing address:  
P.O. Box 931  
Saint John, New Brunswick  
E2L 4E3

## Summary of Water Testing for December 2018

Tel: (506) 635-4938  
Fax: (506) 672-8000  
E-mail: [sjls@nb.aibn.com](mailto:sjls@nb.aibn.com)  
[www.sjlabs.ca](http://www.sjlabs.ca)

		Lab ID:	G273407-18	G273482-18	G273542-18	G273575-18
		Date:	Dec 4/18	Dec 11/18	Dec 18/18	Dec 27/18
		Parameters:	TC/EC	HPC	TC/EC	TC/EC
SID	#	Sample Location				
25343	W1	Southbay Wellfield, Well #1	0/0	130	0/0	0/0
25354	W2	Southbay Wellfield, Well #2	0/0	21	0/0	0/0
25365	W3	Southbay Wellfield, Well #3	4/0	TNTC	2/0	0/0*

Note: TNTC-too numerous to count      - not available      \*non-coliform bacteria present

Except for the quality of test result provided, SJLS makes no other claims as to the integrity of the sample submitted.

## Appendix E

Certificate of Approval to Operate  
Water Sampling Plan with Map  
ACE Review



## APPROVAL TO OPERATE

### W-1510

Pursuant to paragraph 8(1) of the *Water Quality Regulation - Clean Environment Act*, this Approval to Operate is hereby issued to:

**The City of Saint John**  
for the operation of the  
**Drinking water Treatment and Distribution System**

Description of operation: **The City of Saint John Drinking Water Distribution & Treatment System**

Type of Source: **Surface water and groundwater**

Operation Classification: **Class III WD      Class II WT**

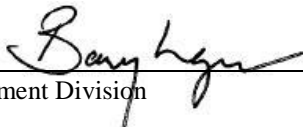
Mailing Address: **P.O. Box 1971  
Market Square  
Saint John, NB E2L 4L1**

Conditions of Approval: **See Schedule "A" of this Approval**

Supersedes Approval: **W-1332**

Valid From: **September 07, 2017**

Valid To: **September 06, 2022**

Recommended by:   
Environment Division

Issued by:   
for the Minister of Environment and Local Government

September 7, 2017  
Date

## SCHEDULE "A"

### A. DEFINITIONS

"**Accredited**" means accreditation to ISO/IEC 17025 by the Standards Council of Canada (SCC), the Canadian Association for Laboratory Accreditation Inc. (CALA), or accreditation to ISO/IEC 17025 from another body that is recognized to grant such accreditation per ISO/IEC 17011 criteria, subject to approval by the *Director*.

"**Approval Holder**" means the entity to which this Approval is issued, as named on the Certificate page of this Approval.

"**Certified**" means a valid certificate of qualification that states the class of the *Operator* issued by the Minister of the New Brunswick Department of Post-Secondary Education, Training and Labour.

"**Department**" means the New Brunswick Department of Environment and Local Government.

"**Director**" means the Director of the Impact Management Branch of the *Department* and includes any person designated to act on behalf of the *Director*.

"**Water Treatment Facilities**" means water treatment unit as defined in the *Water Quality Regulation 82-126*.

"**Operator**" means a person who directs, adjusts, inspects, tests or evaluates an operation or process that controls the effectiveness or efficiency of the waterworks.

"**Operator in Charge**" means direct responsibility designated by the *Approval Holder* for the overall operation and/or repair and/or maintenance of the waterworks.

"**Trained**" means a person who has successfully completed training as described in the Operation & Maintenance section of this Approval.

### B. GENERAL INFORMATION

1. This Certificate of Approval does not relieve the *Approval Holder* from compliance with other bylaws, federal or provincial acts or regulations, or any guidelines or directives pursuant to regulations.



**C. TERMS AND CONDITIONS - SOURCE**

2. The *Approval Holder* shall ensure that operational pumping rate(s) and maximum daily pumping time (if applicable) included in the table below for all potable water sources are not exceeded at any time. The *Approval Holder* shall ensure that the number of hours pumped and either the pumping rate or equivalent water withdrawal are recorded at the frequency listed below.

Source	Operational Pumping Rate <sup>(1)</sup>	Max Water Withdrawal (m <sup>3</sup> /d)	Max Daily Pumping Time (hrs/d)	Flow Monitoring Frequency <sup>(2)</sup>
PW1	12.5 ML/day	9000	n/a	Daily
PW2	(1909.5 igpm)	9000	n/a	Daily
PW3	combined	9000	n/a	Daily
Ocean Drive	7.00 L/s (92.4 igpm)	604.8	n/a	Daily
Seaward Cr.	7.00 L/s (92.4 igpm)	604.8	n/a	Daily

igpm: imperial gallons per minute  
L/s: litres per second  
ML/day: million litres per day  
m<sup>3</sup>/d: cubic metres per day

- (1) *Maximum pumping rates have been derived from the Wellfield study for the City of Saint John (2009), for Ocean Drive and Seaward Crescent, and the South Bay Wellfield Environmental Impact Assessment (2015) for PW1, PW2, and PW3.*
- (2) *Daily means as a minimum 5 days per week.*
- (3) *12.5 ML/day operational pumping rate for the South Bay Wellfield is to be averaged over a running annual basis (i.e. a maximum of 4562.5 ML pumped over 365 days)*
3. The *Approval Holder* shall notify the *Director* in writing when any municipal drinking water source will be re-activated or initiated. Start-up of such a source cannot be undertaken until approval is received from the *Director*.
4. The *Approval Holder* shall ensure that any well that has, or may have, been contaminated as a result of construction, servicing or maintenance is disinfected, sampled and tested for microbiological parameters to verify the effectiveness of disinfection according to the latest version of "AWWA C654, Disinfection of Wells". All samples collected must be tested by a laboratory *Accredited* for *E. coli* and Total Coliform and records of all such activities, including disinfection records and microbiological results, must be maintained.

#### **D. TERMS AND CONDITIONS - TREATMENT**

5. The *Approval Holder* shall ensure that any *Water Treatment Facilities* temporarily taken out of service for cleaning, inspection, maintenance, painting, repair or any other activity that might lead to contamination of water are disinfected, sampled and tested for microbiological parameters to verify the effectiveness of disinfection according to latest version of "AWWA C653, Disinfection of Water Treatment Plants". All samples collected must be tested by a laboratory *Accredited* for *E. coli* and Total Coliform and records of all such disinfection activities and microbiological results must be maintained.

#### **E. TERMS AND CONDITIONS - OPERATION & MAINTENANCE**

6. The *Approval Holder* shall ensure that cleaning products used in the vicinity of the waterworks shall be approved for use in the food processing industry.
7. The *Approval Holder* shall ensure that all chemicals added to the drinking water meet the safety criteria and are certified to NSF/ANSI Standard 60: Drinking Water Treatment Chemicals, or an equivalent food grade standard, as approved by the *Director*.
8. The *Approval Holder* shall ensure that all new materials and equipment installed or added that come into contact with the drinking water meet the safety criteria and are certified to NSF/ANSI Standard 61: Drinking Water System Components, or an equivalent food grade standard, as approved by the *Director*.
9. The *Approval Holder* shall ensure that construction and/or as-built drawings for the waterworks are maintained and made available to the *Department* upon request.
10. The *Approval Holder* shall ensure that mitigation measures in the Abbreviated Wellfield Monitoring Plan are followed as soon as the South Bay production wells are brought on-line. A detailed monitoring and mitigation plan must be submitted for review and approval **within one year** of the wells being brought on-line.
11. The *Approval Holder* shall notify the *Director* within one (1) business day when the *Operator in Charge* leaves the employ of the *Approval Holder* or is placed on extended leave. A transition plan must be submitted to the *Director* within thirty (30) days after the first day that the waterworks is without an *Operator in Charge*.
12. The *Approval Holder* shall ensure that the waterworks is operated and maintained by a *Trained Operator* at all times. All recently-hired operators must work under the direct supervision of a *Trained Operator* until such time as the appropriate training is completed.
13. The *Approval Holder* shall ensure that if a *Trained Operator* is not available to operate and maintain the waterworks, the *Approval Holder* shall immediately notify the New Brunswick Department of Health.

**During normal business hours, contact the New Brunswick Department of Health’s Regional Office.**

**After hours, or when a person cannot be spoken to directly, contact the: NB Department of Health After Hours Phone Number.**

Health Region	Business Hours Phone Number	After Hours Phone Number
South - <i>Region 2</i> (Saint John and area)	(506) 658-3022	(506) 658-2764

**WATER DISTRIBUTION SYSTEM – TRAINING AND CERTIFICATION**

14. The *Approval Holder* shall ensure that all water distribution system *Operators* complete the New Brunswick Community College Water Distribution Fundamentals Program, the California State University Water Distribution System Operation and Maintenance course, or an equivalent, as approved by the *Director*, in accordance with *Water Quality Regulation 82-126*, section 19.
15. The *Approval Holder* shall ensure that the certification level of the *Operator in Charge* is at least equivalent to the classification of the water distribution system.
16. The *Approval Holder* shall employ, as a minimum, the following *Certified Operator(s)* based on the Class of the water distribution system listed on the Certificate page of this Approval.

Water Distribution Class	Water Distribution (WD) <i>Certified Operator(s)</i>
I	Minimum one Class I
II	Minimum two; one Class II and one Class I
III	Minimum two; one Class III and one Class II
IV	Minimum two; one Class IV and one Class III

**WATER TREATMENT FACILITIES – TRAINING AND CERTIFICATION**

17. The *Approval Holder* shall ensure that all water treatment *Operators* complete the New Brunswick Community College Treatment Operation Fundamentals Program, the California State University Treatment Plant Operation (Volumes I & II) course, or an equivalent, as approved by the *Director*, in accordance with *Water Quality Regulation 82-126*, section 19.
18. The *Approval Holder* shall ensure that the certification level of the *Operator in Charge* is at least equivalent to the classification of the *Water Treatment Facilities*.
19. The *Approval Holder* shall employ, as a minimum, the following *Certified Operator(s)* based on the Class of the *Water Treatment Facilities* listed on the Certificate page of this Approval.

<b>Water Treatment Class</b>	<b>Water Treatment (WT) <i>Certified Operator(s)</i></b>
I	Minimum one Class I
II	Minimum two; one Class II and one Class I
III	Minimum two; one Class III and one Class II
IV	Minimum two; one Class IV and one Class III

**F. TERMS AND CONDITIONS - MONITORING & ALARMS**

20. The *Approval Holder* shall ensure that access to the waterworks is restricted to authorized personnel only.
21. The *Approval Holder* shall ensure that all on-line and portable monitoring equipment is calibrated in accordance with manufacturer’s recommendations. Records of calibration activities shall be kept and made available to the *Department* upon request.
22. The *Approval Holder* shall use laboratories that are *Accredited* for all parameters listed and tested for as part of the Sampling Plan, approved under the *Potable Water Regulation 93-203*.
23. The *Approval Holder* shall ensure that the drinking water supplied to the users meets the New Brunswick Maximum Acceptable Concentrations, for the parameters listed in the Sampling Plan, approved under the *Potable Water Regulation 93-203*.
24. The *Approval Holder* shall monitor all of the parameters included in the table below at the locations and frequencies specified.

Parameter	Min. No. of Locations	Minimum Frequency
Free Chlorine Residual	11 distribution system sites (East)	Once per week <sup>(1)</sup>
	9 distribution system sites (West)	Once per week <sup>(1)</sup>
	1 control site (East)	5 days per week
	1 control site (West)	
Water Production	Surface water	Monthly
Water Production	Ground water	Daily
Water Level	3 South Bay Wellfield sources	Daily
Turbidity	Latimer Lake	5 days per week

1) *Monitoring at the distribution system sites must be distributed evenly throughout the week on a minimum of 4 separate days*

25. The *Approval Holder* shall submit an annual report for the reporting period of January to December to the *Director*, no later than March 1<sup>st</sup> of the following year. The report shall include the following (if applicable):
- a) monitoring results for parameters required in this Approval including daily or weekly water production;
  - b) monthly water production in m<sup>3</sup>;
  - c) water usage (flowmeter), and water level data for the South Bay production wells;
  - d) operational highlights (significant incidents & system improvements, changes or additions);
  - e) alarm log;
  - f) summary of backflow prevention and cross-connection control activities;
  - g) summary of flushing activities;
  - h) *Operator* information (training, certification & staffing changes);
  - i) public relations (notifications & public education);
  - j) list of new extensions and/or renewals complete with analytical results (microbiological, organic & inorganic); and
  - k) additional comments.
26. The *Approval Holder* shall be required to continuously monitor and record, with measurements taken at no more than five-minute intervals, turbidity and free chlorine residual with online instrumentation entering the distribution system. All monitoring equipment (turbidity and chlorine) must be alarmed and equipped with an automatic notification system. Please see Emergency Response - Public Health Emergencies for the notification process in the event of an exceedence or system failure.
27. The *Approval Holder* shall be required to monitor and record the water level in each South Bay production well, to ensure that the water level in each well does not drop below +1m above mean sea level (amsl) more than 100 days/year with a maximum of 20 consecutive days. Each production well shall be set up to have an alarm that is triggered when the water level drops below +1m above mean sea level.
28. The *Approval Holder* shall ensure that the chlorination and turbidity monitoring equipment alarm systems are kept in operating condition. Any alarm system malfunction or breakdown shall be repaired or corrected immediately.
29. The *Approval Holder* shall maintain an alarm log, which will include the nature, date and time of the alarm, and the response and correction action undertaken by the municipality for all critical alarms such as a disinfection system malfunction, low chlorine residual, or high turbidity. The alarm log shall be made available to the *Department* upon request.

## **G. TERMS AND CONDITIONS - DISTRIBUTION SYSTEM**

30. The *Approval Holder* shall ensure that a free chlorine residual of no less than 0.1 mg/L be maintained at the entry point of the distribution system and that a free chlorine residual of no less than 0.04 mg/L be maintained at all other points within the distribution system.

31. The *Approval Holder* shall ensure that newly constructed or repaired water mains are disinfected, sampled and tested for microbiological parameters to verify the effectiveness of disinfection according to the latest version of "AWWA C651, Standard for Disinfecting Water Mains". All samples collected must be tested by a laboratory *Accredited* for *E. coli* and Total Coliform and records of all such disinfection activities must be maintained.
32. The *Approval Holder* shall ensure that all water-storage facilities entered for construction or inspection purposes (including underwater inspections) are disinfected, sampled and tested for microbiological parameters to verify the effectiveness of disinfection according to the latest version of "AWWA C652, Disinfection of Water Storage Facilities". All samples collected must be tested by a laboratory *Accredited* for *E. coli* and Total Coliform and records of all such disinfection activities must be maintained.
33. The *Approval Holder* shall possess a drinking water storage reservoir water quality maintenance plan developed by a Professional Engineer licensed to practice in the Province of New Brunswick. The plan shall include the frequency and method of inspection, as well as screen integrity and sediment mitigation. The *Approval Holder* shall ensure that the drinking water storage reservoirs are maintained in accordance with the reservoir water quality maintenance plan. Inspection reports must be approved by a Professional Engineer licensed to practice in the Province of New Brunswick and submitted to the *Department* **within two (2) months** of receipt by the *Approval Holder*.
34. The *Approval Holder* shall ensure that all known sources of cross-connection between municipal potable water and sewer systems are eliminated in a timely manner.
35. The *Approval Holder* shall ensure that all water mains are flushed to standards established within the flushing plan submitted to the *Department*.
36. The *Approval Holder* shall ensure that all temporary watermains must be constructed of NSF approved materials for potable water supply. Prior to bringing temporary water networks online, the watermains must be disinfected, flushed, and tested at an *Accredited* laboratory for Total Coliform and *E. coli* according to "AWWA Standard C651, Standard for Disinfecting Water Mains". While in use, samples must be collected weekly from each independent temporary watermain network, and analyzed at an *Accredited* laboratory for Total Coliform and *E. coli*. Fire hydrants used for the purpose of supplying water shall be equipped with backflow prevention assemblies. A file containing the start and stop dates, disinfection records and water quality results must be maintained for each temporary watermain network and shall be made available to the *Department* upon request.

## H. TERMS AND CONDITIONS - EMERGENCY RESPONSE

### CONTINGENCY PLAN

37. The *Approval Holder* shall maintain a Contingency Plan. The Contingency Plan must follow (as a minimum) the *Department's* Municipal Drinking Water Contingency Plan Outline and be available at key locations.
38. The *Approval Holder* shall, in writing, provide an after-hours contact name and number to the *Director*. The *Approval Holder* shall also provide notification to the *Director* within one (1) business day if either the contact name or number is changed.

### PUBLIC HEALTH EMERGENCIES

39. The *Approval Holder* shall **immediately** notify the **New Brunswick Department of Health** of any actions or events that lead, or may lead, to the deterioration of water quality in the distribution system and impact, or may impact, the health and/or safety of the users of the system. The *Approval Holder* also must contact the **New Brunswick Department of Environment and Local Government within one (1) business day** of the emergency. Such activities or events include but are not limited to:
  - Detection of *E. coli* or Total coliform that exceed the New Brunswick Maximum Acceptable Concentrations (MAC) in a drinking water sample (other than raw water prior to disinfection);
  - Inability to maintain disinfection (malfunction of disinfection system, sudden or unexplained drop in chlorine residual);
  - Increases in turbidity beyond normal operating conditions or any turbidity measurement that exceeds the New Brunswick MACs;
  - Scheduled or unscheduled maintenance that impacts water quality;
  - Whenever a watermain is wholly or partially dewatered;
  - Losses of water pressure that result, or may result, in backflow occurrences or impact water quality; and
  - Introduction of foreign contaminants.

The *Approval Holder* is advised that any action or event that has the potential to introduce contaminants, effect water quality or compromise the health and/or safety of users of the system not specifically listed above must also be immediately reported to the New Brunswick Department of Health.

### CONTACT INFORMATION FOR IMMEDIATE NOTIFICATION

**During normal business hours, contact the New Brunswick Department of Health's Regional Office.**

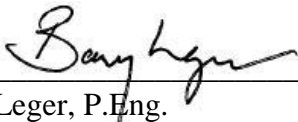
**After hours, or when a person cannot be spoken to directly, contact the:  
NB Department of Health After Hours Phone Number.**

Health Region	Business Hours Phone Number	After Hours Phone Number
South - <i>Region 2</i> (Saint John and area)	(506) 658-3022	(506) 658-2764

**CONTACT INFORMATION FOR NEXT BUSINESS DAY NOTIFICATION**

**During normal business hours, contact the:**  
**NB Department of Environment and Local Government Head Office (Fredericton)**  
**at (506) 453-7945**

Prepared by:

  
\_\_\_\_\_  
Barry Leger, P.Eng.  
Approvals Engineer





CLEAN WATER ACT - SAMPLING PLAN  
LOI SUR L'ASSAINISSEMENT DE L'EAU - PLAN D'ÉCHANTILLONNAGE

General Information / information générale

Municipality / municipalité:	City of Saint John		
Population served / population desservie:	65,000		
Treatment / traitement:	Yes / oui	X (screening, fluoridation)	No / non
Source disinfection / désinfection à la source:	Yes / oui	Continuous Chlorination for Latimer Lake, Spruce Lake, and Harbourview Subdivision	No / non
Residual disinfection / désinfection résiduelle:	Yes / oui	Residuals maintained for Latimer Lake, Spruce Lake, and Harbourview Subdivision	No / non

For Municipal Use	Sample Locations / sites d'échantillonnage			
	Water supply sources / sources d'approvisionnement en eau	Site code / code du site	Reason for site / raison d'être du site	Parameters / paramètres
	Spruce Lake (Raw Intake), 2524 Ocean Westway	15667	Raw Water	CHIO
	Pump Station (Untreated), 103 Ocean Drive	15805	Operating Well	CHIO
	Pump Station (Untreated), 14 Seaward Crescent	15521	Operating Well	CHIO
	Raw Intake, Latimer Lake, 1200 Pipeline Road	15509	Raw Water	CHIO
	<b>Distribution system sites (civic address) / sites du système de distribution (adresse civique)</b>	<b>Site code / code du site</b>	<b>Reason for site / raison d'être du site</b>	<b>Parameters / paramètres</b>
	Jones Variety, 304 City Line Road	19716	Extremity	CH
	Carleton Community Centre, 89 Market Place	15441	Extremity	CHIO
	Centracare, 414 Bay Street	15407	Last User	CHIO
	City Works Complex, 175 Rothesay Avenue	15087	Geographically Appropriate	CHIO
	Eastern Wastewater Treatment Facility, 441 Red Head Rd	21045	Dead End	CH
	Fundy Linen, 320 King William Road	15349	Geographically Appropriate	CHIO
	Ryerson Metals Inc, 2 Whiteborne Way	15725	Dead End	CHIO
	Falls View Restaurant, 200 Bridge Road	21852	Last User	CHIO
	Doiron Sports Excellence, 31 Greenhead Road	19363	Geographically Appropriate	CHIO
	PRV Chamber, 1240 Kennebecasis Drive	18359	Extremity	CHIO
	Pump Station, 147 Highland Road	15145	Dead End	CH
	Pump Station, 200 Golden Grove Road	15112	Last User	CH
	Pump Station, 784 Loch Lomond Road	17367	Geographically Appropriate	CH
	Fundy Heights Convenience, 658 Dunn Avenue	20315	Geographically Appropriate	CHIO
	Pump Station, 399 University Avenue	15747	Geographically Appropriate	CH
	Pump Station, 510 Somerset Street	15645	Geographically Appropriate	CH
	Pressure Reducing Valve Station, 80 Gault Road	21056	Geographically Appropriate	CH
	Pump Station (Line 2), Lakewood, 37 Fish Hatchery Road	15236	Finished Water after disinfection	CHIO
	Pump Station (Line 3), Lakewood, 37 Fish Hatchery Road	15269	Finished Water after disinfection	CH
	Pump Station (Line 42), Lakewood, 37 Fish Hatchery Rd.	15281	Finished Water after disinfection	CHIO
	Stand Pipe, 124 Willie Avenue	15543	Extremity	CH
	Travelodge Suites, 1011 Fairville Blvd	19965	Geographically Appropriate	CH
	Churchill Heights Water Storage Reservoir, 45 Ocean Ct	21216	Geographically Appropriate	CHIO
	Harris & Roome, 300 Charlotte St.	20724	Last User	CH
	NBCC, 950 Grandview Avenue	15872	Dead End	CH
	Meter Station, 36 Park Drive	15781	Geographically Appropriate	CHIO
	Wastewater Treatment Plant, 700 Woodward Avenue	15463	Last User	CHIO
	Pump Station (Treated), 103 Ocean Drive	21170	Finished Water after disinfection	CH
	Pump Station (Treated), 14 Seaward Crescent	21181	Finished Water after disinfection	CH
	Sampling Hydrant, 79 Eden Street	21192	Geographically Appropriate	CHIO
	Sampling Hydrant, 132 Aberdeen Avenue	21205	Geographically Appropriate	CHIO

Frequency and Number of Samples\* / fréquence et nombre d'échantillons\*

**BACTERIOLOGICAL / BACTÉRIOLOGIQUE**

**Total coliform & E. Coli / coliformes totaux et E. coli**

Frequency / fréquence: Test every site at least once per week

Number of samples/

nombre

1820 samples per year

35 every week

d'échantillons:

**Heterotrophic Plate Count / bactéries hétérotrophes**

Frequency / fréquence: Once per month

Number of samples/

nombre

420 samples per year

35 every month

d'échantillons:

**INORGANIC / INORGANIQUE**

Frequency / fréquence: Two times per year

Number of samples

/ nombre

40 samples per year

20 every 6 months

d'échantillons:

Series/série:

Complete/complète X

Modified/modifiée

**ORGANIC / ORGANIQUE**

Frequency / fréquence: Four times per year

Number of samples

/ nombre

80 samples per year

20 every 3 months

d'échantillons:

Series/série:

Complete/complète X

Modified/modifiée

\* Note: Frequency and number of samples in this sampling plan may differ from the requirements of the Water Sampling Plan Guidelines under the Clean Water Act - Potable Water Regulation as a result of modifications approved by the Minister of Health. / La fréquence du prélèvement des échantillons et le nombre d'échantillons prélevés peuvent déroger aux exigences du document intitulé "Directive pour le Plan d'échantillonnage sous la Loi sur l'assainissement de l'eau - Règlement sur l'eau potable" à la suite de modifications approuvées par le ministre de la Santé.

**Parameters / paramètres**

**C : Coliform / coliformes** - Total coliforms & E. Coli / coliformes totaux et E. coli.

**H : Heterotrophic Plate Count / bactéries hétérotrophes**

**O : Organic / organique** - benzene, benzo(a)pyrene, carbon tetrachloride, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, dichloromethane, ethylbenzene, pentachlorophenol, tetrachloro-ethylene (Perc), toluene, trichloroethylene, total trihalomethanes, chloroform, bromodichloromethane, dibromochloromethane, bromoform, vinyl chloride, total xylenes / benzène, benzo(a)pyrène, tétrachlorure de carbone, 1,2-dichlorobenzène, 1,4-dichlorobenzène, 1,2-dichloroéthane, dichlorométhane, éthylbenzène, pentachlorophénol, tétrachloroéthylène, toluène, trichloroéthylène, trihalométhanes totaux, chloroforme, bromodichlorométhane, dibromochlorométhane, bromoforme, chlorure de vinyle, xylènes totaux

**I : Inorganic / inorganique** - aluminum, antimony, arsenic, barium, boron, cadmium, chromium, copper, fluoride, iron, lead, manganese, mercury, nitrate, selenium, thallium, turbidity, uranium / aluminium, antimoine, arsenic, baryum, bore, cadmium, chrome, cuivre, fluorure, fer, plomb, manganèse, mercure, nitrate, sélénium, thallium, turbidité, uranium

**X: Other / autre** -

**Personnel**

Primary and backup person(s) responsible for taking samples / personne(s) principale(s) et de remplacement responsable(s) de prélever les échantillons:

Brock McConkey

Leroy Graham

Kevin Kincade

Ed Crowley

Adam Pilmer

Joel Bury

Joey St. Coeur

Jason Morrell

Saleem Kaleem

Kevin Ayles

Rod Comeau

Rob Hamilton

Richard Graves

Brenda MacKinnon

**Note:**

*If persons other than those listed above collect samples, the municipality must notify the Department of Health and the Department of Environment and Local Government in writing.*

*Au cas où les échantillons seraient prélevés par des personnes autres que celles nommées ci-dessus, la municipalité doit aviser le ministère de la Santé ainsi que le ministère de l'Environnement et Gouvernements Locaux par écrit.*

**Laboratory / laboratoire****Name of lab(s) / nom du ou des laboratoire(s):**

*AGAT Laboratories (inorganics)*

*SGS Lakefield (benzo(a)pyrene, pentachlorophenol)*

*Saint John Laboratory Services (all microbiology testing),*

*SGS Lakefield (organics)*

**Revision / modification**

*For office use only / à l'usage du bureau seulement*

**Previous version number / numéro de la dernière version:**

**SP\_2\_1\_0**

**Description of changes / description des changements:**

Changes in the "personnel" section.

**Recommendation / recommandation**

*For office use only / à l'usage du bureau seulement*

**Prepared by (DELG) /  
préparé par (MEGL):**

**Date / date:**

**Recommended by  
(DELG) / recommandé  
par (MEGL):**

**Date / date:**

**Clean Water Act**  
**Sample Submission Form**



**Loi sur l' assainissement de l' eau**  
**Fiche de soumission d' échantillons**

Laboratory Name:  
 Nom du laboratoire: Saint John Laboratory Services

DHW Region:  
 Région SME: 02

Date of Sampling:  
 Date du prélèvement: \_\_\_\_\_  
 (yyyy/mm/dd) \ (aaaa/mm/jj)

Municipality:  
 Municipalité: City of Saint John

**Lab Use Only/Réservé au laboratoire**

Sample Received By:  
 Échantillon reçu par: \_\_\_\_\_

Sample Received Date/Time:  
 Date/Heure de réception de l'échantillon: \_\_\_\_\_

Sample Event No.: \_\_\_\_\_  
 No. d'événement: \_\_\_\_\_

**Note:** The lab must forward copies of results to the Province of New Brunswick as per N.B. Regulation 93-203 section 9(2).  
**Nota:** Le lab doit envoyer des copies des résultats à la Province du Nouveau-Brunswick conformément au Règlement du N.B. 93-203 section 9(2).

Mun. Use Usage Mun.	NBSID	Location Endroit	Time Temps	Analysis Required Analyse requise				Comments Commentaires	CI Residual CI Résiduel (mg/L)	Lab Identifier (Lab Use Only) Identificateur du laboratoire (Réservé au laboratoire)
				TC/EC	HPC	Org	Inorg			
	15441	Carleton Community Center, 120 Market Square West <i>Saint John West</i>								
	15407	Centracare, 414 Bay Street <i>Saint John West</i>								
	15087	City Works Complex, 175 Rothesay Avenue <i>Saint John</i>								
	19965	Travelodge Suites, 1011 Fairville Blvd								
	19363	Doiron Sports Excellence, 31 Greenhead Road								
	15349	Fundy Linen, 320 King William Road <i>Saint John West</i>								
	21045	Eastern Wastewater Treatment Facility, 441 Red Head Rd.								
	15601	Irving Pulp Mill, Meter Chamber, 301 Mill Road <i>Saint John West</i>								
	19716	Jones Variety, 304 City line Road								
	21216	Churchill Heights Water Storage Reservoir, 45 Ocean Court								
	15781	Meter Station, 36 Park Drive <i>Saint John</i>								

Sampler's Name:  
 Nom de l'échantillonneur: \_\_\_\_\_

Contact No.:  
 No. de Contact: (506) - \_\_\_\_\_

For questions or updates to sheet, please contact the Drinking Water Data Administrator, Environment at 1-800-561-4036.  
 Pour toute question ou mise à jour de la feuille, prière de communiquer avec l'administratrice de données concernant l'eau potable, Environnement, au 1-800-561-4036.

**Clean Water Act**  
**Sample Submission Form**



**Loi sur l' assainissement de l' eau**  
**Fiche de soumission d' échantillons**

Laboratory Name: Saint John Laboratory Services Municipality: City of Saint John  
 Nom du laboratoire: Saint John Laboratory Services Municipalité: City of Saint John  
 DHW Region: \_\_\_\_\_  
 Région SME: \_\_\_\_\_  
 Date of Sampling: \_\_\_\_\_  
 Date du prélèvement: \_\_\_\_\_  
 (yyyy/mm/dd) \ (aaaa/mm/jj) \_\_\_\_\_

**Note:** The lab must forward copies of results to the Province of New Brunswick as per N.B. Regulation 93-203 section 9(2).\ **Nota:** Le lab doit envoyer des copies des résultats à la Province du Nouveau-Brunswick conformément au Règlement du N.B. 93-203 section 9(2).

Mun. Use Usage Mun.	NBSID	Location Endroit	Time Temps	Analysis Required Analyse requise				Comments Commentaires	Cl Residual Cl Résiduel (mg/L)	Lab Identifier (Lab Use Only) Identificateur du laboratoire (Réservé au laboratoire)
				TC/EC	HPC	Org	Inorg			
	15872	NBCC, 950 Grandview Avenue <i>Saint John</i>								
	21056	Pressure Reducing Valve station, 80 Gault Road								
	18359	PRV Chamber, 1240 Kennebecasis Drive								
	15805	Pump Stn (Untreated), 103 Ocean Drive <i>Saint John</i>								
	15521	Pump Stn (Untreated), 14 Seaward Crescent <i>Saint John</i>								
	15145	Pump Stn, 147 Highland Road <i>Saint John</i>								
	15112	Pump Stn, 200 Golden Grove Road <i>Saint John</i>								
	17367	Pump Stn, 784 Loch Lomond Road								
	15747	Pump Stn, 399 University Avenue <i>Saint John</i>								
	15645	Pump Stn, 510 Somerset St. <i>Saint John</i>								
	15236	Pump Stn, Line 2 - Lakewood, 37 Fish Hatchery Rd <i>Saint John</i>								

Sampler's Name: \_\_\_\_\_ Contact No.: \_\_\_\_\_  
 Nom de l'échantillonneur: \_\_\_\_\_ No. de Contact: (506) - \_\_\_\_\_

For questions or updates to sheet, please contact the Drinking Water Data Administrator, Environment at 1-800-561-4036.\ **Pour** toute question ou mise à jour de la feuille, prière de communiquer avec l'administratrice de données concernant l'eau potable, Environnement, au 1-800-561-4036.

Clean Water Act  
Sample Submission Form



Loi sur l' assainissement de l' eau  
Fiche de soumission d'échantillons

Laboratory Name: Saint John Laboratory Services Municipality: City of Saint John  
 Nom du laboratoire: Saint John Laboratory Services Municipalité: City of Saint John  
 DHW Region: \_\_\_\_\_  
 Région SME: \_\_\_\_\_  
 Date of Sampling: \_\_\_\_\_  
 Date du prélèvement: \_\_\_\_\_  
 (yyyy/mm/dd) \ (aaaa/mm/jj)

**Note:** The lab must forward copies of results to the Province of New Brunswick as per N.B. Regulation 93-203 section 9(2).  
**Nota:** Le lab doit envoyer des copies des résultats à la Province du Nouveau-Brunswick conformément au Règlement du N.B. 93-203 section 9(2).

Mun. Use Usage Mun.	NBSID	Location Endroit	Time Temps	Analysis Required Analyse requise				Comments Commentaires	CI Residual CI Résiduel (mg/L)	Lab Identifier (Lab Use Only) Identificateur du laboratoire (Réservé au laboratoire)
				TC\EC	HPC	Org	Inorg			
	15269	Pump Stn, Line 3 - Lakewood, 37 Fish Hatchery Rd <i>Saint John</i>								
	15281	Pump Stn, Line 42 - Lakewood, 37 Fish Hatchery Rd <i>Saint John</i>								
	15509	Raw Intake - Latimer Lake, 1200 Pipeline Road <i>Saint John</i>								
	15667	Raw Intake - Spruce Lake, 2524 Ocean Westway <i>Saint John West</i>								
	15725	Ryerson Metals Inc, 2 Whiteborne Way <i>Saint John</i>								
	15543	Stand Pipe, 124 Willie Avenue <i>Saint John</i>								
	15463	Wastewater Treatment Plant, 700 Woodward Avenue <i>Saint John</i>								
	20315	Saint John, Fundy Heights Convenience, 658 Dunn Av.								
	20724	Harris & Roome, 300 Charlotte Street								
	99467	Saint John Temporary Sampling Location(s)								
	21170	Saint John, Pump Station (Treated), 103 Ocean Drive								

Sampler's Name: \_\_\_\_\_ Contact No.: \_\_\_\_\_  
 Nom de l'échantillonneur: \_\_\_\_\_ No. de Contact: (506) -

For questions or updates to sheet, please contact the Drinking Water Data Administrator, Environment at 1-800-561-4036.  
 Pour toute question ou mise à jour de la feuille, prière de communiquer avec l'administratrice de données concernant l'eau potable, Environnement, au 1-800-561-4036.

Clean Water Act  
Sample Submission Form



Loi sur l' assainissement de l' eau  
Fiche de soumission d' échantillons

Laboratory Name: Saint John Laboratory Services Municipality: City of Saint John  
 Nom du laboratoire: Saint John Laboratory Services Municipalité: City of Saint John  
 DHW Region: \_\_\_\_\_  
 Région SME: \_\_\_\_\_  
 Date of Sampling: \_\_\_\_\_  
 Date du prélèvement: \_\_\_\_\_  
 (yyyy/mm/dd) \ (aaaa/mm/jj) \_\_\_\_\_

**Note:** The lab must forward copies of results to the Province of New Brunswick as per N.B. Regulation 93-203 section 9(2).  
**Nota:** Le lab doit envoyer des copies des résultats à la Province du Nouveau-Brunswick conformément au Règlement du N.B. 93-203 section 9(2).

Mun. Use Usage Mun.	NBSID	Location Endroit	Time Temps	Analysis Required Analyse requise				Comments Commentaires	Cl Residual Cl Résiduel (mg/L)	Lab Identifier (Lab Use Only) Identificateur du laboratoire (Réservé au laboratoire)
				TC/EC	HPC	Org	Inorg			
	21181	Pump Station (Treated), 14 Seaward Crescent								
	21205	Sampling Hydrant, 132 Aberdeen Avenue								
	21192	Sampling Hydrant, 79 Eden Street								

Sampler's Name: \_\_\_\_\_ Contact No.: \_\_\_\_\_  
 Nom de l'échantillonneur: \_\_\_\_\_ No. de Contact: (506) - \_\_\_\_\_

For questions or updates to sheet, please contact the Drinking Water Data Administrator, Environment at 1-800-561-4036.  
 Pour toute question ou mise à jour de la feuille, prière de communiquer avec l'administratrice de données concernant l'eau potable, Environnement, au 1-800-561-4036.





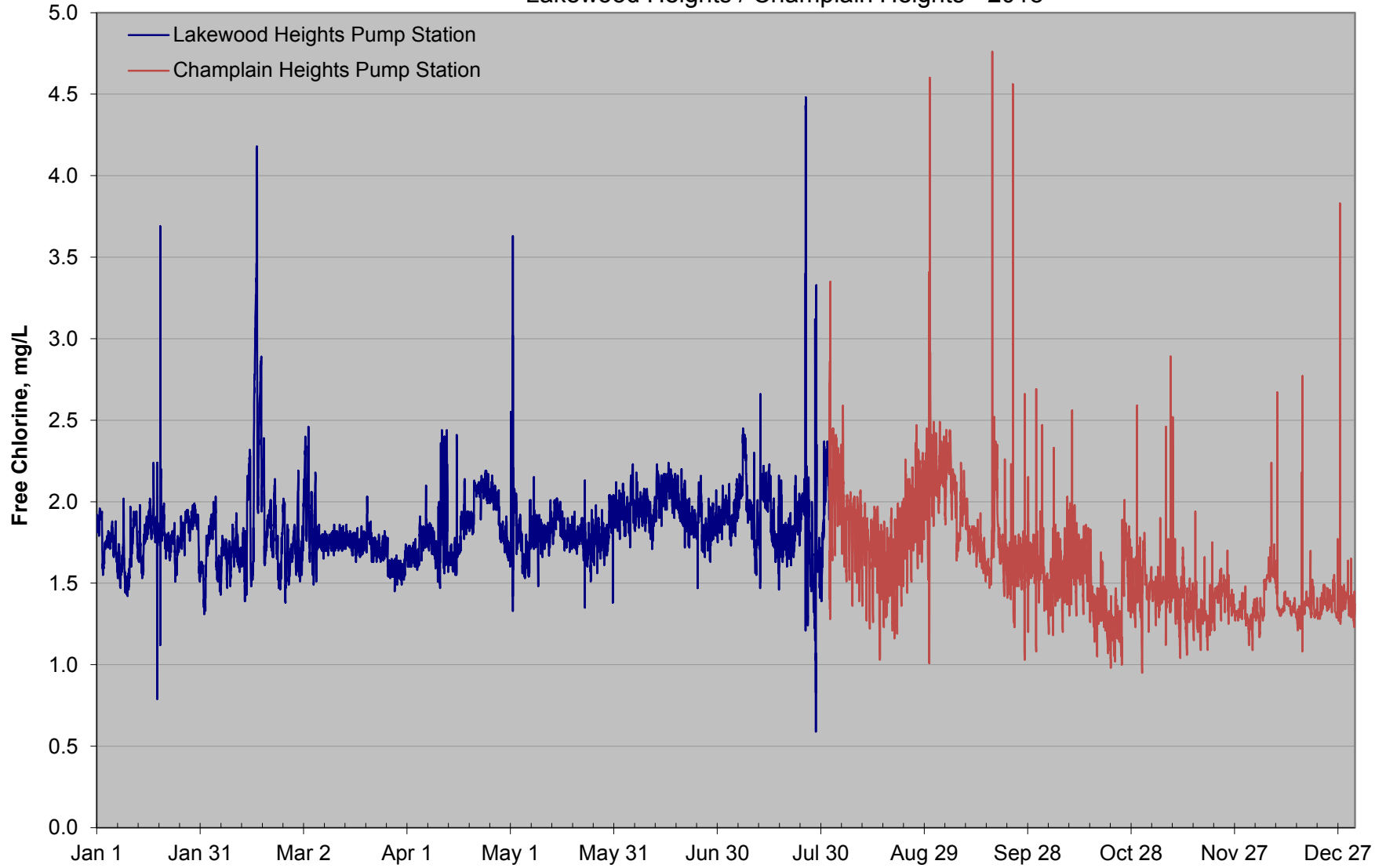




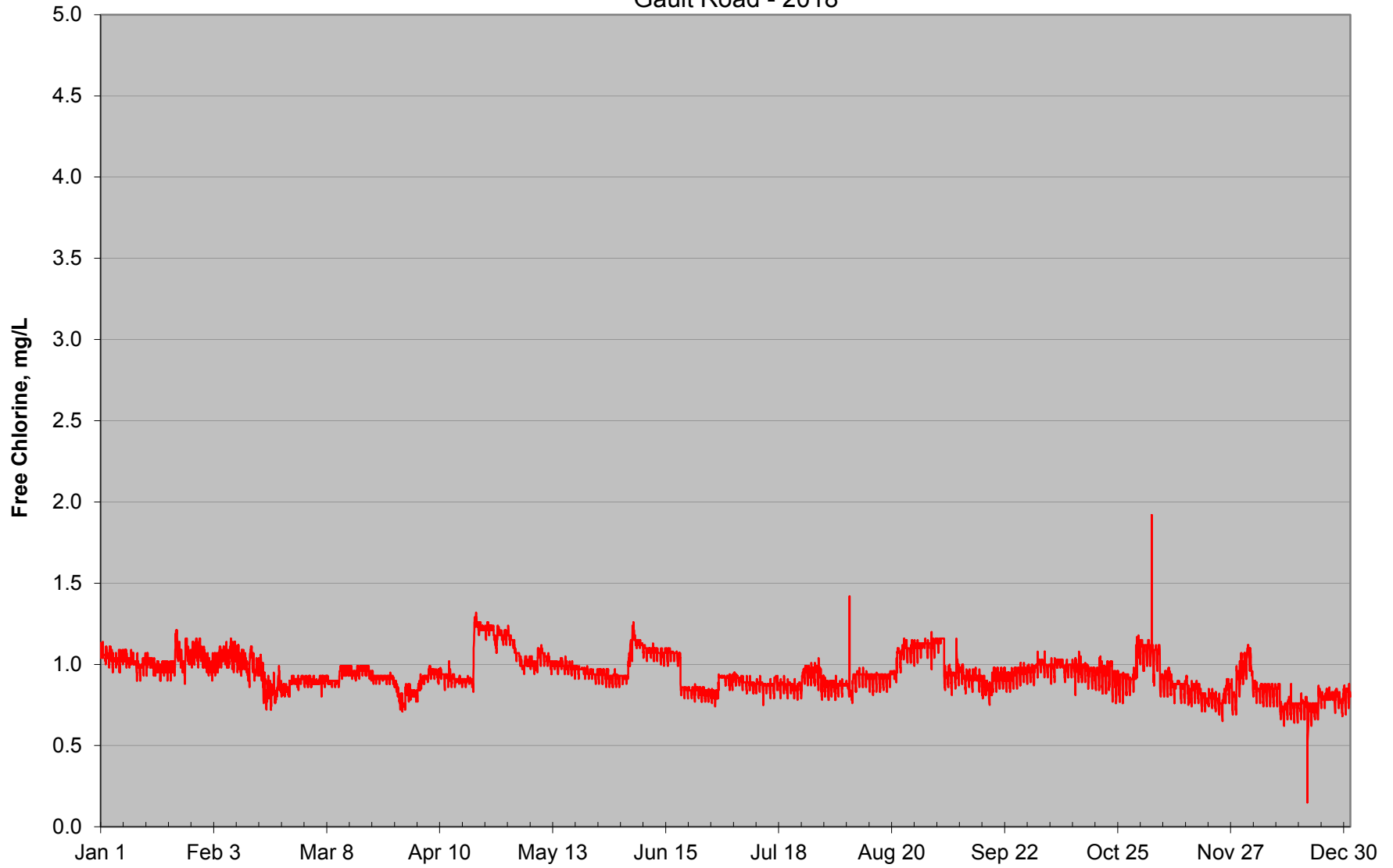
## Appendix F

### Chlorine Residual Assurance Program

Chlorine Residual Assurance Program  
Lakewood Heights / Champlain Heights - 2018



Chlorine Residual Assurance Program  
Gault Road - 2018



# Appendix G

## Chlorine Residual Data & Other Monitoring Data



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
2-Jan-18	36 Park Drive	1.42		6.50			1.12	54.0	26.5	0.06		
3-Jan-18	Willie Avenue Standpipe	0.74		6.57			1.29	54.4	26.7	0.06		
2-Jan-18	Somerset Street (pump Stn.)	1.74		6.50			1.23	55.2	26.8	0.05		
2-Jan-18	Golden Grove Road	1.34		6.41			1.90	54.2	26.6	0.11		
2-Jan-18	Harris & Roome	1.29		6.45			1.31	55.0	27.0	0.09		
2-Jan-18	NBCCSJ	0.43		6.28			2.61	56.0	27.5	0.47		
2-Jan-18	Ryerson Metal Inc	1.51		6.30			1.43	54.6	26.7	0.06		
2-Jan-18	University Ave. Pump Station	1.00		6.49			1.53	55.3	27.0	0.07		
2-Jan-18	Highland Road Pump Station	0.49		6.48			1.28	54.1	26.6	0.14		
2-Jan-18	Kennebecasis Drive	0.96		6.51			1.29	55.0	27.0	0.07		
2-Jan-18	Bridge Road (Zone 8)	0.53		7.73			3.28	565.2	277.6	0.32		
2-Jan-18	Fundy Linen	0.95		7.78			0.13	565.7	277.6	non detect		
2-Jan-18	Travelodge Suites	0.93		7.76			0.44	569.2	279.3	0.02		
2-Jan-18	PRV 24	0.97		7.80			0.17	566.2	277.5	non detect		
2-Jan-18	Doiron's	0.83		7.81			0.10	566.8	278.1	non detect		
2-Jan-18	Churchill Heights Tank (Out)	1.05		7.84			0.14	570.1	279.9	non detect		
2-Jan-18	Carleton Community Center	0.53		7.90			0.08	568.5	278.4	non detect		
2-Jan-18	Spruce Lake Fluoride Analyzer	1.14		7.82				567.5	278.4	non detect		
2-Jan-18	Centracare	0.73		7.85			0.15	564.8	276.6	0.02		
2-Jan-18	Jones Variety	0.54		7.84			0.09	565.3	277.2	non detect		
2-Jan-18	Dunn Ave	0.71		7.84			0.20	565.0	276.5	non detect		
2-Jan-18	Operations Complex (Rothesay Ave.)	0.40		6.46			1.29	55.3	27.2	0.11		
2-Jan-18	Little River Line#4 (Outside Chamber)	3.40		6.39			1.19	53.8	26.3	0.05		
2-Jan-18	Little River Line#2	2.15		6.46			1.28	52.9	26.0	0.05		
2-Jan-18	Little River Line#3	2.50		6.41			1.20	53.1	26.0	0.05		
2-Jan-18	Latimer Lake Line #1 (39" A)	3.10		6.41				52.7	25.9	0.06		
2-Jan-18	Latimer Lake Line #2 (42" B)	3.40		6.41				53.0	25.9	0.05		
2-Jan-18	Champlain Heights Pumping Stn.	2.80		6.38			1.25	53.2	26.2	0.06		
2-Jan-18	Millidgeville Treatment Plant	0.53		6.38			1.35	54.9	26.8	0.10		
2-Jan-18	Spruce Lake (Raw)			7.13	4.1		0.51	30.5	15.0	0.05	17	15
2-Jan-18	Latimer Lake 42" B (Raw)			7.00	9.7	0.020	1.21	50.1	24.6	0.04	19	15
2-Jan-18	Latimer Lake 39"A (Raw)			7.09		0.021	1.79	50.9	24.9	0.07		
2-Jan-18	Eastern Wastewater Treatment Plant	0.62	0.82	6.38			1.31	54.7	26.8	0.09		
2-Jan-18	Ocean Drive			7.82	86.4		0.08	298.6	146.4	0.02		
2-Jan-18	Seaward Crescent			7.91	94.4		0.49	251.6	123.2	0.05		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
9-Jan-18	36 Park Drive	0.95		6.63			1.21	61.2	30.1	0.05		
9-Jan-18	Willie Avenue Standpipe	0.47		6.46			1.21	55.1	27.2	0.08		
9-Jan-18	Somerset Street (pump Stn.)	1.43		6.56			1.59	54.9	27.0	0.07		
9-Jan-18	Golden Grove Road	1.05		6.42			1.21	55.4	27.3	0.09		
9-Jan-18	Harris & Roome	0.73		6.45			1.35	56.5	27.8	0.09		
9-Jan-18	NBCCSJ	1.31		6.47			1.88	55.5	27.3	0.08		
9-Jan-18	Ryerson Metal Inc	0.49		6.34			1.27	55.0	27.1	0.06		
9-Jan-18	University Ave. Pump Station	1.46		6.57			1.47	56.1	27.6	0.06		
9-Jan-18	Highland Road Pump Station	0.32		6.58			1.38	56.3	27.7	0.20		
9-Jan-18	Kennebecasis Drive	0.92		6.67			1.22	58.4	28.7	0.07		
9-Jan-18	Bridge Road (Zone 8)	0.31		7.63			3.67	564.3	276.9	0.75		
9-Jan-18	Fundy Linen	0.89		7.70			0.09	565.2	278.0	non detect		
9-Jan-18	Travelodge Suites	0.96		7.73			0.07	565.7	278.3	non detect		
9-Jan-18	PRV 24	1.13		7.70			0.14	565.4	278.7	non detect		
9-Jan-18	Doiron's	0.66		7.71			0.06	568.2	279.5	non detect		
9-Jan-18	Churchill Heights Tank (Out)	0.88		7.84			0.15	563.4	277.0	non detect		
9-Jan-18	Carleton Community Center	0.81		7.80			0.13	566.7	278.8	non detect		
9-Jan-18	Spruce Lake Fluoride Analyzer			7.34				565.5	278.3	non detect		
9-Jan-18	Centracare	0.61		7.78			0.17	564.0	277.5	0.02		
9-Jan-18	Jones Variety	0.78		7.87			0.13	567.7	278.9	0.02		
9-Jan-18	Dunn Ave	0.84		7.80			0.11	565.8	278.4	non detect		
9-Jan-18	Operations Complex (Rothesay Ave.)	0.44		6.43			1.23	55.8	27.4	0.09		
9-Jan-18	Little River Line#4 (Outside Chamber)	2.70		6.61			1.21	55.3	27.2	0.04		
9-Jan-18	Little River Line#2	1.49		6.43			1.24	55.1	27.1	0.05		
9-Jan-18	Little River Line#3	1.39		6.43			1.18	55.0	27.0	0.05		
9-Jan-18	Latimer Lake Line #1 (39" A)	2.80		6.35				54.4	26.8	0.05		
9-Jan-18	Latimer Lake Line #2 (42" B)	2.60		6.40				55.0	27.0	0.05		
9-Jan-18	Champlain Heights Pumping Stn.	1.56		6.40			1.18	55.3	27.2	0.06		
9-Jan-18	Millidgeville Treatment Plant	0.68		6.53			1.43	57.5	28.3	0.10		
9-Jan-18	Spruce Lake (Raw)			6.76	5.0		0.67	36.2	17.8	0.06	13	12
9-Jan-18	Latimer Lake 42" B (Raw)			7.12	9.0	0.015	1.21	57.2	28.1	0.05	15	12
9-Jan-18	Latimer Lake 39"A (Raw)			7.07		0.020	1.21	51.7	25.4	0.06		
9-Jan-18	Eastern Wastewater Treatment Plant	0.61	0.74	6.41			1.74	55.1	27.1	0.09		
9-Jan-18	Ocean Drive			7.80	83.0		0.15	297.0	146.2	non detect		
9-Jan-18	Seaward Crescent			7.89	91.0		0.80	250.3	123.1	0.03		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
16-Jan-18	36 Park Drive	1.39		6.52			1.04	52.7	25.9	0.05		
16-Jan-18	Willie Avenue Standpipe	0.78		6.49			1.10	53.6	26.3	0.06		
16-Jan-18	Somerset Street (pump Stn.)	1.78		6.39			1.15	52.6	25.8	0.05		
16-Jan-18	Golden Grove Road	1.35		6.36			1.14	52.9	26.0	0.07		
16-Jan-18	Harris & Roome	1.18		6.34			1.14	53.6	26.3	0.09		
16-Jan-18	NBCCSJ	0.74		6.44			1.45	53.6	26.4	0.10		
16-Jan-18	Ryerson Metal Inc	1.90		6.31			1.01	52.4	25.7	0.06		
16-Jan-18	University Ave. Pump Station	2.10		6.37			1.24	53.2	26.2	0.06		
16-Jan-18	Highland Road Pump Station	0.38		6.36			1.04	54.5	26.8	0.17		
16-Jan-18	Kennebecasis Drive	1.03		6.44			1.29	55.8	27.5	0.06		
16-Jan-18	Bridge Road (Zone 8)	0.62		7.79			3.05	560.9	275.6	0.38		
16-Jan-18	Fundy Linen	0.91		7.85			0.08	563.2	276.4	non detect		
16-Jan-18	Travelodge Suites	0.91		7.88			0.11	561.5	276.0	0.02		
16-Jan-18	PRV 24	0.96		7.90			0.15	564.2	277.4	non detect		
16-Jan-18	Doiron's	0.71		7.92			0.17	561.2	275.8	non detect		
16-Jan-18	Churchill Heights Tank (Out)	0.92		7.97			0.11	563.2	276.4	non detect		
16-Jan-18	Carleton Community Center	0.77		7.91			0.12	560.6	275.8	non detect		
16-Jan-18	Spruce Lake Fluoride Analyzer	1.02		7.88				565.7	278.3	non detect		
16-Jan-18	Centracare	0.80		7.90			0.14	561.1	275.8	0.02		
16-Jan-18	Jones Variety	0.71		7.96			0.19	561.9	275.9	0.02		
16-Jan-18	Dunn Ave	0.73		7.81			0.10	560.4	275.4	non detect		
16-Jan-18	Operations Complex (Rothesay Ave.)	1.16		6.36			1.09	53.9	26.5	0.09		
16-Jan-18	Little River Line#4 (Outside Chamber)	3.00		6.35			1.09	53.2	26.2	0.05		
16-Jan-18	Little River Line#2	2.14		6.44			1.23	53.0	26.0	0.05		
16-Jan-18	Little River Line#3	2.40		6.34			1.12	52.6	25.9	0.05		
16-Jan-18	Latimer Lake Line #1 (39" A)	3.20		6.35				53.2	26.1	0.04		
16-Jan-18	Latimer Lake Line #2 (42" B)	3.30		6.34				51.5	25.3	0.04		
16-Jan-18	Champlain Heights Pumping Stn.	2.50		6.39			1.25	52.8	25.9	0.05		
16-Jan-18	Millidgeville Treatment Plant	1.29		6.25			1.16	53.5	26.3	0.08		
16-Jan-18	Spruce Lake (Raw)			6.66	4.2		0.75	32.7	16.0	0.08	33	15
16-Jan-18	Latimer Lake 42" B (Raw)			7.04	10.7	0.015	1.05	49.7	24.4	0.04	18	14
16-Jan-18	Latimer Lake 39"A (Raw)			6.90		0.017	1.10	50.4	24.8	0.05		
16-Jan-18	Eastern Wastewater Treatment Plant	1.57	1.74	6.51			1.05	54.2	26.6	0.07		
16-Jan-18	Ocean Drive			7.95	82.0		0.06	298.2	146.5	non detect		
16-Jan-18	Seaward Crescent			7.97	87.0		0.12	251.1	123.4	non detect		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
22-Jan-18	36 Park Drive	0.89		6.43			0.98	54.0	26.5	0.05		
23-Jan-18	Willie Avenue Standpipe	0.89		6.42			1.07	54.8	26.8	0.08		
23-Jan-18	Somerset Street (pump Stn.)	1.49		6.28			1.09	54.0	26.6	0.05		
22-Jan-18	Golden Grove Road	0.85		6.34			1.02	55.0	26.9	0.10		
23-Jan-18	Harris & Roome	0.65		6.25			1.12	54.8	26.8	0.10		
22-Jan-18	NBCCSJ	1.20		6.29			1.07	53.9	26.5	0.08		
22-Jan-18	Ryerson Metal Inc	0.49		6.28			0.98	55.1	27.0	0.06		
23-Jan-18	University Ave. Pump Station	1.51		6.29			1.05	54.8	27.0	0.06		
23-Jan-18	Highland Road Pump Station	0.42		6.37			1.16	55.3	27.0	0.20		
23-Jan-18	Kennebecasis Drive	1.07		6.33			1.03	56.3	27.7	0.05		
23-Jan-18	Bridge Road (Zone 8)	0.57		7.84			0.46	572.3	281.2	0.08		
22-Jan-18	Fundy Linen	0.88		7.84			0.11	572.1	280.5	non detect		
23-Jan-18	Travelodge Suites	0.81		7.80			0.11	568.9	279.1	non detect		
22-Jan-18	PRV 24	0.87		7.84			0.73	572.0	279.8	0.03		
22-Jan-18	Doiron's	0.72		7.84			0.09	571.5	281.0	0.02		
22-Jan-18	Churchill Heights Tank (Out)	0.89		7.87			0.17	569.7	279.8	non detect		
23-Jan-18	Carleton Community Center	0.81		7.85			0.06	572.3	280.7	non detect		
23-Jan-18	Spruce Lake Fluoride Analyzer	0.00		7.85				571.8	280.4	non detect		
22-Jan-18	Centracare	0.95		7.83			0.09	573.6	281.2	non detect		
23-Jan-18	Jones Variety	0.86		7.84			0.12	574.2	281.6	0.02		
23-Jan-18	Dunn Ave	0.63		7.83			0.07	572.0	281.3	non detect		
23-Jan-18	Operations Complex (Rothesay Ave.)	0.77		6.29			0.97	54.7	26.8	0.08		
23-Jan-18	Little River Line#4 (Outside Chamber)	2.50		6.20			1.01	54.3	26.7	0.05		
23-Jan-18	Little River Line#2	1.72		6.23			1.05	53.7	26.3	0.05		
23-Jan-18	Little River Line#3	1.61		6.30			1.04	53.3	26.2	0.05		
23-Jan-18	Latimer Lake Line #1 (39" A)	3.00		6.20				53.5	26.2	0.05		
23-Jan-18	Latimer Lake Line #2 (42" B)	2.60		6.25				55.6	27.3	0.05		
23-Jan-18	Champlain Heights Pumping Stn.	1.94		6.26			0.98	54.3	26.6	0.06		
23-Jan-18	Millidgeville Treatment Plant	0.67		6.29			1.06	55.5	27.3	0.10		
23-Jan-18	Spruce Lake (Raw)			6.92	3.7		0.56	32.2	15.9	0.05	19	17
23-Jan-18	Latimer Lake 42" B (Raw)			6.94	8.8	0.017	1.06	50.8	24.9	0.04	18	14
23-Jan-18	Latimer Lake 39"A (Raw)			6.96		0.013	1.00	50.6	24.9	0.04		
23-Jan-18	Eastern Wastewater Treatment Plant	0.97	1.19	6.44			1.12	55.4	27.2	0.06		
23-Jan-18	Ocean Drive			8.08	81.0		0.27	301.1	147.7	non detect		
23-Jan-18	Seaward Crescent			8.13	87.0		0.30	251.3	123.4	0.02		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
30-Jan-18	36 Park Drive	1.08		6.64			0.93	53.0	26.0	0.04		
30-Jan-18	Willie Avenue Standpipe	0.72		6.24			1.03	53.3	26.1	0.06		
30-Jan-18	Somerset Street (pump Stn.)	1.37		6.34			1.03	52.4	25.7	0.06		
30-Jan-18	Golden Grove Road	0.94		6.58			1.01	52.5	25.8	0.09		
30-Jan-18	Harris & Roome	0.63		6.30			2.18	52.8	25.9	0.10		
30-Jan-18	NBCCSJ	1.09		6.53			1.49	53.0	26.0	0.09		
30-Jan-18	Ryerson Metal Inc	1.04		6.45			1.08	53.8	26.4	0.05		
30-Jan-18	University Ave. Pump Station	1.40		6.37			2.11	53.5	26.3	0.06		
30-Jan-18	Highland Road Pump Station	0.32		6.34			1.01	52.8	26.9	0.19		
30-Jan-18	Kennebecasis Drive	1.05		6.40			1.14	54.3	26.6	0.06		
30-Jan-18	Bridge Road (Zone 8)	0.40		7.72			2.70	562.1	275.7	0.16		
30-Jan-18	Fundy Linen	0.72		7.79			0.23	557.9	273.6	0.02		
30-Jan-18	Travelodge Suites	0.90		7.73			0.19	561.5	275.4	0.02		
30-Jan-18	PRV 24	1.03		7.81			0.32	568.6	278.3	non detect		
30-Jan-18	Doiron's	0.94		7.74			0.26	566.4	277.8	non detect		
30-Jan-18	Churchill Heights Tank (Out)	0.89		7.79			0.27	564.9	277.8	non detect		
30-Jan-18	Carleton Community Center	0.84		7.76			0.13	567.2	278.3	0.03		
30-Jan-18	Spruce Lake Fluoride Analyzer	1.14		7.78				567.4	278.0	0.02		
30-Jan-18	Centracare	0.71		7.75			0.13	565.6	277.9	0.02		
30-Jan-18	Jones Variety	0.86		7.79			0.12	567.0	278.3	non detect		
30-Jan-18	Dunn Ave	0.86		7.78			0.20	565.4	277.1	non detect		
30-Jan-18	Operations Complex (Rothesay Ave.)	0.46		6.39			1.04	54.3	26.8	0.16		
30-Jan-18	Little River Line#4 (Outside Chamber)	2.30		6.42			1.10	52.4	25.7	0.04		
30-Jan-18	Little River Line#2	1.93		6.38			1.01	52.2	25.6	0.04		
30-Jan-18	Little River Line#3	1.78		6.38			0.98	52.2	25.6	0.05		
30-Jan-18	Latimer Lake Line #1 (39" A)	3.20		6.33				52.4	25.7	0.05		
30-Jan-18	Latimer Lake Line #2 (42" B)	2.70		6.42				52.4	25.7	0.04		
30-Jan-18	Champlain Heights Pumping Stn.	1.80		6.37			1.11	52.3	25.7	0.06		
30-Jan-18	Millidgeville Treatment Plant	0.85		6.32			1.14	53.6	26.3	0.10		
30-Jan-18	Spruce Lake (Raw)			6.46	4.0		0.56	31.6	15.5	0.05	20	17
30-Jan-18	Latimer Lake 42" B (Raw)			6.84	7.8	0.024	1.07	50.6	24.8	0.07	19	17
30-Jan-18	Latimer Lake 39"A (Raw)			6.93		0.027	1.45	49.9	24.5	0.06		
30-Jan-18	Eastern Wastewater Treatment Plant	1.25	1.48	6.45			1.14	52.8	25.9	0.06		
30-Jan-18	Ocean Drive			7.88	74.4		0.20	296.8	145.7	non detect		
30-Jan-18	Seaward Crescent			7.97	80.8		0.93	245.9	120.5	0.06		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
6-Feb-18	36 Park Drive	0.99		6.77			0.96	53.0	26.0	0.05		
6-Feb-18	Willie Avenue Standpipe	0.52		6.36			1.02	53.7	26.3	0.07		
6-Feb-18	Somerset Street (pump Stn.)	1.01		6.38			0.93	55.1	27.0	0.05		
6-Feb-18	Golden Grove Road	0.74		6.49			0.94	53.4	26.2	0.10		
6-Feb-18	Harris & Roome	0.62		6.28			1.18	53.8	26.4	0.11		
6-Feb-18	NBCCSJ	0.35		6.55			1.18	54.0	26.5	0.11		
6-Feb-18	Ryerson Metal Inc	0.84		6.53			1.35	54.0	26.6	0.06		
6-Feb-18	University Ave. Pump Station	0.81		6.35			0.95	57.9	28.4	0.05		
6-Feb-18	Highland Road Pump Station	0.35		6.32			0.97	54.4	26.7	0.19		
6-Feb-18	Kennebecasis Drive	1.15		6.43			0.92	59.1	29.0	0.06		
6-Feb-18	Bridge Road (Zone 8)	0.34		7.77			0.61	568.7	279.1	0.13		
6-Feb-18	Fundy Linen	0.80		7.81			0.11	569.5	279.9	0.02		
6-Feb-18	Travelodge Suites	0.87		7.87			0.12	570.1	279.8	non detect		
6-Feb-18	PRV 24	0.96		7.86			0.22	567.8	279.0	non detect		
6-Feb-18	Doiron's	0.81		7.87			0.12	569.4	279.6	non detect		
6-Feb-18	Churchill Heights Tank (Out)	0.81		7.92			0.18	570.1	280.3	0.03		
6-Feb-18	Carleton Community Center	0.71		7.89			0.22	569.3	279.6	non detect		
6-Feb-18	Spruce Lake Fluoride Analyzer	1.07		7.89				576.0	283.0	non detect		
6-Feb-18	Centracare	0.65		7.71			0.09	568.3	279.3	0.02		
6-Feb-18	Jones Variety	0.80		7.90			0.08	571.4	280.4	non detect		
6-Feb-18	Dunn Ave	0.87		7.89			0.09	570.5	280.4	0.02		
6-Feb-18	Operations Complex (Rothesay Ave.)	0.82		6.33			0.98	54.6	26.8	0.08		
6-Feb-18	Little River Line#4 (Outside Chamber)	2.80		6.12			0.83	49.7	24.4	0.04		
6-Feb-18	Little River Line#2	1.78		6.34			0.90	52.3	25.7	0.04		
6-Feb-18	Little River Line#3	1.95		6.24			0.94	49.7	24.4	0.04		
6-Feb-18	Latimer Lake Line #1 (39" A)	2.70		6.49				55.1	27.1	0.04		
6-Feb-18	Latimer Lake Line #2 (42" B)	3.00		6.33				51.1	25.1	0.05		
6-Feb-18	Champlain Heights Pumping Stn.	1.98		6.27			1.05	52.6	25.8	0.05		
6-Feb-18	Millidgeville Treatment Plant	0.42		6.39			1.05	55.9	27.5	0.09		
6-Feb-18	Spruce Lake (Raw)			6.91	3.7		0.48	35.1	17.2	0.05	22	16
6-Feb-18	Latimer Lake 42" B (Raw)			7.04	7.9	0.015	0.96	49.7	24.4	0.04	14	10
6-Feb-18	Latimer Lake 39"A (Raw)			6.93		0.015	0.91	50.7	24.9	0.04		
6-Feb-18	Eastern Wastewater Treatment Plant	1.11	1.30	6.37			0.96	49.9	24.5	0.06		
6-Feb-18	Ocean Drive			7.95	82.0		0.07	296.1	145.1	non detect		
6-Feb-18	Seaward Crescent			7.98	91.0		0.91	246.6	120.7	0.06		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
13-Feb-18	36 Park Drive	0.94		6.65			0.96	53.7	26.4	0.04		
13-Feb-18	Willie Avenue Standpipe	0.49		6.55			1.35	53.7	26.4	0.06		
13-Feb-18	Somerset Street (pump Stn.)	1.38		6.56			0.95	55.2	27.1	0.05		
13-Feb-18	Golden Grove Road	0.68		6.50			0.98	53.6	26.4	0.11		
13-Feb-18	Harris & Roome	0.49		6.51			1.17	53.4	26.2	0.10		
13-Feb-18	NBCCSJ	0.41		6.53			1.14	54.2	26.7	0.09		
13-Feb-18	Ryerson Metal Inc	0.70		6.46			1.10	53.4	26.2	0.05		
13-Feb-18	University Ave. Pump Station	0.79		6.53			0.93	55.3	27.2	0.05		
13-Feb-18	Highland Road Pump Station	0.49		6.50			2.77	54.7	26.9	0.45		
13-Feb-18	Kennebecasis Drive	0.99		6.60			0.94	56.9	27.9	0.06		
13-Feb-18	Bridge Road (Zone 8)	0.44		7.82			3.03	561	275.7	0.43		
13-Feb-18	Fundy Linen	0.92		7.88			0.16	568.2	278.4	non detect		
13-Feb-18	Travelodge Suites	0.92		7.83			0.12	564.5	277.4	non detect		
13-Feb-18	PRV 24	1.02		7.95			0.50	568.2	279.2	non detect		
13-Feb-18	Doiron's	0.74		7.86			0.38	570.4	280.3	non detect		
13-Feb-18	Churchill Heights Tank (Out)	1.00		7.93			0.24	569.9	280.1	non detect		
13-Feb-18	Carleton Community Center	0.73		7.87			0.06	568.3	279.2	non detect		
13-Feb-18	Spruce Lake Fluoride Analyzer	1.10		7.91				570.6	279.6	non detect		
13-Feb-18	Centracare	0.70		7.91			0.18	570.4	280.0	0.03		
13-Feb-18	Jones Variety	0.88		7.95			0.28	571.1	280.5	non detect		
13-Feb-18	Dunn Ave	0.77		7.90			0.10	568.2	279.1	non detect		
13-Feb-18	Operations Complex (Rothesay Ave.)	0.52		6.43			1.09	54.8	26.9	0.09		
13-Feb-18	Little River Line#4 (Outside Chamber)	1.70		6.54			0.92	52.4	25.8	0.04		
13-Feb-18	Little River Line#2	1.49		6.48			1.08	52.2	25.6	0.04		
13-Feb-18	Little River Line#3	1.20		6.52			0.89	52.5	25.8	0.04		
13-Feb-18	Latimer Lake Line #1 (39" A)	2.80		6.42				52.2	25.6	0.05		
13-Feb-18	Latimer Lake Line #2 (42" B)	2.10		6.55				51.6	25.4	0.04		
13-Feb-18	Champlain Heights Pumping Stn.	1.02		6.52			0.97	52.7	25.8	0.06		
13-Feb-18	Millidgeville Treatment Plant	0.96		6.46			1.83	55.6	27.3	0.10		
13-Feb-18	Spruce Lake (Raw)			6.44	3.0		0.56	36.5	18.1	0.06	20	18
13-Feb-18	Latimer Lake 42" B (Raw)			6.98	8.1	0.009	0.94	50.0	24.5	0.03	20	17
13-Feb-18	Latimer Lake 39"A (Raw)			6.95		0.019	0.89	50.0	24.6	0.05		
13-Feb-18	Eastern Wastewater Treatment Plant	0.85	0.97	6.46			1.20	53.0	26.0	0.07		
13-Feb-18	Ocean Drive			7.97	84.0		0.15	298.9	146.8	non detect		
13-Feb-18	Seaward Crescent			7.88	87.2		1.17	245.5	120.9	0.09		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
20-Feb-18	36 Park Drive	0.99		6.53			1.01	60.1	29.6	0.04		
20-Feb-18	Willie Avenue Standpipe	0.72		6.40			0.96	54.3	26.6	0.08		
20-Feb-18	Somerset Street (pump Stn.)	1.41		6.27			0.85	57.8	28.4	0.05		
20-Feb-18	Golden Grove Road	0.93		6.27			0.98	54.3	26.6	0.08		
20-Feb-18	Harris & Roome	0.59		6.22			0.95	58.1	28.5	0.07		
20-Feb-18	NBCCSJ	1.43		6.29			1.30	56.3	27.6	0.08		
20-Feb-18	Ryerson Metal Inc	0.43		6.30			0.93	54.4	26.7	0.05		
20-Feb-18	University Ave. Pump Station	1.03		6.38			1.03	55.8	27.5	0.05		
20-Feb-18	Highland Road Pump Station	0.44		6.39			1.08	54.1	26.6	0.18		
20-Feb-18	Kennebecasis Drive	1.04		6.42			0.88	56.1	27.5	0.06		
20-Feb-18	Bridge Road (Zone 8)	0.66		7.78			4.29	534.7	262.3	0.47		
20-Feb-18	Fundy Linen	0.78		7.81			0.15	539.4	264.9	non detect		
20-Feb-18	Travelodge Suites	0.80		7.81			0.15	535.7	262.9	non detect		
20-Feb-18	PRV 24	0.93		7.82			0.26	544.1	267.2	non detect		
21-Feb-18	Doiron's	0.73		7.92			0.15	513.9	252.6	non detect		
20-Feb-18	Churchill Heights Tank (Out)	1.06		7.81			0.12	561.4	275.4	non detect		
20-Feb-18	Carleton Community Center	0.78		7.82			0.13	540.0	265.1	non detect		
20-Feb-18	Spruce Lake Fluoride Analyzer	0.96		7.80				573.8	281.6	non detect		
20-Feb-18	Centracare	0.72		7.82			0.16	539.4	264.9	non detect		
20-Feb-18	Jones Variety	0.78		7.88			0.35	556.3	273.0	non detect		
20-Feb-18	Dunn Ave	0.88		7.82			0.18	535.8	262.9	non detect		
20-Feb-18	Operations Complex (Rothesay Ave.)	0.46		6.40			0.81	56.1	27.6	0.11		
20-Feb-18	Little River Line#4 (Outside Chamber)	2.10		6.33			1.06	53.7	26.3	0.03		
20-Feb-18	Little River Line#2	1.98		6.31			0.89	53.2	26.1	0.04		
20-Feb-18	Little River Line#3	1.89		6.33			1.01	53.4	26.2	0.05		
20-Feb-18	Latimer Lake Line #1 (39" A)	3.20		6.26				53.0	26.1	0.04		
20-Feb-18	Latimer Lake Line #2 (42" B)	2.80		6.28				53.0	26.0	0.04		
20-Feb-18	Champlain Heights Pumping Stn.	2.04		6.25			0.99	53.3	26.2	0.05		
20-Feb-18	Millidgeville Treatment Plant	0.39		6.33			1.14	56.3	27.6	0.18		
20-Feb-18	Spruce Lake (Raw)			7.31	3.8		0.51	40.4	19.9	0.05	18	16
20-Feb-18	Latimer Lake 42" B (Raw)			6.89	8.6	0.013	1.01	50.0	24.6	0.03	18	18
20-Feb-18	Latimer Lake 39"A (Raw)			6.92		0.015	0.92	50.1	24.5	0.03		
20-Feb-18	Eastern Wastewater Treatment Plant	1.43	1.67	6.23			0.91	54.2	26.7	0.05		
20-Feb-18	Ocean Drive			7.93	79.0		0.21	301.7	148.0	non detect		
20-Feb-18	Seaward Crescent			7.99	92.0		1.05	246.1	120.8	0.06		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
27-Feb-18	36 Park Drive	1.09		6.43			0.89	53.8	26.4	0.05		
27-Feb-18	Willie Avenue Standpipe	0.66		6.36			1.02	53.3	26.2	0.03		
27-Feb-18	Somerset Street (pump Stn.)	1.26		6.35			1.01	52.5	25.8	0.04		
27-Feb-18	Golden Grove Road	0.71		6.31			1.03	53.2	26.1	0.07		
27-Feb-18	Harris & Roome	0.27		6.31			1.02	55.7	27.4	0.08		
27-Feb-18	NBCCSJ	1.20		6.42			1.07	53.5	26.2	0.08		
27-Feb-18	Ryerson Metal Inc	0.34		6.32			0.93	53.2	26.1	0.05		
27-Feb-18	University Ave. Pump Station	0.86		6.36			0.91	55.6	27.2	0.05		
27-Feb-18	Highland Road Pump Station	0.40		6.32			1.08	54.1	26.6	0.17		
27-Feb-18	Kennebecasis Drive	1.14		6.37			1.01	55.2	27.0	0.05		
27-Feb-18	Bridge Road (Zone 8)	0.38		7.83			1.35	507.4	248.9	0.23		
27-Feb-18	Fundy Linen	0.74		7.87			0.10	506.1	248.6	non detect		
27-Feb-18	Travelodge Suites	0.78		7.84			0.09	507.4	249.1	non detect		
27-Feb-18	PRV 24	0.93		7.92			0.09	508.0	249.5	non detect		
27-Feb-18	Doiron's	0.75		7.88			0.13	507.2	248.8	non detect		
27-Feb-18	Churchill Heights Tank (Out)	1.06		7.91			0.14	518.5	254.6	non detect		
27-Feb-18	Carleton Community Center	0.72		7.89			0.06	507.3	249.0	non detect		
27-Feb-18	Spruce Lake Fluoride Analyzer	0.93		7.90				505.8	248.5	non detect		
27-Feb-18	Centracare	0.70		7.88			0.12	507.1	248.9	non detect		
27-Feb-18	Jones Variety	0.74		7.88			0.07	522.7	256.8	non detect		
27-Feb-18	Dunn Ave	0.74		7.89			0.11	506.3	248.4	non detect		
27-Feb-18	Operations Complex (Rothesay Ave.)	0.78		6.34			0.84	54.5	26.8	0.12		
27-Feb-18	Little River Line#4 (Outside Chamber)	2.80		6.25			0.92	52.5	25.9	0.04		
27-Feb-18	Little River Line#2	1.75		6.28			0.92	52.3	25.6	0.04		
27-Feb-18	Little River Line#3	2.10		6.30			0.92	52.1	25.7	0.05		
27-Feb-18	Latimer Lake Line #1 (39" A)	2.90		6.29				53.1	26.0	0.04		
27-Feb-18	Latimer Lake Line #2 (42" B)	3.20		6.27				52.2	25.7	0.04		
27-Feb-18	Champlain Heights Pumping Stn.	2.04		6.25			0.98	52.8	25.9	0.05		
27-Feb-18	Millidgeville Treatment Plant	0.93		6.27			1.02	54.4	26.7	0.07		
27-Feb-18	Spruce Lake (Raw)			6.65	3.4		0.42	36.4	17.9	0.06	28	19
27-Feb-18	Latimer Lake 42" B (Raw)			6.80	8.7	0.032	1.16	49.7	24.3	0.04	27	18
27-Feb-18	Latimer Lake 39"A (Raw)			6.79		0.019	0.93	49.7	24.5	0.04		
27-Feb-18	Eastern Wastewater Treatment Plant	0.58	0.66	6.28			0.92	54.0	26.5	0.07		
27-Feb-18	Ocean Drive			7.93	82.0		0.10	298.1	146.7	non detect		
27-Feb-18	Seaward Crescent			7.96	87.0		4.96	241.9	118.7	0.49		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
6-Mar-18	36 Park Drive	1.04		6.43			0.96	54.2	26.5	0.05		
6-Mar-18	Willie Avenue Standpipe	0.60		6.36			0.89	54.0	26.4	0.06		
6-Mar-18	Somerset Street (pump Stn.)	1.11		6.19			1.09	54.5	26.7	0.06		
6-Mar-18	Golden Grove Road	0.78		6.38			0.98	54.3	26.6	0.09		
6-Mar-18	Harris & Roome	0.38		6.15			1.04	55.7	27.3	0.11		
6-Mar-18	NBCCSJ	0.71		6.38			1.09	54.6	26.8	0.22		
6-Mar-18	Ryerson Metal Inc	0.26		6.24			1.35	54.7	26.8	0.06		
6-Mar-18	University Ave. Pump Station	1.33		6.23			1.19	58.5	28.7	0.06		
6-Mar-18	Highland Road Pump Station	0.50		6.25			0.95	55.6	27.3	0.20		
6-Mar-18	Kennebecasis Drive	1.22		6.25			0.96	56.6	27.7	0.05		
6-Mar-18	Bridge Road (Zone 8)	0.48		7.85			2.46	515.6	253.0	0.28		
6-Mar-18	Fundy Linen	0.72		7.82			0.07	515.7	252.7	0.02		
6-Mar-18	Travelodge Suites	0.87		7.79			0.10	517.7	253.5	non detect		
6-Mar-18	PRV 24	0.90		7.98			0.09	517.7	254.1	non detect		
6-Mar-18	Doiron's	0.74		7.92			0.08	516.5	252.8	non detect		
6-Mar-18	Churchill Heights Tank (Out)	1.09		7.92			0.12	517.5	253.4	0.02		
6-Mar-18	Carleton Community Center	0.73		7.89			0.10	514.0	252.0	non detect		
6-Mar-18	Spruce Lake Fluoride Analyzer	0.94		7.88			0.11	513.9	251.9	non detect		
6-Mar-18	Centracare	0.86		7.91			0.09	513.6	251.7	non detect		
6-Mar-18	Jones Variety	0.69		7.85			0.09	514.7	252.1	non detect		
6-Mar-18	Dunn Ave	0.80		7.88			0.09	514.4	252.0	non detect		
6-Mar-18	Operations Complex (Rothesay Ave.)	0.61		6.23			0.94	56.4	27.7	0.22		
6-Mar-18	Little River Line#4 (Outside Chamber)	2.70		6.34			0.85	56.5	27.5	0.04		
6-Mar-18	Little River Line#2	1.77		6.23			0.91	53.8	26.4	0.04		
6-Mar-18	Little River Line#3	1.95		6.19			0.90	53.7	26.3	0.05		
6-Mar-18	Latimer Lake Line #1 (39" A)	2.90		6.20			1.06	53.4	26.2	0.04		
6-Mar-18	Latimer Lake Line #2 (42" B)	3.10		6.17			1.11	53.8	26.3	0.04		
6-Mar-18	Champlain Heights Pumping Stn.	1.89		6.16			0.95	54.8	26.8	0.05		
6-Mar-18	Millidgeville Treatment Plant	0.63		6.17			1.14	56.8	27.9	0.10		
6-Mar-18	Spruce Lake (Raw)			6.61	3.7		0.45	38.5	18.8	0.05	19	17
6-Mar-18	Latimer Lake 42" B (Raw)			7.04	8.6	0.012	0.91	51.4	25.1	0.04	22	17
6-Mar-18	Latimer Lake 39"A (Raw)			6.94		0.020	1.02	51.8	25.4	0.04		
6-Mar-18	Eastern Wastewater Treatment Plant	0.91	1.11	6.33			1.19	54.4	26.8	0.08		
6-Mar-18	Ocean Drive			7.88	83.0		0.27	304.2	149.4	non detect		
6-Mar-18	Seaward Crescent			7.78	89.0		2.92	246.7	120.8	0.23		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
12-Mar-18	36 Park Drive	1.16		6.50			0.88	54.3	26.7	0.05		
12-Mar-18	Willie Avenue Standpipe	0.59		6.32			0.95	54.6	26.9	0.06		
12-Mar-18	Somerset Street (pump Stn.)	1.53		6.24			1.02	54.7	26.8	0.05		
12-Mar-18	Golden Grove Road	1.10		6.34			0.95	45	27.0	0.09		
12-Mar-18	Harris & Roome	0.95		6.19			1.07	54.4	26.7	0.09		
12-Mar-18	NBCCSJ	1.37		6.41			1.21	54.2	26.7	0.07		
12-Mar-18	Ryerson Metal Inc	1.16		6.21			1.03	57.5	28.0	0.06		
12-Mar-18	University Ave. Pump Station	1.42		6.22			1.74	55.4	27.2	0.09		
12-Mar-18	Highland Road Pump Station	0.41		6.29			0.98	54.7	26.9	0.20		
12-Mar-18	Kennebecasis Drive	1.04		6.34			0.95	57.8	28.3	0.06		
12-Mar-18	Bridge Road (Zone 8)	0.61		7.89			1.59	518.6	254.4	0.17		
12-Mar-18	Fundy Linen	0.89		7.91			0.24	517.9	254.0	non detect		
12-Mar-18	Travelodge Suites	1.01		7.94			0.10	518.8	254.9	non detect		
12-Mar-18	PRV 24	0.94		8.04			0.12	522.3	256.4	0.02		
12-Mar-18	Doiron's	0.81		8.00			0.13	517.4	250.6	non detect		
12-Mar-18	Churchill Heights Tank (Out)	1.10		8.04			0.25	517.9	253.9	non detect		
12-Mar-18	Carleton Community Center	0.81		8.01			0.32	519.1	252.5	non detect		
12-Mar-18	Spruce Lake Fluoride Analyzer	0.99		7.96				521.4	256.1	non detect		
12-Mar-18	Centracare	0.81		8.05			0.31	509.2	250.5	non detect		
12-Mar-18	Jones Variety	0.69		8.05			0.23	519.4	255.2	non detect		
12-Mar-18	Dunn Ave	0.82		8.03			0.67	516.2	253.3	non detect		
12-Mar-18	Operations Complex (Rothesay Ave.)	1.04		6.28			1.06	55.3	27.2	0.08		
12-Mar-18	Little River Line#4 (Outside Chamber)	2.50		6.30			1.22	57.4	28.2	0.05		
12-Mar-18	Little River Line#2	1.82		6.22			0.89	53.2	26.2	0.04		
12-Mar-18	Little River Line#3	1.83		6.23			1.08	54.9	26.9	0.05		
12-Mar-18	Latimer Lake Line #1 (39" A)	3.00		6.18				53.4	26.3	0.04		
12-Mar-18	Latimer Lake Line #2 (42" B)	3.00		6.25				54.0	26.5	0.05		
12-Mar-18	Champlain Heights Pumping Stn.	1.84		6.21			1.01	54.9	27.0	0.05		
12-Mar-18	Millidgeville Treatment Plant	0.27		6.37			1.66	58.0	28.5	0.09		
12-Mar-18	Spruce Lake (Raw)			6.94	3.4		0.56	37.4	18.4	0.05	18	17
12-Mar-18	Latimer Lake 42" B (Raw)			7.02	8.6	0.016	0.84	50.2	24.6	0.04	17	15
12-Mar-18	Latimer Lake 39"A (Raw)			6.98		0.015	0.96	43.9	21.6	0.03		
13-Mar-18	Eastern Wastewater Treatment Plant	0.62	0.76	6.37			1.51	54.8	27.0	0.06		
12-Mar-18	Ocean Drive			8.02	82.0		0.07	299.1	146.8	non detect		
12-Mar-18	Seaward Crescent			8.03	89.0		2.63	224.2	110.8	0.26		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
20-Mar-18	36 Park Drive	1.15		6.11			1.48	63.6	31.2	0.05		
20-Mar-18	Willie Avenue Standpipe	0.62		6.11			0.86	55.7	27.2	0.06		
20-Mar-18	Somerset Street (pump Stn.)	1.46		6.00			0.94	55.8	27.3	0.06		
20-Mar-18	Golden Grove Road	0.99		6.01			0.89	56.0	27.3	0.08		
20-Mar-18	Harris & Roome	0.91		6.10			1.24	57.0	28.0	0.09		
20-Mar-18	NBCCSJ	0.80		6.11			1.13	58.7	28.1	0.08		
20-Mar-18	Ryerson Metal Inc	0.47		6.04			0.90	56.3	27.7	0.06		
20-Mar-18	University Ave. Pump Station	1.13		6.16			1.09	58.3	28.5	0.05		
20-Mar-18	Highland Road Pump Station	0.38		6.13			0.93	56.7	27.3	0.18		
20-Mar-18	Kennebecasis Drive	1.01		6.16			0.87	57.4	28.6	0.05		
20-Mar-18	Bridge Road (Zone 8)	0.36		7.86			0.96	515.5	252.4	0.12		
20-Mar-18	Fundy Linen	0.76		7.92			0.41	523.6	256.6	non detect		
20-Mar-18	Travelodge Suites	0.81		7.87			0.13	522.0	255.5	non detect		
20-Mar-18	PRV 24	0.95		7.91			0.42	522.5	256.0	non detect		
20-Mar-18	Doiron's	0.93		7.91			0.44	521.8	255.5	non detect		
20-Mar-18	Churchill Heights Tank (Out)	0.94		7.95			0.54	524.2	256.8	0.02		
20-Mar-18	Carleton Community Center	0.68		7.93			0.22	521.2	255.1	non detect		
20-Mar-18	Spruce Lake Fluoride Analyzer	0.96		7.95				525.0	257.3	non detect		
20-Mar-18	Centracare	0.60		7.93			0.41	521.8	255.4	non detect		
20-Mar-18	Jones Variety	0.79		7.91			0.64	523.0	256.2	non detect		
20-Mar-18	Dunn Ave	0.73		7.93			0.73	523.7	256.4	non detect		
20-Mar-18	Operations Complex (Rothesay Ave.)	0.91		6.08			0.87	57.6	28.6	0.10		
20-Mar-18	Little River Line#4 (Outside Chamber)	2.70		6.07			0.92	56.7	27.6	0.04		
20-Mar-18	Little River Line#2	1.86		6.10			0.97	56.5	27.9	0.05		
20-Mar-18	Little River Line#3	1.81		6.15			0.97	57.2	27.9	0.05		
20-Mar-18	Latimer Lake Line #1 (39" A)			6.04				56.7	27.9	0.04		
20-Mar-18	Latimer Lake Line #2 (42" B)	2.90		6.11				56.3	27.5	0.04		
20-Mar-18	Champlain Heights Pumping Stn.	1.90		6.03			1.08	57.1	28.0	0.05		
20-Mar-18	Millidgeville Treatment Plant	0.63		6.22			0.90	61.6	30.0	0.13		
20-Mar-18	Spruce Lake (Raw)			6.48	3.6		0.71	45.1	22.2	0.06	14	8
20-Mar-18	Latimer Lake 42" B (Raw)			6.92	8.4	0.021	1.01	57.0	27.8	0.07	10	10
20-Mar-18	Latimer Lake 39"A (Raw)			6.82		0.018	1.04	54.6	26.6	0.03		
20-Mar-18	Eastern Wastewater Treatment Plant	1.38	1.56	6.08			1.08	59.0	29.0	0.06		
20-Mar-18	Ocean Drive			8.08	82.0		0.28	303.7	148.7	non detect		
20-Mar-18	Seaward Crescent			8.11	91.0		1.03	247.4	121.4	0.08		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
27-Mar-18	36 Park Drive	1.06		6.16			0.78	56.9	28.2	0.04		
27-Mar-18	Willie Avenue Standpipe	1.18		6.16			1.06	56.2	27.7	0.08		
27-Mar-18	Somerset Street (pump Stn.)	1.48		6.16			0.96	56.2	27.7	0.04		
27-Mar-18	Golden Grove Road	1.00		6.16			0.89	55.5	27.4	0.08		
27-Mar-18	Harris & Roome	0.46		6.24			1.05	56.9	28.0	0.09		
27-Mar-18	NBCCSJ	0.71		6.21			1.12	56.5	27.9	0.11		
27-Mar-18	Ryerson Metal Inc	1.26		6.11			0.81	56.0	27.6	0.06		
27-Mar-18	University Ave. Pump Station	1.34		6.15			1.00	55.2	27.7	0.05		
27-Mar-18	Highland Road Pump Station	0.45		6.21			1.06	56.1	27.6	0.22		
27-Mar-18	Kennebecasis Drive	1.46		6.22			0.97	56.0	27.7	0.04		
27-Mar-18	Bridge Road (Zone 8)	0.38		7.92			0.39	525.6	258.1	0.10		
27-Mar-18	Fundy Linen	0.76		7.95			0.07	528.3	261.0	non detect		
27-Mar-18	Travelodge Suites	0.82		7.94			0.11	528.2	259.3	non detect		
27-Mar-18	PRV 24	0.79		7.98			0.14	529.1	261.3	non detect		
27-Mar-18	Doiron's	0.71		7.99			0.19	533.5	261.0	0.02		
27-Mar-18	Churchill Heights Tank (Out)	1.02		8.00			0.09	526.9	259.5	non detect		
27-Mar-18	Carleton Community Center	0.75		7.97			0.06	524.4	257.3	non detect		
27-Mar-18	Spruce Lake Fluoride Analyzer	0.92		7.98				524.6	258.0	non detect		
27-Mar-18	Centracare	0.69		8.00			0.07	527.2	259.5	non detect		
27-Mar-18	Jones Variety	0.78		8.01			0.13	526.1	259.2	non detect		
27-Mar-18	Dunn Ave	0.71		8.00			0.09	526.9	259.5	non detect		
27-Mar-18	Operations Complex (Rothesay Ave.)	0.67		6.23			1.15	55.6	27.3	0.10		
27-Mar-18	Little River Line#4 (Outside Chamber)	2.50		6.08			1.10	54.0	26.8	0.05		
27-Mar-18	Little River Line#2	1.72		6.24			1.00	54.8	26.8	0.04		
27-Mar-18	Little River Line#3	1.82		6.20			1.08	53.3	26.4	0.05		
27-Mar-18	Latimer Lake Line #1 (39" A)	2.90		6.14				53.6	26.4	0.05		
27-Mar-18	Latimer Lake Line #2 (42" B)	2.90		6.15				53.8	26.6	0.05		
27-Mar-18	Champlain Heights Pumping Stn.	1.96		6.12			1.00	55.7	27.3	0.06		
27-Mar-18	Millidgeville Treatment Plant	0.65		6.31			1.14	57.1	28.5	0.13	16	20
27-Mar-18	Spruce Lake (Raw)			6.43	3.7		0.41	39.9	18.2	0.05	21	25
27-Mar-18	Latimer Lake 42" B (Raw)			6.99	9.2	0.021	0.96	51.1	25.0	0.03		
27-Mar-18	Latimer Lake 39"A (Raw)			6.95		0.026	1.15	51.4	25.5	0.04		
27-Mar-18	Eastern Wastewater Treatment Plant	1.35	1.53	6.13			0.95	55.7	27.4	0.04		
27-Mar-18	Ocean Drive			7.98	85.0		0.12	300.7	148.7	non detect		
27-Mar-18	Seaward Crescent			8.00	88.0		0.26	247.9	122.0	0.03		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
3-Apr-18	36 Park Drive	0.97		6.29			0.87	57.0	28.1	0.04		
3-Apr-18	Willie Avenue Standpipe	0.51		6.28			0.82	58.9	29.3	0.04		
3-Apr-18	Somerset Street (pump Stn.)	1.25		6.15			0.92	56.0	27.5	0.05		
3-Apr-18	Golden Grove Road	0.89		6.25			0.97	57.5	28.2	0.08		
3-Apr-18	Harris & Roome	0.47		6.45			0.97	58.6	28.9	0.08		
3-Apr-18	NBCCSJ	0.58		6.26			2.76	56.4	27.8	0.17		
3-Apr-18	Ryerson Metal Inc	1.26		6.17			0.91	56.8	27.9	0.06		
3-Apr-18	University Ave. Pump Station	1.42		6.17			1.11	58.5	28.4	0.05		
3-Apr-18	Highland Road Pump Station	0.44		6.23			0.89	58.4	29.1	0.16		
3-Apr-18	Kennebecasis Drive	1.16		6.21			0.91	58.3	28.1	0.05		
3-Apr-18	Bridge Road (Zone 8)	0.35		7.72			1.01	527.7	259.1	0.18		
3-Apr-18	Fundy Linen	0.82		7.77			0.22	529.3	259.9	non detect		
3-Apr-18	Travelodge Suites	0.83		7.74			0.08	529.7	260.5	non detect		
3-Apr-18	PRV 24	0.87		7.77			0.17	531.1	260.7	non detect		
3-Apr-18	Doiron's	0.76		7.78			0.17	531.3	261.1	0.02		
3-Apr-18	Churchill Heights Tank (Out)	1.10		7.89			0.11	530.6	260.3	non detect		
3-Apr-18	Carleton Community Center	0.66		7.80			0.16	528.2	260.7	0.03		
3-Apr-18	Spruce Lake Fluoride Analyzer	0.95		7.78				530.7	260.8	non detect		
3-Apr-18	Centracare	0.55		7.82			0.12	526.6	259.5	0.02		
3-Apr-18	Jones Variety	0.73		7.80			0.07	526.8	258.7	non detect		
3-Apr-18	Dunn Ave	0.83		7.79			0.09	528.7	260.1	non detect		
3-Apr-18	Operations Complex (Rothesay Ave.)	0.64		6.22			0.99	56.2	27.8	0.09		
3-Apr-18	Little River Line#4 (Outside Chamber)	2.50		6.11			0.92	55.3	27.1	0.05		
3-Apr-18	Little River Line#2	1.61		6.18			0.95	54.8	27.0	0.05		
3-Apr-18	Little River Line#3	2.00		6.15			1.01	55.5	27.2	0.04		
3-Apr-18	Latimer Lake Line #1 (39" A)	2.90		6.18				54.9	27.0	0.04		
3-Apr-18	Latimer Lake Line #2 (42" B)	3.00		6.17				54.9	26.9	0.05		
3-Apr-18	Champlain Heights Pumping Stn.	1.89		6.14			1.22	55.2	27.3	0.05		
3-Apr-18	Millidgeville Treatment Plant	0.77		6.35			1.32	59.0	28.8	0.29		
3-Apr-18	Spruce Lake (Raw)			6.26	4.1		0.55	37.6	18.5	0.05	23	21
3-Apr-18	Latimer Lake 42" B (Raw)			6.99	8.8	0.021	0.89	52.9	26.2	0.04	28	24
3-Apr-18	Latimer Lake 39"A (Raw)			6.97		0.018	0.89	52.0	25.4	0.04		
3-Apr-18	Eastern Wastewater Treatment Plant	1.37	1.52	6.21			1.16	55.9	27.1	0.06		
3-Apr-18	Ocean Drive			8.07	84		0.07	307.5	151.3	non detect		
3-Apr-18	Seaward Crescent			8.08	91		1.61	521.8	123.9	0.16		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
10-Apr-18	36 Park Drive	0.92		6.42			0.88	56.6	28.1	0.04		
10-Apr-18	Willie Avenue Standpipe	1.69		6.33			1.05	55.4	27.1	0.06		
10-Apr-18	Somerset Street (pump Stn.)	1.25		6.36			1.17	55.1	27.3	0.05		
10-Apr-18	Golden Grove Road	0.87		6.36			0.97	56.4	27.4	0.08		
10-Apr-18	Harris & Roome	0.79		6.33			1.06	56.2	27.9	0.10		
10-Apr-18	NBCCSJ	1.45		6.34			1.25	55.7	27.1	0.06		
10-Apr-18	Ryerson Metal Inc	0.68		6.41			0.94	59.8	29.6	0.05		
10-Apr-18	University Ave. Pump Station	1.45		6.34			1.16	56.8	27.7	0.05		
10-Apr-18	Highland Road Pump Station	0.47		6.28			0.90	56.2	27.8	0.17		
10-Apr-18	Kennebecasis Drive	1.25		6.36			0.93	57.7	28.2	0.04		
10-Apr-18	Bridge Road (Zone 8)	0.36		7.82			0.63	528.5	259.8	0.12		
10-Apr-18	Fundy Linen	0.91		7.85			0.19	530.7	260.3	non detect		
10-Apr-18	Travelodge Suites	0.81		7.82			0.35	528.1	260.0	non detect		
10-Apr-18	PRV 24	0.92		7.85			0.11	529.3	260.1	non detect		
10-Apr-18	Doiron's	0.73		7.87			0.12	528.9	259.8	non detect		
10-Apr-18	Churchill Heights Tank (Out)	1.16		7.94			0.14	530.6	260.7	non detect		
10-Apr-18	Carleton Community Center	0.77		7.87			0.13	529.0	259.8	non detect		
10-Apr-18	Spruce Lake Fluoride Analyzer	0.92		7.89			0.17	530.0	260.5	non detect		
10-Apr-18	Centracare	0.70		7.91			0.20	528.4	259.5	non detect		
10-Apr-18	Jones Variety	0.75		7.91			0.18	528.8	259.9	non detect		
10-Apr-18	Dunn Ave	0.79		7.86			0.10	529.0	259.8	non detect		
10-Apr-18	Operations Complex (Rothesay Ave.)	0.94		6.28			0.92	56.3	27.8	0.09		
10-Apr-18	Little River Line#4 (Outside Chamber)	2.40		6.28			1.04	55.8	27.2	0.05		
10-Apr-18	Little River Line#2	1.71		6.37			1.03	54.7	27.1	0.04		
10-Apr-18	Little River Line#3	1.85		6.34			1.08	56.9	27.4	0.05		
10-Apr-18	Latimer Lake Line #1 (39" A)	2.80		6.28				54.9	27.4	0.05		
10-Apr-18	Latimer Lake Line #2 (42" B)	2.80		6.34				54.9	26.9	0.14		
10-Apr-18	Champlain Heights Pumping Stn.	2.05		6.26			1.15	54.9	27.2	0.06		
10-Apr-18	Millidgeville Treatment Plant	0.62		6.32			1.01	57.9	28.2	0.14		
10-Apr-18	Spruce Lake (Raw)			6.35	3.0		0.63	34.9	17.2	0.05	20	16
10-Apr-18	Latimer Lake 42" B (Raw)			7.08	9.3	0.017	1.00	52.0	25.7	0.04	23	16
10-Apr-18	Latimer Lake 39"A (Raw)			7.09		0.019	0.96	52.3	25.6	0.04		
10-Apr-18	Eastern Wastewater Treatment Plant	1.28	1.45	6.21			0.99	57.2	28.2	0.06		
10-Apr-18	Ocean Drive			8.05	85.0		0.08	304.6	149.7	non detect		
10-Apr-18	Seaward Crescent			8.05	91.0		1.32	248.8	122.2	0.10		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
17-Apr-18	36 Park Drive	1.02		6.31			0.93	56.8	28.0	0.05		
17-Apr-18	Willie Avenue Standpipe	0.62		6.19			1.03	57.1	28.1	0.07		
17-Apr-18	Somerset Street (pump Stn.)	1.43		6.04			1.13	56.4	27.5	0.05		
17-Apr-18	Golden Grove Road	1.10		6.26			1.01	57.6	28.3	0.08		
17-Apr-18	Harris & Roome	0.15		6.35			1.53	56.5	28.0	0.13		
17-Apr-18	NBCCSJ	1.45		6.32			1.63	57.1	28.1	0.08		
17-Apr-18	Ryerson Metal Inc	0.68		6.28			0.98	57.4	28.1	0.06		
17-Apr-18	University Ave. Pump Station	0.95		6.23			1.13	59.7	28.8	0.05		
17-Apr-18	Highland Road Pump Station	0.36		6.23			0.97	56.8	28.0	0.18		
17-Apr-18	Kennebecasis Drive	1.06		6.15			0.99	57.6	28.1	0.06		
17-Apr-18	Bridge Road (Zone 8)	0.45		7.89			0.58	533.6	261.8	0.06		
17-Apr-18	Fundy Linen	0.67		7.93			0.20	533.2	261.9	non detect		
17-Apr-18	Travelodge Suites	0.91		7.91			0.11	535.1	262.6	non detect		
17-Apr-18	PRV 24	0.86		7.91			0.09	536.2	263.3	non detect		
17-Apr-18	Doiron's	0.81		7.94			0.12	534.3	262.1	non detect		
17-Apr-18	Churchill Heights Tank (Out)	1.16		7.98			0.25	533.9	262.3	0.02		
17-Apr-18	Carleton Community Center	0.75		7.85			0.13	532.9	261.6	non detect		
17-Apr-18	Spruce Lake Fluoride Analyzer	0.94		7.88				531.2	260.9	non detect		
17-Apr-18	Centracare	0.71		7.86			0.10	534.1	262.1	non detect		
17-Apr-18	Jones Variety	0.74		7.82			0.23	532.4	261.5	non detect		
17-Apr-18	Dunn Ave	0.80		7.86			0.12	534.2	262.1	non detect		
17-Apr-18	Operations Complex (Rothesay Ave.)	0.95		6.17			1.13	56.3	27.8	0.07		
17-Apr-18	Little River Line#4 (Outside Chamber)	2.50		6.10			2.60	56.3	27.4	0.07		
17-Apr-18	Little River Line#2	1.88		6.16			1.32	55.9	27.9	0.06		
17-Apr-18	Little River Line#3	2.00		6.09			1.25	55.9	27.1	0.04		
17-Apr-18	Latimer Lake Line #1 (39" A)	3.30		6.08				54.9	27.0	0.06		
17-Apr-18	Latimer Lake Line #2 (42" B)	3.40		6.09				55.5	27.2	0.05		
17-Apr-18	Champlain Heights Pumping Stn.	1.96		6.07			1.17	55.7	27.5	0.05		
17-Apr-18	Millidgeville Treatment Plant	0.36		6.25			0.94	58.0	28.2	0.12		
17-Apr-18	Spruce Lake (Raw)			6.50	3.9		0.86	42.2	20.8	0.07	20	15
17-Apr-18	Latimer Lake 42" B (Raw)			7.13	8.2	0.022	1.26	53.5	26.1	0.05	19	15
17-Apr-18	Latimer Lake 39"A (Raw)			6.99		0.024	1.62	53.3	26.3	0.05		
17-Apr-18	Eastern Wastewater Treatment Plant	0.48		6.21			1.14	57.6	28.3	0.08		
17-Apr-18	Ocean Drive			8.03	84.0		0.32	312.2	153.1	non detect		
17-Apr-18	Seaward Crescent			8.04	91.0		1.05	248.7	122.1	0.08		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
24-Apr-18	36 Park Drive	1.11		6.21			0.90	55.3	27.2	0.05		
24-Apr-18	Willie Avenue Standpipe	0.66		6.18			0.83	55.7	27.2	0.06		
24-Apr-18	Somerset Street (pump Stn.)	1.46		6.19			0.86	56.0	27.4	0.05		
24-Apr-18	Golden Grove Road	1.08		6.16			0.74	55.6	27.2	0.08		
24-Apr-18	Harris & Roome	0.41		6.45			0.94	60.5	29.9	0.10		
24-Apr-18	NBCCSJ	0.50		6.22			1.23	57.7	27.7	0.16		
24-Apr-18	Ryerson Metal Inc	0.44		6.22			0.77	56.8	27.9	0.05		
24-Apr-18	University Ave. Pump Station	1.05		6.16			0.75	58.2	28.5	0.06		
24-Apr-18	Highland Road Pump Station	0.40		6.22			0.73	56.0	27.5	0.14		
24-Apr-18	Kennebecasis Drive	0.91		6.22			0.77	57.3	28.0	0.05		
24-Apr-18	Bridge Road (Zone 8)	0.72		7.92			1.07	533.8	261.9	0.17		
24-Apr-18	Fundy Linen	0.96		7.88			0.55	535.3	262.3	0.09		
24-Apr-18	Travelodge Suites	0.92		7.91			0.08	535.2	262.6	non detect		
24-Apr-18	PRV 24	1.10		7.95			0.08	535.8	262.6	non detect		
24-Apr-18	Doiron's	0.98		7.95			0.10	535.4	262.6	non detect		
24-Apr-18	Churchill Heights Tank (Out)	1.09		7.96			0.10	526.4	258.0	non detect		
24-Apr-18	Carleton Community Center	0.92		7.90			0.08	534.8	262.3	non detect		
24-Apr-18	Spruce Lake Fluoride Analyzer	1.08		7.96				533.1	261.3	non detect		
24-Apr-18	Centracare	0.82		7.94			0.23	533.9	261.8	non detect		
24-Apr-18	Jones Variety	0.68		7.94			0.21	534.3	262.0	non detect		
24-Apr-18	Dunn Ave	0.96		7.94			0.07	534.3	262.1	non detect		
24-Apr-18	Operations Complex (Rothesay Ave.)	0.32		6.44			0.82	57.9	28.5	0.25		
	Little River Line#4 (Outside Chamber)											
24-Apr-18	Little River Line#2	2.02		6.22			0.83	54.9	26.6	0.04		
24-Apr-18	Little River Line#3	2.70		6.14			0.95	54.9	27.0	0.04		
24-Apr-18	Latimer Lake Line #1 (39" A)	2.90		6.20			0.86	54.3	26.4	0.05		
24-Apr-18	Latimer Lake Line #2 (42" B)	3.00		6.18			0.90	54.8	26.8	0.05		
24-Apr-18	Champlain Heights Pumping Stn.	1.84		6.11			0.69	54.7	26.6	0.09		
24-Apr-18	Millidgeville Treatment Plant	0.74		6.13			0.75	56.4	27.7	0.09		
24-Apr-18	Spruce Lake (Raw)			6.37	3.0		0.52	39.7	19.7	0.06	20	17
24-Apr-18	Latimer Lake 42" B (Raw)			6.99	7.9	0.024	0.89	50.9	24.9	0.04	21	17
24-Apr-18	Latimer Lake 39"A (Raw)			6.96		0.018	0.85	51.4	25.3	0.04		
24-Apr-18	Eastern Wastewater Treatment Plant	1.34	1.48	6.07			0.82	59.3	29.1	0.08		
24-Apr-18	Ocean Drive			8.09	85.0		0.09	312.2	153.1	0.00		
24-Apr-18	Seaward Crescent			8.11	92.0		0.31	245.7	120.5	0.05		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
1-May-18	36 Park Drive	0.95		6.45			1.04	55.6	27.3	0.04		
1-May-18	Willie Avenue Standpipe	0.53		6.34			1.07	55.8	27.4	0.05		
1-May-18	Somerset Street (pump Stn.)	1.33		6.32			1.42	54.7	26.9	0.05		
1-May-18	Golden Grove Road	1.06		6.36			1.09	55.0	27.0	0.06		
1-May-18	Harris & Roome	0.30		6.27			1.07	56.0	27.5	0.13		
1-May-18	NBCCSJ	0.95		6.45			1.22	54.9	27.0	0.09		
1-May-18	Ryerson Metal Inc	0.59		6.18			1.03	56.4	27.7	0.06		
1-May-18	University Ave. Pump Station	1.49		6.30			1.89	57.5	28.2	0.06		
1-May-18	Highland Road Pump Station	0.37		6.25			0.98	55.9	27.5	0.12		
1-May-18	Kennebecasis Drive	1.15		6.11			0.90	57.9	28.5	0.04		
1-May-18	Bridge Road (Zone 8)	0.82		7.98			2.40	532.1	262.2	0.27		
1-May-18	Fundy Linen	0.97		7.96			0.37	531.2	261.8	0.05		
1-May-18	Travelodge Suites	0.82		7.92			0.06	532.6	262.1	non detect		
1-May-18	PRV 24	1.03		7.91			0.10	531.6	262.0	non detect		
1-May-18	Doiron's	0.89		7.89			0.06	531.9	262.3	non detect		
1-May-18	Churchill Heights Tank (Out)	1.09		7.90			0.08	530.6	261.4	non detect		
1-May-18	Carleton Community Center	0.91		7.93			0.13	532.0	262.3	non detect		
1-May-18	Spruce Lake Fluoride Analyzer	1.00		7.86				533.0	262.6	0.02		
1-May-18	Centracare	0.91		7.92			0.10	531.9	262.5	non detect		
1-May-18	Jones Variety	0.88		8.07			0.06	531.5	261.9	non detect		
1-May-18	Dunn Ave	0.95		7.82			0.06	531.9	262.2	non detect		
1-May-18	Operations Complex (Rothesay Ave.)	0.37		6.21			0.87	56.0	27.5	0.11		
1-May-18	Little River Line#4 (Outside Chamber)	2.20		6.06			1.44	54.6	26.8	0.04		
1-May-18	Little River Line#2	1.81		6.07			1.19	54.5	26.8	0.05		
1-May-18	Little River Line#3	2.00		6.10			1.30	54.2	26.6	0.05		
1-May-18	Latimer Lake Line #1 (39" A)	3.30		6.05				54.2	26.6	0.04		
1-May-18	Latimer Lake Line #2 (42" B)	2.50		6.07				54.1	26.6	0.05		
1-May-18	Champlain Heights Pumping Stn.	1.78		6.07			1.54	54.5	26.8	0.06		
1-May-18	Millidgeville Treatment Plant	0.83		6.14			1.00	57.9	28.4	0.06		
1-May-18	Spruce Lake (Raw)			6.74	2.7		0.84	39.3	19.4	0.07	25	18
1-May-18	Latimer Lake 42" B (Raw)			7.02	7.4	0.022	1.19	50.5	24.8	0.05	23	17
1-May-18	Latimer Lake 39"A (Raw)			6.95		0.020	1.20	50.7	24.9	0.03		
1-May-18	Eastern Wastewater Treatment Plant	0.44	0.60	6.07			1.30	56.0	27.5	0.10		
1-May-18	Ocean Drive			8.01	88.0		0.09	309.5	152.0	non detect		
1-May-18	Seaward Crescent			8.04	79.2		0.44	248.7	122.6	0.04		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
8-May-18	36 Park Drive	0.77		6.41			1.01	56.7	27.8	0.04		
8-May-18	Willie Avenue Standpipe	0.37		6.37			0.92	56.2	27.6	0.06		
8-May-18	Somerset Street (pump Stn.)	1.13		6.31			1.17	56.7	27.7	0.04		
8-May-18	Golden Grove Road	0.84		6.32			0.81	57.0	28.0	0.05		
8-May-18	Harris & Roome	0.37		6.50			0.73	56.8	27.9	0.11		
8-May-18	NBCCSJ	0.92		6.44			0.69	56.5	27.6	0.07		
8-May-18	Ryerson Metal Inc	1.35		6.33			0.62	56.7	27.8	0.04		
8-May-18	University Ave. Pump Station	1.01		6.33			0.70	63.3	31.0	0.06		
8-May-18	Highland Road Pump Station	0.35		6.45			0.61	58.9	28.8	0.11		
8-May-18	Kennebecasis Drive	0.99		6.40			0.66	60.1	29.4	0.06		
8-May-18	Bridge Road (Zone 8)	0.50		8.01			1.76	530.5	259.6	0.31		
8-May-18	Fundy Linen	0.88		8.00			0.15	533.7	261.5	0.02		
8-May-18	Travelodge Suites	0.89		8.03			0.09	534.9	261.8	non detect		
8-May-18	PRV 24	0.97		8.06			0.09	534.6	262.0	non detect		
8-May-18	Doiron's	0.87		8.05			0.14	534.0	261.5	non detect		
8-May-18	Churchill Heights Tank (Out)	1.10		8.04			0.10	533.8	261.3	non detect		
8-May-18	Carleton Community Center	0.83		8.02			0.07	534.7	261.9	non detect		
8-May-18	Spruce Lake Fluoride Analyzer	1.02		8.09				533.9	261.3	non detect		
8-May-18	Centracare	0.80		8.05			0.09	534.1	261.6	non detect		
8-May-18	Jones Variety	0.85		8.05			0.07	534.1	261.4	non detect		
8-May-18	Dunn Ave	0.90		8.06			0.09	531.7	260.5	non detect		
8-May-18	Operations Complex (Rothesay Ave.)	0.89		6.45			0.84	57.3	28.1	0.11		
8-May-18	Little River Line#4 (Outside Chamber)	2.30		6.46			0.64	56.5	27.7	0.04		
8-May-18	Little River Line#2	1.69		6.35			0.56	56.9	27.9	0.04		
8-May-18	Little River Line#3	1.80		6.35			0.85	56.4	27.6	0.04		
8-May-18	Latimer Lake Line #1 (39" A)	3.00		6.26			0.93	57.0	27.9	0.05		
8-May-18	Latimer Lake Line #2 (42" B)	2.60		6.25			1.28	56.3	27.5	0.04		
8-May-18	Champlain Heights Pumping Stn.	1.37		6.30			0.58	56.7	27.8	0.10		
8-May-18	Millidgeville Treatment Plant	0.60		6.38			0.74	58.2	28.5	0.08		
8-May-18	Spruce Lake (Raw)			6.59	7.8		2.28	37.7	18.4	0.19	41	17
8-May-18	Latimer Lake 42" B (Raw)			7.04	8.6	0.028	1.03	49.6	24.3	0.03	23	18
8-May-18	Latimer Lake 39"A (Raw)			7.05		0.069	0.70	49.6	24.3	0.10		
8-May-18	Eastern Wastewater Treatment Plant	1.03	1.25	6.35			0.63	56.8	27.8	0.06		
8-May-18	Ocean Drive			8.04	84.0		0.09	306.9	150.4	non detect		
8-May-18	Seaward Crescent			8.07	88.8		0.88	243.5	119.1	0.14		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
15-May-18	36 Park Drive	1.25		6.47			1.12	56.5	27.7	0.04		
15-May-18	Willie Avenue Standpipe	1.34		6.48			1.31	56.3	27.6	0.07		
15-May-18	Somerset Street (pump Stn.)	1.26		6.49			0.99	58.4	28.7	0.03		
15-May-18	Golden Grove Road	0.71		6.37			0.80	56.6	27.8	0.05		
15-May-18	Harris & Roome	0.46		6.44			1.63	57.6	28.3	0.28		
15-May-18	NBCCSJ	0.52		6.48			1.19	56.4	27.6	0.09		
15-May-18	Ryerson Metal Inc	0.81		6.37			0.86	57.1	28.0	0.06		
15-May-18	University Ave. Pump Station	0.83		6.58			1.76	60.7	29.8	0.06		
15-May-18	Highland Road Pump Station	0.22		6.49			0.80	57.5	28.2	0.11		
15-May-18	Kennebecasis Drive	0.89		6.50			0.96	60.6	29.8	0.05		
15-May-18	Bridge Road (Zone 8)	0.76		7.75			1.40	534.4	262.1	0.21		
15-May-18	Fundy Linen	0.88		7.81			0.12	533.6	261.8	0.02		
15-May-18	Travelodge Suites	0.88		7.80			0.07	534.9	262.0	non detect		
15-May-18	PRV 24	0.97		7.82			0.08	535.3	262.7	non detect		
15-May-18	Doiron's	0.79		7.84			0.12	561.2	260.9	non detect		
15-May-18	Churchill Heights Tank (Out)	0.90		7.85			0.13	533.3	261.6	0.02		
15-May-18	Carleton Community Center	0.78		7.83			0.09	533.5	261.9	non detect		
15-May-18	Spruce Lake Fluoride Analyzer	1.01		7.86				537.3	263.4	non detect		
15-May-18	Centracare	0.77		7.86			0.07	532.6	261.4	non detect		
15-May-18	Jones Variety	0.88		7.87			0.06	532.7	261.0	non detect		
15-May-18	Dunn Ave	0.94		7.85			0.06	533.2	261.2	non detect		
15-May-18	Operations Complex (Rothesay Ave.)	1.28		6.53			0.98	56.7	27.8	0.07		
15-May-18	Little River Line#4 (Outside Chamber)	3.20		6.46			1.20	56.1	27.6	0.04		
15-May-18	Little River Line#2	1.84		6.50			0.77	55.8	27.4	0.04		
15-May-18	Little River Line#3	2.40		6.51			1.32	56.0	27.5	0.04		
15-May-18	Latimer Lake Line #1 (39" A)	3.30		6.45				56.1	27.5	0.04		
15-May-18	Latimer Lake Line #2 (42" B)	3.20		6.50				55.6	27.2	0.05		
15-May-18	Champlain Heights Pumping Stn.	1.83		6.47			0.92	56.1	27.5	0.05		
15-May-18	Millidgeville Treatment Plant	0.75		6.38			1.18	59.1	29.0	0.08		
15-May-18	Spruce Lake (Raw)			6.87	3.7		0.56	36.9	26.4	0.04	18	17
15-May-18	Latimer Lake 42" B (Raw)			7.14	8.5		1.24	49.4	24.2	0.04	27	18
15-May-18	Latimer Lake 39"A (Raw)			7.32			1.06	49.4	24.3	0.04		
15-May-18	Eastern Wastewater Treatment Plant	1.02	1.25	6.44			1.15	57.5	28.2	0.05		
15-May-18	Ocean Drive			7.99	86.0		0.07	306.9	150.8	non detect		
15-May-18	Seaward Crescent			7.99	93.0		2.13	244.9	120.1	0.28		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
22-May-18	36 Park Drive	0.78		6.53			1.20	56.8	27.9	0.04		
22-May-18	Willie Avenue Standpipe	0.20		6.49			1.02	56.6	27.8	0.05		
22-May-18	Somerset Street (pump Stn.)	1.30		6.53			1.68	56.4	27.7	0.04		
22-May-18	Golden Grove Road	1.09		6.46			1.27	56.9	27.9	0.06		
22-May-18	Harris & Roome	0.28		6.56			1.32	56.8	27.9	0.05		
22-May-18	NBCCSJ	0.07		6.59			2.27	57.0	28.0	0.15		
22-May-18	Ryerson Metal Inc	0.76		6.44			1.52	56.4	27.6	0.04		
22-May-18	University Ave. Pump Station	1.50		6.63			1.69	59.4	29.1	0.04		
22-May-18	Highland Road Pump Station	0.33		6.49			0.97	58.7	28.8	0.08		
22-May-18	Kennebecasis Drive	1.04		6.50			1.09	59.9	29.4	0.02		
22-May-18	Bridge Road (Zone 8)	0.62		7.83			0.30	528.7	259.3	0.05		
22-May-18	Fundy Linen	0.85		7.82			0.12	536.0	263.2	0.02		
22-May-18	Travelodge Suites	0.92		7.87			0.10	536.5	263.3	non detect		
22-May-18	PRV 24	0.90		7.84			0.06	536.7	263.4	non detect		
22-May-18	Doiron's	0.83		7.86			0.07	537.0	263.4	non detect		
22-May-18	Churchill Heights Tank (Out)	1.03		7.91			0.13	536.4	263.0	non detect		
22-May-18	Carleton Community Center	0.78		7.88			0.07	536.4	263.2	non detect		
22-May-18	Spruce Lake Fluoride Analyzer	0.94		7.91			0.07	535.6	263.0	non detect		
22-May-18	Centracare	0.76		7.90			0.09	535.4	262.6	non detect		
22-May-18	Jones Variety	0.83		7.85			0.06	536.4	263.3	non detect		
22-May-18	Dunn Ave	0.85		7.92			0.06	536.8	264.0	non detect		
22-May-18	Operations Complex (Rothesay Ave.)	1.32		6.39			2.14	56.9	27.9	0.06		
22-May-18	Little River Line#4 (Outside Chamber)	2.30		6.26			1.47	56.2	27.5	0.04		
22-May-18	Little River Line#2	1.66		6.36			1.49	56.3	27.6	0.03		
22-May-18	Little River Line#3	1.90		6.43			1.43	56.0	27.5	0.03		
22-May-18	Latimer Lake Line #1 (39" A)	2.70		6.34			1.20	56.3	27.6	0.04		
22-May-18	Latimer Lake Line #2 (42" B)	3.10		6.34			1.17	55.7	27.4	0.03		
22-May-18	Champlain Heights Pumping Stn.	1.71		6.39			1.43	56.5	27.7	0.05		
22-May-18	Millidgeville Treatment Plant	0.79		6.41			1.07	58.4	28.7	0.05		
22-May-18	Spruce Lake (Raw)			6.78	3.8		0.55	36.0	17.7	0.04	14	10
22-May-18	Latimer Lake 42" B (Raw)			7.07	8.0	0.013	1.22	49.0	24.0	0.03	24	8
22-May-18	Latimer Lake 39"A (Raw)			7.24		0.010	1.37	49.1	24.1	0.03		
22-May-18	Eastern Wastewater Treatment Plant	1.13	1.36	6.40			1.15	57.1	28.0	0.05		
22-May-18	Ocean Drive			8.02	84.0		0.10	304.6	149.3	non detect		
22-May-18	Seaward Crescent			8.04	92.0		3.05	243.8	119.7	0.47		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
29-May-18	36 Park Drive	0.83		6.57			1.10	59.2	29.1	0.03		
29-May-18	Willie Avenue Standpipe	0.35		6.53			1.00	58.4	28.7	0.04		
29-May-18	Somerset Street (pump Stn.)	1.42		6.43			1.22	58.7	28.9	0.04		
29-May-18	Golden Grove Road	0.82		6.52			1.03	60.2	29.6	0.04		
29-May-18	Harris & Roome	0.52		6.48			1.16	59.2	29.1	0.06		
29-May-18	NBCCSJ	1.24		6.49			1.22	59.2	29.1	0.06		
29-May-18	Ryerson Metal Inc	0.22		6.45			0.95	58.1	28.6	0.04		
29-May-18	University Ave. Pump Station	1.52		6.44			1.19	61.6	30.3	0.04		
29-May-18	Highland Road Pump Station	0.73		6.51			1.19	60.4	29.7	0.06		
29-May-18	Kennebecasis Drive	0.42		6.57			1.30	63.5	31.2	0.05		
29-May-18	Bridge Road (Zone 8)	0.61		7.75			3.49	543.9	267.4	0.38		
29-May-18	Fundy Linen	0.76		7.84			0.16	542.9	267.1	non detect		
29-May-18	Travelodge Suites	0.92		7.81			0.08	544.1	267.5	non detect		
29-May-18	PRV 24	0.85		7.79			0.09	543.2	267.3	non detect		
29-May-18	Doiron's	0.86		7.79			0.09	542.6	266.8	non detect		
29-May-18	Churchill Heights Tank (Out)	1.02		7.81			0.09	543.2	267.5	non detect		
29-May-18	Carleton Community Center	0.77		7.81			0.10	541.4	266.2	non detect		
29-May-18	Spruce Lake Fluoride Analyzer	0.89		7.84				541.2	267.1	non detect		
29-May-18	Centracare	0.55		7.82			0.11	542.6	266.7	non detect		
29-May-18	Jones Variety	0.76		7.82			0.06	542.0	266.7	non detect		
29-May-18	Dunn Ave	0.80		7.80			0.06	541.8	266.4	non detect		
29-May-18	Operations Complex (Rothesay Ave.)	1.41		6.41			1.15	59.4	29.2	0.04		
29-May-18	Little River Line#4 (Outside Chamber)	2.80		6.49			1.09	58.5	28.8	0.03		
29-May-18	Little River Line#2	1.84		6.57			1.23	58.7	28.8	0.03		
29-May-18	Little River Line#3	2.10		6.55			1.27	58.2	28.6	0.03		
29-May-18	Latimer Lake Line #1 (39" A)	3.10		6.53				58.7	28.9	0.03		
29-May-18	Latimer Lake Line #2 (42" B)	3.00		6.51				57.6	28.3	0.03		
29-May-18	Champlain Heights Pumping Stn.	1.80		6.46			1.22	58.8	28.9	0.07		
29-May-18	Millidgeville Treatment Plant	0.17		6.51			1.23	61.0	30.0	0.06		
29-May-18	Spruce Lake (Raw)			6.59	3.8		0.55	35.4	17.4	0.03	15	16
29-May-18	Latimer Lake 42" B (Raw)			7.24	8.0	0.013	1.23	49.7	24.4	0.03	23	16
29-May-18	Latimer Lake 39"A (Raw)			7.25		0.012	1.26	49.8	24.5	0.03		
29-May-18	Eastern Wastewater Treatment Plant	1.11	1.17	6.52			1.23	58.9	29.0	0.06		
29-May-18	Ocean Drive			8.08	88.0		0.07	322.2	158.4	non detect		
29-May-18	Seaward Crescent			8.09	94.0		1.43	249.6	122.9	0.18		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
5-Jun-18	36 Park Drive	1.06		6.53			1.51	58.5	28.7	0.04		
5-Jun-18	Willie Avenue Standpipe	0.39		6.51			1.39	59.1	29.0	0.06		
5-Jun-18	Somerset Street (pump Stn.)	2.03		6.41			1.83	61.4	30.1	0.04		
5-Jun-18	Golden Grove Road	1.49		6.51			1.56	61.2	30.0	0.04		
5-Jun-18	Harris & Roome	1.11		6.37			1.34	60.8	29.8	0.05		
5-Jun-18	NBCCSJ	1.44		6.48			2.03	61.3	30.1	0.08		
5-Jun-18	Ryerson Metal Inc	0.66		6.42			1.48	58.8	28.8	0.06		
5-Jun-18	University Ave. Pump Station	1.89		6.44			1.93	61.6	30.2	0.05		
5-Jun-18	Highland Road Pump Station	0.38		6.42			1.11	59.2	29.0	0.10		
5-Jun-18	Kennebecasis Drive	0.82		6.48			1.45	61.6	30.2	0.05		
5-Jun-18	Bridge Road (Zone 8)	0.68		7.73			0.79	541.0	264.8	0.08		
5-Jun-18	Fundy Linen	0.87		7.77			0.23	541.7	265.4	non detect		
5-Jun-18	Travelodge Suites	0.89		7.79			0.12	539.6	265.0	non detect		
5-Jun-18	PRV 24	0.96		7.77			0.22	542.1	265.7	non detect		
5-Jun-18	Doiron's	0.96		7.77			0.10	540.8	264.9	non detect		
5-Jun-18	Churchill Heights Tank (Out)	0.89		7.84			0.11	539.6	264.4	non detect		
5-Jun-18	Carleton Community Center	0.82		7.81			0.11	540.4	264.7	non detect		
5-Jun-18	Spruce Lake Fluoride Analyzer	1.22		7.80			0.11	541.7	265.5	non detect		
5-Jun-18	Centracare	0.77		7.81			0.10	541.0	265.1	non detect		
5-Jun-18	Jones Variety	0.76		7.83			0.14	540.0	264.7	non detect		
5-Jun-18	Dunn Ave	0.92		7.80			0.08	541.0	265.0	non detect		
5-Jun-18	Operations Complex (Rothesay Ave.)	1.86		6.37			1.33	61.6	30.2	0.06		
5-Jun-18	Little River Line#4 (Outside Chamber)	3.60		6.36			1.37	61.0	29.9	0.03		
5-Jun-18	Little River Line#2	2.70		6.58			1.50	62.4	30.6	0.03		
5-Jun-18	Little River Line#3	2.80		6.48			1.54	60.2	29.5	0.03		
5-Jun-18	Latimer Lake Line #1 (39" A)	3.70		6.54			1.64	60.7	29.7	0.03		
5-Jun-18	Latimer Lake Line #2 (42" B)	4.40		6.50			1.53	59.6	29.2	0.04		
5-Jun-18	Champlain Heights Pumping Stn.	3.00		6.42			1.57	60.9	29.8	0.04		
5-Jun-18	Millidgeville Treatment Plant	0.97		6.45			2.88	59.9	29.3	0.09		
5-Jun-18	Spruce Lake (Raw)			6.60	3.7		0.58	33.9	16.6	0.04	21	13
5-Jun-18	Latimer Lake 42" B (Raw)			7.14	8.1	0.016	1.54	49.4	24.2	0.03	24	11
5-Jun-18	Latimer Lake 39"A (Raw)			7.09		0.015	1.35	49.5	24.2	0.02		
5-Jun-18	Eastern Wastewater Treatment Plant	0.36	0.53	6.47			2.27	59.2	29.0	0.08		
5-Jun-18	Ocean Drive			7.98	88.4		0.10	301.7	147.5	non detect		
5-Jun-18	Seaward Crescent			8.00	94.8		1.36	244.4	120.0	0.14		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
12-Jun-18	36 Park Drive	1.11		6.66			1.22	62.1	30.3	0.03		
12-Jun-18	Willie Avenue Standpipe	0.21		6.66			1.40	60.9	29.7	0.05		
12-Jun-18	Somerset Street (pump Stn.)	1.66		6.57			1.53	61.5	30.1	0.03		
12-Jun-18	Golden Grove Road	1.53		6.55			1.09	61.9	30.2	0.03		
12-Jun-18	Harris & Roome	0.24		6.66			1.28	62.1	30.3	0.06		
12-Jun-18	NBCCSJ	0.92		6.67			1.17	61.6	30.0	0.08		
12-Jun-18	Ryerson Metal Inc	0.97		6.61			1.00	61.8	30.2	0.03		
12-Jun-18	University Ave. Pump Station	1.50		6.64			1.28	62.3	30.4	0.03		
12-Jun-18	Highland Road Pump Station	0.57		6.64			1.41	62.0	30.3	0.09		
12-Jun-18	Kennebecasis Drive	0.93		6.60			1.44	62.3	30.4	0.05		
12-Jun-18	Bridge Road (Zone 8)	0.79		7.72			0.42	544.7	265.9	0.06		
12-Jun-18	Fundy Linen	0.96		7.72			0.09	545.5	266.1	non detect		
12-Jun-18	Travelodge Suites	0.91		7.76			0.09	545.8	266.4	non detect		
12-Jun-18	PRV 24	1.03		7.78			0.12	546.1	266.5	non detect		
12-Jun-18	Doiron's	0.88		7.78			0.11	543.4	265.2	non detect		
12-Jun-18	Churchill Heights Tank (Out)	0.88		7.83			0.09	544.1	265.5	non detect		
12-Jun-18	Carleton Community Center	0.81		7.78			0.13	545.5	266.3	non detect		
12-Jun-18	Spruce Lake Fluoride Analyzer	1.03		7.79				545.1	266.1	non detect		
12-Jun-18	Centracare	0.77		7.81			0.09	545.3	266.2	non detect		
12-Jun-18	Jones Variety	0.88		7.86			0.11	543.9	265.6	non detect		
12-Jun-18	Dunn Ave	0.96		7.80			0.10	544.1	265.4	non detect		
12-Jun-18	Operations Complex (Rothesay Ave.)	1.62		6.58			1.54	62.2	30.4	0.03		
12-Jun-18	Little River Line#4 (Outside Chamber)	3.00		6.73			1.44	60.9	29.8	0.03		
12-Jun-18	Little River Line#2	2.10		6.59			1.26	61.3	29.9	0.03		
12-Jun-18	Little River Line#3	2.20		6.60			1.00	60.4	29.5	0.02		
12-Jun-18	Latimer Lake Line #1 (39" A)	3.60		6.54				62.0	30.2	0.02		
12-Jun-18	Latimer Lake Line #2 (42" B)	3.50		6.75				60.1	29.3	0.03		
12-Jun-18	Champlain Heights Pumping Stn.	2.16		6.53			1.19	61.1	29.8	0.04		
12-Jun-18	Millidgeville Treatment Plant	1.01		6.56			1.09	62.4	30.4	0.03		
12-Jun-18	Spruce Lake (Raw)			6.93	3.3		1.22	33.9	16.5	0.04	27	14
12-Jun-18	Latimer Lake 42" B (Raw)			7.08	7.3	0.021	1.23	50.1	24.4	0.03	29	17
12-Jun-18	Latimer Lake 39"A (Raw)			7.12		0.027	1.23	50.1	24.4	0.02		
12-Jun-18	Eastern Wastewater Treatment Plant	0.60	0.75	6.60			1.45	62.7	30.6	0.04		
12-Jun-18	Ocean Drive			7.99	87.0		0.07	325.0	158.6	non detect		
12-Jun-18	Seaward Crescent			7.99	92.0		0.25	253.0	123.4	0.02		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
19-Jun-18	36 Park Drive	1.09		6.74			1.27	62.8	30.7	0.03		
19-Jun-18	Willie Avenue Standpipe	0.04		6.68			1.20	62.1	30.4	0.05		
19-Jun-18	Somerset Street (pump Stn.)	1.17		6.72			1.14	62.6	30.7	0.03		
19-Jun-18	Golden Grove Road	1.38		6.70			1.34	62.7	30.7	0.03		
19-Jun-18	Harris & Roome	0.24		6.69			1.23	62.9	30.8	0.06		
19-Jun-18	NBCCSJ	0.57		6.79			2.03	62.5	30.6	0.19		
19-Jun-18	Ryerson Metal Inc	0.18		6.67			1.17	61.9	30.3	0.04		
19-Jun-18	University Ave. Pump Station	0.97		6.71			1.55	64.1	31.4	0.05		
19-Jun-18	Highland Road Pump Station	0.21		6.68			1.14	62.6	30.7	0.06		
19-Jun-18	Kennebecasis Drive	0.58		6.68			1.26	64.6	31.7	0.05		
19-Jun-18	Bridge Road (Zone 8)	0.67		7.91			2.73	547.7	268.4	0.30		
19-Jun-18	Fundy Linen	0.88		7.89			0.17	548.3	268.8	non detect		
19-Jun-18	Travelodge Suites	0.95		7.84			0.11	547.9	268.4	non detect		
19-Jun-18	PRV 24	0.89		7.89			0.10	550.5	269.6	non detect		
19-Jun-18	Doiron's	0.86		7.91			0.11	549.3	268.9	non detect		
19-Jun-18	Churchill Heights Tank (Out)	0.95		7.95			0.10	549.3	269.2	non detect		
19-Jun-18	Carleton Community Center	0.77		7.93			0.08	549.1	268.9	non detect		
19-Jun-18	Spruce Lake Fluoride Analyzer	0.99		7.90				549.7	269.3	non detect		
19-Jun-18	Centracare	0.67		7.92			0.14	548.8	268.8	non detect		
19-Jun-18	Jones Variety	0.84		7.95			0.08	549.2	269.0	non detect		
19-Jun-18	Dunn Ave	0.84		7.96			0.07	548.4	268.6	non detect		
19-Jun-18	Operations Complex (Rothesay Ave.)	1.04		6.75			1.35	63.0	30.9	0.06		
19-Jun-18	Little River Line#4 (Outside Chamber)	3.20		6.72			1.26	61.6	30.2	0.02		
19-Jun-18	Little River Line#2	2.02		6.82			1.27	61.6	30.2	0.02		
19-Jun-18	Little River Line#3	2.60		6.86			1.30	61.1	29.9	0.02		
19-Jun-18	Latimer Lake Line #1 (39" A)	3.50		6.86				62.1	30.4	0.03		
19-Jun-18	Latimer Lake Line #2 (42" B)	3.30		6.77				60.3	29.5	0.03		
19-Jun-18	Champlain Heights Pumping Stn.	1.69		6.72			1.47	62.2	30.5	0.09		
19-Jun-18	Millidgeville Treatment Plant	0.62		6.62			1.40	63.4	31.1	0.03		
19-Jun-18	Spruce Lake (Raw)			6.78	3.0		1.03	33.5	16.4	0.05	28	13
19-Jun-18	Latimer Lake 42" B (Raw)			7.17	8.5	0.025	1.31	50.0	24.3	0.02	29	15
19-Jun-18	Latimer Lake 39"A (Raw)			7.16		0.021	1.33	49.4	24.2	0.03		
19-Jun-18	Eastern Wastewater Treatment Plant	1.28	1.50	6.67			1.37	62.5	30.6	0.04		
19-Jun-18	Ocean Drive			8.02	88.0		0.15	319.1	156.3	non detect		
19-Jun-18	Seaward Crescent			8.03	94.0		0.10	258.2	126.4	non detect		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
26-Jun-18	36 Park Drive	1.02		6.77			1.22	63.4	31.1	0.03		
26-Jun-18	Willie Avenue Standpipe	0.02		6.72			1.37	62.9	30.8	0.07		
26-Jun-18	Somerset Street (pump Stn.)	1.24		6.94			1.45	63.9	31.3	0.03		
26-Jun-18	Golden Grove Road	1.21		6.82			1.21	62.4	30.6	0.03		
26-Jun-18	Harris & Roome	0.20		6.75			1.32	62.6	30.7	0.04		
26-Jun-18	NBCCSJ	0.28		6.83			2.25	62.1	30.5	0.28		
26-Jun-18	Ryerson Metal Inc	0.14		6.73			1.28	62.9	30.8	0.04		
26-Jun-18	University Ave. Pump Station	1.13		6.82			1.85	67.4	33.1	0.05		
26-Jun-18	Highland Road Pump Station	0.11		6.78			6.21	63.9	31.4	0.56		
26-Jun-18	Kennebecasis Drive	0.89		6.81			1.37	67.4	33.0	0.04		
26-Jun-18	Bridge Road (Zone 8)	0.56		7.77			0.52	542.8	266.4	0.03		
26-Jun-18	Fundy Linen	0.94		7.80			0.06	544.4	267.2	0.03		
26-Jun-18	Travelodge Suites	1.00		7.79			0.06	546.1	267.9	non detect		
26-Jun-18	PRV 24	0.96		7.78			0.06	545.0	267.3	non detect		
26-Jun-18	Doiron's	0.84		7.82			0.06	544.7	267.1	0.02		
26-Jun-18	Churchill Heights Tank (Out)	0.91		7.86			0.08	541.6	265.9	0.02		
26-Jun-18	Carleton Community Center	0.88		7.83			0.05	542.9	266.2	non detect		
26-Jun-18	Spruce Lake Fluoride Analyzer	0.96		7.81				542.4	265.1	non detect		
26-Jun-18	Centracare	0.89		7.82			0.06	542.0	265.8	non detect		
26-Jun-18	Jones Variety	0.83		7.82			0.08	542.2	266.0	non detect		
26-Jun-18	Dunn Ave	0.89		7.80			0.06	537.3	263.6	non detect		
26-Jun-18	Operations Complex (Rothesay Ave.)	1.35		6.78			1.50	63.8	31.2	0.03		
26-Jun-18	Little River Line#4 (Outside Chamber)	2.90		6.85			1.50	62.9	30.9	0.02		
26-Jun-18	Little River Line#2	1.85		7.00			1.36	63.6	31.2	0.02		
26-Jun-18	Little River Line#3	2.30		6.95			1.44	62.3	30.6	0.02		
26-Jun-18	Latimer Lake Line #1 (39" A)	3.20		7.03				64.0	31.4	0.04		
26-Jun-18	Latimer Lake Line #2 (42" B)	2.90		6.90				61.8	30.3	0.03		
26-Jun-18	Champlain Heights Pumping Stn.	1.73		6.99			1.58	63.4	31.1	0.02		
26-Jun-18	Millidgeville Treatment Plant	0.13		6.74			1.38	64.7	31.8	0.05		
26-Jun-18	Spruce Lake (Raw)			6.73	4.7		0.65	33.7	16.5	0.03	21	15
26-Jun-18	Latimer Lake 42" B (Raw)			7.05	8.3	0.021	1.42	49.3	24.2	0.04	25	15
26-Jun-18	Latimer Lake 39"A (Raw)			7.02		0.020	1.39	49.9	24.5	0.02		
26-Jun-18	Eastern Wastewater Treatment Plant	0.98	1.18	6.84			1.40	63.7	31.2	0.03		
26-Jun-18	Ocean Drive			7.99	89.0		0.09	297.2	145.7	non detect		
26-Jun-18	Seaward Crescent			7.96	93.0		0.19	247.5	121.1	non detect		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
3-Jul-18	36 Park Drive	0.59		6.80			1.19	64.4	31.6	0.04		
3-Jul-18	Willie Avenue Standpipe	0.12		6.92			1.18	65.0	32.0	0.05		
3-Jul-18	Somerset Street (pump Stn.)	1.01		6.93			1.10	64.8	31.9	0.04		
3-Jul-18	Golden Grove Road	1.16		6.85			1.13	64.4	31.6	0.02		
3-Jul-18	Harris & Roome	0.17		6.83			1.43	64.1	31.5	0.05		
3-Jul-18	NBCCSJ	0.48		6.83			2.65	64.4	31.7	0.12		
3-Jul-18	Ryerson Metal Inc	0.10		6.83			1.13	64.3	31.6	0.03		
3-Jul-18	University Ave. Pump Station	1.20		6.85			2.15	68.3	33.6	0.05		
3-Jul-18	Highland Road Pump Station	0.11		6.84			1.02	66.7	32.8	0.04		
3-Jul-18	Kennebecasis Drive	0.82		6.89			1.14	66.6	32.8	0.03		
3-Jul-18	Bridge Road (Zone 8)	0.73		7.76			1.51	550.2	270.5	0.17		
3-Jul-18	Fundy Linen	0.87		7.76			0.17	551.2	271.2	non detect		
3-Jul-18	Travelodge Suites	0.89		7.74			0.08	551.3	271.0	non detect		
3-Jul-18	PRV 24	0.92		7.82			0.18	552.6	271.3	non detect		
3-Jul-18	Doiron's	0.72		7.84			0.10	551.1	271.0	non detect		
3-Jul-18	Churchill Heights Tank (Out)	0.91		7.82			0.11	551.6	270.5	non detect		
3-Jul-18	Carleton Community Center	0.77		7.84			0.22	550.6	270.3	non detect		
3-Jul-18	Spruce Lake Fluoride Analyzer	0.83		7.84			0.10	551.8	271.0	non detect		
3-Jul-18	Centracare	0.72		7.83			0.16	551.6	270.8	non detect		
3-Jul-18	Jones Variety	0.78		7.85			0.08	551.8	271.0	non detect		
3-Jul-18	Dunn Ave	0.83		7.82			0.09	552.1	271.4	non detect		
3-Jul-18	Operations Complex (Rothesay Ave.)	1.07		6.91			1.07	64.9	31.9	0.03		
3-Jul-18	Little River Line#4 (Outside Chamber)	2.50		6.88			1.48	63.2	31.1	0.03		
3-Jul-18	Little River Line#2	1.88		6.98			1.48	64.5	31.7	0.02		
3-Jul-18	Little River Line#3	2.30		6.96			1.32	65.8	32.3	0.02		
3-Jul-18	Latimer Lake Line #1 (39" A)	3.60		6.90				64.4	31.6	0.03		
3-Jul-18	Latimer Lake Line #2 (42" B)	3.40		6.90				62.4	30.7	0.03		
3-Jul-18	Champlain Heights Pumping Stn.	1.87		6.89			1.48	61.5	30.2	0.02		
3-Jul-18	Millidgeville Treatment Plant	0.39		6.82			1.31	66.5	32.7	0.04		
3-Jul-18	Spruce Lake (Raw)			6.92	3.8		0.73	33.4	16.4	0.03	27	15
3-Jul-18	Latimer Lake 42" B (Raw)			7.11	8.0	0.011	1.33	48.6	23.9	0.02	24	12
3-Jul-18	Latimer Lake 39"A (Raw)			6.99		0.022	1.86	49.2	24.2	0.05		
3-Jul-18	Eastern Wastewater Treatment Plant	1.01	1.23	6.89			1.22	64.8	31.8	0.05		
3-Jul-18	Ocean Drive			8.08	82.0		0.09	300.5	147.3	non detect		
3-Jul-18	Seaward Crescent			8.07	88.0		0.08	249.5	122.6	0.02		

2 samples measured twice each





# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
10-Jul-18	36 Park Drive	0.53		6.87			1.10	68.3	33.5	0.03		
10-Jul-18	Willie Avenue Standpipe	0.11		6.83			1.32	65.9	32.3	0.05		
10-Jul-18	Somerset Street (pump Stn.)	1.03		7.00			1.16	65.6	32.2	0.05		
10-Jul-18	Golden Grove Road	1.00		6.97			1.13	66.3	32.5	0.02		
10-Jul-18	Harris & Roome	0.29		6.83			1.16	65.9	32.3	0.04		
10-Jul-18	NBCCSJ	0.30		6.93			1.49	65.7	32.2	0.13		
10-Jul-18	Ryerson Metal Inc	0.03		6.83			2.76	65.5	32.1	0.08		
10-Jul-18	University Ave. Pump Station	1.44		7.03			2.79	68.0	33.3	0.03		
10-Jul-18	Highland Road Pump Station	0.36		6.83			1.15	67.2	32.9	0.03		
10-Jul-18	Kennebecasis Drive	0.80		6.93			1.20	70.5	34.6	0.03		
10-Jul-18	Bridge Road (Zone 8)	0.52		7.73			0.47	549.9	269.0	0.12		
10-Jul-18	Fundy Linen	0.86		7.85			0.10	553.8	271.2	0.02		
10-Jul-18	Travelodge Suites	0.85		7.79			0.10	553.9	271.5	non detect		
10-Jul-18	PRV 24	0.87		7.79			0.30	549.6	269.1	non detect		
10-Jul-18	Doiron's	0.90		7.82			0.11	552.2	270.6	non detect		
10-Jul-18	Churchill Heights Tank (Out)	1.03		7.84			0.12	522.7	270.3	non detect		
10-Jul-18	Carleton Community Center	0.83		7.80			0.08	553.7	271.3	non detect		
10-Jul-18	Spruce Lake Fluoride Analyzer	0.88		7.82				551.6	270.5	non detect		
10-Jul-18	Centracare	0.90		7.84			0.20	553.6	271.2	non detect		
10-Jul-18	Jones Variety	0.79		7.82			0.23	552.4	270.6	non detect		
10-Jul-18	Dunn Ave	0.85		7.74			0.16	552.1	270.7	non detect		
10-Jul-18	Operations Complex (Rothesay Ave.)	1.08		7.00			1.27	66.7	32.7	0.03		
10-Jul-18	Little River Line#4 (Outside Chamber)	2.70		6.94			1.39	65.1	31.9	0.03		
10-Jul-18	Little River Line#2	1.86		7.15			1.20	66.2	32.5	0.02		
10-Jul-18	Little River Line#3	1.89		7.04			1.20	64.4	31.6	0.02		
10-Jul-18	Latimer Lake Line #1 (39" A)	3.30		7.13				67.0	32.8	0.02		
10-Jul-18	Latimer Lake Line #2 (42" B)	3.40		6.98				64.3	31.5	0.02		
10-Jul-18	Champlain Heights Pumping Stn.	1.81		7.12			1.35	66.1	32.4	0.03		
10-Jul-18	Millidgeville Treatment Plant	0.26		6.92			1.38	67.7	33.2	0.04		
10-Jul-18	Spruce Lake (Raw)			6.79	3.3		1.66	34.3	16.8	0.04	24	8
10-Jul-18	Latimer Lake 42" B (Raw)			7.21	7.9	0.017	1.07	49.2	24.1	non detect	17	11
10-Jul-18	Latimer Lake 39"A (Raw)			7.17		0.012	1.13	49.5	24.3	0.02		
10-Jul-18	Eastern Wastewater Treatment Plant	0.92	1.11	7.00			1.39	66.4	32.6	0.03		
10-Jul-18	Ocean Drive			8.00	82		0.11	299.5	146.8	non detect		
10-Jul-18	Seaward Crescent			8.03	86		0.33	300.5	147.4	non detect		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
17-Jul-18	36 Park Drive	0.56		6.98			0.93	67.5	33.1	0.04		
17-Jul-18	Willie Avenue Standpipe	0.17		6.99			1.13	66.7	32.7	0.05		
17-Jul-18	Somerset Street (pump Stn.)	0.65		7.06			1.10	66.8	32.8	0.03		
17-Jul-18	Golden Grove Road	0.98		7.05			1.00	67.4	33.1	0.03		
17-Jul-18	Harris & Roome	0.14		6.93			1.00	67.5	33.1	0.03		
17-Jul-18	NBCCSJ	0.09		6.82			1.63	67.1	32.9	0.65		
17-Jul-18	Ryerson Metal Inc	0.07		6.96			1.05	67.3	33.0	0.04		
17-Jul-18	University Ave. Pump Station	0.73		7.02			1.56	73.7	36.1	0.06		
17-Jul-18	Highland Road Pump Station	0.25		7.00			1.19	67.5	33.1	0.04		
17-Jul-18	Kennebecasis Drive	0.69		7.01			2.14	67.7	33.2	0.05		
17-Jul-18	Bridge Road (Zone 8)	0.59		7.83			1.15	551.5	270.7	0.10		
17-Jul-18	Fundy Linen	0.83		7.84			0.08	552.9	271.2	non detect		
17-Jul-18	Travelodge Suites	0.89		7.86			0.09	555.0	272.3	non detect		
17-Jul-18	PRV 24	0.92		7.85			0.11	554.0	271.8	non detect		
17-Jul-18	Doiron's	0.79		7.89			0.19	551.6	270.6	non detect		
17-Jul-18	Churchill Heights Tank (Out)	1.02		7.95			0.12	553.6	271.6	non detect		
17-Jul-18	Carleton Community Center	0.83		7.87			0.10	551.8	270.6	non detect		
17-Jul-18	Spruce Lake Fluoride Analyzer	0.87		7.90				553.1	271.5	non detect		
17-Jul-18	Centracare	0.68		7.91			0.11	553.9	271.6	non detect		
17-Jul-18	Jones Variety	0.81		7.95			0.11	555.3	272.5	non detect		
17-Jul-18	Dunn Ave	0.81		7.87			0.10	552.2	270.7	non detect		
17-Jul-18	Operations Complex (Rothesay Ave.)	1.10		7.04			1.42	68.8	33.7	0.04		
17-Jul-18	Little River Line#4 (Outside Chamber)	2.90		7.00			1.17	67.1	32.9	0.02		
17-Jul-18	Little River Line#2	1.79		7.14			1.31	67.1	32.9	0.02		
17-Jul-18	Little River Line#3	2.10		7.05			1.25	66.3	32.6	0.03		
17-Jul-18	Latimer Lake Line #1 (39" A)	3.00		7.08				68.1	33.4	0.02		
17-Jul-18	Latimer Lake Line #2 (42" B)	2.80		7.03				66.0	32.4	0.04		
17-Jul-18	Champlain Heights Pumping Stn.	1.79		7.03			1.19	67.4	33.1	0.02		
17-Jul-18	Millidgeville Treatment Plant	0.40		6.93			1.08	67.8	33.2	0.03		
17-Jul-18	Spruce Lake (Raw)			7.13	3.6		0.65	34.9	17.1	0.03	15	9
17-Jul-18	Latimer Lake 42" B (Raw)			7.23	8.1	0.019	1.10	50.1	24.6	0.02	20	18
17-Jul-18	Latimer Lake 39"A (Raw)			7.19		0.017	1.15	49.7	34.4	0.03		
17-Jul-18	Eastern Wastewater Treatment Plant	0.87		7.01			1.32	67.5	33.2	0.03		
17-Jul-18	Ocean Drive			8.05	82.0		0.10	296.2	145.3	non detect		
17-Jul-18	Seaward Crescent			8.03	90.0		0.16	247.3	121.4	non detect		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
24-Jul-18	36 Park Drive	0.59		7.04	9.5		0.98	68.3	33.5	0.04		
24-Jul-18	Willie Avenue Standpipe	0.12		7.00	9.2		0.97	67.8	33.3	0.04		
24-Jul-18	Somerset Street (pump Stn.)	0.98		7.06	9.8		1.03	68.7	33.7	0.03		
24-Jul-18	Golden Grove Road	1.12		7.14	9.5		0.89	68.5	33.6	0.03		
24-Jul-18	Harris & Roome	0.13		6.89	9.9		0.87	68.8	33.8	0.04		
24-Jul-18	NBCCSJ	0.10		7.04	9.3		1.16	68.5	33.6	0.06		
24-Jul-18	Ryerson Metal Inc	0.14		7.00	9.3		1.10	67.9	33.3	0.04		
24-Jul-18	University Ave. Pump Station	1.18		7.01	9.3		1.12	69.6	34.2	0.03		
24-Jul-18	Highland Road Pump Station	0.19		6.96	9.4		0.91	69.9	34.3	0.04		
24-Jul-18	Kennebecasis Drive	0.81		7.03	9.5		1.02	72.7	35.7	0.04		
24-Jul-18	Bridge Road (Zone 8)	0.65		7.85			0.84	553.7	271.8	0.09		
24-Jul-18	Fundy Linen	0.83		7.89			0.09	555.4	272.5	non detect		
24-Jul-18	Travelodge Suites	1.01		7.87			0.08	555.8	272.9	non detect		
24-Jul-18	PRV 24	0.83		7.85			0.08	556.8	273.1	0.02		
24-Jul-18	Doiron's	0.70		7.86			0.08	555.3	272.6	non detect		
24-Jul-18	Churchill Heights Tank (Out)	0.99		7.86			0.10	555.2	272.3	0.02		
24-Jul-18	Carleton Community Center	0.73		7.85			0.10	553.9	271.9	0.02		
	Spruce Lake Fluoride Analyzer											
24-Jul-18	Centracare	0.69		7.86			0.08	555.8	272.9	non detect		
24-Jul-18	Jones Variety	0.91		7.87			0.07	555.2	272.5	non detect		
24-Jul-18	Dunn Ave	0.87		7.83			0.07	556.1	273.0	non detect		
24-Jul-18	Operations Complex (Rothesay Ave.)	1.20		6.98	9.2		1.08	69.4	34.1	0.04		
24-Jul-18	Little River Line#4 (Outside Chamber)	2.20		7.01	9.3		1.01	67.6	33.3	0.02		
24-Jul-18	Little River Line#2	2.14		7.20	10.0		1.05	69.0	33.9	0.02		
24-Jul-18	Little River Line#3	2.30		7.09	9.4		1.03	67.4	33.1	0.03		
24-Jul-18	Latimer Lake Line #1 (39" A)	3.40		7.13	9.5			69.7	34.2	0.03		
24-Jul-18	Latimer Lake Line #2 (42" B)	3.00		7.07	9.3			66.9	32.4	0.04		
24-Jul-18	Champlain Heights Pumping Stn.	1.36		7.03	9.7		1.00	68.6	33.6	0.07		
24-Jul-18	Millidgeville Treatment Plant	0.90		6.93	9.8		1.46	70.7	34.7	0.05		
24-Jul-18	Spruce Lake (Raw)			7.05	3.8		0.48	33.7	16.6	0.02	15	9
24-Jul-18	Latimer Lake 42" B (Raw)			7.10	8.1	0.012	0.87	49.3	24.2	0.02	20	14
24-Jul-18	Latimer Lake 39"A (Raw)			7.04		0.016	1.12	49.3	24.3	0.02		
24-Jul-18	Eastern Wastewater Treatment Plant	1.12	1.21	7.16	9.5		1.20	68.4	33.6	0.02		
24-Jul-18	Ocean Drive			8.03	97.0		0.19	314.3	154.3	non detect		
24-Jul-18	Seaward Crescent			8.03	88.0		0.20	247.1	122.7	non detect		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
31-Jul-18	36 Park Drive	0.34		7.07	9.7		0.82	68.5	33.6	0.03	6	
31-Jul-18	Willie Avenue Standpipe	0.07		7.02	9.9		0.92	68.6	33.7	0.02	8	
31-Jul-18	Somerset Street (pump Stn.)	1.39		7.16	9.8		1.90	68.9	33.8	0.04	13	
31-Jul-18	Golden Grove Road	1.37		7.16	9.5		1.33	68.8	33.8	0.02	7	
31-Jul-18	Harris & Roome	0.19		7.04	10.3		1.19	68.5	33.6	0.04	11	
31-Jul-18	NBCCSJ	0.14		6.97	9.6		1.66	68.8	33.8	0.17	19	
31-Jul-18	Ryerson Metal Inc	0.11		8.11	12.4		1.13	74.3	36.5	0.04	10	
31-Jul-18	University Ave. Pump Station	1.13		7.21	10.1		1.50	71.0	34.9	0.03	10	
31-Jul-18	Highland Road Pump Station	0.36		7.11	10.3		2.39	69.6	34.2	0.15	14	
31-Jul-18	Kennebecasis Drive	0.86		7.19	10.4		1.16	70.4	34.6	0.03	10	
31-Jul-18	Bridge Road (Zone 8)	0.71		7.81	125.0		4.15	558.1	274.0	0.45		
31-Jul-18	Fundy Linen	0.88		7.93	126.0		0.09	557.8	274.0	non detect		
31-Jul-18	Travelodge Suites	1.04		7.84	129.0		0.18	556.8	273.4	non detect		
31-Jul-18	PRV 24	0.87		7.84	128.0		0.12	558.7	274.2	non detect		
31-Jul-18	Doiron's	0.81		7.84	127.0		0.08	558.6	274.1	non detect		
31-Jul-18	Churchill Heights Tank (Out)	1.02		7.88	125.0		0.18	560.1	275.2	non detect		
31-Jul-18	Carleton Community Center	0.82		7.84	132.0		0.08	558.4	274.1	0.02		
31-Jul-18	Spruce Lake Fluoride Analyzer	0.98		7.82	127.0			558.3	274.1	non detect		
31-Jul-18	Centracare	0.72		7.88	128.0		0.11	558.7	274.2	non detect		
31-Jul-18	Jones Variety	0.81		7.88	126.0		0.15	557.4	273.7	non detect		
31-Jul-18	Dunn Ave	0.85		7.82	129.0		0.11	558.2	274.1	non detect		
31-Jul-18	Operations Complex (Rothesay Ave.)	1.33		7.09	10.2		1.57	69.4	34.1	0.04	10	
31-Jul-18	Little River Line#4 (Outside Chamber)	2.70		7.13	10.3		1.39	67.7	33.2	0.04	8	
31-Jul-18	Little River Line#2	1.91		7.16	10.2		1.10	69.1	33.9	0.02	8	
	Little River Line#3											
31-Jul-18	Latimer Lake Line #1 (39" A)	3.10		7.18	9.6			69.4	34.1	0.02	8	
31-Jul-18	Latimer Lake Line #2 (42" B)	3.60		7.06	8.8			67.1	33.0	0.04	9	
31-Jul-18	Champlain Heights Pumping Stn.	2.16		7.16	9.3		1.18	68.6	33.7	0.03	10	
31-Jul-18	Millidgeville Treatment Plant	0.56		7.06	10.2		1.07	69.4	34.1	0.03	10	
31-Jul-18	Spruce Lake (Raw)			7.31	4.5		0.66	35.3	17.3	0.03	17	
31-Jul-18	Latimer Lake 42" B (Raw)			7.23	9.3	0.017	1.01	49.2	24.2	0.02	21	10
31-Jul-18	Latimer Lake 39"A (Raw)			7.10	9.6	0.020	1.09	49.5	24.3	0.03	23	14
31-Jul-18	Eastern Wastewater Treatment Plant	1.12		7.17	9.5		1.49	69.2	34.0	0.03	12	
31-Jul-18	Ocean Drive			8.07	88.0		0.37	297.8	146.2	non detect	-2	
31-Jul-18	Seaward Crescent			8.06	92.0		0.23	247.0	121.3	non detect	-2	

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
7-Aug-18	36 Park Drive	0.60		7.11	9.6		0.90	68.2	33.5	0.04	7	
7-Aug-18	Willie Avenue Standpipe	0.03		7.07	9.8		0.99	69.4	34.0	0.04	10	
7-Aug-18	Somerset Street (pump Stn.)	0.97		7.23	9.5		1.21	68.0	33.4	0.02	10	
7-Aug-18	Golden Grove Road	1.03		7.17	9.5		0.91	68.1	33.4	0.04	9	
7-Aug-18	Harris & Roome	0.10		7.03	10.2		0.92	68.0	33.4	0.03	12	
	NBCCSJ											
7-Aug-18	Ryerson Metal Inc	0.15		7.06	9.6		1.43	68.6	33.7	0.05	13	
7-Aug-18	University Ave. Pump Station	1.19		7.07	9.5		1.13	71.2	35.0	0.03	6	
7-Aug-18	Highland Road Pump Station	0.30		7.08	9.8		0.89	69.6	34.2	0.04	9	
7-Aug-18	Kennebecasis Drive	0.87		7.22	9.5		0.87	69.7	34.3	0.03	7	
7-Aug-18	Bridge Road (Zone 8)	0.37		7.84	124.0		0.48	554.5	272.8	0.05		
7-Aug-18	Fundy Linen	0.78		7.87	127.0		0.11	553.5	271.9	non detect		
7-Aug-18	Travelodge Suites	0.80		7.81	127.0		0.11	556.2	272.8	non detect		
7-Aug-18	PRV 24	0.84		7.81	125.0		0.18	556.8	272.9	non detect		
7-Aug-18	Doiron's	0.79		7.83	123.0		0.10	556.5	273.0	non detect		
7-Aug-18	Churchill Heights Tank (Out)	1.02		7.85	125.0		0.13	557.0	273.5	non detect		
7-Aug-18	Carleton Community Center	0.68		7.84	128.0		0.18	555.9	273.5	non detect		
7-Aug-18	Spruce Lake Fluoride Analyzer	0.94		7.86	129.0			556.9	273.0	non detect		
7-Aug-18	Centracare	0.70		7.89	122.0		0.10	557.1	273.6	non detect		
7-Aug-18	Jones Variety	0.64		7.84	129.0		0.12	556.2	273.2	non detect		
7-Aug-18	Dunn Ave	0.77		7.80	126.0		0.20	556.6	273.1	non detect		
7-Aug-18	Operations Complex (Rothesay Ave.)	1.11		7.28	10.6		1.16	71.3	35.0	0.03	7	
7-Aug-18	Little River Line#4 (Outside Chamber)	2.50		7.21	9.5		1.06	69.3	34.0	0.02	5	
7-Aug-18	Little River Line#2	1.43		7.32	9.9		0.92	68.2	33.5	0.02	4	
	Little River Line#3											
7-Aug-18	Latimer Lake Line #1 (39" A)	3.40		7.39	10.3			68.1	33.4	0.04	4	
7-Aug-18	Latimer Lake Line #2 (42" B)	3.60		7.19	9.7			66.1	32.4	0.03	7	
7-Aug-18	Champlain Heights Pumping Stn.	1.83		7.23	9.6		1.06	67.4	33.1	0.03	6	
7-Aug-18	Millidgeville Treatment Plant	0.57		7.05	9.9		1.17	69.9	34.3	0.02	6	
7-Aug-18	Spruce Lake (Raw)			6.87	3.3		1.24	32.0	15.7	0.04	24	10
7-Aug-18	Latimer Lake 42" B (Raw)			7.23	8.9	0.022	1.24	49.1	24.1	non detect	22	16
7-Aug-18	Latimer Lake 39"A (Raw)			7.18	8.7	0.022	1.13	48.9	24.0	0.02	17	
7-Aug-18	Eastern Wastewater Treatment Plant	1.00		7.20	9.1		1.17	67.6	33.2	0.02	3	
7-Aug-18	Ocean Drive			8.07	83.0		0.32	289.6	142.3	non detect		
7-Aug-18	Seaward Crescent			8.01	86.0		0.11	250.5	123.1	non detect		

2 samples measured twice each



# City of Saint John

## Freshwater Data Sheet



DATE	LOCATION	Chlorine		pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Manganese (mg/l)	Turbidity (NTU)	Conductivity (µS/cm)	Total Dissolved Solids (mg/l)	Iron (mg/l)	Apparent Color (Pt- Co units)	True Color (Pt-Co units)
		Free (mg/l)	Total (mg/l)									
14-Aug-18	36 Park Drive	0.49		7.07	9.3		0.84	66.8	32.8	0.03	3	
14-Aug-18	Willie Avenue Standpipe	0.02		7.13	9.8		0.87	68.6	33.7	0.03	5	
14-Aug-18	Somerset Street (pump Stn.)	0.89		7.17	9.4		0.95	68.0	33.4	0.03	6	
14-Aug-18	Golden Grove Road	1.11		7.17	7.4		0.87	68.1	33.4	0.03	4	
14-Aug-18	Harris & Roome	0.40		7.08	8.3		1.03	67.8	33.2	0.06	10	
14-Aug-18	NBCCSJ	0.64		7.01	7.9		1.23	67.4	33.0	0.13	11	
14-Aug-18	Ryerson Metal Inc	0.05		7.19	8.5		1.11	68.7	33.7	0.03	10	
14-Aug-18	University Ave. Pump Station	0.96		7.18	8.3		1.01	70.2	34.4	0.02	6	
14-Aug-18	Highland Road Pump Station	0.41		7.12	9.3		0.85	70.1	34.4	0.03	4	
14-Aug-18	Kennebecasis Drive	1.11		7.17	9.6		0.92	70.8	34.7	0.02	7	
14-Aug-18	Bridge Road (Zone 8)	0.57		7.79	148.0		0.40	556.1	272.6	0.04		
14-Aug-18	Fundy Linen	0.74		7.80	131.0		0.08	556.1	272.9	non detect		
14-Aug-18	Travelodge Suites	0.94		7.82	125.0		0.09	556.2	272.7	non detect		
14-Aug-18	PRV 24	0.87		7.82	129.0		0.07	556.8	273.1	non detect		
14-Aug-18	Doiron's	0.83		7.85	131.0		0.08	556.8	273.0	non detect		
14-Aug-18	Churchill Heights Tank (Out)	1.00		7.90	129.0		0.12	555.0	272.1	0.02		
14-Aug-18	Carleton Community Center	0.69		7.82	128.0		0.18	556.6	273.0	non detect		
14-Aug-18	Spruce Lake Fluoride Analyzer	0.90		7.84	129.0			557.9	273.6	non detect		
14-Aug-18	Centracare	0.69		7.85	128.0		0.08	556.4	273.0	non detect		
14-Aug-18	Jones Variety	0.82		7.87	129.0		0.10	556.5	272.8	non detect		
14-Aug-18	Dunn Ave	0.82		7.81	128.0		0.08	556.5	272.4	non detect		
14-Aug-18	Operations Complex (Rothesay Ave.)	0.90		7.19	9.4		0.86	68.8	33.8	0.04	5	
14-Aug-18	Little River Line#4 (Outside Chamber)	2.30		7.15	7.6		0.88	65.8	32.3	0.02	5	
14-Aug-18	Little River Line#2	1.38		7.31	10.2		0.84	68.3	33.5	0.02	5	
	Little River Line#3											
14-Aug-18	Latimer Lake Line #1 (39" A)	3.60		7.32	10.2			68.4	33.5	0.02	11	
14-Aug-18	Latimer Lake Line #2 (42" B)	3.50		7.14	9.1			66.1	32.4	0.02	6	
14-Aug-18	Champlain Heights Pumping Stn.	1.92		7.25	9.5		0.90	67.2	33.0	0.02	6	
14-Aug-18	Millidgeville Treatment Plant	0.78		7.14	9.9		0.98	69.1	33.9	0.02	8	
14-Aug-18	Spruce Lake (Raw)			6.91	4.1		0.52	31.8	15.6	0.03	10	9
14-Aug-18	Latimer Lake 42" B (Raw)			7.26	8.3	0.019	0.80	48.8	23.9	0.02	16	13
14-Aug-18	Latimer Lake 39"A (Raw)			7.22	8.6	0.027	0.98	48.6	23.9	0.02	22	
14-Aug-18	Eastern Wastewater Treatment Plant	1.19		7.19	9.1		0.95	68.3	33.5	0.03	5	
14-Aug-18	Ocean Drive			8.07	85.0		0.15	293.7	144.2	non detect	-3	
14-Aug-18	Seaward Crescent			8.05	93.0		0.13	247.8	121.7	non detect	-5	

2 samples measured twice each



## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
21-Aug	36 Park Drive	0.36	7.25	69.2	34.0	10.8	0.89	13.4	0.03		4		0.95	
21-Aug	Willie Avenue Standpipe	0.06	7.13	69.5	34.1	10.4	0.88	12.4	0.03		5		0.95	
21-Aug	Somerset Street (pump Stn.)	1.17	7.37	68.9	33.9	11.1	1.24	12.5	0.02		6		1.29	
21-Aug	Golden Grove Road	1.04	7.32	69.0	33.9	10.3	1.16	13.2	0.03		5		1.12	
21-Aug	Harris & Roome	0.24	7.10	68.4	33.6	11.1	0.82	14.7	0.03		5		0.78	
21-Aug	NBCCSJ	1.26	7.24	68.5	33.6	10.2	1.68	12.7	0.05		9		1.18	
21-Aug	Ryerson Metal Inc.	0.00	7.02	69.7	34.1	10.5	0.68	12.7	0.04		5		0.75	
21-Aug	University Ave. Pump Station	1.20	7.33	70.5	34.6	10.7	1.07	13.2	0.02		4		1.16	
21-Aug	Highland Road Pump Station	0.02	7.11	69.8	34.3	10.5	0.83	12.5	0.02		4		0.80	
21-Aug	Kennebecasis Drive	0.72	7.26	71.2	34.9	10.7	1.67	12.5	0.03		14		1.00	
21-Aug	Operations Complex (Rothesay Ave.)	1.53	7.32	69.1	33.9	10.3	1.35	13.0	0.03		9		1.37	
21-Aug	Little River Line#4 (Outside Chamber)	2.50	7.21	67.3	33.0	10.2	0.85	12.7	0.02		3		1.27	
	Little River Line#2													
	Little River Line#3													
21-Aug	Latimer Lake Line #1 (39" A)		7.46	69.9	34.3	11.1		12.7	0.02		4		1.27	
21-Aug	Latimer Lake Line #2 (42" B)		7.25	66.6	32.8	10.3		12.4	non detect		5		1.05	
21-Aug	Champlain Heights Pumping Stn.	1.83	7.32	68.8	33.8	10.6	1.03	13.4	0.02		4		1.40	
21-Aug	Millidgeville Treatment Plant	0.47	7.16	69.5	34.1	10.5	1.24	13.8	0.04		9		0.77	
21-Aug	Latimer Lake 42" B (Raw)	3.60	7.19	49.1	24.2	8.7	1.00		non detect	0.013	19	14		73.6
21-Aug	Latimer Lake 39" A (Raw)	3.70	7.09	49.4	24.2	8.5	0.98		non detect	0.014	16			
21-Aug	Eastern Wastewater Treatment Plant	1.01	7.32	69.0	33.9	10.5	1.09	12.9	0.02		5		1.00	
21-Aug	Ocean Drive		8.04	293.2	144.0	88.0	0.11	116.0	non detect					
21-Aug	Seaward Crescent		8.04	248.0	121.7	94.0	0.19	107.0	non detect					
21-Aug	928 Kennebecasis Drive (hydrant)		7.19					107.0	0.02				0.85	
21-Aug	981 Millidge Avenue (hydrant)		7.02						0.92				0.72	
21-Aug	184 Bridge Street (hydrant)		7.11						0.06				0.92	
21-Aug	Bridge Road (Zone 8)	0.79	7.78	557.1	273.6	129	1.28	223	0.21				1.27	
21-Aug	Fundy Linen	0.78	7.83	551.2	270.5	129	0.08	219	non detect				1.30	
21-Aug	Travelodge Suites	1.13	7.88	556.1	273.0	130	0.08	215	non detect				1.33	
21-Aug	PRV 24	1.05	7.84	555.4	272.5	127	0.09	212	non detect				1.40	
21-Aug	Doiron's	0.85	7.81	556.0	273.0	132	0.12	215	non detect				1.25	
21-Aug	Churchill Heights Tank (Out)	1.07	7.86	555.5	272.8	127	0.12	213	non detect				1.38	
21-Aug	Carleton Community Center	0.75	7.83	554.5	272.2	127	0.10	213	non detect				1.25	
21-Aug	Spruce Lake Fluoride Analyzer	0.96	7.85	555.0	272.3	126		214	non detect				1.41	
21-Aug	Centracare	0.77	7.87	555.1	272.5	128	0.13	215	non detect				1.28	
21-Aug	Jones Variety	0.86	7.85	555.1	272.3	127	0.12	215	non detect				1.29	
21-Aug	Dunn Ave	0.78	7.84	555.0	272.5	125	0.09	212	non detect				1.30	
21-Aug	Spruce Lake (Raw)		6.80	32.1	15.8	3.7	0.54		0.04		12	9		79.9
21-Aug	Southbay Wellfield Well # 1		7.89	548.0	269.0	125	0.34	209	0.06	0.017	-3	-1		99.7
21-Aug	Southbay Wellfield Well # 2		7.88	546.1	268.2	129	0.39	215	0.07	0.012	-2	0		99.0
21-Aug	Southbay Wellfield Well # 3		7.81	651.1	319.6	167	0.74	272	0.11	0.120	-1	-1		99.3









## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
28-Aug	36 Park Drive	0.71	7.04	68.9	33.9	10.0	1.08	12.9	0.02		8		0.93	
28-Aug	Willie Avenue Standpipe	0.04	7.00	69.5	34.1	10.5	0.88	13.0	0.04		7		1.04	
28-Aug	Somerset Street (pump Stn.)	1.39	7.06	69.0	33.9	10.0	1.08	12.7	0.02		6		1.16	
28-Aug	Golden Grove Road	1.36	7.03	69.2	34.0	10.4	0.90	13.4	0.02		7		1.08	
28-Aug	Harris & Roome	0.49	7.02	69.0	33.9	10.6	0.82	15.9	0.03		10		0.91	
28-Aug	NBCCSJ	0.06	7.04	69.2	34.0	10.4	1.49	14.0	0.12		14		0.80	
28-Aug	Ryerson Metal Inc.	0.78	6.98	69.2	34.0	10.5	0.96	15.7	0.02		8		1.05	
28-Aug	University Ave. Pump Station	1.15	7.02	69.9	34.4	10.8	1.06	13.8	0.02		9		1.14	
28-Aug	Highland Road Pump Station	0.51	7.10	69.8	34.3	10.8	0.77	13.0	0.02		6		0.92	
28-Aug	Kennebecasis Drive	0.75	7.08	71.9	35.3	10.7	0.96	13.6	0.02		6		0.92	
28-Aug	Operations Complex (Rothesay Ave.)	0.80	7.07	70.5	34.6	10.3	0.77	14.3	0.08		6		0.97	
28-Aug	Little River Line#4 (Outside Chamber)	3.10	6.94	67.4	33.1	9.5	0.98	12.7	0.02		6		0.79	
	Little River Line#2													
	Little River Line#3													
28-Aug	Latimer Lake Line #1 (39" A)	3.60	7.07	69.7	34.3	10.4		13.2	0.03		8		0.90	
28-Aug	Latimer Lake Line #2 (42" B)	3.50	6.95	66.8	32.8	10.5		12.8	0.02		10		0.93	
28-Aug	Champlain Heights Pumping Stn.	1.80	7.03	69.0	33.9	10.2	0.87	12.6	0.02		4		1.05	
28-Aug	Millidgeville Treatment Plant	0.59	6.99	69.9	34.3	11.2	0.86	17.3	0.02		8		0.73	
28-Aug	Latimer Lake 42" B (Raw)		7.04	49.2	24.2	9.6	0.87		0.02	0.018	20	14		73.8
28-Aug	Latimer Lake 39" A (Raw)		7.10	49.0	24.1	9.4	0.91		0.03	0.023				
28-Aug	Eastern Wastewater Treatment Plant	1.30	6.96	69.1	34.0	10.2	1.10	12.8	0.02		6		1.13	
28-Aug	Ocean Drive		8.11	292.4	143.7	87.0	0.13	112.0						
28-Aug	Seaward Crescent		8.10	248.3	122.0	97.0	0.41	108.0	0.03					
28-Aug	928 Kennebecasis Drive (hydrant)		7.02										0.82	
28-Aug	981 Millidge Avenue (hydrant)		7.03										0.78	
28-Aug	184 Bridge Street (hydrant)		6.97										0.92	
28-Aug	Bridge Road (Zone 8)	0.61	8.01	550.2	270.5	125	5.12	216	0.42				1.30	
28-Aug	Fundy Linen	0.92	8.02	554.5	273.1	127	0.10	217	non detect				1.25	
28-Aug	Travelodge Suites	0.99	7.96	555.6	273.0	126	0.15	215	non detect				1.28	
28-Aug	PRV 24	1.09	8.02	555.6	273.4	127	0.02	215	non detect				1.28	
28-Aug	Doiron's	0.85	7.98	555.7	273.0	126	0.08	216	non detect				1.21	
28-Aug	Churchill Heights Tank (Out)	0.98	8.00	555.8	273.1	124	0.09	216	non detect				1.24	
28-Aug	Carleton Community Center	0.79	7.98	556.2	273.3	134	0.08	218	0.05				1.15	
28-Aug	Spruce Lake Fluoride Analyzer	0.92	8.00	555.1	272.6	125		216	non detect				1.37	
28-Aug	Centracare	0.72	8.01	555.2	272.8	127	0.09	214	non detect				1.19	
28-Aug	Jones Variety	0.78	8.02	555.4	272.7	130	0.08	216	non detect				1.17	
28-Aug	Dunn Ave	0.82	7.98	554.5	272.3	132	0.35	205	non detect				1.18	
28-Aug	Spruce Lake (Raw)		6.84	33.1	15.6	5.3	0.51		0.03		11	10		80.0
28-Aug	Southbay Wellfield Well # 1		7.95	549.6	269.9	122	0.21	214	non detect	0.013	-4	1		99.6
28-Aug	Southbay Wellfield Well # 2		7.91	548.9	269.7	131	0.11	216	non detect	0.012	-5	1		99.8
28-Aug	Southbay Wellfield Well # 3		7.89	654.1	321.2	166	0.37	270	0.03	0.114	-5	0		98.9





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
04-Sep	36 Park Drive	1.43	7.46	139.2	68.2	42.0	0.14	18.0			1		0.84	
04-Sep	Willie Avenue Standpipe	0.95	7.50	124.4	61.1	33.0	0.31	19.0	0.02		-4		0.89	
04-Sep	Somerset Street (pump Stn.)	1.69	7.52	139.0	68.1	45.0	0.09	22.0					0.88	
04-Sep	Golden Grove Road	1.42	7.55	138.8	68.2	43.0	0.10	25.0					0.85	
04-Sep	Harris & Roome	0.33	7.60	136.7	67.2	41.0	0.15	47.0					0.54	
04-Sep	NBCCSJ	1.74	7.67	138.1	67.8	43.0	1.20	21.0	0.06				0.84	
04-Sep	Ryerson Metal Inc.	0.37	7.42	116.9	57.4	30.0	0.50	21.0					0.80	
04-Sep	University Ave. Pump Station	1.58	7.55	138.5	68.0	45.0	0.18	19.0					0.80	
04-Sep	Highland Road Pump Station	0.80	7.49	137.4	67.5	41.0	0.17	21.0	0.02				0.68	
04-Sep	Kennebecasis Drive	1.65	7.56	139.3	68.4	40.0	0.10	31.0					0.80	
04-Sep	Operations Complex (Rothesay Ave.)	1.43	7.65	138.4	68.4	44.0	0.09	22.0					0.92	
04-Sep	Little River Line#4 (Outside Chamber)	2.10	7.36	66.1	32.5	11.0	1.29	14.0	0.02		4		0.97	
	Little River Line#2													
	Little River Line#3													
04-Sep	Latimer Lake Line #1 (39" A)	3.50	7.38	70.5	34.7	11.3		13.6			1		1.28	
04-Sep	Latimer Lake Line #2 (42" B)	2.50	7.37	65.8	32.4	10.9		12.9	0.02		3		1.19	
04-Sep	Champlain Heights Pumping Stn.	1.70	7.53	138.8	68.2	42.0	0.11	18.0					0.94	
04-Sep	Millidgeville Treatment Plant	0.53	7.42	120.4	59.1	33.0	0.42	21.0					0.62	
04-Sep	Latimer Lake 42" B (Raw)		7.37	49.6	24.4	9.2	1.04				14	10		73.9
04-Sep	Latimer Lake 39" A (Raw)		7.24	49.8	24.5		1.06				12			
04-Sep	Eastern Wastewater Treatment Plant	1.53	7.53	139.9	68.7	44.0	0.11	26.0					0.77	
04-Sep	Ocean Drive		8.05	291.9	143.4	83.0	0.18	115.0						
04-Sep	Seaward Crescent		8.04	249.6	122.5	91.0	0.50	110.0	0.03					
04-Sep	928 Kennebecasis Drive (hydrant)	0.37	7.39	118.5	58.2	31	0.45	21					0.72	
04-Sep	981 Millidge Avenue (hydrant)	0.66	7.39	138.0	67.7	42	2.93	17			7		0.74	
04-Sep	184 Bridge Street (hydrant)	1.59	7.50	138.4	67.8	43	15.6	21	1.71		93		0.74	
04-Sep	Bridge Road (Zone 8)	0.51	7.80	557.6	273.9	126	0.92	214	0.10				1.32	
04-Sep	Fundy Linen	0.96	7.83	559.0	274.0	128	0.10	218	non detect				1.39	
04-Sep	Travelodge Suites	0.94	7.84	559.0	274.4	125	0.07	217	non detect				1.38	
04-Sep	PRV 24	0.94	7.82	558.0	274.1	126	0.12	218	non detect				1.42	
04-Sep	Doiron's	0.86	7.87	557.6	273.8	128	0.14	218	non detect				1.28	
04-Sep	Churchill Heights Tank (Out)	0.89	7.86	558.0	274.2	126	0.16	218	non detect				1.32	
04-Sep	Carleton Community Center	0.69	7.84	558.0	274.0	128	0.10	218	non detect				1.19	
04-Sep	Spruce Lake Fluoride Analyzer	0.96	7.86	559.0	274.6	127		218	non detect				1.44	
04-Sep	Centracare	0.64	7.89	558.4	274.2	127	0.10	221	non detect				1.27	
04-Sep	Jones Variety	0.80	7.88	557.1	273.7	127	0.07	219	non detect				1.31	
04-Sep	Dunn Ave	0.88	7.87	557.8	273.9	126	0.09	220	non detect				1.34	
04-Sep	Spruce Lake (Raw)		6.88	31.3	15.4	4.3	0.55		0.03		5	6		80.4
04-Sep	Southbay Wellfield Well # 1		7.96	551.9	271.2	127	0.22	218	0.04	0.017	non detect	-3		99.3
04-Sep	Southbay Wellfield Well # 2		7.88	554.1	272.1	129	0.11	221	non detect	0.016	non detect	-3		98.9
04-Sep	Southbay Wellfield Well # 3		7.85	576.7	283.4	134	0.96	242	0.10	0.026	non detect	-3		99.1





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
11-Sep	36 Park Drive	1.76	7.31	136.1	66.8	41	0.10	22	non detect		1		0.54	
11-Sep	Willie Avenue Standpipe	0.53	7.38	125.8	61.8	38	0.50	21	0.02		4		0.65	
11-Sep	Somerset Street (pump Stn.)	1.62	7.15	128.8	63.3	41	0.26	21	non detect		2		0.72	
11-Sep	Golden Grove Road	1.63	7.21	125.7	61.7	39	0.14	19	non detect		0		0.70	
11-Sep	Harris & Roome	0.98	7.19	131.4	64.5	41	0.26	23	non detect		0		0.66	
11-Sep	NBCCSJ	1.05	7.36	128.9	63.3	40	0.88	20	0.05		3		0.50	
11-Sep	Ryerson Metal Inc.	1.21	7.12	128.0	62.9	42	0.17	35	non detect		0		0.81	
11-Sep	University Ave. Pump Station	1.28	7.38	134.6	66.1	45	0.24	17	non detect		1		0.80	
10-Sep	Highland Road Pump Station	1.15	7.40	133.4	65.5	42	0.13	22	0.02		0		0.57	
10-Sep	Kennebecasis Drive	1.53	7.48	134.6	66.1	45	0.16	25	0.02		1		0.71	
11-Sep	Operations Complex (Rothesay Ave.)	0.69	7.42	140.1	68.8	41	0.27	23	0.06		1		0.67	
10-Sep	Little River Line#4 (Outside Chamber)	1.87	6.76	58.0	28.5	9	1.04	15	0.03		15		0.05	
11-Sep	Little River Line#2													
11-Sep	Little River Line#3													
11-Sep	Latimer Lake Line #1 (39" A)	2.00	6.53	53.7	26.4	14		14	non detect		17		0.05	
11-Sep	Latimer Lake Line #2 (42" B)	2.30	6.47	53.3	28.2	10		13	0.02		18		0.06	
11-Sep	Champlain Heights Pumping Stn.	1.78	7.01	115.2	56.6	37	0.34	23	non detect		1		0.67	
11-Sep	Millidgeville Treatment Plant	0.79	7.31	138.2	67.9	43	0.38	29	non detect		1		0.89	
11-Sep	Latimer Lake 42" B (Raw)		7.10	49.7	24.4	10	1.17		non detect	0.037	24	13		74.0
11-Sep	Latimer Lake 39" A (Raw)		7.05	49.8	24.5		1.62		0.02	0.048				
11-Sep	Eastern Wastewater Treatment Plant	1.71	7.13	127.1	62.5	41	0.22	22	non detect		2		0.76	
11-Sep	Ocean Drive		8.02	292.1	143.4	84	0.25	111	non detect					
11-Sep	Seaward Crescent		7.98	246.5	121.0	91	0.32	104	non detect					
10-Sep	928 Kennebecasis Drive (hydrant)	0.96	7.55	134.1	65.9	42	0.19	25	non detect		0		0.59	
10-Sep	981 Millidge Avenue (hydrant)	1.08	7.47	132.9	65.3	43	7.51	28	0.29		47		0.57	
10-Sep	184 Bridge Street (hydrant)	1.39	7.46	133.1	65.4	45	8.96	28	0.77		28		0.84	
10-Sep	Bridge Road (Zone 8)	0.57	7.75	578.5	284.0	142	0.30	225	0.04				1.21	
11-Sep	Fundy Linen	0.88	7.90	559.1	274.9	129	0.13	216	non detect				0.55	
11-Sep	Travelodge Suites	0.91	7.88	561.7	275.7	129	0.13	219	non detect				0.47	
11-Sep	PRV 24	0.91	7.90	560.0	275.3	131	0.11	221	non detect				0.39	
11-Sep	Doiron's	0.80	7.93	561.1	275.5	133	0.13	224	non detect				0.63	
11-Sep	Churchill Heights Tank (Out)	1.00	7.87	585.8	287.8	143	0.14	234	non detect				1.31	
11-Sep	Carleton Community Center	0.76	7.82	565.2	277.6	132	0.15	219	non detect				1.19	
11-Sep	Spruce Lake Fluoride Analyzer	0.97	7.91	559.6	274.3	132		220	non detect				0.11	
11-Sep	Centracare	0.48	7.81	578.7	284.2	138	0.12	231	non detect				1.17	
11-Sep	Jones Variety	0.80	7.86	561.7	276.0	135	0.12	218	non detect				0.89	
11-Sep	Dunn Ave	0.88	7.87	559.8	274.9	129	0.10	221	non detect				0.58	
11-Sep	Spruce Lake (Raw)		7.21	32.0	15.7	4.5	4.97		0.21		70	11		79.6
11-Sep	Southbay Wellfield Well # 1		7.88	556.4	273.1	126	0.22	215	0.02	0.016	-2	-1		98.7
11-Sep	Southbay Wellfield Well # 2		7.85	551.2	270.9	127	0.16	223	non detect	0.013	-3	0		99.2
11-Sep	Southbay Wellfield Well # 3		7.76	658.3	323.2	172	1.07	263	0.08	0.037	4	1		98.7





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
18-Sep	36 Park Drive	1.41	7.35	125.4	61.6	39.0	0.06	21.0	non detect		4		0.56	
18-Sep	Willie Avenue Standpipe	0.97	7.32	121.3	59.6	36.0	0.23	19.0	non detect		5		0.73	
18-Sep	Somerset Street (pump Stn.)	1.63	7.43	125.8	61.8	37.0	0.14	20.0	non detect		6		0.68	
18-Sep	Golden Grove Road	1.57	7.39	124.1	60.9	39.0	0.16	24.0	non detect		2		0.69	
18-Sep	Harris & Roome	0.40	7.37	125.1	61.5	39.0	0.12	54.0	non detect		5		0.43	
18-Sep	NBCCSJ	1.75	7.52	123.9	60.9	39.0	0.42	22.0	0.04		3		0.63	
18-Sep	Ryerson Metal Inc.	0.66	7.37	122.6	60.3	37.0	0.66	24.0	0.03		7		0.64	
18-Sep	University Ave. Pump Station	1.73	7.45	125.5	61.7	38.0	0.18	23.0	non detect		4		0.67	
18-Sep	Highland Road Pump Station	0.67	7.38	127.4	62.6	39.0	0.10	22.0	non detect		4		0.49	
18-Sep	Kennebecasis Drive	1.36	7.41	126.6	62.2	38.0	0.19	21.0	non detect		5		0.63	
18-Sep	Operations Complex (Rothsay Ave.)	1.65	7.53	124.2	61.12.90	40.0	0.20	22.0	non detect		5		0.65	
18-Sep	Little River Line#4 (Outside Chamber)	3.90	6.40	56.3	27.7	9.0	1.33	18.0	0.02		17		0.04	
	Little River Line#2													
	Little River Line#3													
18-Sep	Latimer Lake Line #1 (39" A)	2.90	6.39	53.3	26.2	8.0		14.0	non detect		21		0.08	
18-Sep	Latimer Lake Line #2 (42" B)	3.30	6.34	52.9	26.0	8.0		14.0	non detect		21		0.05	
18-Sep	Champlain Heights Pumping Stn.	2.02	7.36	123.1	60.5	41.0	0.15	22.0	non detect		5		0.77	
18-Sep	Millidgeville Treatment Plant	0.84	7.28	123.9	60.9	38.0	0.13	26.0	0.03		2		0.57	
18-Sep	Latimer Lake 42" B (Raw)		7.42	50.2	24.8	11.0	1.05		0.02	0.040	26	15		74.8
18-Sep	Latimer Lake 39" A (Raw)		7.32	50.4	24.8		1.45		0.02	0.045				
18-Sep	Eastern Wastewater Treatment Plant	1.51	7.41	125.2	61.4	42.0	0.29	18.0	non detect		5		0.65	
18-Sep	Ocean Drive		7.98	312.6	153.4	88.0	0.11	118.0	non detect					
18-Sep	Seaward Crescent		8.04	258.0	126.6	93.0	0.18	110.0	non detect					
18-Sep	928 Kennebecasis Drive (hydrant)	1.12	7.51	124.3	61.1	40	0.19	24	non detect		4		0.57	
18-Sep	981 Millidge Avenue (hydrant)	0.89	7.36	126.7	62.2	39	9.07	21	1.03		59		0.68	
18-Sep	184 Bridge Street (hydrant)	1.41	7.37	125.3	61.6	39	0.88	23	0.15		5		0.54	
18-Sep	Bridge Road (Zone 8)	0.42	7.79	561.5	276.5	128	0.21	217	0.05				1.12	
18-Sep	Fundy Linen	0.79	7.84	562.8	276.8	128	0.13	219	non detect				1.30	
18-Sep	Travelodge Suites	0.94	7.81	563.2	277.4	126	0.16	216	non detect				1.30	
18-Sep	PRV 24	0.91	7.84	564.2	277.4	126	0.10	216	non detect				1.30	
18-Sep	Doiron's	0.84	7.83	564.6	277.2	130	0.22	216	non detect				1.19	
18-Sep	Churchill Heights Tank (Out)	0.96	7.84	568.8	279.6	133	0.28	216	0.02				1.17	
18-Sep	Carleton Community Center	0.70	7.83	563.5	276.8	129	0.18	218	0.02				1.20	
18-Sep	Spruce Lake Fluoride Analyzer	0.91	7.82	564.7	277.5	131		218	non detect				1.35	
18-Sep	Centracare	0.63	7.85	563.7	276.9	129	0.12	213	non detect				1.19	
18-Sep	Jones Variety	0.79	7.84	568.9	279.6	135	0.15	219	non detect				1.11	
18-Sep	Dunn Ave	0.86	7.83	563.1	276.7	129	0.19	219	non detect				1.19	
18-Sep	Spruce Lake (Raw)		7.08	32.5	16.0	4.0	0.83		0.04		17	9		80.2
18-Sep	Southbay Wellfield Well # 1		7.88	559.8	274.6	128	0.26	211	0.03	0.027	4	2		99.0
18-Sep	Southbay Wellfield Well # 2		7.79	558.6	274.4	136	0.22	219	non detect	0.020	1	-1		99.2
18-Sep	Southbay Wellfield Well # 3		7.75	690.0	339.2	179	0.26	283	0.02	0.091	6	2		98.7







## City of Saint John

### Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
25-Sep	36 Park Drive	1.48	7.37	142.0	69.9	49	0.12	20	non detect		-4		0.72	
25-Sep	Willie Avenue Standpipe	0.76	7.42	124.8	60.4	43	0.22	23	non detect		-1		0.79	
25-Sep	Somerset Street (pump Stn.)	1.51	7.43	138.6	68.1	50	0.22	21	non detect		-1		0.71	
25-Sep	Golden Grove Road	1.16	7.47	135.7	66.7	50	0.15	25	non detect		-5		0.66	
25-Sep	Harris & Roome	0.43	7.45	135.2	66.4	52	0.12	22	non detect		-2		0.53	
25-Sep	NBCCSJ	0.85	7.51	130.6	64.1	42	0.24	21	0.03		-5		0.60	
25-Sep	Ryerson Metal Inc.	1.29	7.43	140.3	68.8	50	0.16	20	non detect		non detect		0.65	
25-Sep	University Ave. Pump Station	1.73	7.41	141.8	69.7	52	0.20	26	non detect		-1		0.76	
25-Sep	Highland Road Pump Station	0.80	7.39	138.3	67.9	52	0.11	21	non detect		0		0.70	
25-Sep	Kennebecasis Drive	1.21	7.46	143.3	70.4	57	0.18	20	non detect		-1		0.69	
25-Sep	Operations Complex (Rothesay Ave.)	1.43	7.51	138.6	67.6	52	0.17	23	non detect		0		0.77	
	Little River Line#4 (Outside Chamber)													
	Little River Line#2													
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
25-Sep	Champlain Heights Pumping Stn.	1.47	7.45	138.0	67.9	52	0.17	25	non detect		0		0.73	
25-Sep	Millidgeville Treatment Plant	1.17	7.39	143.1	70.2	54	0.29	36	non detect		-1		0.54	
25-Sep	Latimer Lake 42" B (Raw)		7.19	50.3	24.7	9	1.96		0.03	0.111	29	8		74.9
25-Sep	Latimer Lake 39" A (Raw)		7.25	50.3	24.7		1.90		0.04	0.107				
25-Sep	Eastern Wastewater Treatment Plant	1.22	7.50	137.9	67.8	50	0.17	19	non detect		non detect		0.61	
25-Sep	Ocean Drive		8.03	289.7	142.5	85	0.09	119	non detect					
25-Sep	Seaward Crescent		7.99	252.2	123.7	92	0.70	109	non detect					
25-Sep	928 Kennebecasis Drive (hydrant)	0.49	7.83	138.2	67.3	48	0.14	22	non detect		0		0.54	
25-Sep	981 Millidge Avenue (hydrant)	0.38	7.41	138.8	68.2	55	0.22	20	non detect		-1		0.62	
25-Sep	184 Bridge Street (hydrant)	1.04	7.45	142.1	69.8	54	0.50	25	0.05		1		0.69	
25-Sep	Bridge Road (Zone 8)	0.60	7.74	558.0	274.1	126	0.51	216	0.06				1.31	
26-Sep	Fundy Linen	0.98	7.81	558.0	273.8	128	0.11	215	non detect				1.04	
26-Sep	Travelodge Suites	0.78	7.79	560.5	275.4	129	0.17	220	non detect				1.16	
26-Sep	PRV 24	0.97	7.80	558.6	274.0	129	0.20	220	non detect				1.06	
25-Sep	Doiron's	0.89	7.79	558.4	274.3	127	0.08	219	non detect				1.18	
25-Sep	Churchill Heights Tank (Out)	0.88	7.85	558.8	274.5	126	0.17	219	non detect				1.36	
25-Sep	Carleton Community Center	0.82	7.80	557.1	273.6	125	0.08	216	non detect				1.29	
25-Sep	Spruce Lake Fluoride Analyzer	0.82	7.82	558.3	274.2	126		225	non detect				1.34	
26-Sep	Centracare	0.63	7.82	558.2	274.2	127	0.15	219	non detect				1.18	
25-Sep	Jones Variety	0.76	7.86	561.6	275.2	125	0.12	216	non detect				1.19	
25-Sep	Dunn Ave	0.86	7.82	558.3	274.2	126	0.09	216	non detect				1.22	
25-Sep	Spruce Lake (Raw)		7.33	30.8	15.1	4.2	0.63		0.04		13	4		80.5
25-Sep	Southbay Wellfield Well # 1		7.94	552.9	271.5	124	1.95	217	0.13	0.031	1	-4		99.4
25-Sep	Southbay Wellfield Well # 2		7.91	551.7	271.0	130	0.13	220	non detect	0.023	0	non detect		99.5
25-Sep	Southbay Wellfield Well # 3		7.82	679.5	333.7	181	0.44	278	0.07	0.101	1	non detect		99.1





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
02-Oct	36 Park Drive	1.20	7.32	149.9	73.6	54	0.10	22	non detect		3		0.85	
02-Oct	Willie Avenue Standpipe	0.97	7.43	141.6	69.6	48	0.55	18	0.02		4		0.85	
02-Oct	Somerset Street (pump Stn.)	1.44	7.38	151.8	74.5	58	0.18	23	non detect		0		0.85	
02-Oct	Golden Grove Road	1.34	7.34	150.8	74.1	57	0.13	23	non detect		-3		1.21	
02-Oct	Harris & Roome	0.84	7.35	151.9	74.7	55	0.40	26	non detect		2		0.60	
02-Oct	NBCCSJ	0.89	7.49	147.2	72.2	54	0.27	22	non detect		3		0.91	
02-Oct	Ryerson Metal Inc.	1.18	7.41	152.0	74.5	55	0.28	23	non detect		-1		0.80	
02-Oct	University Ave. Pump Station	1.55	7.42	151.7	74.5	58	0.31	24	non detect		6		0.78	
02-Oct	Highland Road Pump Station	0.70	7.51	156.3	76.7	56	0.14	24	non detect		1		0.72	
02-Oct	Kennebecasis Drive	1.26	7.42	151.6	74.9	57	0.19	26	non detect		1		0.76	
02-Oct	Operations Complex (Rothsay Ave.)	1.42	7.39	150.8	74.0	55	0.37	19	0.02		-1		0.84	
	Little River Line#4 (Outside Chamber)													
02-Oct	Little River Line#2	1.49	7.34	150.0	73.7	58	0.30	26	non detect		-2		0.83	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
02-Oct	Champlain Heights Pumping Stn.	1.65	7.36	150.7	74.1	57	0.24	23	0.02		non detect		0.84	
02-Oct	Millidgeville Treatment Plant	0.87	7.41	152.2	74.7	57	1.14	29	0.02		-3		0.71	
02-Oct	Latimer Lake 42" B (Raw)		7.36	51.4	25.3	9.5	2.49		0.02	0.090	36	13		75.6
02-Oct	Latimer Lake 39" A (Raw)		7.16	51.8	25.4		2.74		0.03	0.126				
02-Oct	Eastern Wastewater Treatment Plant	1.30	7.40	151.5	74.5	56	0.36	25	0.02		non detect		0.87	
02-Oct	Ocean Drive		8.00	302.2	148.1	85	0.14	123	non detect					
02-Oct	Seaward Crescent		7.98	247.4	121.5	91	0.52	115	non detect					
02-Oct	928 Kennebecasis Drive (hydrant)	0.93	7.63	154.5	75.8	55	0.22	28	non detect		-4		0.75	
02-Oct	981 Millidge Avenue (hydrant)	0.59	7.43	154.5	75.7	56	0.41	27	non detect		2		0.66	
02-Oct	184 Bridge Street (hydrant)	1.45	7.42	151.8	74.5	56	2.76	29	0.14		13		0.82	
02-Oct	Bridge Road (Zone 8)	0.57	7.75	554.1	272.1	129	0.55	216	0.09				1.21	
02-Oct	Fundy Linen	0.96	7.79	556.6	273.1	129	0.24	216	non detect				1.30	
02-Oct	Travelodge Suites	0.98	7.79	556.3	273.0	129	0.11	217	non detect				1.39	
02-Oct	PRV 24	0.93	7.77	557.4	273.6	130	0.10	217	non detect				1.36	
02-Oct	Doiron's	0.80	7.82	556.8	273.3	129	0.09	219	non detect				1.25	
02-Oct	Churchill Heights Tank (Out)	0.91	7.83	555.4	272.8	129	0.10	221	non detect				1.26	
02-Oct	Carleton Community Center	0.77	7.81	557.2	273.4	130	0.09	217	non detect				1.26	
02-Oct	Spruce Lake Fluoride Analyzer	0.96	7.82	555.9	272.9	130		213	non detect				1.38	
02-Oct	Centracare	0.87	7.84	556.8	273.3	130	0.09	221	non detect				1.20	
02-Oct	Jones Variety	0.80	7.86	556.1	272.9	128	0.08	221	non detect				1.33	
02-Oct	Dunn Ave	0.80	7.84	555.6	272.8	128	0.19	220	non detect				1.22	
02-Oct	Spruce Lake (Raw)		6.76	30.8	15.1	4.5	0.55		0.04		17	10		81.6
02-Oct	Southbay Wellfield Well # 1		7.86	554.2	272.1	127	0.12	217	non detect	0.023	-2	0		98.9
02-Oct	Southbay Wellfield Well # 2		7.84	550.2	270.1	135	0.12	221	non detect	0.012	-5	-3		99.4
02-Oct	Southbay Wellfield Well # 3		7.83	587.8	288.6	144	0.50	242	0.04	0.023	1	0		99.6





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
09-Oct	36 Park Drive	0.76	7.41	150.5	73.8	51.0	0.12	17.0	non detect		2		0.94	
09-Oct	Willie Avenue Standpipe	0.84	7.53	129.7	63.6	49.0	0.16	24.0	non detect		3		0.89	
09-Oct	Somerset Street (pump Stn.)	1.84	7.59	92.9	45.6	44.0	0.24	18.0	non detect		4		1.06	
09-Oct	Golden Grove Road	1.14	7.49	88.1	43.2	27.0	0.20	17.0	non detect		3		0.90	
09-Oct	Harris & Roome	0.72	7.51	91.1	44.7	25.0	0.11	20.0	non detect		5		0.63	
09-Oct	NBCCSJ	0.48	7.52	128.0	62.7	43.0	0.31	29.0	0.05		4		0.68	
09-Oct	Ryerson Metal Inc.	0.42	7.48	147.6	72.5	52.0	0.09	25.0	non detect		4		0.73	
09-Oct	University Ave. Pump Station	1.54	7.59	109.2	53.5	42.0	0.18	22.0	non detect		6		0.95	
09-Oct	Highland Road Pump Station	0.78	7.53	108.9	53.4	37.0	0.10	25.0	non detect		3		0.79	
09-Oct	Kennebecasis Drive	1.20	7.57	133.5	65.5	45.0	0.27	24.0	non detect		6		0.86	
09-Oct	Operations Complex (Rothesay Ave.)	1.17	7.54	89.8	44.1	28.0	0.23	18.0	non detect		2		0.94	
	Little River Line#4 (Outside Chamber)													
09-Oct	Little River Line#2	1.45	7.53	87.9	43.2	24.0	0.12	22.0	non detect		2		0.98	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
09-Oct	Champlain Heights Pumping Stn.	1.28	7.51	88.4	43.4	23.0	0.13	17.0	0.07		3		0.97	
09-Oct	Millidgeville Treatment Plant	0.89	7.56	122.6	60.1	43.0	0.43	24.0	non detect		7		0.78	
09-Oct	Latimer Lake 42" B (Raw)		7.16	50.7	24.9	15.0	2.09		0.03	0.068	34			
09-Oct	Latimer Lake 39" A (Raw)		7.17	50.6	24.8		2.13		0.04	0.070				
09-Oct	Eastern Wastewater Treatment Plant	1.20	7.59	88.8	43.6	26.0	0.12	18.0	non detect		3		0.95	
09-Oct	Ocean Drive		8.01	291.2	142.7	83.0	0.09	112.0	non detect					
09-Oct	Seaward Crescent		8.04	253.6	124.5	100.0	0.14	113.0	non detect					
09-Oct	928 Kennebecasis Drive (hydrant)	0.20	7.44	146.9	72.1	49.0	1.69	21	0.33		15		0.57	
09-Oct	981 Millidge Avenue (hydrant)	0.94	7.52	102.8	50.5	30.0	0.41	20	0.04		4		0.85	
09-Oct	184 Bridge Street (hydrant)	0.93	7.57	91.5	44.9	26.0	0.89	19	0.07		11		0.90	
09-Oct	Bridge Road (Zone 8)	0.52	7.88	561.4	275.3	127	1.46	215	0.15				1.20	
09-Oct	Fundy Linen	0.88	7.83	563.4	276.4	124	0.11	223	non detect				1.20	
09-Oct	Travelodge Suites	0.92	7.82	564.0	276.6	126	0.12	219	non detect				1.28	
09-Oct	PRV 24	1.06	7.89	562.7	276.3	128	0.06	221	non detect				1.42	
09-Oct	Doiron's	0.77	7.89	563.1	276.0	126	0.13	217	0.02				1.15	
09-Oct	Churchill Heights Tank (Out)	1.04	7.94	562.5	276.1	126	0.19	217	non detect				1.17	
09-Oct	Carleton Community Center	0.88	7.91	563.0	276.6	128	0.20	223	non detect				1.17	
09-Oct	Spruce Lake Fluoride Analyzer	0.92	7.86	563.0	276.3	131		218	non detect				1.46	
09-Oct	Centracare	0.72	7.92	564.1	276.9	129	0.10	219	non detect				1.11	
09-Oct	Jones Variety	0.80	7.90	562.3	276.0	128	0.13	216	non detect				1.12	
09-Oct	Dunn Ave	0.82	7.86	563.2	276.4	128	0.08	215	non detect				1.12	
09-Oct	Spruce Lake (Raw)		6.83	31.7	15.6	4.4	0.62		0.05		17	12		78.9
09-Oct	Southbay Wellfield Well # 1		7.88	558.6	273.5	125	0.21	209	0.03	0.029	-1	1		98.9
09-Oct	Southbay Wellfield Well # 2		7.88	559.8	274.3	132	0.14	216	0.02	0.019	-2	-1		98.8
09-Oct	Southbay Wellfield Well # 3		7.83	593.4	291.0	147	0.46	238	0.04	0.027	2	0		99.0





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
16-Oct	36 Park Drive	0.68	7.34	100.2	49.2	32.0	0.40	24.0	non detect		-2		0.95	
16-Oct	Willie Avenue Standpipe	0.85	7.42	110.5	54.2	30.0	0.24	23.0	non detect		2		0.94	
16-Oct	Somerset Street (pump Stn.)	1.24	7.42	100.1	49.2	29.0	0.27	22.0	non detect		-3		1.08	
16-Oct	Golden Grove Road	1.15	7.40	100.9	49.6	28.0	0.22	28.0	non detect		2		1.06	
	Harris & Roome													
16-Oct	NBCCSJ	1.01	7.46	101.5	49.9	28.0	0.29	25.0	0.02		2		0.95	
16-Oct	Ryerson Metal Inc.	0.15	7.56	123.2	60.5	42.0	0.18	23.0	non detect		-3		0.74	
16-Oct	University Ave. Pump Station	1.15	7.43	101.8	50.0	29.0	0.32	22.0	non detect		-4		0.93	
16-Oct	Highland Road Pump Station	0.60	7.41	99.7	48.9	28.0	0.17	20.0	non detect		-2		0.88	
16-Oct	Kennebecasis Drive	0.93	7.47	102.0	50.1	28.0	0.24	21.0	non detect		0		0.97	
16-Oct	Operations Complex (Rothesay Ave.)	1.26	7.39	100.6	49.4	28.0	0.16	22.0	non detect		0		1.09	
	Little River Line#4 (Outside Chamber)													
16-Oct	Little River Line#2	1.70	7.43	101.4	49.8	29.0	0.15	20.0	no		-3		1.16	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
16-Oct	Champlain Heights Pumping Stn.	1.53	7.44	100.6	49.4	28.0	0.14	20.0	non detect		1		1.19	
16-Oct	Millidgeville Treatment Plant	0.69	7.43	101.3	49.7	28.0	0.19	20.0	non detect		-4		0.87	
16-Oct	Latimer Lake 42" B (Raw)		7.37	51.3	25.2	12.0	2.23		0.07	0.126	29	9		75.6
16-Oct	Latimer Lake 39" A (Raw)		7.24	51.3	25.2		1.47		0.04	0.096				
16-Oct	Eastern Wastewater Treatment Plant	1.21	7.41	100.4	49.3	29.0	0.21	22.0	non detect		-3		1.10	
16-Oct	Ocean Drive		8.01	294.6	144.6	87.0	0.08	118.0	non detect					
16-Oct	Seaward Crescent	7.99		252.9	124.2	92.0	0.10	107.0	non detect					
16-Oct	928 Kennebecasis Drive (hydrant)	0.05	7.39	103.0	50.5	27	0.85	23	0.25		6		0.62	
16-Oct	981 Millidge Avenue (hydrant)	0.80	7.48	100.3	49.2	27	0.42	21	0.04		-3		0.89	
16-Oct	184 Bridge Street (hydrant)	0.76	7.47	97.8	48.0	29	3.80	21	0.63		14		0.93	
16-Oct	Bridge Road (Zone 8)	0.64	7.80	581.1	285.3	134	0.10	231	0.05				1.39	
16-Oct	Fundy Linen	0.96	7.81	573.4	281.5	136	0.12	221	non detect				1.45	
16-Oct	Travelodge Suites	0.97	7.79	576.6	283.0	134	0.11	223	non detect				1.51	
16-Oct	PRV 24	1.00	7.82	576.4	283.0	131	0.13	227	non detect				1.48	
16-Oct	Doiron's	0.84	7.81	581.8	285.6	135	0.10	227	non detect				1.34	
16-Oct	Churchill Heights Tank (Out)	0.96	7.85	569.7	279.7	132	0.15	222	non detect				1.37	
16-Oct	Carleton Community Center	0.82	7.82	570.4	280.0	132	0.15	222	non detect				1.38	
16-Oct	Spruce Lake Fluoride Analyzer	0.85	7.83	570.0	279.9	131		223	non detect				1.58	
16-Oct	Centracare	0.97	7.85	572.9	281.1	131	0.15	223	non detect				1.34	
16-Oct	Jones Variety	0.75	7.83	583.8	286.6	134	0.07	226	non detect				1.33	
16-Oct	Dunn Ave	0.88	7.83	579.6	284.5	133	0.07	223	non detect				1.38	
16-Oct	Spruce Lake (Raw)		6.62	32.7	16.0	4.0	8.36		non detect		80	11		77.9
16-Oct	Southbay Wellfield Well # 1		7.90	566.7	278.3	126	2.97	219	0.16	0.025	8	0		98.6
16-Oct	Southbay Wellfield Well # 2		7.88	565.8	277.7	134	0.20	223	0.04	0.013	2	-2		100.3
16-Oct	Southbay Wellfield Well # 3		7.76	685.0	336.3	179	0.46	276	0.44	0.048	4	-4		99.6







## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
23-Oct	36 Park Drive	0.69	7.34	99.2	48.7	25.0	0.16	24.0	non detect		2		1.03	
23-Oct	Willie Avenue Standpipe	0.89	7.38	101.3	49.6	26.0	0.34	25.0	0.03		3		1.05	
23-Oct	Somerset Street (pump Stn.)	1.21	7.37	94.7	46.5	27.0	0.27	25.0	non detect		4		1.14	
23-Oct	Golden Grove Road	1.08	7.40	94.7	46.3	27.0	0.19	26.0	0.02		3		1.12	
24-Oct	Harris & Roome	0.81	7.40	96.4	47.3	24.0	2.83	25.0	0.03		25		0.99	
23-Oct	NBCCSJ	0.59	7.54	100.4	49.1	26.0	0.15	24.0	0.04		6		0.94	
23-Oct	Ryerson Metal Inc.	0.30	7.43	107.8	52.8	34.0	0.11	30.0	0.02		1		0.91	
23-Oct	University Ave. Pump Station	1.39	7.41	95.8	46.9	26.0	0.23	25.0	non detect		5		1.12	
23-Oct	Highland Road Pump Station	0.79	7.43	95.2	46.7	24.0	0.18	25.0	non detect		2		1.08	
23-Oct	Kennebecasis Drive	0.83	7.48	95.9	47.0	28.0	0.26	23.0	non detect		2		1.19	
23-Oct	Operations Complex (Rothsay Ave.)	1.13	7.33	94.7	46.4	25.0	0.24	24.0	0.02		2		1.08	
	Little River Line#4 (Outside Chamber)													
23-Oct	Little River Line#2	1.10	7.39	94.4	46.3	25.0	0.16	26.0	non detect		5		1.20	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
23-Oct	Champlain Heights Pumping Stn.	1.11	7.39	94.4	46.2	24.0	0.18	25.0	0.02		4		0.99	
23-Oct	Millidgeville Treatment Plant	0.77	7.41	94.5	46.3	27.0	0.15	25.0	non detect		6		1.11	
23-Oct	Latimer Lake 42" B (Raw)		7.42	50.9	25.1	10.0	2.34		0.06	0.081	35	13		74.1
23-Oct	Latimer Lake 39" A (Raw)		7.29	51.0	25.1		2.08		0.04	0.080				
23-Oct	Eastern Wastewater Treatment Plant	1.09	7.44	94.2	46.2	26.0	0.13	26.0	non detect		2		1.13	
23-Oct	Ocean Drive		8.02	294.5	144.2	86.0	0.11	127.0	non detect					
23-Oct	Seaward Crescent		7.96	252.7	124.3	93.0	0.13	115.0	non detect					
23-Oct	928 Kennebecasis Drive (hydrant)	0.21	7.47	99.3	48.6	26.0	0.68	32.0	0.10		6		1.21	
23-Oct	981 Millidge Avenue (hydrant)	0.73	7.49	96.2	47.2	27.0	0.46	31.0	0.06		3		1.19	
23-Oct	184 Bridge Street (hydrant)	1.05	7.43	94.4	46.3	27.0	1.38	24.0	0.09		15		1.12	
23-Oct	Bridge Road (Zone 8)	0.55	7.85	563.9	276.2	135	0.60	215	0.09				1.36	
23-Oct	Fundy Linen	0.82	7.79	564.2	276.7	132	0.09	228	non detect				1.46	
23-Oct	Travelodge Suites	0.88	7.78	566.5	276.8	133	0.08	230	non detect				1.46	
23-Oct	PRV 24	0.85	7.78	566.7	277.9	132	0.08	222	0.02				1.53	
23-Oct	Doiron's	0.74	7.85	566.8	278.1	133	0.08	224	non detect				1.33	
23-Oct	Churchill Heights Tank (Out)	0.82	7.86	565.9	277.4	130	0.09	230	0.02				1.39	
23-Oct	Carleton Community Center	0.77	7.88	567.5	278.2	133	0.07	226	non detect				1.42	
23-Oct	Spruce Lake Fluoride Analyzer	0.73	7.82	567.0	277.9	132		226	0.02				1.43	
23-Oct	Centracare	0.76	7.82	565.4	277.2	133	0.10	221	non detect				1.31	
23-Oct	Jones Variety	0.72	7.84	566.0	277.3	132	0.21	226	non detect				1.30	
23-Oct	Dunn Ave	0.78	7.81	564.8	276.8	129	0.11	226	non detect				1.35	
23-Oct	Spruce Lake (Raw)		7.09	32.9	16.2	4.0	0.62		0.06		21	12		77.3
23-Oct	Southbay Wellfield Well # 1		7.81	558.0	273.5	128	0.22	215	0.03	0.022	1	-2		98.3
23-Oct	Southbay Wellfield Well # 2		7.82	561.2	275.1	138	0.11	221	0.02	0.014	0	-1		98.8
23-Oct	Southbay Wellfield Well # 3		7.80	600.5	294.5	150	0.60	243	0.06	0.024	3	0		98.9





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
30-Oct	36 Park Drive	0.65	7.37	94.3	46.3	23	0.19	29	0.02		2		1.06	
30-Oct	Willie Avenue Standpipe	0.80	7.38	96.7	47.5	27	0.14	18	non detect		5		1.21	
30-Oct	Somerset Street (pump Stn.)	1.46	7.44	95.3	46.8	30	0.22	20	non detect		2		0.94	
30-Oct	Golden Grove Road	1.06	7.42	93.3	45.9	26	0.25	21	0.02		0		1.04	
30-Oct	Harris & Roome	0.74	7.39	93.4	45.9	23	0.17	23	0.02		2		0.93	
30-Oct	NBCCSJ	0.91	7.51	94.4	46.4	27	0.44	18	0.04		1		0.97	
30-Oct	Ryerson Metal Inc.	0.12	7.48	103.7	50.9	29	0.18	20	0.03		3		0.85	
30-Oct	University Ave. Pump Station	1.34	7.39	95.6	46.9	26	0.16	23	non detect		3		1.07	
30-Oct	Highland Road Pump Station	0.71	7.46	93.9	46.1	27	0.15	20	non detect		1		0.99	
30-Oct	Kennebecasis Drive	1.17	7.42	96.0	47.2	26	0.44	22	0.02		7		1.11	
30-Oct	Operations Complex (Rothesay Ave.)	1.10	7.27	94.6	46.4	26	0.12	21	non detect		2		1.10	
	Little River Line#4 (Outside Chamber)													
30-Oct	Little River Line#2	1.26	7.68	107.1	52.6	28	0.25	20	0.03		2		1.06	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
30-Oct	Champlain Heights Pumping Stn.	1.55	7.38	95.3	46.9	25	0.12	24	0.02		2		1.07	
30-Oct	Millidgeville Treatment Plant	0.92	7.35	93.7	46.0	26	0.14	22	non detect		2		0.89	
30-Oct	Latimer Lake 42" B (Raw)		7.19	50.8	24.9	9	1.50		0.05	0.055	31	18		74.4
30-Oct	Latimer Lake 39" A (Raw)		7.09	50.7	24.9		1.58		0.05	0.054				
30-Oct	Eastern Wastewater Treatment Plant	1.01	7.48	94.2	46.3	27	0.13	20	non detect		2		1.01	
30-Oct	Ocean Drive		8.05	303.3	148.9	87	0.08	119	non detect					
30-Oct	Seaward Crescent		8.00	251.3	123.2	91	0.16	108	non detect					
30-Oct	928 Kennebecasis Drive (hydrant)	0.17	7.34	96.9	47.6	27	0.65	22	0.18		7		0.77	
30-Oct	981 Millidge Avenue (hydrant)	0.71	7.41	95.0	46.7	25	0.27	23	0.03		2		1.02	
30-Oct	184 Bridge Street (hydrant)	1.15	7.4	93.8	46.1	28	0.31	19	0.06		4		1.15	
30-Oct	Bridge Road (Zone 8)	0.73	7.81	566.1	278.1	129	6.75	230	0.57				1.59	
30-Oct	Fundy Linen	0.88	7.80	565.4	277.5	132	0.18	222	non detect				1.53	
30-Oct	Travelodge Suites	0.89	7.81	567.1	278.6	129	0.11	226	non detect				1.66	
30-Oct	PRV 24	1.18	7.80	567.8	278.6	130	0.14	220	0.07				1.44	
30-Oct	Doiron's	0.86	7.80	566.9	278.5	129	0.07	223	non detect				1.35	
30-Oct	Churchill Heights Tank (Out)	0.99	7.86	565.2	277.4	127	0.13	223	non detect				1.47	
30-Oct	Carleton Community Center	0.80	7.81	567.4	278.7	129	0.08	224	non detect				1.34	
30-Oct	Spruce Lake Fluoride Analyzer	0.92	7.84	566.9	278.1	127		220	non detect				1.50	
30-Oct	Centracare	0.66	7.89	566.4	278.2	128	0.12	211	non detect				1.44	
30-Oct	Jones Variety	0.85	7.88	566.6	278.2	130	0.10	222	0.02				1.40	
30-Oct	Dunn Ave	0.95	7.82	566.1	278.0	130	0.14	224	non detect				1.41	
30-Oct	Spruce Lake (Raw)		6.86	32.5	16.0	8.0	1.03		0.08		24	14		76.2
30-Oct	Southbay Wellfield Well # 1		7.83	558.0	273.9	120	0.66	214	0.07	0.027	0	1		98.6
30-Oct	Southbay Wellfield Well # 2		7.87	562.2	276.2	120	0.13	219	0.03	0.027	0	3		98.8
30-Oct	Southbay Wellfield Well # 3		7.88	620.7	304.7	152	1.95	254	0.17	0.047	9	0		98.8





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
06-Nov	36 Park Drive	0.36	7.32	95.8	47.1	27	0.22	27	non detect		-1		1.03	
06-Nov	Willie Avenue Standpipe	0.84	7.44	96.0	47.2	28	0.24	18	0.02		4		1.14	
06-Nov	Somerset Street (pump Stn.)	1.30	7.41	93.9	46.2	26	0.25	21	non detect		5		1.09	
06-Nov	Golden Grove Road	1.07	7.37	94.1	46.3	26	0.35	22	0.03		0		1.00	
06-Nov	Harris & Roome	0.82	7.39	93.4	46.0	26	0.21	26	0.02		1		0.93	
06-Nov	NBCCSJ	0.76	7.43	94.2	46.4	29	0.26	22	0.03		0		0.93	
06-Nov	Ryerson Metal Inc.	0.02	7.46	101.8	50.1	29	0.20	29	0.03		1		0.77	
06-Nov	University Ave. Pump Station	1.42	7.42	95.7	47.1	25	0.18	20	non detect		0		1.05	
06-Nov	Highland Road Pump Station	0.80	7.45	94.1	46.2	25	0.22	20	0.02		0		0.99	
06-Nov	Kennebecasis Drive	1.17	7.45	96.2	47.2	26	0.44	19	0.02		5		1.08	
06-Nov	Operations Complex (Rothesay Ave.)	1.30	7.41	93.2	45.8	26	0.12	21	non detect		2		1.05	
	Little River Line#4 (Outside Chamber)													
06-Nov	Little River Line#2	1.53	7.41	93.8	46.2	25	0.21	20	non detect		2		1.22	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
06-Nov	Champlain Heights Pumping Stn.	1.44	7.39	92.1	45.4	26	0.10	23	non detect		2		1.12	
06-Nov	Millidgeville Treatment Plant	0.86	7.40	94.0	46.1	26	0.18	22	non detect		3		0.85	
06-Nov	Latimer Lake 42" B (Raw)		7.25	50.3	24.8	8.6	1.54		0.05	0.040	30	13		72.8
06-Nov	Latimer Lake 39" A (Raw)		7.34	50.4	24.7		1.79		0.05	0.039				
06-Nov	Eastern Wastewater Treatment Plant	1.16	7.38	93.7	46.1	26	0.33	28	non detect		-1		1.06	
06-Nov	Ocean Drive		7.97	307.7	151.0	86	0.08	116	non detect					
06-Nov	Seaward Crescent		7.98	252.6	124.4	93	0.18	106	non detect					
06-Nov	928 Kennebecasis Drive (hydrant)	0.16	7.43	95.9	47.2	25	0.54	28	0.14		7		0.73	
06-Nov	981 Millidge Avenue (hydrant)	0.58	7.44	95	46.7	27	0.4	21	0.04		2		0.94	
06-Nov	184 Bridge Street (hydrant)	1.11	7.43	93.6	46	26	1.31	23	0.08		16		1.13	
06-Nov	Bridge Road (Zone 8)	0.37	7.84	566.2	278.6	128	0.96	224	0.16				1.31	
06-Nov	Fundy Linen	0.83	7.82	568.7	279.7	128	0.18	223	non detect				1.23	
06-Nov	Travelodge Suites	0.86	7.84	567.5	279.2	129	0.28	223	non detect				1.16	
06-Nov	PRV 24	0.92	7.84	568.0	279.3	129	0.10	221	non detect				1.26	
06-Nov	Doiron's	0.74	7.86	567.6	279.4	128	0.10	224	non detect				1.12	
06-Nov	Churchill Heights Tank (Out)	0.99	7.87	566.8	278.7	127	0.14	222	non detect				1.50	
06-Nov	Carleton Community Center	0.82	7.86	567.8	279.8	128	0.09	224	non detect				1.16	
06-Nov	Spruce Lake Fluoride Analyzer	0.82	7.85	568.6	279.7	129		219	non detect				1.21	
06-Nov	Centracare	0.73	7.86	568.1	279.6	127	0.09	220	non detect				1.27	
06-Nov	Jones Variety	0.75	7.85	568.2	279.4	129	0.09	223	non detect				1.17	
06-Nov	Dunn Ave	0.81	7.85	568.8	279.2	129	0.12	219	non detect				1.12	
06-Nov	Spruce Lake (Raw)		7.31	32.6	16.1	4.2	1.03		0.09		29	15		74.6
06-Nov	Southbay Wellfield Well # 1		7.86	561.1	275.9	122	0.21	215	0.03	0.030	-1	-2		99.1
06-Nov	Southbay Wellfield Well # 2		7.84	566.5	278.0	132	0.11	218	non detect	0.018	-1	-1		98.8
06-Nov	Southbay Wellfield Well # 3		7.75	688.8	339.5	178	0.86	284	0.14	0.135	2	-1		98.4





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
13-Nov	36 Park Drive	0.51	7.27	94.3	46.3	24	0.11	19	non detect		-4		1.30	
13-Nov	Willie Avenue Standpipe	0.99	7.39	95.3	46.8	24	0.26	19	0.02		-1		1.14	
13-Nov	Somerset Street (pump Stn.)	1.54	7.35	92.1	45.2	26	0.16	23	non detect		-2		1.08	
13-Nov	Golden Grove Road	1.15	7.36	92.2	45.2	24	0.11	20	non detect		-1		1.09	
13-Nov	Harris & Roome	0.72	7.36	90.9	44.6	26	0.23	22	non detect		1		0.87	
13-Nov	NBCCSJ	0.67	7.47	93.6	45.9	25	0.32	21	0.06		2		1.06	
13-Nov	Ryerson Metal Inc.	0.18	7.46	96.4	47.3	27	0.18	24	0.03		6		0.87	
13-Nov	University Ave. Pump Station	1.33	7.39	92.9	45.6	26	0.16	22	non detect		1		1.06	
13-Nov	Highland Road Pump Station	0.91	7.45	92.8	45.5	26	0.13	22	non detect		1		0.96	
13-Nov	Kennebecasis Drive	1.21	7.46	95.3	46.7	25	0.32	19	0.02		5		1.06	
13-Nov	Operations Complex (Rothesay Ave.)	1.02	7.42	93.0	45.6	26	0.12	19	non detect		-1		1.01	
	Little River Line#4 (Outside Chamber)													
13-Nov	Little River Line#2	1.64	7.41	92.5	45.4	25	0.11	23	non detect		-5		1.07	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
13-Nov	Champlain Heights Pumping Stn.	1.50	7.36	92.0	45.2	26	0.21	19	non detect		0		1.07	
13-Nov	Millidgeville Treatment Plant	1.03	7.39	93.2	45.7	27	0.18	21	non detect		-1		0.91	
13-Nov	Latimer Lake 42" B (Raw)		7.30	49.8	24.4	9.4	2.43		0.05	0.037	32	14		72.7
13-Nov	Latimer Lake 39" A (Raw)		7.35	49.8	24.4		2.48		0.03	0.040				
13-Nov	Eastern Wastewater Treatment Plant	1.16	7.39	91.8	45.1	26	0.23	18	non detect		2		1.14	
13-Nov	Ocean Drive		7.96	294.7	144.6	84	0.13	112	non detect					
13-Nov	Seaward Crescent		7.97	249.7	122.5	92	0.23	107	non detect					
13-Nov	928 Kennebecasis Drive (hydrant)	0.74	7.44	95.2	46.7	27	0.77	27	0.18		5		0.70	
13-Nov	981 Millidge Avenue (hydrant)	0.21	7.45	94.1	46.2	26	0.53	25	0.10		3		1.02	
13-Nov	184 Bridge Street (hydrant)	1.34	7.42	92.6	45.4	26	0.72	21	0.07		8		0.98	
13-Nov	Bridge Road (Zone 8)	0.31	7.94	568.4	277.1	131	1.87	225	0.31				1.07	
13-Nov	Fundy Linen	0.77	7.82	569.1	279.5	130	0.13	220	0.02				1.15	
13-Nov	Travelodge Suites	0.73	7.84	568.8	279.3	129	0.11	220	non detect				1.16	
13-Nov	PRV 24	0.81	7.86	570.3	279.9	130	0.16	221	non detect				1.23	
13-Nov	Doiron's	0.67	7.84	569.3	279.6	131	0.13	216	non detect				1.10	
13-Nov	Churchill Heights Tank (Out)	0.97	7.86	568.5	278.8	130	0.12	220	non detect				1.26	
13-Nov	Carleton Community Center	0.73	7.84	569.4	279.7	134	0.16	220	0.03				1.18	
13-Nov	Spruce Lake Fluoride Analyzer	0.75	7.86	569.4	279.6	131		219	non detect				1.20	
13-Nov	Centracare	0.70	7.87	568.7	279.2	130	0.16	219	0.02				1.12	
13-Nov	Jones Variety	0.77	7.86	568.4	278.9	132	0.08	216	non detect				1.15	
13-Nov	Dunn Ave	0.73	7.88	569.2	279.5	129	0.15	217	non detect				1.12	
13-Nov	Spruce Lake (Raw)		7.09	31.1	15.3	4.0	0.85		0.08		25	18		72.7
14-Nov	Southbay Wellfield Well # 1		7.83	564.1	276.7	137	7.54	219	0.67	0.035	14	3		99.6
14-Nov	Southbay Wellfield Well # 2		7.83	567.2	278.3	134	0.34	226	0.03	0.026	3	2		99.5
14-Nov	Southbay Wellfield Well # 3		7.87	566.4	278.2	134	1.67	228	0.10	0.030	10	3		99.4







## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
20-Nov	36 Park Drive	1.16	7.26	91.8	45.1	25	0.23	17	non detect		5		1.17	
20-Nov	Willie Avenue Standpipe	1.05	7.32	93.4	45.8	24	0.16	28	0.02		4		1.11	
20-Nov	Somerset Street (pump Stn.)	1.44	7.39	93.9	46.1	26	0.10	23	non detect		2		1.12	
20-Nov	Golden Grove Road	1.25	7.33	93.4	45.9	27	0.14	23	non detect		1		1.16	
20-Nov	Harris & Roome	0.84	7.34	93.4	45.9	27	0.10	21	non detect		1		0.88	
20-Nov	NBCCSJ	1.22	7.39	93.9	46.0	27	0.19	26	0.04		5		0.96	
20-Nov	Ryerson Metal Inc.	0.02	7.47	96.5	47.4	27	0.13	27	0.04		5		0.84	
20-Nov	University Ave. Pump Station	1.15	7.40	93.9	46.1	25	0.12	20	non detect		1		1.03	
20-Nov	Highland Road Pump Station	0.87	7.46	94.5	46.4	26	0.11	19	non detect		1		1.01	
20-Nov	Kennebecasis Drive	1.16	7.44	95.1	46.7	28	0.15	25	non detect		0		1.22	
20-Nov	Operations Complex (Rothesay Ave.)	1.20	7.38	93.2	45.7	26	0.15	21	non detect		2		1.02	
	Little River Line#4 (Outside Chamber)													
20-Nov	Little River Line#2	1.35	7.46	115.2	56.6	27	0.23	20	0.11		4		1.24	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
20-Nov	Champlain Heights Pumping Stn.	1.36	7.38	92.1	45.3	26	0.11	18	0.02		2		1.17	
20-Nov	Millidgeville Treatment Plant	1.04	7.35	94.0	46.2	26	0.11	21	non detect		1		0.95	
20-Nov	Latimer Lake 42" B (Raw)		7.35	49.2	24.2	10	3.66		0.04	0.040	45	17		70.3
20-Nov	Latimer Lake 39" A (Raw)		7.18	49.2	24.3		3.20		0.05	0.041				
20-Nov	Eastern Wastewater Treatment Plant	1.18	7.35	92.1	45.2	27	0.16	21	non detect		1		1.07	
20-Nov	Ocean Drive		8.04	289.0	142.4	85	0.18	110	non detect					
20-Nov	Seaward Crescent		7.99	251.5	123.2	91	0.09	97	non detect					
20-Nov	928 Kennebecasis Drive (hydrant)	0.03	7.40	93.4	45.9	26	0.77	22	0.04		6		0.49	
20-Nov	981 Millidge Avenue (hydrant)	0.71	7.47	94.4	46.4	25	0.27	21	0.05		4		1.03	
20-Nov	184 Bridge Street (hydrant)	1.38	7.33	93.2	45.7	26	0.46	22	0.06		9		1.10	
20-Nov	Bridge Road (Zone 8)	0.47	7.87	559.3	274.7	129	11.20	221	1.02				1.40	
20-Nov	Fundy Linen	0.78	7.80	563.2	276.8	129	0.27	224	non detect				1.11	
20-Nov	Travelodge Suites	0.74	7.84	564.6	277.6	131	0.10	222	non detect				1.24	
20-Nov	PRV 24	0.80	7.83	563.4	276.8	133	0.08	221	non detect				1.16	
20-Nov	Doiron's	0.68	7.88	563.7	277.0	128	0.13	224	non detect				1.13	
20-Nov	Churchill Heights Tank (Out)	0.91	7.89	564.1	277.1	129	0.12	222	non detect				1.16	
20-Nov	Carleton Community Center	0.69	7.82	561.7	276.1	129	0.33	224	non detect				1.05	
20-Nov	Spruce Lake Fluoride Analyzer	0.80	7.84	563.4	276.8	130		223	non detect				1.24	
20-Nov	Centracare	0.69	7.86	564.1	277.2	131	0.14	221	0.02				1.16	
20-Nov	Jones Variety	0.74	7.92	564.5	277.4	129	0.10	219	non detect				1.17	
20-Nov	Dunn Ave	0.64	7.86	563.4	276.9	133	0.36	218	non detect				1.02	
20-Nov	Spruce Lake (Raw)		6.71	30.6	15.1	3.9	0.93		non detect		34	20		70.3
20-Nov	Southbay Wellfield Well # 1		7.91	559.2	275.0	127	0.24	217	0.03	0.026	2	-1		99.2
20-Nov	Southbay Wellfield Well # 2		7.83	560.4	275.2	132	0.11	220	non detect	0.018	0	0		99.2
20-Nov	Southbay Wellfield Well # 3		7.78	692.8	340.5	177	0.99	281	0.08	0.126	4	0		98.8





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
27-Nov	36 Park Drive	0.56	7.27	92.7	45.5	35	0.16	29	non detect		2		1.19	
27-Nov	Willie Avenue Standpipe	1.08	7.44	97.1	47.7	31	0.11	25	non detect		1		1.15	
27-Nov	Somerset Street (pump Stn.)	1.38	7.50	99.1	48.6	31	0.16	26	non detect		5		1.15	
27-Nov	Golden Grove Road	1.04	7.47	99.7	49.0	31	0.12	26	0.02		1		1.01	
27-Nov	Harris & Roome	0.90	7.44	99.9	49.0	31	0.12	29	non detect		1		0.86	
27-Nov	NBCCSJ	0.80	7.48	97.0	47.6	28	0.48	26	0.03		1		0.96	
27-Nov	Ryerson Metal Inc.	0.80	7.44	96.8	47.5	29	0.16	28	0.02		-2		1.03	
27-Nov	University Ave. Pump Station	1.52	7.48	100.5	49.5	30	0.29	27	non detect		15		1.04	
27-Nov	Highland Road Pump Station	1.00	7.50	99.2	48.7	29	0.18	27	non detect		2		0.98	
27-Nov	Kennebecasis Drive	1.17	7.50	97.8	48.1	28	0.37	25	0.02		4		1.06	
27-Nov	Operations Complex (Rothesay Ave.)	1.27	7.47	100.1	49.1	29	0.14	23	non detect		6		1.16	
	Little River Line#4 (Outside Chamber)													
27-Nov	Little River Line#2	1.56	7.41	100.0	49.2	30	0.11	19	non detect		1		1.03	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
27-Nov	Champlain Heights Pumping Stn.	1.35	7.43	99.6	48.9	28	0.12	22	non detect		3		1.14	
27-Nov	Millidgeville Treatment Plant	1.03	7.41	99.7	48.9	30	0.15	23	non detect		0		0.90	
27-Nov	Latimer Lake 42" B (Raw)		7.08	49.1	24.1	8.5	5.76		0.06	0.041	53	18		68.9
27-Nov	Latimer Lake 39" A (Raw)		7.05	49.0	24.0		3.54		0.04	0.037				
27-Nov	Eastern Wastewater Treatment Plant	1.22	7.52	100.4	49.3	34	0.12	22	non detect		-2		0.98	
27-Nov	Ocean Drive		8.03	315.5	154.8	84	0.11	123	non detect					
27-Nov	Seaward Crescent		7.99	252.4	123.8	91	0.11	111	non detect					
27-Nov	928 Kennebecasis Drive (hydrant)	0.2	7.44	96.6	47.4	27	1.54	21	0.28		15		0.73	
27-Nov	981 Millidge Avenue (hydrant)	0.83	7.51	99.3	48.7	29	0.46	23	0.09		4		0.94	
27-Nov	184 Bridge Street (hydrant)	1.09	7.52	100.3	49.3	27	0.56	24	0.03		0		1.02	
27-Nov	Bridge Road (Zone 8)	0.65	7.76	560.4	274.5	128	2.95	231	0.28				1.23	
27-Nov	Fundy Linen	0.73	7.78	561.4	275.5	135	0.09	226	non detect				1.27	
27-Nov	Travelodge Suites	0.83	7.84	561.6	275.6	132	0.09	230	non detect				1.31	
27-Nov	PRV 24	0.77	7.81	558.4	274.1	132	0.08	231	non detect				1.29	
27-Nov	Doiron's	0.65	7.80	562.6	276.1	132	0.10	228	non detect				1.17	
27-Nov	Churchill Heights Tank (Out)	0.88	7.80	560.4	275.1	133	0.09	226	non detect				1.15	
27-Nov	Carleton Community Center	0.66	7.80	561.0	275.3	132	0.16	230	non detect				1.08	
27-Nov	Spruce Lake Fluoride Analyzer	0.76	7.81	561.0	275.5	132		225	non detect				1.27	
27-Nov	Centracare	0.66	7.87	563.0	276.3	135	0.11	227	non detect				1.12	
27-Nov	Jones Variety	0.71	7.87	558.2	274.0	129	0.27	226	non detect				1.15	
27-Nov	Dunn Ave	0.76	7.81	561.5	275.5	131	0.56	228	non detect				1.09	
27-Nov	Spruce Lake (Raw)		6.83	29.2	14.3	3.8	0.78		0.09		32	25		68.9
27-Nov	Southbay Wellfield Well # 1		7.84	556.9	273.4	129	0.28	225	non detect	0.032	-1	0		99.7
27-Nov	Southbay Wellfield Well # 2		7.84	555.0	272.1	133	0.09	226	non detect	0.019	-1	0		99.5
27-Nov	Southbay Wellfield Well # 3		7.74	685.0	336.5	174	0.47	282	0.05	0.076	1	-1		99.0





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
04-Dec	36 Park Drive	0.68	7.35	98.6	48.4	30.0	0.22	21.0	non detect		-1		1.04	
04-Dec	Willie Avenue Standpipe	0.72	7.49	97.1	47.7	22.0	0.18	16.0	non detect		2		1.24	
04-Dec	Somerset Street (pump Stn.)	1.19	7.51	96.5	47.3	31.0	0.11	18.0	non detect		0		1.13	
04-Dec	Golden Grove Road	1.11	7.42	95.2	46.7	28.0	0.27	22.0	0.02		-2		1.02	
04-Dec	Harris & Roome	0.71	7.48	95.8	47.1	27.0	0.13	23.0	non detect		-2		1.19	
04-Dec	NBCCSJ	1.08	7.50	96.8	47.5	29.0	0.21	26.0	0.03		1		0.94	
04-Dec	Ryerson Metal Inc.	0.70	7.46	98.4	48.3	31.0	0.18	23.0	0.02		-3		0.98	
04-Dec	University Ave. Pump Station	1.20	7.38	98.0	48.1	29.0	0.18	21.0	non detect		2		1.08	
04-Dec	Highland Road Pump Station	0.78	7.45	95.3	46.8	30.0	0.19	20.0	0.02		0		1.17	
04-Dec	Kennebecasis Drive	0.97	7.45	97.9	48.0	29.0	0.17	19.0	0.11		6		1.19	
04-Dec	Operations Complex (Rothesay Ave.)	0.77	7.49	96.9	47.6	31.0	0.15	18.0	0.02		-2		1.12	
	Little River Line#4 (Outside Chamber)													
04-Dec	Little River Line#2	1.15	7.55	100.5	49.3	28.0	0.18	21.0	non detect		-2		1.11	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
04-Dec	Champlain Heights Pumping Stn.	0.96	7.45	96.0	47.1	28.0	0.15	20.0	non detect		0		1.25	
04-Dec	Millidgeville Treatment Plant	0.73	7.37	96.6	47.4	29.0	0.15	23.0	non detect		-1		0.98	
04-Dec	Latimer Lake 42" B (Raw)		7.17	51.1	25.1	9.7	8.96		0.07	0.058	72	18		70.8
04-Dec	Latimer Lake 39" A (Raw)		7.07	50.1	24.6		8.90		0.06	0.042				
04-Dec	Eastern Wastewater Treatment Plant	1.24	7.48	96.3	47.3	28.0	0.14	23.0	non detect		3		1.07	
04-Dec	Ocean Drive		7.99	305.8	150.1	90.0	0.16	121.0	non detect					
04-Dec	Seaward Crescent		7.97	252.8	124.1	98.0	0.38	112.0	0.05					
	928 Kennebecasis Drive (hydrant)													
	981 Millidge Avenue (hydrant)													
	184 Bridge Street (hydrant)													
04-Dec	Bridge Road (Zone 8)	0.45	7.81	566.3	278.1	132	4.41	225	0.46				1.42	
04-Dec	Fundy Linen	0.79	7.82	566.8	278.0	132	0.10	224	non detect				1.36	
04-Dec	Travelodge Suites	0.82	7.81	567.8	278.8	135	0.08	227	non detect				1.46	
04-Dec	PRV 24	0.81	7.82	567.1	278.3	131	0.09	226	non detect				1.49	
04-Dec	Doiron's	0.75	7.86	567.7	278.7	130	0.08	225	non detect				1.24	
04-Dec	Churchill Heights Tank (Out)	0.86	7.89	567.4	278.5	138	0.13	226	non detect				1.39	
04-Dec	Carleton Community Center	0.76	7.86	566.6	278.3	136	0.07	224	non detect				1.23	
04-Dec	Spruce Lake Fluoride Analyzer	0.81	7.88	567.0	278.2	132		224	non detect				1.37	
04-Dec	Centracare	0.71	7.88	568.4	279.2	135	0.08	226	non detect				1.26	
04-Dec	Jones Variety	0.70	7.85	568.3	278.8	135	0.07	222	non detect				1.17	
04-Dec	Dunn Ave	0.81	7.87	568.2	279.0	133	0.12	222	non detect				1.60	
04-Dec	Spruce Lake (Raw)		6.68	30.5	15.0	4.0	0.67		0.07		35	24		68.5
04-Dec	Southbay Wellfield Well # 1		7.85	563.2	276.3	128	0.12	224	0.06	0.024	0	0		99.4
04-Dec	Southbay Wellfield Well # 2		7.81	562.1	275.4	136	0.66	227	non detect	0.026	0	0		99.4
04-Dec	Southbay Wellfield Well # 3		7.74	694.6	341.6	182	2.19	293	0.20	0.122	10	0		98.8





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
11-Dec	36 Park Drive	0.60	7.37	97.5	47.8	27.0	0.13	22.0	non detect		1		1.11	
11-Dec	Willie Avenue Standpipe	1.34	7.40	90.4	44.2	24.0	0.14	24.0	non detect		3		1.01	
11-Dec	Somerset Street (pump Stn.)	1.37	7.36	89.6	44.0	26.0	0.12	22.0	non detect		4		1.04	
11-Dec	Golden Grove Road	1.13	7.42	90.6	44.4	25.0	0.13	21.0	non detect		2		1.06	
11-Dec	Harris & Roome	0.94	7.42	89.4	43.9	25.0	0.18	22.0	non detect		2		0.87	
11-Dec	NBCCSJ	0.82	7.37	89.3	43.7	24.0	0.17	24.0	0.03		2		0.91	
11-Dec	Ryerson Metal Inc.	0.86	7.27	88.3	43.3	23.0	0.18	20.0	non detect		3		1.00	
11-Dec	University Ave. Pump Station	1.41	7.38	90.6	44.4	25.0	1.12	25.0	0.02		10		1.16	
11-Dec	Highland Road Pump Station	1.02	7.38	88.9	43.6	25.0	0.25	19.0	non detect		2		0.97	
11-Dec	Kennebecasis Drive	1.19	7.39	90.7	44.4	25.0	0.15	23.0	non detect		2		1.01	
11-Dec	Operations Complex (Rothesay Ave.)	1.26	7.40	90.5	44.5	24.0	0.14	21.0	non detect		3		1.06	
	Little River Line#4 (Outside Chamber)													
11-Dec	Little River Line#2	1.41	7.43	90.3	44.2	29.0	0.15	21.0	non detect		5		0.99	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
11-Dec	Champlain Heights Pumping Stn.	1.42	7.43	90.1	44.2	26.0	0.17	21.0	non detect		4		0.99	
11-Dec	Millidgeville Treatment Plant	1.39	7.36	89.8	44.0	24.0	0.13	22.0	non detect		3		0.80	
11-Dec	Latimer Lake 42" B (Raw)		7.20	50.6	24.9	9.6	9.36		0.06	0.043	76	46		69.2
11-Dec	Latimer Lake 39" A (Raw)		7.15	50.1	24.5		8.76		non detect	0.066				
11-Dec	Eastern Wastewater Treatment Plant	1.25	7.38	89.6	44.0	24.0	0.70	23.0	0.09		8		1.00	
11-Dec	Ocean Drive		8.04	296.5	145.2	85.0	0.20	112.0	non detect					
11-Dec	Seaward Crescent		8.13	249.4	122.4	89.0	0.36	108.0	0.02					
	928 Kennebecasis Drive (hydrant)													
	981 Millidge Avenue (hydrant)													
	184 Bridge Street (hydrant)													
11-Dec	Bridge Road (Zone 8)	0.82	7.79	570.3	279.5	134	29.0	226	2.53				1.81	
11-Dec	Fundy Linen	0.86	7.83	567.8	278.3	133	0.42	225	non detect				1.14	
11-Dec	Travelodge Suites	0.77	7.87	568.0	278.2	132	0.11	223	non detect				1.14	
11-Dec	PRV 24	0.76	7.85	562.0	275.6	132	0.08	221	non detect				1.07	
11-Dec	Doiron's	0.66	7.89	567.5	278.0	131	0.09	220	non detect				1.01	
11-Dec	Churchill Heights Tank (Out)	0.81	7.90	569.4	279.1	133	0.20	227	non detect				1.12	
11-Dec	Carleton Community Center	0.78	7.80	568.0	278.2	132	0.18	225	non detect				1.22	
11-Dec	Spruce Lake Fluoride Analyzer	0.82	7.85	568.3	278.5	130		224	non detect				1.14	
11-Dec	Centracare	0.76	7.86	568.2	278.2	136	0.20	226	non detect				1.01	
11-Dec	Jones Variety	0.60	7.87	567.6	278.2	132	0.16	230	non detect				1.10	
11-Dec	Dunn Ave	0.72	7.87	567.7	278.1	132	0.09	226	non detect				1.08	
11-Dec	Spruce Lake (Raw)		6.70	31.3	15.3	3.8	1.15		0.12		48	14		67.1
11-Dec	Southbay Wellfield Well # 1		7.86	564.0	276.3	125	0.34	215	0.03	0.033	4	3		98.8
11-Dec	Southbay Wellfield Well # 2		7.85	560.7	274.8	129	0.13	220	non detect	0.026	1	-3		99.1
11-Dec	Southbay Wellfield Well # 3		7.75	660.2	323.6	168	0.75	265	0.06	0.080	6	non detect		98.1







## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
18-Dec	36 Park Drive		7.16	88.6	43.2	19	0.32	24	non detect		3		1.00	
18-Dec	Willie Avenue Standpipe		7.51	91.7	45.0	23	0.23	20	non detect		-2		1.17	
18-Dec	Somerset Street (pump Stn.)		7.48	93.5	45.9	23	0.12	24	0.02		-2		1.18	
18-Dec	Golden Grove Road		7.45	92.6	45.4	21	0.17	24	0.03		4		1.04	
18-Dec	Harris & Roome		7.45	93.1	45.7	22	0.21	23	non detect		1		0.89	
18-Dec	NBCCSJ		7.46	91.3	44.8	20	0.31	25	0.06		1		0.93	
18-Dec	Ryerson Metal Inc.		7.41	90.5	44.6	20	0.15	26	non detect		-1		1.01	
18-Dec	University Ave. Pump Station		7.46	94.2	46.3	21	0.13	22	non detect		-3		1.14	
18-Dec	Highland Road Pump Station		7.48	92.5	45.3	23	0.25	22	non detect		-2		0.99	
18-Dec	Kennebecasis Drive		7.48	92.3	45.3	21	0.11	23	non detect		2		1.09	
18-Dec	Operations Complex (Rothesay Ave.)		7.48	93.7	46.0	21	0.19	24	non detect		1		1.07	
	Little River Line#4 (Outside Chamber)													
18-Dec	Little River Line#2		7.46	93.0	45.7	21	0.22	24	non detect		2		1.14	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
18-Dec	Champlain Heights Pumping Stn.		7.47	93.3	45.8	22	0.10	22	non detect		4		1.03	
18-Dec	Millidgeville Treatment Plant		7.45	92.7	45.5	20	0.26	23	non detect		2		0.86	
18-Dec	Latimer Lake 42" B (Raw)		7.21	51.4	25.2	9.5	8.84		0.08	0.040	77	19		68.9
18-Dec	Latimer Lake 39" A (Raw)		7.16	51.1	25.1		8.72		0.06	0.063				
18-Dec	Eastern Wastewater Treatment Plant	1.22	7.46	92.7	45.6	22	0.35	25	0.02		-4		1.05	
18-Dec	Ocean Drive		8.02	294.1	144.5	73	0.25	117	non detect					
18-Dec	Seaward Crescent		8.00	245.7	121.3	78	0.63	107	0.06					
	928 Kennebecasis Drive (hydrant)													
	981 Millidge Avenue (hydrant)													
	184 Bridge Street (hydrant)													
18-Dec	Bridge Road (Zone 8)	0.47	7.98	565.2	277.5	117	7.69	218	0.77				1.26	
18-Dec	Fundy Linen	0.78	8.00	564.8	276.6	116	0.10	221	non detect				1.03	
18-Dec	Travelodge Suites	0.73	7.99	540.3	265.6	120	0.07	219	non detect				1.12	
18-Dec	PRV 24	0.79	7.97	567.0	278.3	122	0.17	222	non detect				1.09	
18-Dec	Doiron's	0.57	8.01	565.7	277.8	119	0.07	225	non detect				1.11	
18-Dec	Churchill Heights Tank (Out)	0.74	7.99	560.5	275.5	120	0.21	216	non detect				1.05	
18-Dec	Carleton Community Center	0.56	7.96	564.8	277.5	131	0.13	219	non detect				1.08	
18-Dec	Spruce Lake Fluoride Analyzer	0.77	7.97	566.7	278.1	132		219	non detect				1.02	
18-Dec	Centracare	0.66	7.97	567.0	278.1	134	0.12	223	non detect				1.04	
18-Dec	Jones Variety	0.61	7.99	564.5	277.0	130	0.09	224	non detect				1.03	
18-Dec	Dunn Ave	0.59	7.96	566.5	277.6	133	0.09	220	non detect				1.13	
18-Dec	Spruce Lake (Raw)		6.93	31.0	15.2	3.6	1.37		0.15		52	23		68.4
18-Dec	Southbay Wellfield Well # 1		7.90	563.5	276.7	127	0.73	218	0.09	0.030	3	0		99.6
18-Dec	Southbay Wellfield Well # 2		7.85	558.9	274.3	134	1.39	223	0.12	0.020	7	-2		99.5
18-Dec	Southbay Wellfield Well # 3		7.82	577.5	283.5	142	2.48	233	0.14	0.033	13	-1		99.6





## City of Saint John Freshwater Data Sheet



Date	LOCATION	Free Chlorine (mg/L)	pH	Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Turbidity (NTU)	Total Hardness (mg/L)	Iron (mg/L)	Manganese (mg/L)	Apparent Color (Pt-Co units)	True Color (Pt-Co units)	Orthophosphate	UVT%
27-Dec	36 Park Drive	0.63	7.32	92.1	45.2	26.0	0.15	23.0	non detect		-2		1.12	
27-Dec	Willie Avenue Standpipe	0.97	7.46	92.0	45.2	24.0	0.22	22.0	0.02		non detect		1.09	
27-Dec	Somerset Street (pump Stn.)	1.24	7.51	92.7	45.6	25.0	0.16	21.0	non detect		-2		1.08	
27-Dec	Golden Grove Road	1.20	7.49	92.0	45.2	24.0	0.12	23.0	non detect		non detect		1.09	
27-Dec	Harris & Roome	0.86	7.51	91.9	45.1	26.0	0.14	22.0	non detect		non detect		0.94	
27-Dec	NBCCSJ	0.11	7.33	93.4	46.0	25.0	2.17	30.0	0.48		17		0.51	
27-Dec	Ryerson Metal Inc.	0.71	7.48	91.9	45.2	26.0	0.16	20.0	non detect		6		0.98	
27-Dec	University Ave. Pump Station	1.47	7.59	92.5	46.0	25.0	0.13	22.0	non detect		non detect		1.13	
27-Dec	Highland Road Pump Station	0.98	7.59	92.3	45.4	26.0	0.26	23.0	non detect		-2		1.06	
27-Dec	Kennebecasis Drive	1.26	7.54	93.6	46.0	25.0	0.12	22.0	non detect		non detect		1.09	
27-Dec	Operations Complex (Rothesay Ave.)	1.23	7.58	92.9	45.7	26.0	0.13	24.0	non detect		-4		1.05	
	Little River Line#4 (Outside Chamber)													
27-Dec	Little River Line#2	1.23	7.55	92.6	45.5	25.0	0.16	20.0	non detect		-5		1.09	
	Little River Line#3													
	Latimer Lake Line #1 (39" A)													
	Latimer Lake Line #2 (42" B)													
27-Dec	Champlain Heights Pumping Stn.	1.34	7.55	93.0	45.7	25.0	0.15	23.0	non detect		2		1.02	
27-Dec	Millidgeville Treatment Plant	0.65	7.57	92.2	45.4	24.0	0.16	22.0	0.02		-2		0.79	
27-Dec	Latimer Lake 42" B (Raw)		7.31	50.1	24.7	10.0	9.80		0.05	0.041	72	21		68.6
27-Dec	Latimer Lake 39" A (Raw)		7.15	50.1	24.6		11.40		0.09	0.061				
27-Dec	Eastern Wastewater Treatment Plant	1.14	7.55	91.9	45.2	23.0	0.21	22.0	non detect		-3		1.00	
27-Dec	Ocean Drive		8.06	297.9	146.5	84.0	0.15	115.0	non detect					
27-Dec	Seaward Crescent		8.06	246.6	121.1	90.0	1.37	108.0	0.10					
	928 Kennebecasis Drive (hydrant)													
	981 Millidge Avenue (hydrant)													
	184 Bridge Street (hydrant)													
27-Dec	Bridge Road (Zone 8)	0.69	7.89	554.9	272.8	129	0.14	218	non detect				0.99	
27-Dec	Fundy Linen	0.69	7.85	565.0	278.7	125	0.12	218	non detect				1.16	
27-Dec	Travelodge Suites	0.75	7.88	565.2	277.9	122	0.23	217	non detect				1.05	
27-Dec	PRV 24	0.64	7.84	566.3	278.7	118	0.08	217	non detect				1.11	
27-Dec	Doiron's	0.65	7.84	566.2	278.6	119	0.34	217	non detect				1.08	
27-Dec	Churchill Heights Tank (Out)	0.80	7.89	565.0	277.5	121	0.18	222	non detect				1.32	
27-Dec	Carleton Community Center	0.71	7.85	565.2	278.1	123	0.10	218	non detect				1.07	
27-Dec	Spruce Lake Fluoride Analyzer		7.19	568.0	279.7	116		216	non detect				1.18	
27-Dec	Centracare	0.65	7.80	568.0	279.2	119	0.27	218	non detect				1.11	
27-Dec	Jones Variety	0.70	7.91	567.0	278.9	121	0.19	215	non detect				1.11	
27-Dec	Dunn Ave	0.73	7.87	567.6	279.0	122	0.12	216	non detect				1.08	
27-Dec	Spruce Lake (Raw)		6.85	29.8	14.7	3.0	0.58		0.06		32	28		67.1
27-Dec	Southbay Wellfield Well # 1		7.86	565.0	277.5	123	0.47	218	0.06	0.028	2	1		99.9
27-Dec	Southbay Wellfield Well # 2		7.82	558.8	275.1	127	0.20	218	0.02	0.024	0	0		99.8
27-Dec	Southbay Wellfield Well # 3		7.90	560.8	276.0	123	1.92	215	0.12	0.028	10	0		99.8

## Appendix H

### 2018 Approved Water and Sewerage Utility Fund Capital Program



THE CITY OF SAINT JOHN  
MUNICIPAL OPERATIONS & ENGINEERING  
CAPITAL PROGRAM SUMMARY  
W & S UTILITY FUND

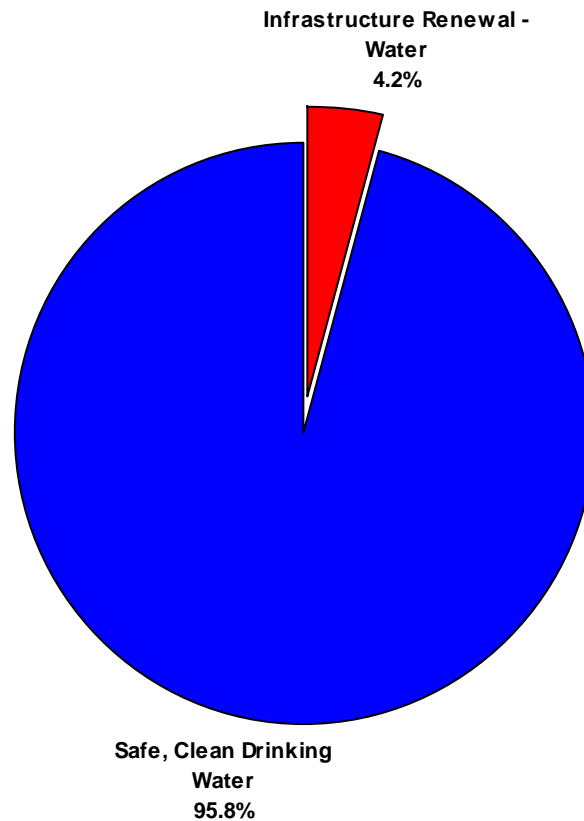
03-Apr-19

Approved October-02-17  
(M & C No. 2017-247)  
Revised May-22-18  
(M & C No. 2018-143)  
Revised June-04-18  
(M & C No. 2018-160)  
Revised June-04-18  
(M & C No. 2018-146)  
Revised June-18-18  
(M & C No. 2018-166)

Approved Program Summary For - 2018

Category	No. of Projects	Other Share	Utility Share	Total
Infrastructure Renewal - Water	10	\$1,622,352	\$2,076,667	\$3,699,019
Safe, Clean Drinking Water	1	\$93,601,600	\$46,953,900	\$140,555,500
TOTALS:	11	\$95,223,952	\$49,030,567	\$144,254,519

Summary of Capital Costs (Utility Share)





**THE CITY OF SAINT JOHN  
MUNICIPAL OPERATIONS & ENGINEERING  
APPROVED W & S FUND PROGRAM**

03-Apr-19

**2018**

MDH: MUNICIPAL DESIGNATED HIGHWAYS  
 PDH: PROVINCIALLY DESIGNATED HIGHWAYS  
 RDH: REGIONALLY DESIGNATED HIGHWAYS  
 w&s/Pvt: WATER AND SEWER OR PAVEMENT RELATED PROJECTS  
 C-\*\*: PROJECTS CARRIED OVER FOR COMPLETION THE FOLLOWING YEAR  
 PROJECTS IDENTIFIED WITH \* ARE DEPENDANT ON FUNDING FROM OTHERS

Approved October-02-17 - (M & C No. 2017-247)  
 Revised May-22-18 - (M & C No. 2018-143)  
 Revised June-04-18 - (M & C No. 2018-160)  
 Revised June-04-18 - (M & C No. 2018-146)  
 Revised June-18-18 - (M & C No. 2018-166)

## Infrastructure Renewal - Water

Project	On-going	Location	Description	Other Share	Utility Share
Glen Road		Glenview Drive to Morgan Road	Renew approx. 210m of existing 200mm watermain, including design and construction management services.	0	240,000
King Square South		Charlotte Street to Imperial Theatre	Renew approx. 76 m of new 200mm watermain, including construction management services.	0	95,000
Leinster Street		Sydney Street to Carmarthen Street	Renew approx. 130m of 200mm C.I. watermain, including design and construction management services.	0	150,000
Loch Lomond Watershed		McBrien and Taylor Lakes	Investigate and design the requirements to do some civil works at Taylor Lake to invest in further securing the separation of this lake from the watershed and Investigate and design the requirements to fix the damaged control structure at McBrien Lake.	0	90,000
Musquash Industrial Water Supply		Musquash Industrial Water Supply Pipeline	Chamber Upgrades and Electromagnetic Inspection – Preliminary Assessment and Engineering Design	0	50,000
Musquash Water Pump Station		Musquash Pumping Station	Relocate substation across the road under the 69KV Transmission Line, including design and construction management services. Phase B	0	1,055,000
Ocean Drive Pumping Station		Civic # 103 Ocean Drive	Installation of a back-up power generator at the Harbourview Subdivision Ocean Drive Pumping Station, including design and construction management services.	0	265,000
Rockland Road		Parks Street to Cranston Avenue	Renew 210 m of 200 mm C.I. watermain, including design and construction management services. Project to be partially funded under the Small Communities Fund (SCF)	153,333	76,667
Visart Street		Adelaide Street to Natalie Street	Renew approx. 150m of 200 mm C.I. (1957) watermain, including design and construction management services. Project to be partially funded under the Small Communities Fund (SCF)	110,000	55,000
* Watermain Cleaning and Lining Phase 15		Various locations	Cleaning and lining of existing unlined C.I. watermains to improve pressure, water quality, and fire flows. Project to be funded under G.T.F.	1,359,019	0

**TOTAL:      \$1,622,352      \$2,076,667**



THE CITY OF SAINT JOHN  
 MUNICIPAL OPERATIONS & ENGINEERING  
 APPROVED W & S FUND PROGRAM

03-Apr-19

2018

MDH: MUNICIPAL DESIGNATED HIGHWAYS  
 PDH: PROVINCIALLY DESIGNATED HIGHWAYS  
 RDH: REGIONALLY DESIGNATED HIGHWAYS  
 w&s/Pvt: WATER AND SEWER OR PAVEMENT RELATED PROJECTS  
 C-\*\*: PROJECTS CARRIED OVER FOR COMPLETION THE FOLLOWING YEAR  
 PROJECTS IDENTIFIED WITH \* ARE DEPENDANT ON FUNDING FROM OTHERS

Approved October-02-17 - (M & C No. 2017-247)  
 Revised May-22-18 - (M & C No. 2018-143)  
 Revised June-04-18 - (M & C No. 2018-160)  
 Revised June-04-18 - (M & C No. 2018-146)  
 Revised June-18-18 - (M & C No. 2018-166)

Safe, Clean Drinking Water

Project	On-going	Location	Description	Other Share	Utility Share
Safe, Clean Drinking Water Program		TBD	Safe, Clean Drinking Water Program envelope for 2018.	93,601,600	46,953,900
<b><u>TOTAL:</u></b>				<b><u>\$93,601,600</u></b>	<b><u>\$46,953,900</u></b>

## Appendix I

### Examples of Field Test Unit Functional Check Record





*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 4650000	oo 2100P PORTABLE TURBIDIMETER
Serial Number / No. de série : 05120C015154	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

*MB*

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : DR5000	oo nn rr DR5000 SPECTRO UV/VIS 115/230V
Serial Number / No. de série : 1233528	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



## *Certificate of Instrument Performance* *Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : DR5000-03	oo aa rr DR 5000 UV/VIS SPECTRO
Serial Number / No. de série : 1382671	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 4650000	oo 2100P PORTABLE TURBIDIMETER
Serial Number / No. de série : 940500005174	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

*MB*

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 4650000	oo 2100P PORTABLE TURBIDIMETER
Serial Number / No. de série : 05110C014655	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 2100Q01	rr 2100Q PORTABLE TURBIDIMETER
Serial Number / No. de série : 11030C007836	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



## *Certificate of Instrument Performance* *Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : DR2800-01	oo aa DR2800 SPECTRO W/O BATTERY PACK
Serial Number / No. de série : 1376639	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018





*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 4670000	oo POCKET COLORIMETER CHLORINE SYST
Serial Number / No. de série : 011000170892	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018





*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 4677000	oo POCKET COLOR. CHLORINE REPL.INST
Serial Number / No. de série : 030800039618	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

*MB*

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 4677000	oo POCKET COLOR. CHLORINE REPL.INST
Serial Number / No. de série : AS1111E002	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 5870000	rr POCKET CLRMTR II CHLORINE SYSTEM
Serial Number / No. de série : 12060E199553	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



## *Certificate of Instrument Performance* *Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 5870000	rr POCKET CLRMTR II CHLORINE SYSTEM
Serial Number / No. de série : 07110E082621	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 5870000	rr POCKET CLRMTR II CHLORINE SYSTEM
Serial Number / No. de série : 14110E261198	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 5870000	rr POCKET CLRMTR II CHLORINE SYSTEM
Serial Number / No. de série : 12060E199521	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 4670000	oo POCKET COLORIMETER CHLORINE SYST
Serial Number / No. de série : 030800039597	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018





*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 5870000	rr POCKET CLRMTR II CHLORINE SYSTEM
Serial Number / No. de série : 07120E085323	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018





## *Certificate of Instrument Performance* *Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 5870000	rr POCKET CLRMTR II CHLORINE SYSTEM
Serial Number / No. de série : 12060E199540	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : CITY OF SAINT JOHN

Account Number / No. de compte : 40171463

Certification Number / Numéro du Certificat : WO-00244407

Part Number / No. de pièce : 5870000	rr POCKET CLRMTR II CHLORINE SYSTEM
Serial Number / No. de série : 14110E361532	
External Reference / Référence externe :	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :

MarcoBetournay

Certification Date / Date de certification :

11/9/2018

FUNCTIONAL CHECK RECORD

DR2800 Spectrophotometer CHLORINE

Equipment Name  
 Manufacturer  
 Serial Number  
 Location of Equipment

DR2800 Spectrophotometer  
 Hach  
 1376639  
 Eastern WWTP

Date of Functional Chec	Target Quarterly	12-Jan-18	13-Apr-18	10-Aug-18	1-Oct-18	9-Nov-18
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Condition						
Cleanliness	OK	OK	OK	OK	OK	OK

Functional Check	Program 80	Lot # A7165 Exp. JUN/19)	12-Jan-18	13-Apr-18	10-Aug-18	1-Oct-18	9-Nov-18
Blank	Lot # A7142	0.00	0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153	0.21 +/- 0.09	0.22	0.21	0.18	0.22	
Standard 2	Lot # A7153	0.87 +/- 0.10	0.9	0.89	0.87	0.90	
Standard 3	Lot # A7153	1.50 +/- 0.14	1.53	1.52	1.51	1.53	

Vials Replaced	Yes/No	No	No	No	No	No
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Percentage Battery Power	0-100%	100%	69%	3%	Charged 93%	
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Overall Status	OK	OK	OK	OK	OK	OK
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Comments						Unit serviced and unit performance checked by HACH rep.

Initial		BLM	RG	NH	MW	Cert # WO-00244407
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**FUNCTIONAL CHECK RECORD**

**DR5000 (1) Spectrophotometer CHLORINE**

<b>Equipment Name</b>	<b>DR5000 (1) Spectrophotometer</b>
<b>Manufacturer</b>	<b>Hach</b>
<b>Serial Number</b>	<b>1233528</b>
<b>Location of Equipment</b>	<b>Eastern WWTP</b>

Date of Functional Check	Target Quarterly	12-Jan-18	13-Apr-18	10-Aug-18	1-Oct-18	9-Nov-18
<b>Condition</b>						
Cleanliness	OK	OK	OK	OK	OK	OK
<b>Functional Check</b>	<b>Program 80</b>					
Blank	Lot # A7165 (Exp. June/19) Lot # A7142 0.00	0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153 0.22 +/- 0.09	0.22	0.22	0.22	0.22	
Standard 2	Lot # A7153 0.90 +/- 0.10	0.91	0.91	0.91	0.92	
Standard 3	Lot # A7153 1.55 +/- 0.14	1.56	1.57	1.56	1.56	
<b>Vials Replaced</b>	<b>Yes/No</b>	No	No	No	No	No
<b>Batteries Replaced</b>	<b>Yes/No</b>	No	No	No	No	No
<b>Overall Status</b>	<b>OK</b>	OK	OK	OK	OK	OK
<b>Comments</b>						Unit serviced and unit performance checked by HACH rep.
<b>Initial</b>		BLM	RG	NH	MW	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**DR5000 (2) Spectrophotometer CHLORINE**

<b>Equipment Name</b>	<b>DR5000 (2) Spectrophotometer</b>
<b>Manufacturer</b>	<b>Hach</b>
<b>Serial Number</b>	<b>1382671</b>
<b>Location of Equipment</b>	<b>Eastern WWTP</b>

<b>Date of Functional Check</b>	<b>Target Quarterly</b>	<b>12-Jan-18</b>	<b>13-Apr-18</b>	<b>10-Aug-18</b>	<b>9-Nov-18</b>
<b>Condition</b>					
Cleanliness	OK	OK	OK	OK	OK
<b>Functional Check</b>	<b>Program 80</b>				
Blank	Lot # A7165 (Exp. June/19) Lot # A7142 0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153 0.22 +/- 0.09	0.22	0.22	0.22	
Standard 2	Lot # A7153 0.90 +/- 0.10	0.90	0.90	0.90	
Standard 3	Lot # A7153 1.55 +/- 0.14	1.54	1.56	1.55	
<b>Vials Replaced</b>	<b>Yes/No</b>	No	No	No	No
<b>Batteries Replaced</b>	<b>Yes/No</b>	No	No	No	No
<b>Overall Status</b>	<b>OK</b>	OK	OK	OK	OK
<b>Comments</b>					Unit serviced and unit performance checked by HACH rep.
<b>Initial</b>		BLM	RG	NH	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**2100P Portable Turbidimeter**

Equipment Name

2100P Portable Turbidimeter

Manufacturer

Hach

Serial Number

940500005174

Location of Equipment

Eastern WWTP

Date of Functional Check

Target Quarterly

16-Feb-18

13-Apr-18

10-Aug-18

1-Oct-18

9-Nov-18

Condition

Cleanliness

OK

OK

OK

OK

OK

OK

StabCal Set	Lot #	Expiry Date	Lot #	Expiry Date	Lot #	Expiry Date	Lot #	Expiry Date		
<1.0 NTU	A6340	Mar-18	A6340	Mar-18	A7319	Feb-19	A7319	Feb-19		
20 NTU	A6354	Mar-18	A6354	Mar-18	A8019	Apr-19	A8019	Apr-19		
100 NTU	A6355	Mar-18	A6355	Mar-18	A8023	Apr-19	A8023	Apr-19		
800 NTU	A6349	Mar-18	A6349	Mar-18	A8026	Apr-19	A8026	Apr-19		

Functional Check

Reading

Reading

New Reading

After Cal:

Reading

Reading

Standard	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
Standard 1	< 0.1 NTU	< 0.1 NTU	0.03	0.04	0.04	0.04	0.04	0.04		
Standard 2	20 NTU	± 1.0 NTU	21.3	21.3	20.1	19.9	19.9	19.9		
Standard 3	100 NTU	± 5.0 NTU	107	107	99	97.8	97.8	97.8		
Standard 4	800 NTU	± 40 NTU	836	820	781	781	781	781		

Vials Replaced

Yes/No

NO

No

No

No

No

Batteries Replaced

Yes/No

YES

No

No

Yes

Yes

Overall Status

OK

OK \*\*

OK\*\*

OK

OK

OK

Comments

\*\* Std 2, 3  
reading high.  
Did not recal.

\*\* Std 1, 2,  
reading high.  
Recalibrated.

Unit serviced  
and unit  
performance  
checked by  
HACH rep.

Initial

BLM

RG

NH

MW

Cert # WO-00244407







**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

**Equipment Name** Chlorine Pocket Colorimeter  
**Manufacturer** Hach  
**Serial Number** 30800039618  
**Location of Equipment** Eastern 438

Date of Functional Check		Target Quarterly	12-Jan-18	13-Apr-18	10-Aug-18	1-Oct-18	9-Nov-18
<b>Condition</b>							
Cleanliness		OK	OK	OK	OK	OK	OK
			Reading	Reading	Reading	Reading	Reading
Functional Check	Lot # A7165	(Exp. JUN/19)					
Blank	Lot # A7142	0.00	0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153	0.21 +/- 0.09	0.23	0.21	0.23	0.23	
Standard 2	Lot # A7153	0.87 +/- 0.10	0.92	0.89	0.91	0.92	
Standard 3	Lot # A7153	1.50 +/- 0.14	1.57	1.54	1.57	1.57	
Vials Replaced		Yes/No	No	No	No	No	No
Batteries Replaced		Yes/No	Yes	Yes	Yes	Yes	Yes
Overall Status		OK	OK	OK	OK	OK	OK
Comments							Unit serviced and unit performance checked by HACH rep.
Initial			BLM	RG	NH	MW	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

Equipment Name			Chlorine Pocket Colorimeter			
Manufacturer			Hach			
Serial Number			30800039597			
Location of Equipment			Eastern 450			
Date of Functional Check	Target Quarterly		12-Jan-18	13-Apr-18	16-Jul-18	9-Nov-18
Condition						
Cleanliness	OK		OK	OK	OK	OK
			Reading	Reading	Reading	Reading
Functional Check	Lot # A7165	(Exp. JUN/19)				
Blank	Lot # A7142	0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153	0.21 +/- 0.09	0.21	0.21	0.22	
Standard 2	Lot # A7153	0.87 +/- 0.10	0.86	0.84	0.85	
Standard 3	Lot # A7153	1.50 +/- 0.14	1.48	1.46	1.48	
Vials Replaced	Yes/No		No	No	No	
Batteries Replaced	Yes/No		Yes	Yes	Yes	
Overall Status	OK		OK	OK	OK	
Comments						Unit serviced and unit performance checked by HACH rep.
Initial			BLM	RG	RG	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

**Equipment Name**  
**Manufacturer**  
**Serial Number**  
**Location of Equipment**

**Chlorine Pocket Colorimeter**  
**Hach**  
**11000170897**  
 stern (Old Hazen Creek Kit) went to #426 Mike Cook **Now at EWWTP Lab (Nov 20**

Date of Functional Check		Target Quarterly	12-Jan-18	13-Apr-18	10-Aug-18	1-Oct-18	9-Nov-18
<b>Condition</b>							
<b>Cleanliness</b>		OK	OK	OK	OK	OK	OK
			Reading	Reading	Reading	Reading	Reading
<b>Functional Check</b>	Lot # A7165	(Exp. JUN/19)					
Blank	Lot # A7142	0.00	0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153	0.21 +/- 0.09	0.22	0.22	0.22	0.22	
Standard 2	Lot # A7153	0.87 +/- 0.10	0.89	0.90	0.90	0.89	
Standard 3	Lot # A7153	1.50 +/- 0.14	1.53	1.51	1.52	1.51	
<b>Vials Replaced</b>		Yes/No	No	No	No	No	No
<b>Batteries Replaced</b>		Yes/No	Yes	Yes	Yes	Yes	Yes
<b>Overall Status</b>		OK	OK	OK	OK	OK	OK
<b>Comments</b>							Unit serviced and unit performance checked by HACH rep.
<b>Initial</b>			BLM	RG	NH	MW	Cert # WO-00244407

FUNCTIONAL CHECK RECORD

Chlorine Pocket II Colorimeter

Equipment Name		Chlorine Pocket II Colorimeter				
Manufacturer		Hach				
Serial Number		07120C085323				
Location of Equipment		Eastern WWTP				
Date of Functional Check	Target Quarterly	16-Feb-18	13-Apr-18	10-Aug-18	1-Oct-18	9-Nov-18
<b>Condition</b>						
Cleanliness	OK	OK	OK	OK	OK	OK
		Reading	Reading	Reading	Reading	Reading
Functional Check Low Range:	Lot # A7165 (Exp. JUN/19)					
Blank	Lot # A7142	0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153	0.23 +/- 0.09	0.22	0.23	0.21	0.23
Standard 2	Lot # A7153	0.94 +/- 0.10	0.94	0.94	0.94	
Standard 3	Lot # A7153	1.62 +/- 0.14	1.6	1.60	1.62	1.60
Functional Check High Range:	Lot # A7039 (Exp. Feb/19)					
Blank	Blk - A7019	0.00	0.0	0.0	0.0	
Standard 1	Std 1 - A7024	2.2 +/- 0.2	2.2	2.2	2.2	2.1
Standard 2	Std 2 - A7024	3.8 +/- 0.3	3.9	3.9	3.9	3.8
Standard 3	Std 3 - A7024	7.0 +/- 0.6	6.0	6.0	5.9	6.9
Viials Replaced	Yes/No	No	No	No	No	No
Batteries Replaced	Yes/No	Yes	Yes	Yes	Yes	Yes
Overall Status	OK	**	OK	OK	OK	OK
Comments		** HR Std #3 reading low did not recalibrate.	Std 3 reading low.	STD3 slightly low		Unit serviced and unit performance checked by HACH rep.
Initial		BLM	RG	NH	MW	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

<b>Equipment Name</b>	<b>Chlorine Pocket Colorimeter</b>
<b>Manufacturer</b>	<b>Hach</b>
<b>Serial Number</b>	<b>11100171491 (Spruce Lake) (Hach Rep serial#AS1111E002)</b>
<b>Location of Equipment</b>	<b>Latimer Lake WTP</b>

<b>Date of Functional Check</b>	<b>Target Quarterly</b>	<b>12-Apr-18</b>	<b>24-Aug-18</b>	<b>9-Nov-18</b>	
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<b>Condition</b>					
<b>Cleanliness</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	

			<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
<b>Functional Check</b>	<b>Lot # A7165</b>	<b>(Exp. JUN/19)</b>				
<b>Blank</b>	<b>Lot # A7142</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		
<b>Standard 1</b>	<b>Lot # A7153</b>	<b>0.21 +/- 0.09</b>	<b>0.22</b>	<b>0.21</b>		
<b>Standard 2</b>	<b>Lot # A7153</b>	<b>0.87 +/- 0.10</b>	<b>0.89</b>	<b>0.94</b>		
<b>Standard 3</b>	<b>Lot # A7153</b>	<b>1.50 +/- 0.14</b>	<b>1.52</b>	<b>1.66</b>		

<b>Vials Replaced</b>	<b>Yes/No</b>	<b>No</b>	<b>No</b>	<b>No</b>	
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<b>Batteries Replaced</b>	<b>Yes/No</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	
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<b>Overall Status</b>	<b>OK</b>	<b>OK</b>	<b>*OK</b>	<b>OK</b>	
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<b>Comments</b>			<b>*STD3</b>	<b>Unit serviced</b>	
			<b>out of</b>	<b>and unit</b>	
			<b>tolerance.</b>	<b>performance</b>	
				<b>checked by</b>	
				<b>HACH rep.</b>	

<b>Initial</b>		<b>RH</b>	<b>RG</b>	<b>Cert # WO-00244407</b>	
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**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket II Colorimeter**

<b>Equipment Name</b>	<b>Chlorine Pocket II Colorimeter</b>
<b>Manufacturer</b>	<b>Hach</b>
<b>Serial Number</b>	<b>12060E199521</b>
<b>Location of Equipment</b>	<b>Eastern WWTP (Latimer/Spruce).</b>

Date of Functional Check		Target Quarterly	10-Jan-18	12-Apr-18	23-Aug-18	09-Nov-18
<b>Condition</b>						
<b>Cleanliness</b>		OK	OK	OK	OK	OK
			<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
<b>Functional Check Low Range:</b>	<b>Lot # A7165 (Exp. JUN/19)</b>					
Blank	Lot # A7142	0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153	0.23 +/- 0.09	0.23	0.24	0.23	
Standard 2	Lot # A7153	0.94 +/- 0.10	0.95	0.95	0.95	
Standard 3	Lot # A7153	1.62 +/- 0.14	1.62	1.62	1.61	
<b>Functional Check High Range:</b>	<b>Lot # A7039 (Exp. Feb/19)</b>					
Blank	Blk - A7019	0.00	0.0	0.0	0.0	
Standard 1	Std 1 - A7024	2.2 +/- 0.2	2.2	2.2	2.1	
Standard 2	Std 2 - A7024	3.8 +/- 0.3	3.9	3.9	3.8	
Standard 3	Std 3 - A7024	7.0 +/- 0.6	6.1	5.9	6.9	
				<b>Lot # A8120 (Exp. May/20)</b>		
				Blk - A8101	0.0	
				Std 1 - A8095	2.1 +/- 0.2	
				Std 2 - A8095	3.8 +/- 0.3	
				Std 3 - A8095	6.9 +/- 0.6	
<b>Viials Replaced</b>	Yes/No	No	No	No	No	No
<b>Batteries Replaced</b>	Yes/No	Yes	Yes	Yes	Yes	Yes
<b>Overall Status</b>	OK	OK *	OK*	OK	OK	OK
<b>Comments</b>		* High range STD3 out of tolerance.	* High range STD3 out of tolerance. Could be kit	Replaced High Range Secondary Standard Kit	Unit serviced and unit performance checked by HACH rep.	
<b>Initial</b>		RH	RH	RH	Cert # WO-00244407	

FUNCTIONAL CHECK RECORD

Chlorine Pocket II Colorimeter

Equipment Name	Chlorine Pocket II Colorimeter
Manufacturer	Hach
Serial Number	12060E199540
Location of Equipment	Latimer Lake

Date of Functional Check	Target Quarterly	10-Jan-18	12-Apr-18	24-Aug-18	09-Nov-18
Condition					
Cleanliness	OK	OK	OK	OK	OK
		Reading	Reading	Reading	Reading
Functional Check Low Range: Lot # A7165 (Exp. JUN/19)					
Blank Lot # A7142	0.00	0.00	0.00	0.00	
Standard 1 Lot # A7153	0.23 +/- 0.09	0.23	0.23	0.22	
Standard 2 Lot # A7153	0.94 +/- 0.10	0.96	0.96	0.96	
Standard 3 Lot # A7153	1.62 +/- 0.14	1.63	1.63	1.63	
Functional Check High Range: Lot # A7039 (Exp. Feb/19)					
Blank Blk - A7019	0.0	0.0	0.0	0.0	
Standard 1 Std 1 - A7024	2.2 +/- 0.2	2.2	2.2	2.1	
Standard 2 Std 2 - A7024	3.8 +/- 0.3	3.9	3.9	3.8	
Standard 3 Std 3 - A7024	7.0 +/- 0.6	6.2	6.0	7.0	
			Lot # A8120 (Exp. May/20)		
			Blk - A8101	0.0	
			Std 1 - A809E	2.1 +/- 0.2	
			Std 2 - A809E	3.8 +/- 0.3	
			Std 3 - A809E	6.9 +/- 0.6	
Vials Replaced	Yes/No	No	No	No	No
Batteries Replaced	Yes/No	Yes	Yes	Yes	Yes
Overall Status	OK	OK*	OK*	OK	OK
Comments		Cover not stored on instrument.	* High range STD3 out of tolerance.	Replaced High Range Secondary Standard Kit	Unit serviced and unit performance checked by HACH rep.
Initial		RH	RH	MW	Cert # WO-00244407





FUNCTIONAL CHECK RECORD

Chlorine Pocket II Colorimeter

Equipment Name	Chlorine Pocket II Colorimeter			
Manufacturer	Hach			
Serial Number	12060E199553			
Location of Equipment				

Date of Functional Check	Target Quarterly	11-Jan-18	12-Apr-18	24-Aug-18	09-Nov-18
Condition					
Cleanliness	OK	OK	OK	OK	OK
		Reading	Reading	Reading	Reading
Functional Check Low Range: Lot # A7165 (Exp. JUN/19)					
Blank Lot # A7142	0.00	0.00	0.00	0.00	
Standard 1 Lot # A7153	0.23 +/- 0.09	0.22	0.22	0.22	
Standard 2 Lot # A7153	0.94 +/- 0.10	0.95	0.94	0.94	
Standard 3 Lot # A7153	1.62 +/- 0.14	1.63	1.61	1.62	
Functional Check High Range: Lot # A7039 (Exp. Feb/19)					
Blank Blk - A7019	0.0	0.0	0.0	0.0	
Standard 1 Std 1 - A7024	2.2 +/- 0.2	2.2	2.2	2.1	
Standard 2 Std 2 - A7024	3.8 +/- 0.3	3.8	3.8	3.8	
Standard 3 Std 3 - A7024	7.0 +/- 0.6	6.1	5.9	6.9	
			Lot # A8120 (Exp. May/20)		
			Blk - A8101 0.0	0.0	
			Std 1 - A8095 2.1 +/- 0.2	2.1	
			Std 2 - A8095 3.8 +/- 0.3	3.8	
			Std 3 - A8095 6.9 +/- 0.6	6.9	
Vials Replaced	Yes/No	NO	No	No	No
Batteries Replaced	Yes/No	YES	Yes	Yes	Yes
Overall Status	OK	OK**	OK**	OK	OK
Comments		**High range STD3 out of tolerance	**High range STD3 out of tolerance Could be kit	Replaced High Range Secondary Standard Kit	Unit serviced and unit performance checked by HACH rep.
Initial		RH	RH	RG	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket II Colorimeter**

Equipment Name	Chlorine Pocket II Colorimeter
Manufacturer	Hach
Serial Number	14110E261532
Location of Equipment	Latimer Lake
Owner	

Date of Functional Check	Target Quarterly	12-Apr-18	24-Aug-18	9-Nov-18
Condition				
Cleanliness	OK	OK	OK	OK
Functional Check		Reading	Reading	Reading
Blank	Lot # A7165 (Exp. JUN/19)	0.00	0.00	
Standard 1	Lot # A7142	0.23 +/- 0.09	0.24	
Standard 2	Lot # A7153	0.94 +/- 0.10	0.95	
Standard 3	Lot # A7153	1.62 +/- 0.14	1.63	
Functional Check High Range:	Lot # A7039 (Exp. Feb/19)		Lot # A8120 (Exp. May/20)	
Blank	Blk - A7019	0.0	0.0	
Standard 1	Std 1 - A7024	2.2 +/- 0.2	2.1	
Standard 2	Std 2 - A7024	3.8 +/- 0.3	3.8	
Standard 3	Std 3 - A7024	7.0 +/- 0.6	6.9	
Vials Replaced	Yes/No	No	No	No
Batteries Replaced	Yes/No	Yes	Yes	Yes
Overall Status	o.k.	OK*	OK	OK
Comments		* High range STD3 out of tolerance. Could be kit	Replaced High Range Secondary Standard Kit	Unit serviced and unit performance checked by HACH rep.
Initial		RH	RG	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket II Colorimeter**

Equipment Name	Chlorine Pocket II Colorimeter
Manufacturer	Hach
Serial Number	14110E261198
Location of Equipment	Latimer Lake
Owner	

Date of Functional Check	Target Quarterly	10-Jan-18	12-Apr-18	23-Aug-18	9-Nov-18
Condition					
Cleanliness	OK	OK	OK	OK	OK
Functional Check		<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
Blank	Lot # A7165 (Exp. JUN/19) Lot # A7142 0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153 0.23 +/- 0.09	0.25	0.22	0.24	
Standard 2	Lot # A7153 0.94 +/- 0.10	0.96	0.92	0.95	
Standard 3	Lot # A7153 1.62 +/- 0.14	1.63	1.58	1.62	
Functional Check High Range:	Lot # A7039 (Exp. Feb/19)				
Blank	Blk - A7019 0.0	0.0	0.0	0.0	
Standard 1	Std 1 - A7024 2.2 +/- 0.2	2.2	2.2	2.1	
Standard 2	Std 2 - A7024 3.8 +/- 0.3	3.9	3.8	3.8	
Standard 3	Std 3 - A7024 7.0 +/- 0.6	6.1	5.8	6.9	
				Lot # A8120 Exp. May/20)	
				Blk - A8101 0.0	
				Std 1 - A8095 2.1 +/- 0.2	
				Std 2 - A8095 3.8 +/- 0.3	
				Std 3 - A8095 6.9 +/- 0.6	
Vials Replaced	Yes/No	No	No	No	No
Batteries Replaced	Yes/No	Yes	Yes	Yes	Yes
Overall Status	o.k.	OK *	OK *	OK	OK
Comments		* High range STD3 out of tolerance.	* High range STD3 out of tolerance. Could be kit	Replaced High Range Secondary Standard Kit	Unit serviced and unit performance checked by HACH rep.
Initial		RH	RH	RH	Cert # WO-00244407

**FUNCTIONAL CHECK RECORD**

**2100P Portable Turbidimeter**

Equipment Name **2100P Portable Turbidimeter**  
 Manufacturer **Hach**  
 Serial Number **05110C014655**  
 Location of Equipment **Latimer Lake**

Date of Functional Check Target Quarterly **10-Jan-18** **12-Apr-18** **23-Aug-18** **9-Nov-18**

Condition Cleanliness **OK**

StabCal Set	Lot #	Expiry Date	Lot #	Expiry Date	Lot #	Expiry Date	Lot #	Expiry Date
<1.0 NTU	A6349	Mar-18	A7319	Feb-19	A7319	Feb-19		
20 NTU	A6354	Mar-18	A8019	Apr-19	A8019	Apr-19		
100 NTU	A6355	Mar-18	A8023	Apr-19	A8023	Apr-19		
800 NTU	A6349	Mar-18	A8026	Apr-19	A8026	Apr-19		

Functional Check	Reading		Reading		Reading		Reading	
Standard 1	< 0.1 NTU	< 0.1 NTU	0.04	< 0.1 NTU	0.04	< 0.1 NTU	0.04	
Standard 2	20 NTU	± 1.0 NTU	20.7	± 1.0 NTU	20.6	± 1.0 NTU	20.6	
Standard 3	100 NTU	± 5.0 NTU	106	± 5.0 NTU	103	± 5.0 NTU	102	
Standard 4	800 NTU	± 40 NTU	794	± 40 NTU	773	± 40 NTU	764	

Vials Replaced Yes/No

Batteries Replaced Yes/No

Overall Status **OK**

Comments STD 3 out of tolerance. Unit serviced and unit performance checked by HACH rep.

Initial

**FUNCTIONAL CHECK RECORD**

**2100P Portable Turbidimeter**

Equipment Name 2100P Portable Turbidimeter  
 Manufacturer Hach  
 Serial Number 05120C015154  
 Location of Equipment Spruce Lake

Date of Functional Check Target Quarterly 11-Jan-18 12-Apr-18 24-Aug-18 9-Nov-18

Condition Cleanliness OK

StabCal Set	Lot #	Expiry Date	Lot #	Expiry Date	Lot #	Expiry Date	Lot #	Expiry Date
<1.0 NTU	A6340	Mar-18	A7319	Feb-19	A7319	Feb-19		
20 NTU	A6354	Mar-18	A8019	Apr-19	A8019	Apr-19		
100 NTU	A6355	Mar-18	A8023	Apr-19	A8023	Apr-19		
800 NTU	A6349	Mar-18	A8026	Apr-19	A8026	Apr-19		

Functional Check	Reading						Reading	
Standard 1	< 0.1 NTU	<0.1	0.03	<0.1	0.03	<0.1	0.05	
Standard 2	20 NTU	± 1.0 NTU	20.6	± 1.0 NTU	20.4	± 1.0 NTU	20.5	
Standard 3	100 NTU	± 5.0 NTU	105	± 5.0 NTU	103	± 5.0 NTU	104	
Standard 4	800 NTU	± 40 NTU	800	± 40 NTU	784	± 40 NTU	768	

Vials Replaced Yes/No

Batteries Replaced Yes/No

Overall Status OK

Comments Secondary Standards \_\_\_\_\_ Unit serviced and unit performance checked by HACH rep. \_\_\_\_\_

Initial

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

<b>Equipment Name</b>	<b>Chlorine Pocket Colorimeter</b>			
<b>Manufacturer</b>	<b>Hach</b>			
<b>Serial Number</b>	<b>30800039624</b>			
<b>Location of Equipment</b>	<b>Vehicles 410 and 411</b>			
<b>Owner</b>	<b>Harold Eatmon 647-5256</b>			

<b>Date of Functional Check</b>	<b>Target Quarterly</b>	<b>12-Apr-18</b>	<b>27-Sep-18</b>	<b>16-Nov-18</b>	
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<b>Condition</b>					
<b>Cleanliness</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>		

<b>Functional Check</b>	<b>Lot # A7165</b>	<b>(Exp. JUN/19)</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
<b>Blank</b>	<b>Lot # A7142</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Standard 1</b>	<b>Lot # A7153</b>	<b>0.21 +/- 0.09</b>	<b>0.20</b>	<b>0.20</b>	<b>0.20</b>	
<b>Standard 2</b>	<b>Lot # A7153</b>	<b>0.87 +/- 0.10</b>	<b>0.83</b>	<b>0.83</b>	<b>0.81</b>	
<b>Standard 3</b>	<b>Lot # A7153</b>	<b>1.50 +/- 0.14</b>	<b>1.42</b>	<b>1.41</b>	<b>1.40</b>	

<b>Vials Replaced</b>	<b>Yes/No</b>	<b>No</b>	<b>No</b>	<b>No</b>	
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<b>Batteries Replaced</b>	<b>Yes/No</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	
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<b>Overall Status</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>		
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<b>Comments</b>	<b>In vehicle 411</b>				

<b>Initial</b>	<b>BLM</b>	<b>RG</b>	<b>RG</b>		
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**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

<b>Equipment Name</b>	Chlorine Pocket Colorimeter
<b>Manufacturer</b>	Hach
<b>Serial Number</b>	700149166
<b>Location of Equipment</b>	Vehicles 420 Hydrant Crew (Now in kit 411 Oct 7th, 2016)
<b>Owner</b>	Chris Johnson and Jordy Hickey

Harold Eatman #411 on kit.

<b>Date of Functional Check</b>	<b>Target Quarterly</b>	<b>9-Jan-18</b>	<b>12-Apr-18</b>	<b>3-Oct-18</b>	
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<b>Condition</b>					
<b>Cleanliness</b>	OK	OK	OK	OK	

			Reading	Reading	Reading	Reading
<b>Functional Check</b>	Lot # A7165	(Exp. JUN/19)				
<b>Blank</b>	Lot # A7142	0.00	0.00	0.00	0.00	
<b>Standard 1</b>	Lot # A7153	0.21 +/- 0.09	0.20	0.16	0.20	
<b>Standard 2</b>	Lot # A7153	0.87 +/- 0.10	0.84	0.80	0.82	
<b>Standard 3</b>	Lot # A7153	1.50 +/- 0.14	1.43	1.40	1.40	

<b>Vials Replaced</b>	Yes/No	No	1 of 2	No	
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<b>Batteries Replaced</b>	Yes/No	Yes	Yes	Yes	
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<b>Overall Status</b>	OK	OK	OK	OK	
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<b>Comments</b>		In vehicle 410			

<b>Initial</b>		BLM	BLM	RG	
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**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

<b>Equipment Name</b>	Chlorine Pocket Colorimeter
<b>Manufacturer</b>	Hach
<b>Serial Number</b>	30900039688
<b>Location of Equipment</b>	Vehicle 425 Scott Maxwell 647-5641

<b>Date of Functional Check</b>	<b>Target Quarterly</b>	<b>11-Jan-18</b>	<b>28-Nov-18</b>		
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<b>Condition</b>					
<b>Cleanliness</b>	OK	OK	OK		

<b>Functional Check</b>	<b>Lot #</b>	<b>(Exp. JUN/19)</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
Blank	A7142	0.00	0.00	0.00		
Standard 1	A7153	0.21 +/- 0.09	0.21	0.21		
Standard 2	A7153	0.87 +/- 0.10	0.86	0.87		
Standard 3	A7153	1.50 +/- 0.14	1.48	1.48		

<b>Viials Replaced</b>	<b>Yes/No</b>	No	1-Jan-00		
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<b>Batteries Replaced</b>	<b>Yes/No</b>	Yes	Yes		
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<b>Overall Status</b>	OK	OK	OK		
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**Comments**

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<b>Initial</b>	RH	RH		
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**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

**Equipment Name**  
**Manufacturer**  
**Serial Number**  
**Location of Equipment**

**Chlorine Pocket Colorimeter**  
**Hach**  
**30800039595**  
**Vehicle 428**

Date of Functional Check	Target Quarterly		<u>12-Feb-18</u>	<u>13-Apr-18</u>	<u>6-Sep-18</u>	<u>16-Nov-18</u>
<b>Condition</b>						
Cleanliness	OK		OK	OK	OK	OK
<b>Functional Check</b>	Lot # A7165	(Exp. JUN/19)	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
Blank	Lot # A7142	0.00	0.00	0.00	0.00	0.00
Standard 1	Lot # A7153	0.21 +/- 0.09	0.21	0.21	0.21	0.21
Standard 2	Lot # A7153	0.87 +/- 0.10	0.86	0.86	0.86	0.85
Standard 3	Lot # A7153	1.50 +/- 0.14	1.48	1.48	1.48	1.46
<b>Vials Replaced</b>	Yes/No		No	No	No	No
<b>Batteries Replaced</b>	Yes/No		Yes	Yes	Yes	Yes
<b>Overall Status</b>	OK		OK	OK	OK	OK
<b>Comments</b>						
<b>Initial</b>			RH	BLM	RG	RG

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

<b>Equipment Name</b>	<b>Chlorine Pocket Colorimeter</b>
<b>Manufacturer</b>	<b>Hach</b>
<b>Serial Number</b>	<b>XXX00039412</b>
<b>Location of Equipment</b>	<b>Vehicle 431 Customer Service</b>

<b>Date of Functional Check</b>	<b>Target Quarterly</b>	<b>10-Jan-18</b>	<b>27-Apr-18</b>	<b>24-Aug-18</b>	<b>27-Nov-18</b>
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<b>Condition</b>					
<b>Cleanliness</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>

<b>Functional Check</b>	<b>Lot #</b>	<b>(Exp. JUN/19)</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
<b>Blank</b>	<b>Lot # A7142</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Standard 1</b>	<b>Lot # A7153</b>	<b>0.21 +/- 0.09</b>	<b>0.24</b>	<b>0.23</b>	<b>0.23</b>	<b>0.22</b>
<b>Standard 2</b>	<b>Lot # A7153</b>	<b>0.87 +/- 0.10</b>	<b>0.92</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>
<b>Standard 3</b>	<b>Lot # A7153</b>	<b>1.50 +/- 0.14</b>	<b>1.57</b>	<b>1.58</b>	<b>1.57</b>	<b>1.56</b>

<b>Vials Replaced</b>	<b>Yes/No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
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<b>Batteries Replaced</b>	<b>Yes/No</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
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<b>Overall Status</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>
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**Comments**

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<b>Initial</b>	<b>BLM</b>	<b>RH</b>	<b>MW</b>	<b>RG</b>
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**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

**Equipment Name**  
**Manufacturer**  
**Serial Number**  
**Location of Equipment**

**Chlorine Pocket Colorimeter**  
**Hach**  
**30900039698**  
**Vehicle 433**

Date of Functional Check	Target Quarterly	12-Feb-18	13-Apr-18	16-Nov-18	
<b>Condition</b>					
Cleanliness	OK	OK	OK	OK	
<b>Functional Check</b>	<b>Lot # A7165 (Exp. JUN/19)</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
Blank	Lot # A7142 0.00	0.00	0.00	0.00	
Standard 1	Lot # A7153 0.21 +/- 0.09	0.20	0.21	0.21	
Standard 2	Lot # A7153 0.87 +/- 0.10	0.85	0.84	0.85	
Standard 3	Lot # A7153 1.50 +/- 0.14	1.46	1.45	1.46	
<b>Vials Replaced</b>	<b>Yes/No</b>	No	No	No	
<b>Batteries Replaced</b>	<b>Yes/No</b>	Yes	Yes	Yes	
<b>Overall Status</b>	<b>OK</b>	OK	OK	OK	
<b>Comments</b>					
<b>Initial</b>		RH	BLM	RG	

**FUNCTIONAL CHECK RECORD**

**Chlorine Pocket Colorimeter**

<b>Equipment Name</b>	Chlorine Pocket Colorimeter
<b>Manufacturer</b>	Hach
<b>Serial Number</b>	LL#3
<b>Location of Equipment</b>	434

**Date of Functional Chec**      **Target Quarterly**      17-Jan-18      24-Apr-18      13-Nov-18      \_\_\_\_\_

<b>Condition</b>					
<b>Cleanliness</b>	OK	OK	OK	OK	

<b>Functional Check</b>			<b>Reading</b>	<b>Reading</b>	<b>Reading</b>	<b>Reading</b>
<b>Blank</b>						
<b>Standard 1</b>	Lot # A7165	(Exp. JUN/19)	0.00	0.00	0.00	
<b>Standard 2</b>	Lot # A7142	0.00	0.21	0.20	0.21	
<b>Standard 3</b>	Lot # A7153	0.21 +/- 0.09	0.87	0.86	0.88	
	Lot # A7153	0.87 +/- 0.10	1.50	1.47	1.50	
	Lot # A7153	1.50 +/- 0.14				

<b>Vials Replaced</b>	Yes/No	No	No	No	
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<b>Batteries Replaced</b>	Yes/No	Yes	Yes	Yes	
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<b>Overall Status</b>	OK	OK	OK	OK	
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<b>Initial</b>		BLM	BLM	MW	
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# Appendix J

## Certifications Achieved to Date



**Employee Certifications Achieved to Date**

First Name	Last name	Class I Water Treatment	Class II Water Treatment	Class III Water Treatment	Class IV Water Treatment	Class I Water Distribution	Class II Water Distribution	Class III Water Distribution	Class IV Water Distribution
GRANT	HARRIGAN					●	●	●	
JORDY	HICKEY								
ART	HOVEY	●	●	●		●	●	●	
CHESLEY	HYNES					●			
CHRISTOPHER	JOHNSON								
STEPHEN	JORGENSEN								
SALEEM	KALEEM	●	●	●					
MICHAEL	KEENAN					●			
KEVIN	KINCADE	●	●						
DON	LEBLANC								
PIERRE	LEBLANC					●	●	●	
JASON	LECLERC					●	●		
VANCE	LONDON					●			
TYLER	MACKENZIE								
PATRICK	MACKIN					●	●		
BRENDA	MACKINNON	●	●						
RON	MACRAE					●	●		
MARK	MADDEN								
JAMES	MARGARIS	●	●			●			
BRIAN	MARR	●				●			
KENDALL	MASON								
SCOTT	MAXWELL					●	●		
BROCK	MCCONKEY	●							
TANNER	MCDEVITT					●	●	●	●
SEAN	MCDONALD								
MARK	MCKENZIE					●	●		
FREDRICK	MICHAELSON					●			
JASON	MORRELL	●	●						
DEVIN	NESBIT					●			

**Employee Certifications Achieved to Date**

First Name	Last name	Class I Water Treatment	Class II Water Treatment	Class III Water Treatment	Class IV Water Treatment	Class I Water Distribution	Class II Water Distribution	Class III Water Distribution	Class IV Water Distribution
ADAM	O'DONNELL								
RYAN	PEARSON	•							
JOHN	PERRY					•	•		
ADAM	PILMER	•	•						
JIM	REYNOLDS								
PAT	RICHARD								
TERRY	ROLLINS								
JOHN	RYAN								
JODY	SAVOIE								
SCOTT	SEARS	•							
SEAN	SEAWARD					•	•		
TONY	SHAW								
JOSEPH	SKERRY					•			
JOEY	ST. COEUR	•	•						
TERRY	STEVENS	•	•			•	•		
DANIEL	STONE					•			
JODI	STRINGER-WEBB					•	•	•	
LIAM	THERIAULT					•			
MATTHEW	WARREN								
CHRISTOPHER	WHITE					•			
BRUCE	WHITE					•			
MICHELLE	WILSON								
STEPHEN	WRIGHT					•			



# Appendix K

## 2018 Summary of Watermain Breaks



**THE CITY OF SAINT JOHN  
SAINT JOHN WATER  
SUMMARY OF WATERMAIN FAILURES FOR 2018**

<b>Date</b>	<b>Street Number</b>	<b>Street Name</b>	<b>Short Description</b>	<b>Diameter</b>
5-Jan-18	15	Magazine Street	Shear	200mm
5-Jan-18	29	King Street West	Split	150mm
8-Jan-18	220	Summit Drive	Shear	150mm
10-Jan-18	12	Hydro Place	Shear	150mm
14-Jan-18	30	Parkhill Drive	Shear	150mm
22-Jan-18	63	Burder Street	Shear	150mm
25-Jan-18	100	Industrial Drive	12' SPLIT	300mm
25-Jan-18	635	Bayside Drive	Leaking Flange	300mm
30-Jan-18	72	Ashton Place	Hole in Flange	50mm
6-Feb-18	26	Beach Crescent	Shear	150mm
15-Feb-18	3	John T. McMillan	Shear	150mm
21-Feb-18	221	Hawthorne Ave Extension	Perforation	150mm
23-Feb-18	103	Donaldson Street	Leaking Sleeve	200mm
25-Feb-18	22	Suffolk Street	Shear	200mm
11-Mar-18	10	Harmony Drive	Shear	200mm
12-Mar-18	54	Parkhill Drive	Shear	200mm
12-Mar-18	295	Bayside Drive	Shear	200mm
14-Mar-18	1037	McCavour Drive	Shear	200mm
20-Mar-18	28	Mecklenburg Street	Shear	200mm
21-Mar-18	2	Creighton Street	Shear	200mm
6-Apr-18	N/A	Churchill Boulevard	Leaking Coupling	300mm
6-Apr-18	44	Rocky Terrace	Shear	150mm
9-Apr-18	86	Willie Avenue	Shear	200mm
10-Apr-18	185	Ellerdale Street	Shear	150mm
25-Apr-18	10	Ridge Street	Shear	150mm



**THE CITY OF SAINT JOHN  
SAINT JOHN WATER  
SUMMARY OF WATERMAIN FAILURES FOR 2018**

<b>Date</b>	<b>Street Number</b>	<b>Street Name</b>	<b>Short Description</b>	<b>Diameter</b>
20-Apr-18	509	Woodward Avenue	Perforation	200mm
23-May-18	76	Brookview Crescent	Shear	200mm
31-Jul-18	640	Rothsay Avenue	Leaking Valve	200mm
15-Aug-18	221	Hawthorne Avenue Extension	Perforation	150mm
4-Sep-18	550	Gault Road	Hydrant Tee	300mm
2-Oct-18	712	Dominion Park Road	Shear	200mm
3-Oct-18	9	Ocean Court	Shear	200mm
4-Oct-18	18	Roxbury Drive	Shear	200mm
9-Oct-18	7	Parkhill Drive	Perforation	200mm
7-Nov-18	305	Germain Street	Leaking Valve	200mm
15-Nov-18	96	Thornbough Street	Shear	200mm
20-Nov-18	N/A	Hilyard Street	Split	250mm
15-Nov-18	244	Duke Street West	Shear	150mm
27-Nov-18	520	Grandview Avenue	Leaking Valve	300mm
29-Nov-18	107	Hazen Street	Shear	150mm
5-Dec-18	27	Alpine Street	Shear	200mm
5-Dec-18	1	Barry court	Shear	150mm
6-Dec-18	295	Bayside Drive	Leaking Hub Clamp	400mm
14-Dec-18	474	Sandy Point Road	Shear	200mm

# Appendix L

## 2018 Staff Training Summary







## Appendix M

### Examples of Weekly Construction Update





SAINT JOHN

# WEEKLY CONSTRUCTION UPDATE

Municipal Operations and Engineering  
Ingénierie et opérations municipales  
(506) 658-4455 Fax/Télécopieur : (506) 658-4740

[municipaloperations@saintjohn.ca](mailto:municipaloperations@saintjohn.ca) <http://www.saintjohn.ca>



The City of Saint John

## Construction Update/Nouvelles hebdomadaires

May 18, 2018 / le 18 mai 2018

Drive with Caution or Use Alternate Routes  
Police Will Be Monitoring Traffic  
Expect Traffic Interruptions

Conduisez prudemment ou utilisez un trajet de rechange.  
La police surveillera la circulation.  
S'attendre à des interruptions de la circulation.

### CITY OF SAINT JOHN PROJECTS

#### CONTINUING / EN COURS :

#### [Contract 2017-19: Water Main Cleaning & Lining – Phase 14](#)

Beginning May 7, 2018 -

This project involves cleaning and lining of cast-iron watermains on the following streets: Duke Street, Germain Street, Queen Street and Saint Andrews Street.

Please observe the construction signage and drive carefully through the construction zone.

Anticipated completion: June 1, 2018

(John Campbell)

#### [Contrat no 2017-19 : nettoyage et revêtement intérieur de la conduite d'eau - Phase 14](#)

Les travaux débuteront le 7 mai 2018 –

Le nettoyage et le revêtement des conduites principales enfente existantes commenceront rue Duke, rue Germain, rue Queen et rue Saint Andrews.

Veuillez respecter la signalisation de construction et conduire prudemment dans la zone de travaux.

La fin des travaux est prévue le 1 juin 2018.

(John Campbell)

#### [Contract 2017-24: Visart Street \(Adelaide Street to Natalie Street\) – Water, Sanitary and Storm Sewer Renewal and Street Reconstruction](#)

Beginning May 7, 2018 –

This project involves the installation of new watermain, sanitary and storm sewers and full street reconstruction including concrete curb and sidewalk and asphalt surface on Visart Street from Adelaide Street to Natalie Street.

During construction Visart Street from Adelaide Street to Natalie Street will be closed to through traffic. Access for local residents will be maintained but some disruptions to access should be expected.


#### [Contrat no 2017-24 : rue Visart \(de la rue Adelaide à la rue Natalie\) renouvellement de la conduite d'eau et des égouts sanitaires et pluviaux, et réfection des rues](#)

À compter du 7 mai 2018 –

Ce projet comprend l'installation d'une nouvelle conduite d'eau principale, d'égouts sanitaires et pluviaux, et de services connexes. Il comprend également la réfection complète de la rue, y compris de nouveaux matériaux grenus, des bordures et des trottoirs en béton.

Pendant les travaux de construction, la rue Visart sera fermée à la circulation entre la rue Adelaide et la rue Natalie. Les résidents auront accès à la rue pendant la durée des travaux de construction, mais il y aura des interruptions à mesure que les travaux progressent.

<p>Please observe the construction signage and drive carefully through the construction zone.</p> <p><b>Anticipated completion: August 24, 2018</b></p> <p><b>(Kevin O'Brien)</b></p>	<p>Veillez respecter la signalisation de construction et conduire prudemment dans la zone de travaux.</p> <p><b>Date de fin des travaux prévue : 24 août 2018</b></p> <p><b>(Kevin O'Brien)</b></p>
<p><b><u>Contract 2018-01 : Asphalt Resurfacing 2018</u></b></p> <p><b>Beginning April 30, 2018 -</b></p> <ul style="list-style-type: none"> <li>• Fairville Boulevard – Manawagonish Road to Kierstead Road</li> <li>• Beach Crescent</li> <li>• Grove Avenue</li> <li>• Harbary Terrace</li> <li>• Vale Crest Drive</li> <li>• Clifton Street – (Includes Concrete curb)</li> <li>• Woodville Road – Chapel Street to Lowell Street (Includes concrete curb and sidewalk work)</li> </ul> <p><b>Beginning May 7, 2018</b></p> <ul style="list-style-type: none"> <li>• Bayside Drive - Grandview Avenue to Expansion Avenue</li> <li>• McIlveen Drive</li> </ul> <p><b>Beginning May 22, 2018</b></p> <ul style="list-style-type: none"> <li>• Brown Street - (Includes concrete curb and sidewalk work)</li> </ul> <p><b>Anticipated completion: June 26, 2018</b></p> <p><b>(Rod Mahaney)</b></p>	<p><b><u>Contrat 2018-01 : Resurfacement d'asphalte 2018</u></b></p> <p><b>À compter du 30 avril 2018 -</b></p> <ul style="list-style-type: none"> <li>• Fairville Boulevard – chemin Manawagonish à chemin Kierstead</li> <li>• croissant Beach</li> <li>• avenue Grove</li> <li>• terrasse Harbary</li> <li>• promenade Vale Crest</li> <li>• rue Clifton – (comprend l'installation de nouveaux bordures béton)</li> <li>• chemin Woodville – rue Chapel à rue Lowell (comprend l'installation de nouveaux bordures béton et le renouvellement de trottoir)</li> </ul> <p><b>À compter du 7 mai 2018 -</b></p> <ul style="list-style-type: none"> <li>• promenade Bayside - l'avenue Grandview à l'avenue Expansion</li> <li>• promenade McIlveen</li> </ul> <p><b>La fin des travaux est prévue le 31 mai 2018.</b></p> <p><b>À compter du 22 mai 2018 -</b></p> <ul style="list-style-type: none"> <li>• rue Brown - (comprend l'installation de nouveaux bordures béton et le renouvellement de trottoir)</li> </ul> <p><b>La fin des travaux est prévue le 26 juin 2018.</b></p> <p><b>(Rod Mahaney)</b></p>
<p><b><u>Contract 2017-17: Bulk Water Dispensing System Upgrades</u></b></p> <p><b>Beginning April 23, 2018</b> – This project involves the installation of a new bulk water dispensing station on King William Road at Alloy Drive and the replacement of the existing station at the Champlain Drive Water Pumping Station. Construction will begin at the King William Road site.</p> <p>Please observe the construction signage. Both lanes of traffic will be maintained on King William Road.</p>	<p><b><u>Contrat n° 2017-17 : Modernisation du système de distribution d'eau en vrac</u></b></p> <p><b>À compter du 23 avril 2018</b> – Ce projet comprend l'installation d'un nouveau poste de distribution d'eau en vrac sur le chemin King William à l'intersection de la promenade Alloy et le remplacement du poste existant au poste de pompage de l'eau de la promenade Champlain. Les travaux commenceront à l'emplacement du chemin King William.</p> <p>Veillez respecter la signalisation de construction. Les deux voies de circulation du chemin King William demeureront toutefois ouvertes.</p>

<p><b>Anticipated completion: June 30, 2018</b></p> <p><b>(Kevin O'Brien)</b></p>	<p><b>Date de fin des travaux prévue : 30 juin 2018</b></p> <p><b>(Kevin O'Brien)</b></p>
	
<p><b><u>Construction Update May 14 – May 18, 2018</u></b></p> <p><b><u>Safe Clean Drinking Water Project (SCDWP)</u></b></p> <p><b><u>Primary Infrastructure</u></b></p> <p><b>Latimore Lake Road – Hickey Road – Grandview Avenue / Latimore Lake Road / Hickey Road Intersection</b></p> <p><b><u>Component 1-1 Water Treatment Plant (WTP)</u></b></p> <p>This project involves the construction of a new, 75 million litres per day WTP on City-owned property at the intersection of Hickey Road and Latimore Lake Road, which will greatly improve the quality of drinking water for Saint John residents and businesses.</p> <p>Work activities currently underway include:</p> <ul style="list-style-type: none"> <li>• Continue architectural, mechanical and electrical installation activities.</li> </ul>	<p><b><u>Mise à jour de la construction 14 mai – 18 mai, 2018</u></b></p> <p><b><u>Projet Eau potable et salubre</u></b></p> <p><b><u>Infrastructure primaire</u></b></p> <p><b>Route du lac Latimore – chemin Hickey – avenue Grandview / route du lac Latimore / intersection du chemin Hickey</b></p> <p><b><u>Élément 1-1 Usine de traitement des eaux</u></b></p> <p>Le projet comprend la construction d'une usine de traitement de 75 millions de litres d'eau par jour sur le terrain municipal situé à l'intersection du chemin Hickey et de la route du lac Latimore pour nettement améliorer la qualité de l'eau potable des résidents et entreprises de Saint John.</p> <p>Activités de travail en cours:</p> <ul style="list-style-type: none"> <li>• Poursuivre les activités d'installation architecturale, mécanique et électrique</li> </ul>
<p><b><u>Additional Infrastructure</u></b></p> <p><b><u>Component 4-1 Water Transmission Piping (Lakewood Heights Pump Station to WTP)</u></b></p> <p>Installation of water transmission piping will continue.</p> <p><b><u>Component 4-2 Water Transmission Piping (WTP to Commerce Drive)</u></b></p> <p>This project involves the installation of new water transmission piping from the new Water Treatment Plant along Hickey Road and Bruce Lane, toward Commerce Drive. Installation of water transmission piping at Champlain Heights will continue.</p>	<p><b><u>Infrastructure additionnelle</u></b></p> <p><b><u>4-1 Tuyauterie de transmission (Station de pompage Lakewood Heights à l'usine de traitement des eaux)</u></b></p> <p>L'installation de tuyaux de transmission de l'eau se poursuivra.</p> <p><b><u>Élément 4-2 Tuyauterie de transmission (usine de traitement des eaux à la promenade Commerce)</u></b></p> <p>Ce projet comprend l'installation d'une nouvelle conduite d'eau à partir de l'usine de traitement des eaux au long du chemin Hickey et l'allée Bruce en direction de la promenade Commerce. L'installation de tuyaux de transmission de l'eau à Champlain Heights se poursuivra.</p>

**Component 5-1 Water Transmission Piping Rehabilitation (Lakewood Heights Pump Station to Westmorland Road)**

Between Ellerdale St & St Joseph's Cemetery Port City Water Partners will be completing new service line upgrades as a phase of the City of Saint John's Safe, Clean Drinking Water Project. Two-way traffic will be reduced to one (1) lane with traffic control in place. At times traffic may be slowed in both directions.

Between Commerce Drive & Champlain Drive, Port City Water Partners will be completing new service line installation across Loch Lomond Rd to the Circle K gas station as an upgrade phase of the City of Saint John's Safe, Clean Drinking Water Project. Two-way traffic will be reduced to one (1) lane with traffic control in place. At times traffic may be slowed in both directions.

At locations along Cindy Lee Street near the intersection at Martha Avenue and Cindy Lee Street, Port City Water Partners will be completing intermittent construction work activities over the next two weeks, as part of the construction phase of the City of Saint John's Safe, Clean Drinking Water Project. At times, traffic will be reduced to one (1) lane with traffic control in place.

**Component 5-2 Rothesay Avenue Water Transmission Piping Rehabilitation**

**Rothesay Avenue:**

Port City Water Partners will be closing the eastbound lanes on Rothesay Avenue, from Thorne Avenue to Mclean Street.

Motorists travelling eastbound on Rothesay Avenue will be merged into one of the two westbound lanes. The other westbound lane will remain open. This traffic deviation will effectively reduce Rothesay Avenue from four lanes to two lanes in either

**Élément 5-1 Réhabilitation de tuyauterie de transmission (station de pompage Lakewood Heights au chemin Westmorland)**

Chemin Westmorland entre Ellerdale et la Cimetière St Joseph, Port City Water Partners procédera à des travaux de branchement latéral visant à améliorer le service. Il s'agit d'une phase du projet Eau potable et salubre de la Ville de Saint John. La circulation sera réduite à une seule voie pour les deux directions. La circulation sera dirigée et, par moment, sera ralentie dans les deux sens.

Chemin Loch Lomond entre Commerce et Champlain, Port City Water Partners procédera à l'installation de conduites de branchement au-delà du chemin Loch Lomond jusqu'au Circle K en vue d'améliorer le service. Il s'agit d'une phase du projet Eau potable et salubre de la Ville de Saint John. La circulation sera réduite à une seule voie pour les deux directions. La circulation sera dirigée et, par moment, sera ralentie dans les deux sens.

A différents endroits rue Cindy Lee près de l'intersection avec l'avenue Martha, Port City Water Partners terminera des travaux qui se dérouleront de façon intermittente au cours des deux prochaines semaines dans le cadre de la phase de construction du projet Eau potable et salubre de la Ville de Saint John. Par moments, la circulation se limitera à une voie et sera dirigée par des signaleurs.

**Élément 5-2 Réhabilitation de tuyauterie de transmission de l'avenue Rothesay**

**Avenue Rothesay:**

Port City Water Partners fermera les voies en direction est de l'avenue Rothesay, entre Thorne et McLean.

Les automobilistes circulant vers l'est sur l'avenue Rothesay seront redirigés vers une des deux voies en direction ouest. L'autre voie en direction ouest restera ouverte. Cela aura pour effet de réduire la circulation sur l'avenue Rothesay de quatre à deux voies pour les deux sens.

La circulation sera ralentie dans les deux sens pour permettre l'installation d'un nouveau service

<p>direction.</p> <p>On occasion, traffic will be slowed in both directions, allowing for the installation of new water services on Rothesay Avenue.</p> <p style="text-align: center;"><b>MacLean Street:</b></p> <p>On MacLean Street from Rothesay Avenue to McLaughlin Crescent and St Catherine Street, Port City Water Partners will be installing/removing temporary water line services and completing the installation of water main as part of the construction phase of the City of Saint John's Safe, Clean Drinking Water Project. Two-way traffic will be reduced to one lane with traffic control in place. At times traffic may be slowed in both directions.</p> <p style="text-align: center;"><b>Russell Street:</b></p> <p>Port City Water Partners will be closing down access to Russell Street from Rothesay Ave to through traffic for a period of six weeks.</p> <p><b>Motorist travelling eastbound</b> on Rothesay Ave to Russell Street will be detoured onto Seely Street ramp, onto Seely Street and back onto Russell Street.</p> <p><b>Motorist travelling westbound</b> on Rothesay Ave to Russell Street will still be able to turn south onto Seely Street Ramp, onto Seely Street and back onto Russell Street.</p> <p><b>Motorist travelling northbound</b> on Russell Street will only be permitted to turn eastbound onto Rothesay Ave.</p> <p><b>Businesses within the construction zone are open</b> and will remain accessible to the public while the work is underway.</p> <p>The road will also remain accessible to emergency service vehicles and local area residents.</p>	<p>d'approvisionnement d'eau avenue Rothesay.</p> <p style="text-align: center;"><b>Rue MacLean:</b></p> <p>A la rue McLean, entre Rothesay et McLaughlin et rue St Catherine près de l'intersection de la rue McLean, Port City Water Partners installera et enlèvera des tuyaux d'alimentation d'eau temporaires pour permettre l'installation de conduites principales dans le cadre de la phase de construction du projet Eau potable et salubre de la Ville de Saint John. La circulation à double sens sera réduite à une seule voie et dirigée. Par moments, elle sera ralentie dans les deux directions.</p> <p style="text-align: center;"><b>Rue Russell:</b></p> <p>Port City Water Partners fermera l'accès direct à la rue Russell à partir de l'avenue Rothesay pour une période de six semaines.</p> <p><b>Les automobilistes qui se déplacent en direction est</b> sur l'avenue Rothesay vers la rue Russell seront déviés vers la bretelle de la rue Seely; la rue Seely les ramènera à la rue Russell.</p> <p><b>Les automobilistes qui se déplacent en direction ouest</b> sur l'avenue Rothesay vers la rue Russell pourront encore tourner sur la bretelle sud de la rue Seely; la rue Seely les ramènera à la rue Russell.</p> <p><b>Les automobilistes qui se déplacent en direction nord</b> rue Russell n'auront accès à l'avenue Rothesay qu'en direction est.</p> <p><b>Les commerces et entreprises de cette zone de construction resteront ouverts</b> et accessibles pendant toute la durée des travaux.</p> <p>La zone demeurera accessible aux véhicules d'urgence et aux résidents du secteur.</p>
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SAINT JOHN

# WEEKLY CONSTRUCTION UPDATE

Municipal Operations and Engineering  
Ingénierie et opérations municipales  
(506) 658-4455 Fax/Télécopieur : (506) 658-4740

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The City of Saint John

**Construction Update/Nouvelles hebdomadaires**

**Oct 19, 2018 /le 19 oct 2018**

**Drive with Caution or Use Alternate Routes  
Police Will Be Monitoring Traffic  
Expect Traffic Interruptions**

**Conduisez prudemment ou utilisez un trajet de rechange.  
La police surveillera la circulation.  
S'attendre à des interruptions de la circulation.**

## CITY OF SAINT JOHN PROJECTS

### CONTINUING / EN COURS :

#### Contract 2018-06: Sanitary Sewer Structural Lining

Crews will be lining sections of the sanitary sewer on Currie Avenue between Pugsley Avenue and Balfour Street, Mill Street, Paddock Street from Paddock Street to Cliff Street, Princess Street from Wentworth Street to Carmarthen Street and Jack's Field from Wright Street to Gooderich Street

Please observe the construction signs and drive carefully through the construction zones.

Watch out for the workers.

**Completion Date October 31, 2018**

**(Joel Landers)**

#### Contrat n° 2018-09: revêtement des égouts sanitaires

Le revêtement des égouts sanitaires commencera :

- avenue Currie
- rue Balfour
- rue Paddock (entre rue Paddock et rue Cliff)
- rue Princess (entre rue Wentworth et rue Carmarthen)
- Jack's Field (entre rue Wright et rue Gooderich)

Veillez respecter la signalisation de construction et faire preuve de prudence dans les zones de travaux.

Observez dehors pour les travailleurs.

**La fin des travaux est prévue le 31 octobre 2018.**

**(Joel Landers)**

#### Contract 2018-08: Water Main Cleaning & Lining – Phase 15

##### **Beginning August 7, 2018 -**

This project involves cleaning and lining of cast-iron water mains on the following streets: Sussex Drive, Princess Street, Queen Street, Sydney Street, Margaret Street, Britain Street, Broadview Avenue, Swanton Street, Muriel Avenue, Rosedale Crescent, Alexandra Street, Allison Street and Milford Road.

Please observe the construction signage and drive carefully through the construction zone.

**Anticipated completion: October 31, 2018**

**(John Campbell)**

#### Contrat no 2018-08 : Nettoyage et revêtement intérieur de la conduite d'eau - Phase 15

##### **Les travaux débuteront le 7 août 2018 –**

Le nettoyage et le revêtement des conduites principales en fonte existantes commenceront promenade Sussex, rue Princess, rue Queen, rue Sydney, rue Margaret, rue Britain, avenue Broadview, rue Swanton, avenue Muriel, croissant Rosedale, rue Alexandra, rue Allison et chemin Milford.

Veillez respecter la signalisation de construction et conduire prudemment dans la zone de travaux.

**La fin des travaux est prévue le 31 octobre 2018.**

**(John Campbell)**

<p><b><u><a href="#">Contract 2018-09: Westgate Park 2018 Storm Sewer Improvements</a></u></b></p> <p><b>Beginning July 9, 2018</b> – This project involves completing storm sewer upgrades in various locations throughout Westgate Park, including Mountfield Crescent, Acorn Drive and Erin Court. These upgrades will include installing new storm sewer pipes and catchbasins as well as constructing/redefining overland swales.</p> <p>Please observe the construction signage and drive carefully through the construction zones.</p> <p><b>Anticipated completion: November 2, 2018</b></p> <p><b>(Susan Steven-Power)</b></p>	<p><b><u><a href="#">Contrat No. 2018-09 - Améliorations au canal de drainage des eaux pluviales de Parc Westgate</a></u></b></p> <p><b>À compter du 9 juillet 2018</b> - Ce projet vise à moderniser le réseau d'égout pluvial à divers endroits dans le parc Westgate, dont le croissant Mountfield, la promenade Acorn et la cour Erin. Ces améliorations comprendront l'installation de nouvelles conduites et puisards des eaux pluviales, ainsi que la modification de canaux.</p> <p>Veillez respecter la signalisation de construction et conduire prudemment dans la zone de travaux.</p> <p><b>La fin des travaux est prévue le 2 novembre 2018.</b></p> <p><b>(Susan Steven-Power)</b></p>
<p><b><u><a href="#">Contract 2017-10: Morna Heights and Greenwood Subdivision – Wastewater Treatment Facility Upgrades</a></u></b></p> <p><b>Beginning June 11, 2018</b></p> <p>This project involves the installation of new wastewater treatment facilities to replace existing facilities located at 139 Bay Crescent Drive and 173 Karen Street. The existing facilities will be demolished once the new treatment facilities are in operation. The work involves the construction of a small control building and new underground infrastructure at each of the two locations.</p> <p>During construction there will be minimal traffic disruptions as the majority of the work will be contained to the two properties; however, construction crews and associated traffic will be present. Please observe the construction signage and drive carefully through the construction zone.</p> <p><b>Anticipated completion: June 30, 2019</b></p> <p><b>(Kevin O'Brien)</b></p>	<p><b><u><a href="#">Contrat no 2017-10 : Lotissement Morna Heights et lotissement Greenwood – Modernisation de l'installation de traitement des eaux usées</a></u></b></p> <p><b>À compter du 11 juin 2018</b></p> <p>Ce projet comprend l'aménagement de nouvelles installations de traitement des eaux usées pour remplacer les installations existantes situées au 139, promenade Bay Crescent et au 173, rue Karen. Les installations existantes seront démolies lorsque les nouvelles installations de traitement seront opérationnelles. Les travaux comprennent la construction d'un petit bâtiment de commande et de la nouvelle infrastructure souterraine à chacun des deux emplacements.</p> <p>La perturbation de la circulation sera minimale pendant la construction puisque la majorité des travaux seront limités aux deux propriétés. Toutefois, les équipes de construction et la circulation connexe seront présentes. Veuillez respecter la signalisation de construction et conduire prudemment dans la zone de travaux.</p> <p><b>La fin des travaux est prévue le 30 juin 2019.</b></p> <p><b>(Kevin O'Brien)</b></p>



**Contract 2018-01 : Asphalt Resurfacing 2018**

This project involves the installation of concrete curb, sidewalk renewal and asphalt resurfacing:

	<u>Start</u>	<u>Finish</u>
Westmount Dr.	May 29, 2018	October 19, 2018
Manawagonish Road – Kierstead Road to O’Brien Street		October 22, 2018
Westmorland Road – Ellerdale Street to Consumers Drive		October 21, 2018
Consumers Drive – Westmorland Road to Mall Entrance		October 21, 2018

(Rod Mahaney)

**Contrat 2017-13 : Resurfacement d’asphalte 2018**

Ce projet comprend l’installation de nouvelles bordures béton, un revêtement asphaltique et le renouvellement des trottoirs :

	<u>Début</u>	<u>Fin</u>
promenade Westmount	29 mai 2018	19 oct 2018
Chemin Manawagonish – chemin Kierstead à rue O’Brien		22 oct 2018
chemin Westmorland – rue Ellerdale à promenade Consumers		21 oct 2018
Promenade Consumers – chemin Westmorland à entrée du centre commercial		21 oct 2018

(Rod Mahaney)



**Construction Update October 22 – October 26, 2018**

**Safe Clean Drinking Water Project (SCDWP)**

**Primary Infrastructure**

**Latimore Lake Road – Hickey Road – Grandview Avenue / Latimore Lake Road / Hickey Road Intersection**

**Component 1-1 Water Treatment Plant (WTP)**

This project involves the construction of a new, 75 million litres per day WTP on City-owned property at the intersection of Hickey Road and Latimore Lake Road, which will greatly improve the quality of drinking water for Saint John residents and businesses.

**Mise à jour de la construction 22 oct – 26 oct, 2018**

**Projet Eau potable et salubre**

**Infrastructure primaire**

**Route du lac Latimore – chemin Hickey – avenue Grandview / route du lac Latimore / intersection du chemin Hickey**

**Élément 1-1 Usine de traitement des eaux**

Le projet comprend la construction d’une usine de traitement de 75 millions de litres d’eau par jour sur le terrain municipal situé à l’intersection du chemin Hickey et de la route du lac Latimore pour nettement améliorer la qualité de l’eau potable des résidents et entreprises de Saint John.



<p>Work activities currently underway include:</p> <ul style="list-style-type: none"> <li>• Continue operations.</li> </ul>	<p>Activités de travail en cours:</p> <ul style="list-style-type: none"> <li>• Poursuivre les activités d'opération.</li> </ul>
<p><b><u>Additional Infrastructure</u></b></p> <p><b><u>Component 3-1 Robertson Lake Dam Upgrades</u></b></p> <p>Rehabilitation activities to Robertson Lake Dam will continue.</p> <p><b><u>Component 3-2 – Latimer Lake Dam and Intakes</u></b></p> <p>Upgrades to the intake piping at Latimer Lake will continue.</p> <p><b><u>Component 4-1 Water Transmission Piping (Lakewood Heights Pump Station to WTP)</u></b></p> <p>Installation of water transmission piping will continue between Lakewood Heights Pump Station and the Water Treatment Plant.</p> <p><b><u>Component 4-2 Water Transmission Piping (WTP to Commerce Drive)</u></b></p> <p>On Hickey Road, between Latimore lake Road and Loch Lomond Road Port City Water Partners will be completing intermittent construction work activities as part of the construction phase of the City of Saint John's Safe, Clean Drinking Water Project. At times, traffic will be reduced to one lane with traffic control.</p> <p><b><u>Component 4-4 East Pressure Modifications</u></b></p> <p>On John T. McMillan Avenue, between Belgian Road and Golden Grove Road, Port City Water Partners will be continuing construction work which is required to install new water mains as part of the construction phase of the City of Saint John's Safe Clean Drinking Water Project. At times, Traffic will be reduced to one lane in both directions with a Traffic standards setup.</p> <p>Port City Water Partners will be doing construction work on Glengarry Road, between Westmorland Road and Elgin Road as part of the construction phase of the City of Saint John's Safe Clean Drinking Water Project. At times, Traffic will be reduced to one lane in both directions with a Traffic standards setup.</p>	<p><b><u>Additional Infrastructure</u></b></p> <p><b><u>Élément 3-1- Mises à Niveau du Barrage Lac Robertson</u></b></p> <p>Les activités de réhabilitation du barrage de Robertson Lake se poursuivront.</p> <p><b><u>Élément 3-2 - Barrage de Lac Latimer et Prises d'eau</u></b></p> <p>Les améliorations à la tuyauterie d'admission au lac Latimer se poursuivront.</p> <p><b><u>Élément 4-1 Tuyauterie de transmission (Station de pompage Lakewood Heights à l'usine de traitement des eaux)</u></b></p> <p>L'installation de tuyaux de transmission de l'eau se poursuivra à station de pompage Lakewood Heights jusqu'à l'usine de traitement des eaux.</p> <p><b><u>Élément 4-2 Tuyauterie de transmission (usine de traitement des eaux à la promenade Commerce)</u></b></p> <p>Au chemin Hickey, entre le chemin Latimore Lake et chemin Loch Lomond, Port City Water Partners effectuera des travaux intermittents dans le cadre de la phase de construction du projet Eau potable et salubre de la Ville de Saint John. Par moment, la circulation se limitera à une voie et sera dirigée par des signaleurs.</p> <p><b><u>Élément 4-4 Modifications de la Pression à l'est</u></b></p> <p>Sur l'avenue John T. McMillan, entre Belgian Road et Golden Grove Road, Port City Water Partners poursuivra les travaux de construction nécessaires pour installer de nouvelles conduites d'eau dans le cadre de la phase de construction du projet d'eau potable salubre de la ville de Saint John. À certains moments, le trafic sera réduit à une voie dans les deux directions avec une configuration de normes de circulation.</p> <p>Port City Water Partners poursuivra les travaux de construction au chemin Glengarry, entre chemin Westmorland et chemin Elgin pour installer de nouvelles conduites de transmission d'eau, dans le cadre de la phase de construction du projet Eau potable et salubre</p>

At Mountain Road and Morley Crescent intersection, and on Westmorland Road, between Glengarry Road and Mountain Road, Port City Water Partners will be doing construction work which is required to install new water transmission mains, as part of the construction phase of the City of Saint John's Safe Clean Drinking Water Project. At times, Traffic will be reduced to one lane in both directions with a Traffic standards setup.

de la Ville de Saint John. À temps, le trafic sera réduit à une voie dans les deux directions avec une configuration de normes de circulation.

À l'intersection de la chemin Mountain et de la croissant Morley, et sur chemin Westmorland, entre chemin Glengarry et chemin Mountain, Port City Water Partners poursuivra les travaux de construction nécessaires pour installer de nouvelles conduites de transmission d'eau, dans le cadre de la phase de construction du projet Eau potable et salubre de la Ville de Saint John. À temps, le trafic sera réduit à une voie dans les deux directions avec une configuration de normes de circulation.

# Appendix N

## Public Communication

## **BOIL WATER ORDER**

*Français à suivre*

January 5<sup>th</sup>, 2018

This was an Advisory.

**15, 29 King Street West**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

05 Janvier 2018

**15, 19 rue King Ouest**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Advisory has been rescinded***

January 11<sup>th</sup> 2018

**15, 29 King Street West**

Please be advised that effective immediately, the Boil Water Advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

Le 11 janvier, 2018

**15, 29 King Street West**

Veillez prendre note que l'avis de faire bouillir l'eau a été annulé. Cet avis est en vigueur dès maintenant.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle au 658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

January 25<sup>th</sup>, 2018

**Civic 20 – 291 Industrial Drive**  
**Civic 430 – 460 Grandview avenue**  
**Irving Oil Refinery (Grandview Avenue Services)**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.



## Ordre de bouillir l'eau

Le 25 Janvier 2018

**Civic 20 – 291 Industrial Drive**  
**Civic 430 – 460 Grandview avenue**  
**Irving Oil Refinery (avenue Grandview)**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accru devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.

## **BOIL WATER ORDER**

*Français à suivre*

January 26<sup>th</sup>, 2018

**Civic 730-1185 Bayside Drive**  
**Civic 11-125 Expansion Avenue**  
**Civic 9 Declaration Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 26 Janvier 2018

**Civic 730-1185 Bayside Drive**  
**Civic 11-125 Expansion Avenue**  
**Civic 9 Declaration Street**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accru devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

January 29<sup>th</sup>, 2018

**Civic 20 – 291 Industrial Drive**  
**Civic 430 – 460 Grandview avenue**  
**Irving Oil Refinery (Grandview Avenue Services)**  
**Civic 730-1185 Bayside Drive**  
**Civic 11-125 Expansion Avenue**  
**Civic 9 Declaration Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

29 Janvier 2018

**Civic 20 – 291 Industrial Drive**  
**Civic 430 – 460 Grandview avenue**  
**Irving Oil Refinery (Grandview Avenue Services)**  
**Civic 730-1185 Bayside Drive**  
**Civic 11-125 Expansion Avenue**  
**Civic 9 Declaration Street**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

21 February 2018

**Civic 201-241 Hawthorne Ave Ext.**

**Civic 1 Sandy Point Rd**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 21 févr. 18

**Civic 201-241 Hawthorne Ave Ext.**

**Civic 1 Sandy Point Rd**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

February 26<sup>th</sup> 2018

**Civic 201-241 Hawthorne Ave Ext.**

**Civic 1 Sandy Point Rd**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.





***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

26 Fevrier 2018

**Civic 201-241 Hawthorne Ave Ext.  
Civic 1 Sandy Point Rd**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

February 23, 2018

**4 – 33 Reed Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 23 février 2018

**4 – 33 rue Reed**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**February 27<sup>th</sup> 2018**

**4 – 33 Reed Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

27 Fevrier 2018

**4 – 33 Reed Street**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

April 25th, 2018

**277, 287 St James Street**

**521 – 541 Crown Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 25 avril 2018

**277, 287 St James Street**

**521 – 541 Crown Street**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les bénéficiaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**April 29<sup>th</sup> 2018**

**277, 287 St James Street**

**521 – 541 Crown Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.





***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

29 avril 2018

**277, 287 St James Street**

**521 – 541 Crown Street**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

May 3<sup>rd</sup> 2018

**87 – 117 Dexter Drive**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure upgrade, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 3 mai 2018

### 87 – 117 promenade Dexter

#### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

##### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**May 5<sup>th</sup> 2018**

**87 – 117 Dexter Drive**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 5 mai 2018

**87 – 117 promenade Dexter**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

May 8<sup>th</sup> 2018

**157 – 200 Visart Street**

**40 Natalie Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure upgrade, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 8 mai 2018

**157 – 200 rue Visart**

**40 rue Natalie**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les bénéficiaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**May 9<sup>th</sup> 2018**

**157 – 182 Visart Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.



***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 9 mai 2018

**157 – 182 rue Visart**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.



***Effective immediately, the Boil Water Order has been rescinded***

**May 11<sup>th</sup> 2018**

**186 – 200 Visart Street**

**40 Natalie Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 11 mai 2018

**186 – 200 rue Visart  
40 rue Natalie**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ADVISORY**

*Français à suivre*

May 15, 2018

**174, 226 Pitt Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water advisory has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water advisory to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## AVIS DE FAIRE BOUILLIR L'EAU

15 mai 2018

**174, 226 rue Pitt**

### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

#### POURQUOI?

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un avis de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Advisory has been rescinded***

**May 22<sup>nd</sup>, 2018**

**174, 226 Pitt Street**

Please be advised that effective immediately, the Boil Water Advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

**Le 22 mai, 2018**

**174, 226 Pitt Street**

Veillez prendre note que l'avis de faire bouillir l'eau a été annulé. Cet avis est en vigueur dès maintenant.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle au 658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

May 16<sup>th</sup> 2018

**20 – 36 Mountain Rd**

**335 McAllister Drive**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.



## Ordre de bouillir l'eau

Le 16 mai 2018

**20 – 36 chemin Mountain**

**335 promenade McAllister**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les bénéficiaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**May 20<sup>th</sup>, 2018**

**20 – 36 Mountain Rd  
335 McAllister Drive**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

20 Mai 2018

**20 – 36 chemin Mountain  
335 promenade McAllister**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

May 24<sup>th</sup> 2018

**157 – 182 Visart Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of a break in the temporary water supply line, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 24 mai 2018

**157 – 182 rue Visart**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc temporaire, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**May 28<sup>th</sup> 2018**

**157 – 182 Visart Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 28 mai 2018

**157 – 182 rue Visart**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

May 31st 2018

**832-961 McCavour Drive**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.



## Ordre de bouillir l'eau

Le 31 mai 2018

**832-961 promenade McCavour**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**June 4<sup>th</sup> 2018**

**832-961 McCavour Drive**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 4 juin 2018

**832-961 promenade McCavour**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

June 5th 2018

**1100(Hillcrest village) 1081, 1076, 1065/1067, 1059 and 1046-1048 Manawagonish Road**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 5 juin 2018

**1100(hillcrest village) 1081, 1076, 1065/1067, 1059 et 1046-1048 rue Manawagonish**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**June 8<sup>th</sup> 2018**

**1100(Hillcrest village) 1081, 1076, 1065/1067, 1059 and 1046-1048 Manawagonish  
Road**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 8 juin 2018

**1100(hillcrest village) 1081, 1076, 1065/1067, 1059 et 1046-1048 rue Manawagonish**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

June 6th 2018

**19-98 Spring Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure upgrade, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.



## Ordre de bouillir l'eau

Le 6 juin 2018

**19-98 rue Spring**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les bénéficiaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**June 10<sup>th</sup> 2018**

**19-98 Spring Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 10 juin 2018

**19-98 rue Spring**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

June 19<sup>th</sup> 2018

**42, 55, 66, 70, 72 Leinster Street**

**53, 55, 58, 59, 60, 61, 62, 90, 92, 94, 96, 98 Carmarthen Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure upgrade, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 19 juin 2018

**42, 55, 66, 70, 72 rue Leinster**

**53, 55, 58, 59, 60, 61, 62, 90, 92, 94, 96, 98 rue Carmarthen**

### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

#### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

June 22<sup>nd</sup>, 2018

**42, 55, 66, 70, 72 Leinster Street**  
**53, 55, 58, 59, 60, 61, 62, 90, 92, 94, 96, 98 Carmarthen Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 22 juin 2018

**42, 55, 66, 70, 72 rue Leinster**

**53, 55, 58, 59, 60, 61, 62, 90, 92, 94, 96, 98 rue Carmarthen**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

25 July, 2018

**217 Westmorland Rd**

**7-29 Hockey St**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.



## Ordre de bouillir l'eau

Le 25 juillet 2018

### 217 route Westmorland 7-29 rue Hockey

#### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

##### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



*Effective immediately, the Boil Water Order has been rescinded*

July 29<sup>th</sup> 2018

**217 Westmorland Rd**  
**7-29 Hockey St**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 29 juillet 2018

**217 chemin Westmorland**  
**7-29 rue Hockey**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

31 July, 2018

### **640 & 644 Rothesay Ave 8 Ford Ave**

#### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 31 juillet 2018

### 640 & 644 rue Rothesay 8 rue Ford

#### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

##### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**3 Aug 2018**

**640 & 644 Rothesay Ave  
8 Ford Ave**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

**Le 3 Aout 2018**

**640 & 644 rue Rothesay**  
**8 rue Ford**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ADVISORY**

*Français à suivre*

August 15, 2018

**1 Sandy Point Road  
201-241 Hawthorne Avenue Extension**

### **WARNING: BOIL WATER BEFORE USING**

A boil water advisory has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water advisory to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.





***Effective immediately, the Boil Water Advisory has been rescinded***

August 20<sup>th</sup> 2018

**1 Sandy Point Road  
201-241 Hawthorne Avenue Extension**

Please be advised that effective immediately, the Boil Water Advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

Le 20 aout, 2018

**1 chemin Sandy Point  
201-241 avenue Hawthorne Extension**

Veillez prendre note que l'avis de faire bouillir l'eau a été annulé. Cet avis est en vigueur dès maintenant.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

August 17<sup>th</sup> 2018

**185 – 233 Westmorland Road**

**7 – 14 Floral Street**

**7 – 29 Hockey Street**

**7 – 28 Fern Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 17 août 2018

**185 – 233 Chemin Westmorland**

**7 – 14 rue Floral**

**7 – 29 rue Hockey**

**7 – 28 rue Fern**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**August 20<sup>th</sup> 2018**

**185 – 233 Westmorland Road**

**7 – 14 Floral Street**

**7 – 29 Hockey Street**

**7 – 28 Fern Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 20 août 2018

**185 – 233 chemin Westmorland**

**7 – 14 rue Floral**

**7 – 29 rue Hockey**

**7 – 28 rue Fern**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulé pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

August 20<sup>th</sup> 2018

**3 – 25 Cameron Ct  
206 Osborne Avenue**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 20 août 2018

**3 – 25 court Cameron  
206 avenue Osborne**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.





***Effective immediately, the Boil Water Order has been rescinded***

**August 23<sup>th</sup> 2018**

**3 – 25 Cameron Ct  
206 Osborne Avenue**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.



***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 23 août 2018

**3 – 25 Cameron Ct  
206 Osborne Avenue**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

August 27<sup>th</sup> 2018

**177 – 321 Glen Road  
20 – 88 Glenview Drive  
219 – 244 Purdy Drive  
319 - 337 Collin Avenue  
1 – 7 Brook Court  
220 – 303 Simpson Drive Extension  
2 – 59 Morgan Road**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 27 août 2018

**177 – 321 chemin Glen**  
**20 – 88 promenade Glenview**  
**219 – 244 promenade Purdy**  
**319 - 337 avenue Collin**  
**1 – 7 court Brook**  
**220 – 303 Simpson Drive Extension**  
**2 – 59 chemin Morgan**

### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

#### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

September 3<sup>rd</sup> 2018

**177 – 321 Glen Road  
20 – 88 Glenview Drive  
219 – 244 Purdy Drive  
319 - 337 Collin Avenue  
1 – 7 Brook Court  
220 – 303 Simpson Drive Extension  
2 – 59 Morgan Road**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 3 Septembre 2018

**177 – 321 chemin Glen  
20 – 88 promenade Glenview  
219 – 244 promenade Purdy  
319 - 337 avenue Collin  
1 – 7 court Brook  
220 – 303 Simpson Drive Extension  
2 – 59 chemin Morgan**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec le **Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

August 30<sup>th</sup> 2018

**22 – 66 Crescent Avenue  
1610, 1627, 1628, 1638, 1654, 1664 & 1674 Loch Lomond Road**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 30 août 2018

**22 – 66 avenue Crescent  
1610, 1627, 1628, 1638, 1654, 1664 & 1674 chemin Loch Lomond**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.





***Effective immediately, the Boil Water Order has been rescinded***

September 3<sup>rd</sup> 2018

**22 – 66 Crescent Avenue  
1610, 1627, 1628, 1638, 1654, 1664 & 1674 Loch Lomond Road**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 3 Septembre 2018

**22 – 66 avenue Crescent**

**1610, 1627, 1628, 1638, 1654, 1664 & 1674 chemin Loch Lomond**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec le **Service à la clientèle** au **658-4455**.

## **BOIL WATER ADVISORY**

*Français à suivre*

4 September 2018

**484 - 555 Gault Rd**

### **WARNING: BOIL WATER BEFORE USING**

A boil water advisory has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water advisory to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## AVIS DE FAIRE BOUILLIR L'EAU

4 septembre 2018

**484 - 555 route Gault**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un avis de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les bénéficiaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Advisory has been rescinded***

September 7<sup>th</sup> 2018

**484 - 555 Gault Rd**

Please be advised that effective immediately, the Boil Water Advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

**Le 7 septembre 2018**

**484 – 555 chemin Gault**

Veillez prendre note que l'avis de faire bouillir l'eau a été annulé. Cet avis est en vigueur dès maintenant.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

September 12<sup>th</sup> 2018

**92, 102 Tilley Lane**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 12 septembre 2018

**92, 102 Tilley Lane**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.





***Effective immediately, the Boil Water Order has been rescinded***

**September 15<sup>th</sup> 2018**

**92, 102 Tilley Lane**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 15 Septembre 2018

**92, 102 Tilley Lane**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec le **Service à la clientèle** au **658-4455**.

## BOIL WATER ORDER

*Français à suivre*

September 12<sup>th</sup> 2018

**7 – 27, 31, 40 Wellington Row**  
**119 Union Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 12 septembre 2018

**7 – 27, 31, 40 rang Wellington**

**119 rue Union**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accru devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



*Effective immediately, the Boil Water Order has been rescinded*

September 15<sup>th</sup> 2018

**7 – 27, 31, 40 Wellington Row  
119 Union Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 15 Septembre 2018

**7 – 27, 31, 40 Wellington Row**  
**119 Union Street**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle au 658-4455**.

## BOIL WATER ORDER

*Français à suivre*

September 13<sup>th</sup> 2018

**9 – 88 Mountfield Crescent**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 13 septembre 2018

**9 – 88 Mountfield Crescent**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.





***Effective immediately, the Boil Water Order has been rescinded***

**September 17th 2018**

## **9 – 88 Mountfield Crescent**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

### **What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 17 Septembre 2018

**9 – 88 Mountfield Crescent**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

September 14<sup>th</sup> 2018

**155 Mystery Lake Drive**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure interruption, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 14 septembre 2018

### 155 promenade Mystery Lake

#### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

##### POURQUOI?

À la suite d'une interruption du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**18 September 2018**

**155 Mystery Lake Drive**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 18 septembre

**155 rue Mystery Lake**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

20 September 2018

### **133 – 226 Union Street**

#### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 20 Septembre 2018

### 133 – 226 Rue Union

#### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

##### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.





***Effective immediately, the Boil Water Order has been rescinded***

September 30<sup>th</sup> 2018

## **133 – 226 Union Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

### **What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 30 septembre 2018

## 133 – 226 rue Union

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

### **Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

28 September 2018

**100 Eugene's Way  
4 – 181 Garnett Rd.  
77-85 Josselyn Ct.  
4 – 139 Josselyn Rd.  
937, 977, 999, 1015, 1103 & 1115 Loch Lomond Rd.  
4 – 16 Myles Dr.  
4 – 21 Silverstone St.  
2 – 12 Westbrook Av.**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 28 Septembre 2018

**100 voie Eugene's  
4 – 181 chemin Garnett  
77-85 cour Josselyn  
4 – 139 chemin Josselyn  
937, 977, 999, 1015, 1103 & 1115 chemin Loch Lomond  
4 – 16 promenade Myles  
4 – 21 rue Silverstone  
2 – 12 avenue Westbrook**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**October 1<sup>st</sup> 2018**

**100 Eugene's Way  
4 – 181 Garnett Rd.  
77-85 Josselyn Ct.  
4 – 139 Josselyn Rd.  
937, 977, 999, 1015, 1103 & 1115 Loch Lomond Rd.  
4 – 16 Myles Dr.  
4 – 21 Silverstone St.  
2 – 12 Westbrook Av**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

**October 1<sup>st</sup> 2018**

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 1<sup>er</sup> octobre 2018

**100 voie Eugene's  
4 – 181 chemin Garnett  
77-85 cour Josselyn  
4 – 139 chemin Josselyn  
937, 977, 999, 1015, 1103 & 1115 chemin Loch Lomond  
4 – 16 promenade Myles  
4 – 21 rue Silverstone  
2 – 12 avenue Westbrook**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec le **Service à la clientèle** au **658-4455**.

## BOIL WATER ORDER

*Français à suivre*

October 15<sup>th</sup> 2018

**66 Sydney Street**

**71 Sydney Street**

**20 Leinster Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of a reduction of pressure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 15 octobre 2018

**66 rue Sydney**

**71 rue Sydney**

**20 rue Leinster**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une perte de pression, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accru devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**October 18 2018**

**66 Sydney Street**

**71 Sydney Street**

**20 Leinster Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 18 Octobre 2018

**66 Sydney Street**

**71 Sydney Street**

**20 Leinster Street**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

October 18, 2018

**136 Glen Road**  
**8 – 70 Belgian Road**  
**1 John T. McMillan Avenue**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 18 Octobre, 2018

**136 Rue Glen**

**8 – 70 Rue Belgian**

**1 Avenue John T. McMillan**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.

***Effective immediately, the Boil Water Order has been rescinded***

October 21 2018

**136 Glen Road  
8 – 70 Belgian Road  
1 John T. McMillan Avenue**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 21 Octobre 2018

**136 Rue Glen**  
**8 – 70 Rue Belgian**  
**1 Avenue John T. McMillan**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

October 25, 2018

**545 – 691 Michael Crescent**

**210 – 212 Cindy Lee Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 25 Octobre, 2018

**545 – 691 crois. Michael**

**210 – 212 rue Cindy Lee**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accru devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.





*Effective immediately, the Boil Water Order has been rescinded*

October 29 2018

**545 – 691 Michael Crescent**  
**210 – 212 Cindy Lee Street**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 29 Octobre 2018

**545 – 691 crois. Michael**  
**210 – 212 rue Cindy Lee**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## BOIL WATER ORDER

*Français à suivre*

November 5, 2018

From	To	Street
557	744	Westmorland Road
2	40	Skyline Drive
3	63	Harmony Drive
140	245	Golden Grove Road
1	60	John T. McMillan Avenue
7	15	Upland Road
1	23	Reading Crescent
10	22	Roxbury Drive
1	36	Longview Court
45	405	Coldbrook Crescent
120	155	Mystery Lake Drive
1	10	Essex Street East

### WARNING: BOIL WATER BEFORE USING

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### What happened?

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### What should you do?

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### What is being done?

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 5 novembre, 2018

de	a	Rue
557	744	chemin Westmorland
2	40	promenade Skyline
3	63	promenade Harmony
140	245	chemin Golden Grove
1	60	avenue John T. McMillan
7	15	chemin Upland
1	23	croissant Reading
10	22	promenade Roxbury
1	36	cour Longview
45	405	croissant Coldbrook
120	155	promenade Mystery Lake
1	10	rue Essex

### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

#### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accru devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir. Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.

## **BOIL WATER ORDER**

*Français à suivre*

November 5, 2018

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 5 novembre, 2018

de	a	Rue
557	744	chemin Westmorland
2	40	promenade Skyline
3	63	promenade Harmony
140	245	chemin Golden Grove
1	60	avenue John T. McMillan
7	15	chemin Upland
1	23	croissant Reading
10	22	promenade Roxbury
1	36	cour Longview
45	405	croissant Coldbrook
120	155	promenade Mystery Lake
1	10	rue Essex

### ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER

#### POURQUOI?

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### Que faire?

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accru devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### Comment remédier au problème?

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir. Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.

***Effective immediately, the Boil Water Order has been rescinded***

**November 13 2018**

<b>From</b>	<b>To</b>	<b>Street</b>
<b>557</b>	<b>744</b>	<b>Westmorland Road</b>
<b>2</b>	<b>40</b>	<b>Skyline Drive</b>
<b>3</b>	<b>63</b>	<b>Harmony Drive</b>
<b>140</b>	<b>245</b>	<b>Golden Grove Road</b>
<b>1</b>	<b>60</b>	<b>John T. McMillan Avenue</b>
<b>7</b>	<b>15</b>	<b>Upland Road</b>
<b>1</b>	<b>23</b>	<b>Reading Crescent</b>
<b>10</b>	<b>22</b>	<b>Roxbury Drive</b>
<b>1</b>	<b>36</b>	<b>Longview Court</b>
<b>45</b>	<b>405</b>	<b>Coldbrook Crescent</b>
<b>120</b>	<b>155</b>	<b>Mystery Lake Drive</b>
<b>1</b>	<b>10</b>	<b>Essex Street East</b>

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 13 novembre 2018

de	a	Rue
557	744	chemin Westmorland
2	40	promenade Skyline
3	63	promenade Harmony
140	245	chemin Golden Grove
1	60	avenue John T. McMillan
7	15	chemin Upland
1	23	croissant Reading
10	22	promenade Roxbury
1	36	cour Longview
45	405	croissant Coldbrook
120	155	promenade Mystery Lake
1	10	rue Essex

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.



***Effective immediately, the Boil Water Order has been rescinded***

**November 13 2018**

**Glengarry Drive**

**Elgin Rd**

**Kervin Rd**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 13 novembre 2018

**Promenade Glengarry**

**Chemin Elgin**

**Chemin Kervin**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec le **Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

15 November 2018

**244- 264 Duke Street West**  
**Building 1 (Church) & Building 2 (Seniors Apartments) at**  
**285 Carleton Kirk Place**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 15 Novembre 2018

### **244-264 Rue Duke (Ouest) Batiment 1 (Eglise) & Batiment 2 (Les aines appartements) at 285 pl. Carleton Kirk**

#### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

##### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.

*Effective immediately, the Boil Water Order has been rescinded*

November 19 2018

**244- 264 Duke Street West  
Building 1 (Church) & Building 2 (Seniors Apartments) at  
285 Carleton Kirk Place**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 19 novembre 2018

**244-264 Rue Duke (Ouest)  
Batiment 1 (Eglise) & Batiment 2 at 285 pl. Carleton Kirk**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

November 20<sup>th</sup>, 2018

**Lord Beaverbrook Rink**  
**536 Main Street**

This was actually an  
Advisory

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 20 novembre 2018

**Lord Beaverbrook Rink**

**536 Main Street**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les bénéficiaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Advisory has been rescinded***

**November 23, 2018**

**Lord Beaverbrook Rink  
536 Main Street**

Please be advised that effective immediately, the Boil Water advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

Le 23 novembre 2018

**Lord Beaverbrook Rink**

**536 Main Street**

En vigueur immédiatement, l'avis de faire bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

November 22 2018

### **3 – 6 Mountain Rd**

### **557 Westmorland Rd**

#### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 22 novembre 2018

### **3 – 6 chemin Mountain** **557 chemin Westmorland**

#### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

##### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Order has been rescinded***

**November 26 2018**

**3 – 6 Mountain Rd**  
**557 Westmorland Rd**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 26 novembre 2018

**3 – 6 chemin Mountain**  
**557 chemin Westmorland**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

November 27 2018

### **430 – 438 Grandview Avenue 340 Loch Lomond Rd (Irving Oil Refinery)**

#### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure improvements, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 27 novembre 2018

### **430 – 438 avenue Grandview 340 chemin Loch Lomond (Irving Oil Refinery)**

#### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

##### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

##### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

##### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



*Effective immediately, the Boil Water Order has been rescinded*

November 30<sup>th</sup> 2018

**430 – 438 Grandview Avenue  
340 Loch Lomond Rd (Irving Oil Refinery)**

Please be advised that effective immediately, the Boil Water Order has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'ordre de bouillir l'eau a été annulé***

Le 30 Novembre 2018

**430 – 438 avenue Grandview**  
**340 chemin Loch Lomond (Irving Oil Refinery)**

En vigueur immédiatement, l'ordre de bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ORDER**

*Français à suivre*

November 28<sup>th</sup>, 2018

**484 – 495 Gault Road**

### **WARNING: BOIL WATER BEFORE USING**

A boil water order has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure upgrades, the Department of Health has advised Saint John Water to impose a boil water order to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Ordre de bouillir l'eau

Le 28 novembre 2018

**484 – 495 chemin Gault**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une amélioration du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un ordre de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Advisory has been rescinded***

**December 3<sup>rd</sup>, 2018**

**484 – 495 Gault Road**

Please be advised that effective immediately, the Boil Water advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

Le 3 décembre 2018

**484 – 495 chemin Gault**

En vigueur immédiatement, l'avis de faire bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ADVISORY**

*Français à suivre*

November 30<sup>th</sup>, 2018

**102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 202, 204, 206,  
208, 210, 212, 214, 216, 218, 220, 222, 224 Tartan Street**

### **WARNING: BOIL WATER BEFORE USING**

A boil water advisory has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to issue a boil water advisory to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Avis de bouillir l'eau

Le 30 novembre 2018

**102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 202, 204, 206,  
208, 210, 212, 214, 216, 218, 220, 222, 224 rue Tartan**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un avis de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Advisory has been rescinded***

**December 4<sup>th</sup>, 2018**

**102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 202, 204, 206,  
208, 210, 212, 214, 216, 218, 220, 222, 224 Tartan Street**

Please be advised that effective immediately, the Boil Water advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

Le 4 décembre 2018

**102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 202, 204, 206,  
208, 210, 212, 214, 216, 218, 220, 222, 224 rue Tartan**

En vigueur immédiatement, l'avis de faire bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## **BOIL WATER ADVISORY**

*Français à suivre*

December 6<sup>th</sup>, 2018

**295, 350, 380, 430 Bayside Dr  
1, 5, 55 Willet Ave**

### **WARNING: BOIL WATER BEFORE USING**

A boil water advisory has been issued for the above addresses on the Saint John Water municipal water system.

#### **What happened?**

As a result of infrastructure failure, the Department of Health has advised Saint John Water to issue a boil water advisory to those residents and businesses between and including all the addresses listed above.

Please share this information with all the other people who drink this water, especially those in the affected area who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand.

#### **What should you do?**

- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring water to a rolling boil, let it boil for at least one minute, and let it cool before using. Otherwise, use bottled water. Boiled or bottled water should be used for drinking, brushing teeth, making ice, juice, coffee or tea, or washing vegetables that will not be cooked. Boiling kills bacteria and other organisms in the water.
- Those whose immune system is compromised, such as the elderly, infants and people with transplanted organs, on dialysis, with HIV/AIDS, etc. should pay attention to the use of a safe source of drinking water. Water that has been properly boiled is considered a safe source.
- It is safe for people to take showers, bathe and use swimming pools.
- It is safe to wash dishes in hot, soapy water and then air dry. It is safe to use a dishwasher.
- The presence of low chlorine means that disinfection may not be effective and thus there may be bacteria in the water that can cause illness in humans. These organisms can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
- Organisms in drinking water are not the only cause of the symptoms above. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

#### **What is being done?**

We are evaluating all available information and working closely with the Department of Health. We will inform you when you no longer need to boil your water.

For more information, please contact Saint John Water at 506-658-4455.

## Avis de bouillir l'eau

Le 6 décembre 2018

**295, 350, 380, 430 rue Bayside**  
**1, 5, 55 avenue Willet**

### **ATTENTION: BOUILLIR L'EAU AVANT DE LA CONSOMMER**

#### **POURQUOI?**

À la suite d'une brisure du système d'aqueduc, le ministère de la Santé a conseillé Saint John Water d'imposer un avis de faire bouillir l'eau pour les résidents et les entreprises entre et y compris toute les adresses énumérées ci-dessus.

Nous vous demandons de transmettre cet avis à toutes les personnes susceptibles de boire l'eau de la ville, en particulier les personnes qui pourraient ne pas avoir pris connaissance de cet avis (les résidents des immeubles à logement, les maisons de santé, les écoles et les entreprises). On peut le faire en affichant cet avis dans un endroit visible ou en le distribuant de main en main.

#### **Que faire?**

- **Ne pas boire l'eau sans la bouillir au préalable.** Porter l'eau à ébullition forte et la laisser bouillir au moins 1 minute, laisser refroidir ou simplement utiliser de l'eau en bouteille. L'eau ainsi bouillie ou l'eau en bouteille doit servir pour la consommation, le brossage des dents, la fabrication de glaçons, de breuvages, thé, café ou pour laver les légumes que l'on consomme crus. Le fait de bouillir l'eau tue les bactéries et les autres organismes vivants dans l'eau.
- Les gens qui ont un système immunitaire faible (les gens âgés, les bébés, les récipiendaires d'organe, les patients en dialyse ou affectés par le virus du SIDA, etc.) devraient porter une attention particulière à la salubrité de leur eau potable. Une eau bouillie selon les normes constitue une eau salubre.
- Il n'y a aucun danger pour les douches, les bains et les piscines.
- On peut laver la vaisselle dans l'eau chaude et savonneuse et la laisser sécher à l'air ou utiliser un lave-vaisselle.
- La présence de peu de chlore dans l'eau signifie que la désinfection pourrait ne pas être efficace et qu'en conséquence il pourrait se trouver encore des bactéries pathogènes dans l'eau et causer des maladies humaines. Ces microorganismes peuvent causer la diarrhée, des crampes, des nausées, des maux de tête et autres symptômes. Ils posent des risques de santé importants surtout pour les bébés, les jeunes enfants, les personnes âgées et les gens qui ont un système immunitaire faible.
- Il faut noter que les symptômes notés plus haut peuvent survenir en d'autres circonstances aussi. Si les symptômes persistent, il faudrait sans doute consulter un médecin. Les gens à risque accrus devraient consulter leur spécialiste de la santé au sujet de leur eau potable.

#### **Comment remédier au problème?**

Les employés de Saint John Water travaillent en étroite collaboration avec le ministère de la Santé. Nous émettrons un nouvel avis dès que l'on pourra consommer l'eau sans la bouillir.

Pour plus d'informations, s'il vous plaît contactez Saint John Water au 506-658-4455.



***Effective immediately, the Boil Water Advisory has been rescinded***

**December 10<sup>th</sup>, 2018**

**295, 350, 380, 430 Bayside Dr  
1, 5, 55 Willet Ave**

Please be advised that effective immediately, the Boil Water advisory has been rescinded.

**What should you do?**

- **If you have been using your water over the past few days**, you need to do nothing else, since in using the water you have effectively flushed out old water and brought fresher water into your plumbing.
- **If you have been away and not using your water during this period**, it is recommended that you take a few minutes to flush out the water in your plumbing. This can be done by simply turning on each of the water taps for a few minutes. This will remove the water that has been sitting in the pipes while you were away and will draw cleaner, fresher water into your plumbing.

Saint John Water wishes to thank you for your cooperation and support.

If there are any questions, please contact **Customer Service** at **658-4455**.

***Applicable immédiatement, l'avis de faire bouillir l'eau a été annulé***

Le 10 décembre 2018

**295, 350, 380, 430 prom Bayside  
1, 5, 55 ave Willet**

En vigueur immédiatement, l'avis de faire bouillir l'eau a été annulée pour tous les consommateurs.

**Que devez-vous faire?**

- **Si vous vous êtes servi de votre eau au cours des derniers jours**, vous ne devez rien faire d'autre puisqu'en utilisant votre système d'approvisionnement, vous avez évacué efficacement la vieille eau en purgeant votre tuyauterie, ce qui a fait place à de l'eau fraîche.
- **Si vous étiez absent et n'avez pas utilisé votre système d'approvisionnement en eau durant cette période**, nous vous recommandons de prendre quelques minutes pour évacuer la vieille eau de votre tuyauterie. Il ne suffit que d'ouvrir chaque robinet pendant quelques minutes. L'eau accumulée dans les tuyaux pendant votre absence s'éliminera pour faire place à de l'eau propre.

Saint John Water désire vous remercier de votre coopération et de votre soutien.

S'il y a des questions, veuillez communiquer avec **le Service à la clientèle** au **658-4455**.

## Appendix O

### Examples of 2018 Media Coverage



# Greater Saint John

## LEAKS, HARD WATER NOT LINKED: PLUMBER

BARBARA SIMPSON  
TELEGRAPH-JOURNAL

SAINT JOHN • A Saint John plumber says the hardness of the city's new west side water isn't to blame for the flood of leaking pipe reports coming in from west-side homes.

Allan Myers says the leaks he's been busy repairing are the result of old pipes meeting increased water pressure following the switchover on the west side.

"(The public is) painting this with a broad stroke and they're blaming the city," said Myers, a licensed plumber for the last 17 years.

All of the west-side leaks Myers has been called out to are in houses with piping more than 50 years old — piping, he says, that was already nearing the end of its life.

"It was ready to go," he said. "The increase in pressure is what pushed it over the edge. It had nothing to do with hard water."

But Saint John Water has yet to arrive at a definitive explanation as to why the west side has seen a recent surge in pinhole-sized leaks in copper piping.

A study has been commissioned to understand why this piping has failed. That study, being completed by Dalhousie University and CBCL Engineering, is expected to be wrapped up within two months.

Saint John Water commissioner Brent McGovern has said the study could help the utility pick a treatment option to reduce copper pipe corrosion if it is determined the new water is the culprit.

But McGovern said he has not heard of any correlation between hard water and increased copper pipe leakage.

In an email Thursday, city spokeswoman Lisa Caissie said the water pressure has not increased since the transition to the new water source.

"System disruptions can occur across the city, which could increase or decrease water pressure," she wrote in an email. "These instances only occur for a short period of time. If customers feel as though they have a change to their water pressure, they should contact Saint John Water."

As Saint John Water waits for study results, different theories are being floated about as to what may be behind the increased number of leaks. The utility's working theory is that

PLEASE SEE → LEAKS, B2



Jennifer Ferris, co-owner of Culligan of Rothesay tests some water in the water lab Thursday. The water has turned pink after a testing chemical was added, indicating that the water is harder than standard. PHOTO: JUSTIN SAMANSKI-LANGILLE/TELEGRAPH-JOURNAL

## Wells the source of water woes?

VANJA LAKIC  
TELEGRAPH-JOURNAL

SAINT JOHN • Jennifer Urquhart Yeomans spat out the last sip of her tea one morning last fall.

It had sand-like particles in it; something she hadn't noticed before in her nine years living in west Saint John.

Urquhart Yeomans' dishwasher began to show errors whenever she didn't decalcify the machine with vinegar, and a milky film persistently clouded her

shower screen.

"I thought my children were rubbing soap all over the glass door," she said. "I have to get in the shower on Saturday and wash it and then within the next day it's covered again. It's kind of embarrassing when you have people come over."

The unwanted changes to her home coincided with the city's water source switch from Spruce Lake to wells in

PLEASE SEE → WATER, B2



Jennifer Urquhart Yeomans stands with a glass of water in her kitchen Thursday. She said she has been finding deposits in the water coming out of taps in her West Saint John home. PHOTO: JUSTIN SAMANSKI-LANGILLE/TELEGRAPH-JOURNAL

## Moosehead unveils design for new brewery and tap room

ROBERT WILLIAMS  
TELEGRAPH-JOURNAL

SAINT JOHN • Stainless steel, leather, pallets of wood and the iconic moose.

Moosehead Breweries revealed the design for its new small batch brewery and tap room Thursday, and it's an ode to the Port City.

"Moosehead has an inherent duality," said Karen Cousins, director of beer appreciation, in a press release Thursday. "We're a 150-year old brewer looking to the future; respecting a tradition of well-loved beers while pursuing innovation. The design reflects all of these realities."

The space, located along the west side brewery in Saint John, is designed by Halifax-based architectural firm MacKay-Lyons Sweetapple and will feature an exterior of weathered steel to

reflect the city's manufacturing and port industries.

"The colour is like copper which also reflects historic brewing vessels," said Cousins. "It's a resilient material that isn't fancy or fussy — and that's very much Moosehead."

A 20-barrel brewing system will give brewers the opportunity to explore new recipes with different types of beer, while also offering the first semi-automatic growler filler — a first of its kind in Eastern Canada.

An expanded selection of Moosehead merchandise will be available for purchase, and the new tap room will act as the beginning and end for all brewery tours, providing a space for beer connoisseurs to enjoy the suds by the machines and brewers at work.

PLEASE SEE → MOOSEHEAD, B2



Moosehead Breweries revealed the design for its new small batch brewery and tap room Thursday. PHOTO: SUBMITTED



# 1<sup>ST</sup> PLACE ATLANTIC DIVISION LEADER

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# Man with stolen underwear guilty of possessing child pornography

MIKE LANDRY  
TELEGRAPH-JOURNAL

SAINT JOHN • One of two Sussex residents arrested last September for child pornography pleaded guilty on Thursday to several charges, including possessing stolen underwear and child porn.

Ramond Calvin Adair, his short white hair combed back and his dress shirt unbuttoned at the top, entered his guilty pleas from behind the glass of the court dock.

The guilty pleas came as additional charges were laid against the 59-year-old resident of O'Connell Avenue.

Adair admitted to all four of the

original counts: illegally having underwear belonging to three different complainants; and having child pornography. The identities of the complaints are protected by a publication ban.

The new charges were for making child pornography, voyeurism and arranging with another person to commit a sex offence against a minor.

Adair, who's been in custody since his arrest, pleaded guilty to making child pornography between Dec. 31, 2016, and Sept. 22, 2017. There's a minimum sentence of one-year imprisonment for that count, with a maximum of up to 14 years.

The Crown said it would be making a motion to withdraw the voyeurism and

the arrangement counts at the conclusion of sentencing.

No facts were presented detailing Adair's crimes. The charges do say all the other counts date from Sept. 22, 2017 – the date of his arrest, according to his documents in his court file.

Adair, who mainly sat with his head hung, didn't say anything beyond repeating "Guilty" five times to the charges.

Sentencing was set for March 7, after the preparation of a pre-sentence report and any victim-impact statements.

Adair first appeared in court on Sept. 28, 2017, the same date as another Sussex resident – Jennifer Nagle. At their first court appearance, Adair was

ordered not to communicate with several individuals, including Nagle, while he's in custody.

Nagle, 62, of Cedar Avenue, is charged with distributing intimate images of two individuals on Aug. 27, 2017, and, from Feb. 1, 2017, making, distributing and having child pornography. She is also charged with stealing underwear from two people, and accused of making video recordings, unbeknownst to someone else, while they were nude, and entering into an agreement or arrangement with someone else to commit a crime related to child pornography.

Nagle, who was denied bail, is scheduled to return to court on Feb. 15.



Jennifer McKenzie  
PHOTO: SUBMITTED

## NDP leader nominated for Saint John Harbour

JUSTIN SAMANSKI-LANGILLE  
TELEGRAPH-JOURNAL

SAINT JOHN • The New Brunswick New Democratic Party has nominated its leader, Jennifer McKenzie, to represent the party in the next election in Saint John Harbour.

In her acceptance speech, McKenzie pledged to work as hard as possible to earn the confidence of voters.

McKenzie also made clear a key focus she will be championing on the campaign trail: keeping talent in New Brunswick.

"For youth to stay here," McKenzie said in a release, "we must put a stop to precarious work where youth and too many others have to work two or three jobs to put a roof over their heads and food on the table. Benefits must be the norm rather than the exception."

McKenzie also announced she will be working toward a minimum wage increase from \$11 to \$15.

Another focus for McKenzie will be to increase the number of women's voices in politics.

"We must make the voices of women a priority in our political discussions and address their issues such as safety from violence, access to doctors and clinics, affordable universal and accessible daycare so single women and indeed all men and women can participate in the economy."

## Leaks, hard water not linked, plumber says



Water softeners are seen on display in the front entrance of Culligan of Rothesay.  
PHOTO: JUSTIN SAMANSKI-LANGILLE/TELEGRAPH-JOURNAL

### LEAKS →B1

the change in water chemistry, from switching to well water from surface water, may be behind it, McGovern has said.

The new water may have chipped away at the scale build-up that served as a protective barrier between the piping and the water.

Local Culligan franchise co-owner Jennifer Ferris says there's no question the new west side water is "very hard," according to water testing she's done, but hard water doesn't eat away at pipes.

"It actually coats the pipes," she said. "It's the opposite."

A former westsider herself, Ferris suggests the previous acidic water ate away at the pipes over the years and she believes it's a "coincidence" there's been a surge of leaking pipes.

She also pointed out the quality of the west side water has improved as a result of the switchover.

"They're making it so much safer than it was, but it does have a big impact and people just don't really realize the impact hard water has and it does, aesthetically and maintenance-wise," she said.

More than 80 per cent of her franchise's requests for water softeners are now coming from the city's west side, she noted, to address issues like itchy skin and spotting on water-using appliances like dishwashers.

But Myers said hard water is ultimately "not a health issue" at the end of the day but rather a "nuisance problem."

"In this case, the city was answering a call for better water quality and that's what they've answered, for drinking water."

## Wells source of water woes?

### WATER →B1

mid-September last year aimed at increasing water quality which has also hardened the water.

Urquhart Yeomans called the city last fall to complain but wasn't contacted back. Just before Christmas, she noticed a leak in her copper pipe but didn't think it had anything to do with the harder water until she noticed others addressing the same issue on social media.

"Some people are like 'it's a simple solution, put in a softener' but we're a family of five, to go in and change all our pipes to plastic or put in a water softener, that's like \$5000. It's just not something you have in your back pocket," Urquhart Yeomans said.

Saint John Water said it would need "many millions of dollars" to soften up the new west side water, citing that water hardness levels are lower than what other Canadian municipalities have treated for in the past.

A study is underway to analyze copper pipe corrosion at west-side homes with results expected to be handed over to city council in the next month or two.

Joyce Boon, who lives in west Saint John, said the harder water has made

her skin drier and itchier and her hair more coarse.

"Their product is ruining our appliances," Boon said.

"I loved the water here, used to brag about it. Used to drink it out of the tap, my dogs drank it out of the tap. Didn't even use a Brita. They changed the water over, I got a Brita and even that doesn't take the cloudiness out completely. I've had a brand new kettle that died pretty quickly and one that's old but as soon as the water switched over, it died right away."

The antidote is a water softener, Cheryl Geldart Greer said. Geldart Greer owns a property on the west side and several others in uptown.

"I think people are expecting too much," she said. "There are many cities that have hard water and people get water softeners."

Geldart Greer further decried public complaints that the new water is causing pipes to burst.

"There's no way that the water is making their pipes freeze. There's just no way. We had a cold December, pipes are freezing. It's not because of the new water."

Carol Hughes, from Pet Corral located on the west side, filed a report with



Whiteish particles can be seen floating in this glass of water poured from Jennifer Urquhart Yeomans' kitchen tap Thursday. She said these deposits can be bad enough that sometimes they can be scooped out of tea or water 'like a slime.'  
PHOTO: JUSTIN SAMANSKI-LANGILLE/TELEGRAPH-JOURNAL

the city in 2016 when discoloured water caused over \$1000 worth of fish and frogs to die overnight. She was worried about abnormal chlorine levels when the city announced the switchover but said she's had no problems.

Several doors over from Pet Corral, the Travel Lodge told Hughes about their pipe problems blaming the new water.

When contacted about the issue, Travel Lodge declined to comment.

## Moosehead unveils design for new brewery and tap room

### MOOSEHEAD →B1

"Moosehead Small Batch allows us to showcase our passion for beer, and our creativity," said Andrew Oland, president and CEO of Moosehead Breweries. "People have a desire to learn about beer and, whether it's in the new tap room or on a brewery tour, we'll be able to share a great deal of information in a fun way."

The brewery and tap room is expected to open in June.

"Moosehead is steeped in history, and we value that, but we're also modern and technologically sophisticated," said Oland. "To showcase that is exciting."



The new design will feature pallets of wood, stainless steel, leather and an exterior of weathering steel. PHOTO: SUBMITTED

### News of the port

#### VESSELS IN PORT

**ACADIAN**  
Petroleum for Foreign Ports, Kent Line Ltd.

**ASTERION**  
Petroleum for Foreign Ports, Furncan Marine-Agency Division

**ATLANTIC SPRUCE**  
Harbour Duty Tug, Atlantic Towing Limited

**CANADIAN ARGOSY**  
Layby, McNally Construction Inc.

**COLORADO**  
Crude Oil from Foreign Ports, Kent Line Ltd.

**GENER8 HARRIET G**  
Crude Oil from Foreign Ports, Kent Line Ltd.

**NEW ENGLAND**  
Petroleum for Foreign Ports, Kent Line Ltd.

**NORDIC THUNDER**  
Crude Oil from Foreign Ports, Kent Line Ltd.

**OSHAWA**  
Towing Barge, McNally Construction Inc.

**PALANCA RIO**  
Petroleum from Foreign Ports, Kent Line Ltd.

**SCOTIA TIDE**  
Layby, OpenHydro Technology Canada Limited

### Words in season

Hear, O Israel: The Lord our God is one Lord: And thou shalt love the Lord thy God with all thine heart, and with all thy soul, and with all thy might.

Deuteronomy 6:4-5 KJV



# Greater Saint John

## OH DEER: 'IT FEELS LIKE A PRISON'

BARBARA SIMPSON  
TELEGRAPH-JOURNAL

SAINT JOHN • John Ferris has spent thousands of dollars to keep uninvited guests from crashing his Millidgeville backyard.

They chew up plants, carry ticks and destroy cedar trees.

"They're just so brazen," he said.

Frustrated, Ferris and a neighbour split a \$10,000 bill last summer to install six-foot metal fencing around their properties.

"It feels like a prison, but I learned they can't get over a six-foot fence," said Ferris, who has lived on Grant Crescent for 50 years.

Now the City of Saint John could finally take aim at Millidgeville's party crashers: its rampant deer population.

City officials are expected to start a public consultation process in June to potentially expand bow hunting in Millidgeville, similar to what's in place in Quispamsis and Rothesay.

Under the program, a bow hunter

would be able to bag one antlerless deer on each eligible private property in Millidgeville, with the authorization of the property owner. Eligible properties would need to be a minimum of one acre and hunting would be prohibited within 100 metres of a

PLEASE SEE → **DEER, B2**

## Meet the Vancouver developer investing big in N.B.

ROBERT WILLIAMS  
TELEGRAPH-JOURNAL

SAINT JOHN • Roo Chang was forced to make a decision: sue or take a "hefty" settlement.

For the first time in her life, she was not moving up. Chang was moving out, and she was done with the banking industry for good.

After close to two decades working for various banks in Canada, Taiwan and China, the converted Vancouver native was moving into the real estate game.

Today, she's travelled cross-country with her daughter Siobhan Riley and is in the process of reinventing King Street in Saint John.

She's bought three locations — 22, 74 and 91 — and is living a "minimalist" lifestyle with her daughter and sister as the renovations begin.

Her other property on the west side, the one that originally brought her to Saint John, is being developed into a mental health home with the help of the provincial government's Department of Social Development.

That original purchase from her mother-in-law, along with a Vancouver real estate market that was becoming "increasingly more difficult" to navigate, brought Chang to Atlantic Canada.

In Saint John, she said the possibility is almost unrivaled in Canada. She's looked at the demographics, GDP growth, overall population growth, average rent and whether the city is landlord friendly.

The original idea was to come to Saint John and be out of the city before Oct. 31, 2017. She's still here and has four properties to her name.

Her mission in Saint John is two-fold, she explains. She wants to provide residential housing, and she wants to help build the economy through commercial business.

"It's all about building relationships," she said. And on the residential side: "We want to make our tenants lazy."

That means laundry facilities in the unit, open concept layouts, island kitchens, and amenities provided

PLEASE SEE → **DEVELOPER, B2**

### Development debate



Christine Connors admires the view of Loch Lomond. A parcel of land in the Simonds LSD near Loch Lomond Drinking Water Watershed has been submitted for rezoning for industrial use. But Saint John Water says it falls within the protected land when the most up to date technology is used. PHOTO: SUBMITTED/ DOUG SCOTT

## Saint John Water objects to industrial development on protected watershed

ROBERT WILLIAMS  
TELEGRAPH-JOURNAL

SAINT JOHN • New data shows a rezoning of land for a construction and demolition site falls directly within a protected Loch Lomond Drinking Water Watershed, the Telegraph-Journal has learned.

Debly Enterprises Ltd., a heavy civil engineering firm based out of Saint John, has submitted a rezoning application to

the Simonds LSD through the Planning Review Adjustment Committee of the Fundy Region Service Commission.

Brian Shannon, development officer with the commission, confirmed the application has been received. The commission hosted a public meeting on April 17, and will be submitting a report to the Department of Environment and Local Government to make a decision on the proposal.

The report will be sent after May 5, he said, and Environment and Local Government minister Serge Rousselle will have between 15 days and six months to make a decision.

### Lines need to be redrawn

A council report, submitted by primary author Kendall Mason, Saint John Water commissioner Brent McGovern and Saint John city manager Jeff Trail, said

it is "critical" the analysis and rezoning uses the most accurate data available.

McGovern presented the report to city council Monday evening.

"We don't see rezoning for industrial use for lands that contain a watershed as being compatible, so we've objected to the rezoning of that land," he said.

The provincial government established

PLEASE SEE → **WATER, B2**

## Rent a taste of tiny home living

MIKE LANDRY  
TELEGRAPH-JOURNAL

SAINT JOHN • Local experts on tiny homes are looking to cash in on big summer dreams.

Saint John contractor Wee Bitty Builders is working on its first dedicated rentable unit, a summer camper to be complete by May 31.

The project is a partnership with a new venture outside of Alma called FundyRidge Glamping. The hope is to expose more people to Wee Bitty Builders' craftsmanship and introduce the glamping grounds to potential long-term cottagers.

"I've always been interested in tiny homes," said Bob Goodwin, who operates FundyRidge. "What we're hoping to do is

create a tiny community."

Goodwin, 55 and retired from his career, calls the prototype for FundyRidge now being built in Saint John a "show home." If visitors enjoy the experience, his vision is they can purchase their own unit from Wee Bitty Builders and rent a piece of his 26-acre property.

"I don't want it to be big," he said. "It's for people who like nature."

FundyRidge, overlooking the Bay of Fundy and Cape Chignecto in New Horton, is surrounded by the Shepody National Wildlife Area.

Goodwin has tasked Leo Girouard with Wee Bitty Builders to create a bunkhouse-style camper. The plan is to build it on a trailer that can be easily transported with a half-ton truck.

The finished camper will likely be 14-by-8 feet and have rustic, durable finishes. Unlike the tiny homes they've been building since 2016, these units won't be self-contained with indoor plumbing — but they'll also likely be tens of thousands of dollars less expensive.

According to the company's website, "Wee Bitty homes can run from \$20,000 to \$45,000 dollars depending on the style you choose and the finishes used."

"Some people, they don't need all that luxury. Some people still want to go camping and don't mind roughing it," said Girouard, who runs the tiny home business with his wife, Karen.

Still, while they won't have all the

PLEASE SEE → **TINY, B2**



A tiny home built by Wee Bitty Builders earlier this year. PHOTO: SUBMITTED

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## City expects to consult on expanded deer hunting

### DEER →B1

neighbouring house. Millidgeville has 60 properties large enough to be part of the program, said Tim O'Reilly, the city's deputy commissioner of parks and public spaces.

Bow hunters can currently bag one deer under the province's regular fall hunting program, he said, but the city program would allow hunters each an additional deer and one taken within 100 metres of a house on an eligible private property.

City staff are also proposing a bylaw to prohibit the feeding of deer. "I say anything to get rid of them," Ferris said. "I'm not a bleeding heart."

### 'No silver bullet' to reducing deer population: staff

Over the years, Millidgeville residents have reported cases of property damage, through to Lyme disease linked to the deer population.

City staff were recently tasked to investigate those claims and report back to council.

Tim O'Reilly, the city's deputy commissioner of parks and public spaces, said citizens' claims have "been substantiated" through his research.

Saint John has seen an annual average of 185 car accidents involving deer for the past five years, according to data from the Saint John Police Force.

Those crashes are concentrated in the intersections of Hickey Road and Heather Way, as well as Millidge and University avenues.

Millidgeville Coun. John MacKenzie said he hopes the implementation of a nuisance deer management program can be sped up.

"I'm concerned because I know a lady today phoned me who was going to spend \$9,000 on fencing because she can't use her backyard, so I'd like to get it done sooner than later," he said.

Coun. Gary Sullivan offered to host a hunter at his Millidgeville property. "I'd be happy to sit on the back porch with a bow hunter and provide food and beverages and whatever they need while they wait, which wouldn't be very long."

But not all council members are sold on the idea.

"I won't be sitting on my back porch taking pictures and congratulating people doing that," said Deputy Mayor Shirley McAlary. "I think that's cruel."

O'Reilly has cautioned council there is no "silver bullet" to reduce the city's



Millidgeville resident John Ferris says he and his neighbours installed a \$10,000 fence last summer to keep deer out of their backyards. He's supportive of a city proposal to expand bow hunting in Millidgeville. PHOTO: BARBARA SIMPSON/TELEGRAPH-JOURNAL

deer population.

"I can tell you with certainty that you're not going to see results overnight or within the first year or two," he said, adding the actions in the Kennebecasis Valley has yet to show a reduction trend.

"If (residents are) feeding deer and they have vegetation that attracts deer, it's going to attract deer to urban areas, so it's really a combination of the city doing their part and residents doing their part."

### Provincial approval needed to implement program

Any nuisance deer management program in New Brunswick needs to be approved by the Department of Energy and Resource Development.

In order for that to happen, the City of Saint John will need to secure support from the majority of Millidgeville property owners via survey, O'Reilly said.

It will also need to enact a no-feeding-wildlife bylaw.

Saint John Mayor Don Darling said the city needs to address the quality of life and health issues being reported by citizens.

"If we got to a spot where we were going to try to reduce the population of deer in an urban centre, then we would want a full explanation as to how the public would be protected, how this is going to be overseen and monitored," he said.

If all approvals are satisfied, O'Reilly said the earliest the program would roll out is fall 2019.



Roo Chang and her daughter, Siobhan Riley, in their newly purchased King Street building, the old location of the Woolworth's department store. PHOTO: ROBERT WILLIAMS/TELEGRAPH-JOURNAL

## Meet the B.C. developer investing big in N.B.

### DEVELOPER →B1

on-site so they don't have to leave.

At 22 King St., a potential national tenant is already in talks for the commercial space, she said. The main and second floor is being outfitted for the commercial tenant, and the third floor up will be converted into about 10 loft style condos. On the roof, she plans on building a golf putting green, a large checkers board and a covered seating area. A gym and storage unit will be housed in the basement.

At 74 King St., she is planning for a main floor commercial tenant, with four residential units above.

And at 91 King St., the old Woolworth's building, she plans to have two to three commercial tenants, and is converting the basement into public parking.

Stage one is to have the commercial tenant spaces ready by the end of the year to build up a steady cash flow, and then start construction on a minimum of eight stories of condos.

The building is zoned for as many as 20.

"More than ever, every city has to develop its own economic environment, has to develop its own culture," said Chang.

But when roadblocks happen, the internal knowledge and connections of Develop Saint John (DSJ) have helped, she said.

In the example of the old Woolworth's building, the Anglican Church had a restrictive covenant that said the space could not be used for nudity, gaming or as a tavern.

The first two clauses were not an issue, said Chang, but the meaning behind "tavern" needed clarification. Through the help of DSJ, the two parties were able to have the covenant amended to allow for restaurants and bars and the possibility of including pool tables and gaming consoles.

"We don't have a particularly deep development pool, and people with West Coast experience or other development experience is huge because they start to see things we're missing," said Brian Irving, a DSJ commercial expert.

And through Roo's eyes, she said she's never been in a city where she can sit down with the entire growth and planning department to plan out what her future looks like.

"For me to be able to lean on this profound experience and profound knowledge, their ability to help people through hurdles is something the world should know about."

## Saint John Water objects to development on watershed

### WATER →B1

the watershed boundary line using now outdated data, the report reads.

"When you look at watersheds in the province of New Brunswick, they were mapped back in 2001 under the Clean Water Act using the best local technology at the time. Since then, technology has evolved," said McGovern Monday.

Saint John Water has used Light Detecting and Ranging data, or LiDAR, to create a more accurate watershed boundary. LiDAR systems illuminate a specific area with a pulsed laser light, and measure the reflection using a sensor. The differences in reflection times and wavelengths are then used to make a 3D visual of the land area.

As per Regulation 2001-83 of the Clean Water Act, construction and demolition sites need to be 75 metres outside of the water boundary. The report states that using the new LiDAR projections, and including the 75-metre buffer space, there is "very little" land remaining that could be used for industrial use.

"Saint John Water will be strongly recommending that the land within a protected watershed plus the 75 metre setback not be rezoned for industrial usage," the report reads.

### City backs using newest data

Saint John Mayor Don Darling says he's received a fair number of emails and online posts about the proposal so far.

"Citizens want to make sure their best watershed is protected," said Darling. "At the heart of the notes, emails, messages I've received is the protection of the watershed."

Darling said he is "hopeful" the province will use the "latest" and "best" information possible.

A letter has been sent to the Department of Environment, said McGovern, to ask they "re-delineate the watershed boundary such that it takes into consideration the best available data.

"The true watershed boundary line isn't the best available data to be able to show that the site should actually be pushed further from where it is being proposed."

Deby Enterprises Ltd. was contacted by the Telegraph-Journal by phone and email, but did not return our calls.

Citizens are asked to submit any letters to the Fundy Region Service Commission before May 5. As of Tuesday, Shannon said he had received two letters, but didn't know how many had been sent directly to the minister.

-with files from Barbara Simpson

## Saint John contractor offers taste of tiny home living

### TINY →B1

amenities of a tiny home, Girouard is excited for the challenge of designing and building something new.

"Anything you can fold and tuck away is what you're looking for," he said. "Portable, foldable, retractable."

Girouard figures the finished product could also appeal to hunters in the market for a cabin that can be towed in

and out of season. He's interested to see what may come from the increased exposure at FundyRidge. The camper will be his third project so far this year. His goal going into 2018 was to get five or six orders for tiny homes.

"You've got to get some out there for people to see."

Once the prototype is finished, it will be available for rent through the online service Airbnb.

### Court briefs

#### Two teen girls get probation for robbery

SAINT JOHN • Two teenage girls are both on probation now for a robbery in the winter of 2017. The girls were sentenced on Monday. Back in February 2017, one of the girls was hanging out in an apartment with the soon-to-be-victim. When the victim became "woozy," as the judge described in recounting the facts of the case, she let in the other girl.

They both then struggled with the victim to take his chain. They ran off but were picked up by police a short distance away. The girl who entered the apartment had no previous record and was placed on probation for a year.

The other girl has a record, and is in the midst of a jail sentence. Her probation was set for 16 months, so it would continue for another year after her current sentence. Both girls were said to be doing well and dealing with their issues.

#### 'Buddy' calls the cops on parolee

SAINT JOHN • Another parolee living at Parrtown halfway house in Saint John went on the lam this past weekend, a week after another resident also fled the coop.

Dana Smith, 30, of Alexander Street, in Sydney, N.S., moved into Parrtown on April 17, court heard Tuesday. Prosecutor Jim McAvity said Smith is serving a 32-month sentence for robbery-related offences. His sentence was due to wrap up on June 28. But on April 21, Smith signed out of Parrtown with a curfew of 9 p.m.

He didn't return. On Monday, police were called to a bar in the north end. Smith's "buddy," he said, had called them to come get him. "What made you walk?" asked Judge Henrik Tonning after Smith pleaded guilty to being unlawfully at large. "I was stressed out, because I'm not from here," said Smith. Tonning sentenced him to 10 days in jail. "We'll give you 10 days for being stupid. You've got to get a grip on yourself. All you had to do was sit tight for a month."

#### Loaded gun, cocaine charges laid

SAINT JOHN • On Monday, Saint John police arrested a 25-year-old allegedly with cocaine and a loaded prohibited weapon. William Kirk, of Rideout Street, was arraigned on four counts in provincial court on Tuesday afternoon.

Defence lawyer John Henderson said Kirk had retained Charles Bryant who was unable to attend the arraignment. Instead, a bail hearing was booked for Monday.

Kirk's matters were adjourned until then without election or plea. He's charged with simple possession of marijuana and having cocaine for the purpose of trafficking. Along with the loaded prohibited weapon charge, Smith is accused of having a prohibited sawed-off, 12-gauge shotgun and the illegal storage of a firearm. Smith gave a wave out to the courtroom gallery as he skipped back into custody.

### News of the port

#### VESSELS IN PORT

#### FMT KNIDOS

Petroleum for Foreign Ports, Montreal Marine Services Inc.

### Words in season

Forasmuch as ye know that ye were not redeemed with corruptible things, as silver and gold, from your vain conversation received by tradition from your fathers; But with the precious blood of Christ, as of a lamb without blemish and without spot:

1 Peter 1:18-19 KJV

### Lotteries

Visit [telegraphjournal.com](http://telegraphjournal.com) for the latest lottery numbers.

## PUBLIC NOTICE

## AVIS PUBLIC

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**Saint John Water, Real Estate and Transportation & Environment Services to Post Public Notices Online**

The City of Saint John wishes to advise that beginning April 2018, public notices for Saint John Water, Real Estate Services and Transportation and Environment Services will no longer appear as advertisements in the Telegraph Journal. Instead, the notices will be posted to the City's website under [www.saintjohn.ca/publicnotices](http://www.saintjohn.ca/publicnotices).

Public Notices for **Saint John Water** include: Open Houses and Fire Hydrant Flushing

Public Notices for **Transportation and Environment Services** include: Open Houses and By-Law Amendments

Public Notices for **Real Estate Services** include: Requests for Proposals, Expressions of Interest and Street Closures

For Saint John Water and Transportation and Environment Services, contact City of Saint John customer service at (506) 658-4455.

For Real Estate Services, contact (506) 639-6575.

*\*Throughout the year, additional public notices may also be advertised on the City website.*

**Saint John Water, les Services des biens immobiliers et les Services de transport et d'environnement publieront leurs avis publics en ligne**

La Ville de Saint John désire vous aviser qu'à compter d'avril 2018, les avis publics pour Saint John Water, les Services des biens immobiliers et les Services de transport et d'environnement ne seront plus publiés sous forme de publicité dans le Telegraph-Journal. Les avis seront plutôt publiés sur le site Web de la Ville à l'adresse suivante : <http://www.saintjohn.ca/fr/Accueil/salledepresse/avispublics.aspx>

Les avis publics pour **Saint John Water** comprennent les renseignements relatifs aux journées portes ouvertes et au nettoyage par chasse d'eau des bouches d'incendie.

Les avis publics pour les **Services de transport et d'environnement** comprennent les renseignements relatifs aux journées portes ouvertes et aux modifications d'arrêtés.

Les avis publics pour les **Services des biens immobiliers** comprennent les renseignements relatifs aux demandes de proposition, aux déclarations d'intérêt et aux fermetures de rue.

Pour obtenir des renseignements concernant Saint John Water et les Services de transport et d'environnement, veuillez communiquer avec le Service à la clientèle de la Ville de Saint John au 506-658-4455.

Pour obtenir des renseignements concernant les Services des biens immobiliers, veuillez composer le 506-639-6575.

*\*Durant l'année, des avis publics supplémentaires pourraient également être publiés sur le site Web de la Ville.*

**SAINT JOHN**

www.saintjohn.ca  
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# Goodbye boil orders, hello safer drinking water in city

BARBARA SIMPSON TELEGRAPH-JOURNAL



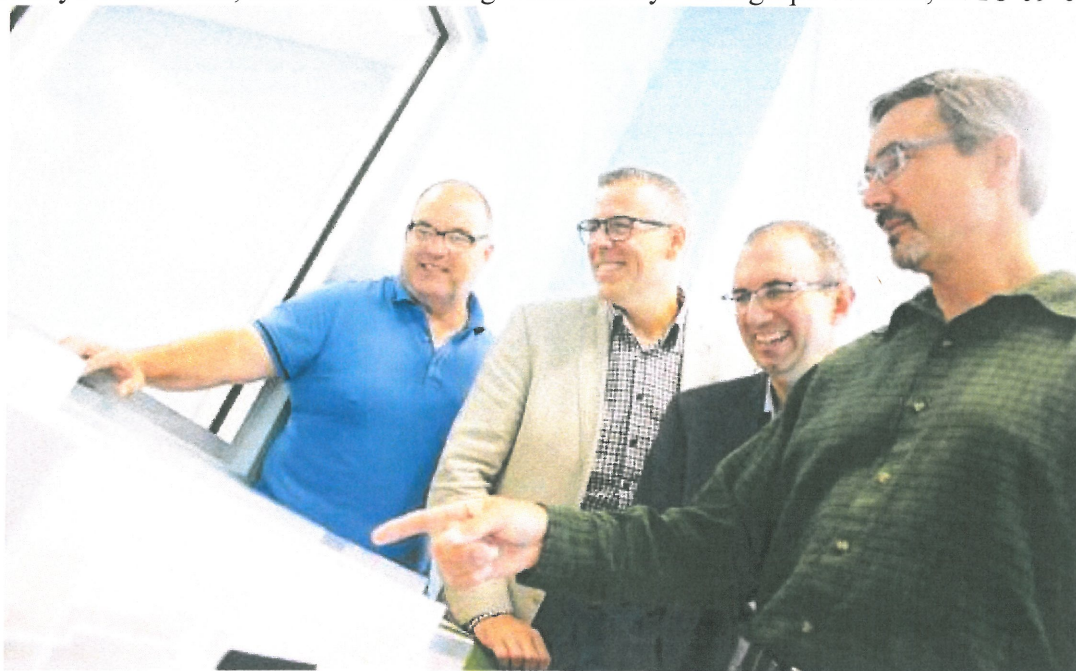
Saint John Mayor Don Darling celebrates the opening of the city's new water treatment plant with Saint John Water commissioner Brent McGovern, city project manager Gerry Mattson and plant manager Peter Larsen.

PHOTO: BARBARA SIMPSON/TELEGRAPH-JOURNAL

**Words  
in  
season**

O come, let us  
worship and bow





Safe, Clean Drinking Water Project manager Gerry Mattson discusses the city's new water treatment facility with plant manager Peter Larsen, Saint John Mayor Don Darling and Saint John Water commissioner Brent McGovern.

PHOTO: BARBARA SIMPSON/TELEGRAPH-JOURNAL

water treatment facility came online near Latimore Lake late Thursday. About 50 million litres a day of drinking water will be processed through the facility, serving 45,000 to 50,000 customers on the city's north end, south end and east side.

The facility will add new steps to the treatment of water coming from Latimer, Loch Lomond and Robertson lakes. That includes removing all dissolved organics, like sticks and leaves, responsible for the east side's water discolouration.

"The water will essentially be crystal clear and the taste will improve as well," said Saint John Water commissioner Brent McGovern. "The water quality will meet or exceed provincial and national drinking water quality guidelines."

McGovern estimated there has been as many as 10 major boil water orders east of the Reversing Falls in the last decade.

"Nobody on our team wants to issue a boil water ask, but of course, you're always going to put health and safety first, but we're going to greatly reduce the chances of those inconveniences because of the investment..." said Saint John Mayor Don Darling.

Officials with the City of Saint John and Port City Water Partners marked the opening of the new Latimore Lake Road facility with a site tour Friday.

The new Loch Lomond Drinking Water Facility is also home to three new water storage reservoirs. Each can hold 11 million litres of treated drinking water, allowing the city a buffer to meet local demand.

All of this new infrastructure is part of the \$216.8-million Safe, Clean Drinking Water Project. It's the largest municipal infrastructure project in the province's history.

Page 2 of 3  
down: let us kneel  
before the Lord our  
maker. For he is our  
God; and we are the  
people of his  
pasture, and the  
sheep of his hand.  
To day if ye will  
hear his voice,

Psalm 95:6-7 KJV

SAINT JOHN •  
After years of being  
plagued by major  
boil water orders,  
Saint Johners are  
now expected to tap  
into safer, more  
reliable drinking  
water east of the  
Reversing Falls.

The city's new  
state-of-the-art

More than 100 west side customers reported leaking pipes following the switchover. A class-action lawsuit has been launched against the city.

When asked if the east side could experience copper pipe leaks as a result of the transition to newly-treated water, McGovern said Saint John Water doesn't anticipate it.

"Science tells us we shouldn't see any of those negative impacts," he said. "There's also a significant difference when you look at the west side conversion versus the east side conversion."

All of the east side water will continue to come from Latimer, Loch Lomond and Robertson lakes.

Saint John Water also implemented a two-part transition to mitigate any potential impacts, McGovern said. That process has included slowly adjusting the water's pH and a temporary orthophosphate treatment, a chemical used to treat against copper pipe corrosion.

The new treatment facility will permanently balance the pH and add orthophosphate to the water supply.

McGovern said customers close to the treatment facility will already be experiencing the new water, while others may not see it until mid-to-late next week if they live further away.

The new water treatment plant is a private-public partnership involving all three levels of government and Port City Water Partners, a consortium of private partners.

Port City Water Partners has built and will now operate the new water treatment plant. It has also built and financed 22 new kilometres of pipeline, with four more kilometres still to go.

Darling said the partnership has led to the infrastructure project being on schedule and on budget.

"I think it's a very proud day for the teams and for Saint Johners that we can say we have one of the most state-of-the-art facilities in the country," he said Friday.

The new treatment facility has the capacity to treat up to 75 million litres a day, McGovern said, meaning it will be able to handle additional demand if the city grows in the future.

"This is really a generational project that delivers water quality that meets the standards and will have the ability to adjust and meet new standards as they continue to evolve across the country."

Science tells us we shouldn't see any of those negative impacts.

BRENT MCGOVERN

”

# Eight-week water study ongoing, 10 months later

MIKE LANDRY Telegraph-Journal

November 2, 2018

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A study into the impact of well water on west side copper pipes remains ongoing, eight months after it was to be completed.

Photo: Richard Arless Montreal Gazette

**SAINT JOHN** • The City of Saint John is calling ‘fake news’ in a mailout concerning its west side water woes.

The letter West Water News, which the city also Tweeted about and posted online, alleges that “a significant amount of inaccurate information has been circulated in the public, via social and other media” concerning the shift last year from lake water to wells on the west side.

The letter doesn’t provide any explicit details about what was incorrect or specifically who was doing the circulation.

The Telegraph-Journal requested these details from the city. Nothing was offered to substantiate the allegation. Instead, city spokeswoman Lisa Caissie provided this statement:

"(West Water News) is available to west side residents who would like to receive accurate, fact-based information about the quality of their drinking water.

"Saint John Water places great importance on ensuring that customers have confidence and assurance in the quality of their drinking water."

Caissie didn't answer how many mailouts are being delivered, nor the campaign's cost.

In July, the city did issue a warning about door-to-door salespeople and scam phone calls claiming the west side water may be hazardous and offering water softeners and other products.

The mailout comes just days before the city is due in court in relation to a proposed class action over the alleged impact the switchover from lake water to well water had on residents. For months after the switch, residents with copper pipes began to notice leaks. The lawsuit claims the city was negligent, in part, for failing to "adequately test, analyze and/or review the distinct chemistry and the condition of water pipes."

Those claims have yet to be proven in court, and the case is ongoing. In the meantime, the city has asked the court to issue an order forcing westsiders looking for information about west side water to be directed to lawyers. Direct communication with the city, should the order be enforced, would be a "risk to the integrity" of the lawsuit, according to the city's filing.

That hearing is set for Monday.

In a previous interview with the Telegraph-Journal, west side resident Pamela Ross likened the city's request to a "gag order." A city spokesperson refuted that claim in September, explaining the city only wished clarity.

In July, the city's lawyer Danys Delaquis expressed concern about "improper use or misinformation" surrounding the city's insurance policy, which lawyers in the lawsuit were demanding be turned over. Delaquis, submitting media reports and social media posts, said he didn't want the case "tried in the media." He was concerned the insurance policy information could be shared publicly in order to "pressure the city."

The newspaper contacted the law firm behind the lawsuit – Gilbert McGloan Gillis – for their response to the claims in the mailout, but we didn't receive a reply.

The West Water News leaflet hitting mailboxes emphasizes the increased health quality of the water, how it compares to other cities, why it looks blue/green in bathtubs, why blue-green algae isn't a concern and how residents can get quarterly information about Saint John Water.

Tucked into the information, though, is the news that a study into the leaking pipes remains ongoing. When it was launched in January, Saint John Water said the analysis would take eight weeks, and a preliminary report would be released to city council.

The city's spokeswoman didn't answer why the study has taken longer than initially indicated. Caissie did promise the completed report would be shared with council and the public.



"Work began as quickly as possible so that a scientific understanding of the issue can be assessed," said Caissie.

West side councillors Blake Armstrong and Greg Norton didn't say whether they were aware of what was causing the delay.

– *With files from Barbara Simpson and Robert Williams*

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Telegraph Journal

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**BRYAN MCMULLEN** • 2 days ago

and the editors of the TJ wonder why the burbs don't want to be part of SJ.

^ | ▾ • Reply • Share ›



**ANDREW HOWARTH** • 3 days ago

Seems par for the course, more secrecy and ineptness.

^ | ▾ • Reply • Share ›

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## Appendix P

### 2018 Customer Requests Relating to Pressure & Water Quality



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address:</b> Bedell Avenue	
<b>Phone:</b>	
<b>Date:</b> January 3, 2018	
<b>Time:</b> 10:00 AM	
<p><b><u>Complaint:</u></b> Customer has concerns with water quality and would like water test.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results.</p>	<b>Free chlorine :</b> 0.17 mg/L
	<b>Total chlorine :</b> 0.44 mg/L
	<b>Temperature :</b> 11 °C
	<b>Conductivity :</b> 77.8 µS/cm
	<b>TDS:</b> 38.0 mg/L
	<b>Turbidity :</b> 1.12 NTU
	<b>pH :</b> 8.10 @ 20.7 °C
	<b>Color:</b> 11 units PtCo
	<b>Copper:</b> 87 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.07 mg/L
	<b>Hardness:</b> 43 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b> 0 cfu
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0035**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Duchess Street</b>	
<b>Phone:</b>	
<b>Date: January 8, 2018</b>	
<b>Time: 3:00 PM</b>	
<p><b><u>Complaint:</u></b> Customer has installed a water treatment system and requests to have the hardness rechecked prior to and leaving the treatment system.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results.</p>	<b>PRE UNIT</b>
	Conductivity : 569.8 $\mu$ S/cm
	TDS: 280 mg/L
	pH : 7.82
	Alkalinity : 140 mg/L
	Hardness (total) : 237 mg/L
	<b>POST UNIT</b>
	Conductivity : 583.3 $\mu$ S/cm
	TDS: 286.4 mg/L
	pH : 8.64
	Alkalinity : 140 mg/L
	Hardness (total) : non detect

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000  $\mu$ g/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10  $\mu$ g/L as a maximum.  
 Health Canada guideline for Iron is  $\leq$  0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is  $\leq$  0.05 mg/L as an aesthetic objective.

**SJWCR0565**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Ocean Court, A-4	
<b>Phone:</b>	
<b>Date:</b> January 9, 2018	
<b>Time:</b> 1:30 PM	
<p><b>Complaint:</b> Customer indicated that she had observed slime in her coffee cups as well as pots. Noticed slime in a newly purchased kettle. Customer indicated that she at one time had been on a well (hard water) and had not experienced this issue. Location is a 6 unit apartment complex</p> <p><b>Corrective Action:</b> Customer informed of results and that all were in line with west side distribution system.</p>	<b>Free chlorine :</b> 0.97 mg/L
	<b>Total chlorine :</b> 1.02 mg/L
	<b>Temperature :</b> 8°C
	<b>Conductivity :</b> 568.5µS/cm
	<b>TDS:</b> 279.8 mg/L
	<b>Turbidity :</b> 0.21 NTU
	<b>pH :</b> 7.91
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 238 mg/L
	<b>Alkalinity :</b> 138 mg/L
	<b>Copper:</b> 59 µg/L
	<b>Lead:</b> < 2 µg/L
<b>Iron:</b> non detect	
<b>Manganese :</b> 0.006 mg/L	
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0582**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Duke Street West</b>	
<b>Phone:</b>	
<b>Date: January 10, 2018</b>	
<b>Time: 10:30 AM</b>	
<b>Complaint:</b> Customer is experiencing white residue on dishes and clothing. They have taste issues periodically.	<b>Free chlorine: 0.75 mg/L</b>
	<b>Total chlorine: 0.84 mg/L</b>
	<b>Temperature: 6.5 °C</b>
	<b>Conductivity: 537.7 µS/cm</b>
	<b>TDS: 263.9 mg/L</b>
	<b>Turbidity: 0.06 NTU</b>
	<b>pH: 7.91 @ 20.0 °C</b>
	<b>Color: Non detect</b>
	<b>Hardness(total): 223 mg/L</b>
	<b>Alkalinity: 137 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: &lt;0.02 mg/L</b>
<b>Manganese: 0.005 mg/L</b>	
<b>Total coliform: 0 CFU</b>	
<b>E. coli : 0 CFU</b>	
<b>Corrective Action:</b> Advised customer of results of testing. At the time of testing, the taste issue was not present. Advised customer to call the lab directly if the taste issue returns.	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0583**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Market Square (Public Library Washroom)</b>	
<b>Phone:</b>	
<b>Date: January 12, 2018</b>	
<b>Time: 2:30 PM</b>	
<p><b><u>Complaint:</u></b> Email from J. Margaris regarding water quality generated by guest at Hilton Hotel to Telegraph Journal. Sample was to come from nearby hydrant(s) but were out of service. Location selected as substitute. Sample collected by water treatment crew.</p> <p><b><u>Corrective Action:</u></b> Results forwarded to Saint John Water staff.</p>	<b>Free chlorine :</b> 1.41 mg/L
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b> 57.3 µS/cm
	<b>TDS:</b> 28.4 mg/L
	<b>Turbidity :</b> 1.29 NTU
	<b>pH :</b> 6.48 @ 15.7°C
	<b>Color:</b> 10 PtCo units
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b> 0.06 mg/L
	<b>Bacteriological:</b>
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWCR0190





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Lancaster Avenue	
<b>Phone:</b>	
<b>Date:</b> January 16, 2018	
<b>Time:</b> 10:00 AM	
<p><b>Complaint:</b> Customer has been experiencing sand/silt in water for past month. Service sounded and no leak detected.</p> <p><b>Corrective Action:</b> Customer has been advised of results. Attempting to determine source of fine sand that was visible in bathtub, but not so evident at kitchen tap.</p> <p>TSS (kitchen tap) – 0.05 mg/L TSS (bathtub tap) – 0.65 mg/L</p>	<b>Free chlorine :</b> 0.83 mg/L
	<b>Total chlorine :</b> 0.97 mg/L
	<b>Temperature :</b> 4 °C
	<b>Conductivity :</b> 564.4 µS/cm
	<b>TDS:</b> 276.9 mg/L
	<b>Turbidity :</b> 0.07 NTU
	<b>pH :</b> 7.79 @ 16.1°C
	<b>Color:</b> -4 PtCo units
	<b>Hardness (total) :</b> 241 mg/L
	<b>Alkalinity :</b> 145 mg/L
	<b>Copper:</b> 56 µg/L
	<b>Lead:</b> 2 µg/L
	<b>Iron:</b> 0.02 mg/L
<b>Manganese :</b> 0.010 mg/L	
<b>Total coliform :</b> 0 cfu	
<b>E. coli</b> : 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0584**





# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Lancaster Avenue (hydrant)</b>	
<b>Phone:</b>	
<b>Date: January 16, 2018</b>	
<b>Time: 10:57 AM</b>	
<b><u>Complaint:</u></b> Location sampled in conjunction with issues of sand/silt in home at Lancaster Avenue. Water was clear when FH first opened, got slight orange but cleared up after 5 minutes. <b><u>Corrective Action:</u></b>  TSS – 1.2 mg/L	<b>Free chlorine : 0.86 mg/L</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity : 559.8 µS/cm</b>
	<b>TDS: 275.1 mg/L</b>
	<b>Turbidity :</b>
	<b>pH : 7.85 @ 19.4°C</b>
	<b>Color: 5 PtCo units</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron: 0.31 mg/L</b>
<b>Manganese :</b>	
<b>Total coliform :</b>	
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWMI1221



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Lancaster Avenue (hydrant)</b>	
<b>Phone:</b>	
<b>Date: January 16, 2018</b>	
<b>Time: 10:42 AM</b>	
<p><b><u>Complaint:</u></b> Location sampled in conjunction with issues of sand/silt in home at Lancaster Avenue. Water was orange colored when FH first opened but cleared up after 5 minutes.</p> <p><b><u>Corrective Action:</u></b></p> <p>TSS – 2.6 mg/L</p>	<b>Free chlorine : 0.86</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity : 560.9 µS/cm</b>
	<b>TDS: 275.2 mg/L</b>
	<b>Turbidity :</b>
	<b>pH : 7.88 @ 19.2 °C</b>
	<b>Color: 25 PtCo units</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron: 0.83 mg/L</b>
	<b>Manganese :</b>
<b>Total coliform :</b>	
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWMI1222



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: River Hill Drive (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: January 18, 2018</b>	
<b>Time: 11:30</b>	
<b><u>Complaint:</u></b> Sampled in conjunction with customer at Silvermount.	<b>Free chlorine : 0.58 mg/L</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity : 0.33 NTU</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese :</b>
<b>TSS : 0.2 mg/L</b>	
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWMI0888**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Silvermount Crescent (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: January 18, 2018</b>	
<b>Time: 11:15</b>	
<b><u>Complaint:</u></b> Sampled in conjunction with customer at Silvermount.	<b>Free chlorine : 0.68 mg/L</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity : 0.26 NTU</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese :</b>
<b>TSS : 0.1 mg/L</b>	
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCL0227



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Silvermount Crescent</b>	
<b>Phone:</b>	
<b>Date: January 18, 2018</b>	
<b>Time: 10:00 AM</b>	
<b>Complaint:</b> Customer has been having issues with silt/sand since water change over especially in tub. J. Margaris would like a nearby hydrant sampled in conjunction with home testing.  <b>Corrective Action:</b> Customer informed of results.	<b>Free chlorine : 0.42 mg/L</b>
	<b>Total chlorine : 0.72 mg/L</b>
	<b>Temperature : 6 °C</b>
	<b>Conductivity : 566.0 µS/cm</b>
	<b>TDS: 278.3 mg/L</b>
	<b>Turbidity : 0.09 NTU</b>
	<b>pH : 7.95</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 234 mg/L</b>
	<b>Alkalinity : 143 mg/L</b>
	<b>Copper: 53 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : 0.005 mg/L</b>
<b>Total Suspended Solids: 0.1 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWMI0665**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Silvermount Crescent (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: January 18, 2018</b>	
<b>Time: 10:55</b>	
<b><u>Complaint:</u></b> Sampled in conjunction with customer at Silvermount.	<b>Free chlorine : 0.00 mg/L</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity : 0.36 NTU</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese :</b>
<b>TSS : 0.4 mg/L</b>	
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.







# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address:</b> Hughes Lane	
<b>Phone:</b>	
<b>Date:</b> Feb 7, 2018	
<b>Time:</b> 1:00 PM	
<p><b><u>Complaint:</u></b> Customer requests water testing due to the appearance of 'blue' colored water.</p> <p><b><u>Corrective Action:</u></b> Investigation ongoing with copper corrosion on west side. Customer has agreed to participate in our Premise home monitoring program.</p>	<b>Free chlorine :</b> 0.88 mg/L
	<b>Total chlorine :</b> 0.97 mg/L
	<b>Temperature :</b> 8 °C
	<b>Conductivity :</b> 567.8 µS/cm
	<b>TDS:</b> 279.1 mg/L
	<b>Turbidity :</b> 0.14 NTU
	<b>pH :</b> 7.97
	<b>Color:</b> non detect units PtCo
	<b>Hardness (total) :</b> 234 mg/L
	<b>Alkalinity :</b> 139 mg/L
	<b>Copper:</b> 63 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> non detect mg/L
<b>Manganese :</b> 0.009 mg/L	
<b>Total coliform :</b> 0 cfu	
<b>E. coli</b> : 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0586**





# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address:</b> Elliot Row	
<b>Phone:</b>	
<b>Date:</b> Feb 20, 2018	
<b>Time:</b> 13:30	
<b>Complaint:</b> Strong chlorine smell and taste to her water.  <b>Corrective Action:</b> Customer advised of results of testing. Retest due to background non-coliform bacteria present.	<b>Free chlorine :</b> 1.26 mg/L
	<b>Total chlorine :</b> 1.42 mg/L
	<b>Temperature :</b> 5 °C
	<b>Conductivity :</b> 55.47 µS/cm
	<b>TDS:</b> 27.25 mg/L
	<b>Turbidity :</b> 0.96 NTU
	<b>pH :</b> 6.33 @14.7°C
	<b>Color:</b> 10 Pt-Co Units
	<b>Copper:</b> 10 Pt-Co Units
	<b>Lead:</b> <2 µg/L
	<b>Iron:</b> 0.02 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b> 0 CFU*
<b>E. coli :</b> 0 CFU	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWCR0587



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Burpee Avenue	
<b>Phone:</b>	
<b>Date:</b> February 21, 2018	
<b>Time:</b> 10:00 AM	
<p><b>Complaint:</b> Area had a main break/replacement in fall of 2017 and since then customer has been experiencing sporadic sand/silt in tap water.</p> <p><b>Corrective Action:</b> Water color had improved by time of testing. A water main leak was discovered nearby on Hawthorne Ave. Extension was being worked on Feb 21, 2018.</p>	<b>Free chlorine :</b> 0.14 mg/L
	<b>Total chlorine :</b> 0.32 mg/L
	<b>Temperature :</b> 8 °C
	<b>Conductivity :</b> 56.8 µS/cm
	<b>TDS:</b> 27.9 mg/L
	<b>Turbidity :</b> 1.48 NTU
	<b>pH :</b> 6.50
	<b>Color:</b> 16 units PtCo
	<b>Copper:</b> 535 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.25 mg/L
	<b>Bacteriological:</b>
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0588**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Elliot Row	
<b>Phone:</b>	
<b>Date:</b> Feb 22, 2018	
<b>Time:</b> 08:30	
<b>Complaint:</b> Strong chlorine smell and taste to her water.  <b>Corrective Action:</b> Advised customer of results. Retest due to background non-coliform bacteria present.	<b>Free chlorine :</b> 1.34 mg/L
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b>
	<b>Bacteriological:</b>
	<b>Total coliform :</b> 0 CFU
<b>E. coli :</b> 0 CFU	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guidelines for Lead is 10 µg/L as a maximum.  
Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWCR0587



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Rodney Street</b>	
<b>Phone:</b>	
<b>Date: February 23, 2018</b>	
<b>Time: 11:00 AM</b>	
<b><u>Complaint:</u></b> Customer has been having some health issues and would like a water quality test done.  <b><u>Corrective Action:</u></b>	<b>Free chlorine :</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b>
	<b>Manganese :</b>
<b>Total coliform :</b>	
<b>E. coli :</b>	

**\*Result indicated presence of non-coliform bacteria**  
Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address:</b> Clipper Passage	
<b>Phone:</b>	
<b>Date:</b> February 22, 2018	
<b>Time:</b> 10:00 AM	
<p><b>Complaint:</b> Customer has been experiencing rashes for the past 2 weeks. Has noticed a gray coloration to water and would like water quality test.</p> <p><b>Corrective Action:</b> In discussion with customer, all on-site tests appeared consistent with east side distribution water. Customer mentioned that issue could have resulted from little used shower stall.</p>	<b>Free chlorine :</b> 0.92 mg/L
	<b>Total chlorine :</b> 1.37 mg/L
	<b>Temperature :</b> 5 °C
	<b>Conductivity :</b> 53.7 µS/cm
	<b>TDS:</b> 26.4 mg/L
	<b>Turbidity :</b> 0.90 NTU
	<b>pH :</b> 6.38 @ 20.0°C
	<b>Color:</b> 15 PtCo units
	<b>Copper:</b> 83 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.12 mg/L
	<b>Bacteriological:</b>
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0589**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Rodney Street</b>	
<b>Phone:</b>	
<b>Date: February 26, 2018</b>	
<b>Time: 9:00 AM</b>	
<p><b><u>Complaint:</u></b> Customer has seen water quality issues with leaks on copper piping. Requests water quality testing and is submitting samples of copper piping to Saint John Water.</p> <p><b><u>Corrective Action:</u></b> Customer informed of the results of testing. Conversation also had with regards to effects of water change-over.</p>	<b>Free chlorine : 0.66 mg/L</b>
	<b>Total chlorine : 0.75 mg/L</b>
	<b>Temperature : 9 °C</b>
	<b>Conductivity : 507.6 µS/cm</b>
	<b>TDS: 249.5 mg/L</b>
	<b>Turbidity : 0.07 NTU</b>
	<b>pH : 7.91 @ 20.9°C</b>
	<b>Color: -4 PtCo units (non detect)</b>
	<b>Hardness (total) : 198 mg/L</b>
	<b>Alkalinity : 118 mg/L</b>
	<b>Copper: 127 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
<b>Manganese : 0.017 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0592**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> King Street, B2 Mechanical Room Sink	
<b>Phone:</b>	
<b>Date:</b> February 27, 2018	
<b>Time:</b> 10:30	
<p><b><u>Complaint:</u></b> Delta Hotels experiencing dirty water in some of their rooms.</p> <p><b><u>Corrective Action:</u></b> Ran tap about 5 to 10 minutes before taking sample. Client advised of results of testing.</p>	<b>Free chlorine:</b> 1.16 mg/L
	<b>Total chlorine:</b> 1.45 mg/L
	<b>Temperature:</b> not tested
	<b>Conductivity:</b> 53.59 µS/cm
	<b>TDS:</b> 26.36
	<b>Turbidity :</b> 2.24 NTU
	<b>pH:</b> 6.52 @ 16.8 °C
	<b>Color:</b> 21 Pt-Co Units
	<b>Copper:</b> 197 µg/L
	<b>Lead:</b> 2 µg/L
	<b>Iron:</b> 0.08 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b> 0 CFU
	<b>E. coli :</b> 0 CFU

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0590**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Germain Street, Hydrant in front of City Market	
<b>Phone:</b>	
<b>Date:</b> February 27, 2018	
<b>Time:</b> 10:00	
<b><u>Complaint:</u></b> Delta Hotels experiencing dirty water in some of their rooms.  <b><u>Corrective Action:</u></b> Hydrant ran dirty for only about 20 seconds and then cleared up. Ran for about 10 minutes before taking sample.	<b>Free chlorine :</b> 0.73 mg/L
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b> 0.05 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b>
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guidelines for Lead is 10 µg/L as a maximum.  
Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0MI1233**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street, Room 302</b>	
<b>Phone:</b>	
<b>Date: February 27, 2018</b>	
<b>Time: 11:00</b>	
<p><b><u>Complaint:</u></b> There was brown chunky water coming from tap.</p> <p><b><u>Corrective Action:</u></b> Ran bathroom sink tap for about 5 to 10 minutes before taking sample. As I was sampling the bathroom sink tap, maintenance personnel ran the tub to about ½ full and the tub ran clear. Client advised of results of testing.</p>	<b>Free chlorine : 0.77 mg/L</b>
	<b>Total chlorine : 0.95 mg/L</b>
	<b>Temperature : not tested</b>
	<b>Conductivity: 54.19 µS/cm</b>
	<b>TDS: 26.56 mg/L</b>
	<b>Turbidity : 2.40 NTU</b>
	<b>pH: 6.33 @ 16.8°C</b>
	<b>Color: 16 Pt-Co Units</b>
	<b>Copper: 467 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.05 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform: not tested</b>
<b>E. coli: not tested</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWCR0591



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Hayes Avenue</b>	
<b>Phone:</b>	
<b>Date: February 27, 2018</b>	
<b>Time: 1:30 PM</b>	
<b><u>Complaint:</u></b> Customer requests water quality testing.	<b>Free chlorine : 0.79 mg/L</b>
	<b>Total chlorine : 0.79 mg/L</b>
	<b>Temperature : 8 °C</b>
	<b>Conductivity : 509.2 µS/cm</b>
	<b>TDS: 249.5 mg/L</b>
	<b>Turbidity : 0.08 NTU</b>
	<b>pH : 7.86</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 198 mg/L</b>
	<b>Alkalinity : 117 mg/L</b>
	<b>Copper: 90 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.01 mg/L</b>
	<b>Manganese : 0.007 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	
<b><u>Corrective Action:</u></b> Customer informed of results.	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0541



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Gault Road</b>	
<b>Phone:</b>	
<b>Date: March 1, 2018</b>	
<b>Time: 1:15 PM</b>	
<b>Complaint:</b> Customer having issues with sour smell to water especially when sitting over a period of time.  <b>Corrective Action:</b> Customer notified of results.	<b>Free chlorine : 0.56 mg/L</b>
	<b>Total chlorine : 0.57 mg/L</b>
	<b>Temperature : 8 °C</b>
	<b>Conductivity : 513.9 µS/cm</b>
	<b>TDS: 252.9 mg/L</b>
	<b>Turbidity : 0.08 NTU</b>
	<b>pH : 7.94</b>
	<b>Color: 3 units PtCo</b>
	<b>Hardness (total) : 205 mg/L</b>
	<b>Alkalinity : 117 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: non detect</b>
<b>Manganese : 0.008 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0593



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Downsview Drive	
<b>Phone:</b>	
<b>Date:</b> March 6, 2018	
<b>Time:</b> 10:00 AM	
<p><b>Complaint:</b> Customer is having a water softener installed and would like to know the hardness of the water being treated.</p> <p><b>Corrective Action:</b> Testing results for all parameters tested are consistent with those found in west side distribution system and within guidelines.</p>	<b>Free chlorine :</b> 0.80 mg/L
	<b>Total chlorine :</b> 0.89 mg/L
	<b>Temperature :</b> 8°C
	<b>Conductivity :</b> 517.1 µS/cm
	<b>TDS:</b> 253.3 mg/L
	<b>Turbidity :</b> 0.06 NTU
	<b>pH :</b> 7.91 @ 20.5°C
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 198 mg/L
	<b>Alkalinity :</b> 117 mg/L
	<b>Copper:</b> < 50 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> non detect
<b>Manganese :</b> 0.011 mg/L	
<b>Total coliform :</b> 0 cfu	
<b>E. coli</b> : 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0594**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Hitachi Crescent</b>	
<b>Phone:</b>	
<b>Date: March 6, 2018</b>	
<b>Time: 1:30 PM</b>	
<p><b><u>Complaint:</u></b> Customer was in attendance at Open House where she was told that SJW would do water quality testing. Customer requests parameters be checked.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results.</p>	<b>Free chlorine : 0.95 mg/L</b>
	<b>Total chlorine : 0.95 mg/L</b>
	<b>Temperature : 8 °C</b>
	<b>Conductivity : 518.7 µS/cm</b>
	<b>TDS: 254.2 mg/L</b>
	<b>Turbidity : 0.09 NTU</b>
	<b>pH : 7.91</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 202 mg/L</b>
	<b>Alkalinity : 121 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.01 mg/L</b>
<b>Manganese : 0.015 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0595**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Birchwood Place</b>	
<b>Phone:</b>	
<b>Date: March 7, 2018</b>	
<b>Time: 2:45 PM</b>	
<p><b><u>Complaint:</u></b> Customer has indicated that since change-over he likes the taste of water but for past 1.5 – 2 months, has noticed a plastic taste. Would like water quality test.</p> <p><b><u>Corrective Action:</u></b> Results reported to customer. Water main on street is 200 mm ductile iron. Water service is copper.</p>	<b>Free chlorine : 0.89 mg/L</b>
	<b>Total chlorine : 0.94 mg/L</b>
	<b>Temperature : 8 °C</b>
	<b>Conductivity : 516.0 µS/cm</b>
	<b>TDS: 252.7 mg/L</b>
	<b>Turbidity : 0.08 NTU</b>
	<b>pH : 7.92</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 203 mg/L</b>
	<b>Alkalinity : 116 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
<b>Iron: non detect</b>	
<b>Manganese : 0.017 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0596**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Seely Street</b>	
<b>Phone:</b>	
<b>Date: March 7, 2018</b>	
<b>Time: 08:30</b>	
<b><u>Complaint:</u></b> Strong chlorine smell and recent work has been done on the street and she would like to be reassured of water quality.  <b><u>Corrective Action:</u></b> Client advised of results of testing.	<b>Free chlorine: 1.04 mg/L</b>
	<b>Total chlorine: 1.21 mg/L</b>
	<b>Temperature: 6°C</b>
	<b>Conductivity: 56.29 µS/cm</b>
	<b>TDS: 27.54 mg/L</b>
	<b>Turbidity: 0.99 NTU</b>
	<b>pH: 6.48 @ 17.3°C</b>
	<b>Color: 8 Pt-Co Units</b>
	<b>Copper: 342 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.06 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform: 0 CFU</b>
<b>E. coli : 0 CFU</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0194**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Main Street (West)</b>	
<b>Phone:</b>	
<b>Date: March 9, 2018</b>	
<b>Time: 10:00 AM</b>	
<p><b><u>Complaint:</u></b> Customer would like water test to determine if lead is present in his water.</p> <p><b><u>Corrective Action:</u></b> City records from 1995 indicated that City side of shut off had been replaced with copper pipe but service line entering building was lead. Was informed by customer that service line had been replaced due to break approximately 5 years ago.</p>	<b>Free chlorine : 0.67 mg/L</b>
	<b>Total chlorine : 0.68 mg/L</b>
	<b>Temperature : 7 °C</b>
	<b>Conductivity : 514.0 µS/cm</b>
	<b>TDS: 252.3 mg/L</b>
	<b>Turbidity : 0.11 NTU</b>
	<b>pH : 7.86 @ 21.7°C</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 198 mg/L</b>
	<b>Alkalinity : 119 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
<b>Iron: non detect</b>	
<b>Manganese : 0.013 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0598**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Manawagonish Road</b>	
<b>Phone:</b>	
<b>Date: March 13, 2018</b>	
<b>Time: 1:30 PM</b>	
<b>Complaint:</b> Customer has had 2 water breaks since change-over and would like water test.  <b>Corrective Action:</b> Customer notified of results.	<b>Free chlorine : 0.92 mg/L</b>
	<b>Total chlorine : 0.83 mg/L</b>
	<b>Temperature : 8 °C</b>
	<b>Conductivity : 527.4 µS/cm</b>
	<b>TDS: 258.8 mg/L</b>
	<b>Turbidity : 0.10 NTU</b>
	<b>pH : 7.82</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 202 mg/L</b>
	<b>Alkalinity : 123 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.09 mg/L</b>
<b>Manganese : 0.003 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0597



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Charlotte Street West</b>	
<b>Phone:</b>	
<b>Date: March 28, 2018</b>	
<b>Time: 1:30 PM</b>	
<b><u>Complaint:</u></b> Customer requests water testing after having issues with scum on boiled water, mineral scaling in appliances, and drying out of skin and hair.  <b><u>Corrective Action:</u></b> Customer informed of results. Issues are all relating to water hardness.	<b>Free chlorine : 0.82 mg/L</b>
	<b>Total chlorine : 0.83 mg/L</b>
	<b>Temperature : 7 °C</b>
	<b>Conductivity : 528.2 µS/cm</b>
	<b>TDS: 259.4 mg/L</b>
	<b>Turbidity : 0.21 NTU</b>
	<b>pH : 7.85 @ 20.3°C</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 204 mg/L</b>
	<b>Alkalinity : 120 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.03 mg/L</b>
<b>Manganese : 0.014 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0600**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Tippet Drive</b>	
<b>Phone:</b>	
<b>Date: March 29, 2018</b>	
<b>Time: 1:30 PM</b>	
<p><b><u>Complaint:</u></b> Customer would like water quality test as in years past his area had experienced low chlorine residuals.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results. Micro sample indicated the presence of 1 total coliform. Resample scheduled for Apr 3, 2018.</p>	<b>Free chlorine : 0.75 mg/L</b>
	<b>Total chlorine : 0.73 mg/L</b>
	<b>Temperature : 7 °C</b>
	<b>Conductivity : 529.4 µS/cm</b>
	<b>TDS: 260.0 mg/L</b>
	<b>Turbidity : 0.19 NTU</b>
	<b>pH : 7.89</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 206 mg/L</b>
	<b>Alkalinity : 122 mg/L</b>
	<b>Copper: 70 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
<b>Manganese : 0.008 mg/L</b>	
<b>Total coliform : 1 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0228**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Horsler Drive	
<b>Phone:</b>	
<b>Date:</b> March 29, 2018	
<b>Time:</b> 10:00	
<b>Complaint:</b> Having skin problems and would like to have a water test to discuss the results with her doctor. Customer has been living at this location for about 20 years and has just recently had these skin issues. <b>Corrective Action:</b> Advised of results of testing.	<b>Free chlorine:</b> 0.76 mg/L
	<b>Total chlorine:</b> 0.78 mg/L
	<b>Temperature:</b> 8°C
	<b>Conductivity:</b> 537.3 µS/cm
	<b>TDS:</b> 264.1 mg/L
	<b>Turbidity:</b> 0.19 NTU
	<b>pH:</b> 7.85 @ 17.0°C
	<b>Color:</b> 3 Pt-Co Units
	<b>Hardness(total):</b> 208 mg/L
	<b>Alkalinity:</b> 124 mg/L
	<b>Copper:</b> <50 µg/L
	<b>Lead:</b> <2 µg/L
	<b>Iron:</b> 0.00 mg/L
<b>Manganese:</b> 0.016 mg/L	
<b>Total coliform:</b> 0 CFU	
<b>E. coli</b> : 0 CFU	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0599



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Tippet Drive</b>	
<b>Phone:</b>	
<b>Date: April 3, 2018</b>	
<b>Time: 1:30 PM</b>	
<b>Complaint:</b> Microbiological sample taken March indicated 1 total coliform. Free chlorine during time of sampling was 0.75 mg/L  <b>Corrective Action:</b> Resample taken. Sample indicated no total coliform but background bacteria. Customer informed of results. Resample scheduled.	<b>Free chlorine : 0.72 mg/L</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b>
<b>Manganese :</b>	
<b>Total coliform : 0 cfu *</b>	
<b>E. coli : 0 cfu</b>	

\*No total coliform but background bacteria indicated.

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Tippet Drive</b>	
<b>Phone:</b>	
<b>Date: April 5, 2018</b>	
<b>Time: 9:30 AM</b>	
<p><b>Complaint:</b> Microbiological sample taken April 3 indicated background bacteria.</p> <p>Free chlorine during time of sampling was 0.72 mg/L</p> <p><b>Corrective Action:</b> Resamples taken. Kitchen tap was partially disinfected for sample#2. Customer informed of results. He will disinfect kitchen tap and resample will be scheduled.</p>	<b>Kitchen Tap (first sample)</b>
	Free Chlorine : 0.75 mg/L
	Total coliform : 0 cfu *
	E. coli : 0 cfu
	<b>Kitchen Tap (second sample)</b>
	Free Chlorine : 0.85 mg/L
	Total coliform : 1 cfu *
	E. coli : 0 cfu
<b>Bathroom Tap</b>	
Free Chlorine : 0.70 mg/L	
Total coliform : 0 cfu	
E. coli : 0 cfu	

\*No total coliform but background bacteria indicated.

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0228**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 6, 2018</b>	
<b>Time: 1:35 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.  <b><u>Corrective Action:</u></b>	<b>Free chlorine : 1.60 mg/L</b>
	<b>Conductivity : 56.5 µg/L</b>
	<b>TDS: 28.5 mg/L</b>
	<b>Turbidity : 1.31 NTU</b>
	<b>pH : 6.26 @ 11.1 °C</b>
	<b>Color: 7 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.06 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1239



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Germain Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 6, 2018</b>	
<b>Time: 9:20 AM</b>	
<b>Complaint:</b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.  <b>Corrective Action:</b>	<b>Free chlorine : 1.69 mg/L</b>
	<b>Conductivity : 57.4 µS/cm</b>
	<b>TDS: 28.2 mg/L</b>
	<b>Turbidity : 1.30 NTU</b>
	<b>pH : 6.14 @ 11.6 °C</b>
	<b>Color: 7 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.08 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1238





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Germain Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 6, 2018</b>	
<b>Time: 9:05 AM</b>	
<b><u>Complaint:</u> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.</b>	<b>Free chlorine : 1.54 mg/L</b>
	<b>Conductivity : 55.9 µS/cm</b>
	<b>TDS: 27.5 mg/L</b>
	<b>Turbidity : 1.13 NTU</b>
	<b>pH : 6.20 @ 10.6 °C</b>
	<b>Color: 5 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.09 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1233



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Union Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 6, 2018</b>	
<b>Time: 1:05 PM</b>	
<b><u>Complaint:</u> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.</b>	<b>Free chlorine : 1.60 mg/L</b>
	<b>Conductivity : 56.1 µS/cm</b>
	<b>TDS: 27.7 mg/L</b>
	<b>Turbidity : 1.35 NTU</b>
	<b>pH : 6.34 @ 10.7 °C</b>
	<b>Color: 8 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.07 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWMI0936**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 6, 2018</b>	
<b>Time: 1:20 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.	<b>Free chlorine : 1.72 mg/L</b>
	<b>Conductivity : 56.3 µg/L</b>
	<b>TDS: 27.7 mg/L</b>
	<b>Turbidity : 1.39 NTU</b>
	<b>pH : 6.33 @ 9.5 °C</b>
	<b>Color: 10 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.08 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI0839



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Germain Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 10, 2018</b>	
<b>Time: 2:20 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.  <b><u>Corrective Action:</u></b>	<b>Free chlorine : 1.43 mg/L</b>
	<b>Conductivity : 56.3 µS/cm</b>
	<b>TDS: 27.5 mg/L</b>
	<b>Turbidity : 1.34 NTU</b>
	<b>pH : 6.38 @ 14.3 °C</b>
	<b>Color: 9 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.09 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1238



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Germain Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 10, 2018</b>	
<b>Time: 2:25 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.  <b><u>Corrective Action:</u></b>	<b>Free chlorine : 1.53 mg/L</b>
	<b>Conductivity : 55.4 µS/cm</b>
	<b>TDS: 27.2 mg/L</b>
	<b>Turbidity : 1.23 NTU</b>
	<b>pH : 6.30 @ 15.6 °C</b>
	<b>Color: 6 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.06 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1233



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Union Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 10, 2018</b>	
<b>Time: 2:05 PM</b>	
<b>Complaint:</b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.	<b>Free chlorine : 1.44 mg/L</b>
	<b>Conductivity : 55.2 µS/cm</b>
	<b>TDS: 27.1 mg/L</b>
	<b>Turbidity : 1.30 NTU</b>
	<b>pH : 6.36 @ 16.0 °C</b>
	<b>Color: 9 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.06 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>
<b>Corrective Action:</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L.  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWMI0936**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 10, 2018</b>	
<b>Time: 2:45 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.  <b><u>Corrective Action:</u></b>	<b>Free chlorine : 1.60 mg/L</b>
	<b>Conductivity : 55.3 µg/L</b>
	<b>TDS: 27.3 mg/L</b>
	<b>Turbidity : 1.27 NTU</b>
	<b>pH : 6.33 @ 14.6 °C</b>
	<b>Color: 8 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.07 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1239





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street, B2 Mechanical Room Sink</b>	
<b>Phone:</b>	
<b>Date: April 10, 2018</b>	
<b>Time: 3:10 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check area hydrants and within the Delta.  <b><u>Corrective Action:</u></b>	<b>Free chlorine: 1.40 mg/L</b>
	<b>Conductivity: 56.8 µS/cm</b>
	<b>TDS: 28.0 mg/L</b>
	<b>Turbidity : 1.36 NTU</b>
	<b>pH: 6.36 @ 17.2 °C</b>
	<b>Color: 8 units PtCo</b>
	<b>Copper: 687 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.06 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0590**





# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: King Street, Room 307</b>	
<b>Phone:</b>	
<b>Date: April 10, 2018</b>	
<b>Time: 3:20 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check area hydrants and within the Delta.	<b>Free chlorine : 1.00 mg/L</b>
	<b>Conductivity: 55.4 µS/cm</b>
	<b>TDS: 27.2 mg/L</b>
	<b>Turbidity : 1.13 NTU</b>
	<b>pH: 6.46 @ 17.4°C</b>
	<b>Color: 7 units PtCo</b>
	<b>Copper: 213 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.06 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform: not tested</b>
	<b>E. coli: not tested</b>
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0591**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 10, 2018</b>	
<b>Time: 2:35 PM</b>	
<b><u>Complaint:</u></b> Request from James Margaris to check hydrants in area due to complaint of water discoloration by the Delta.  <b><u>Corrective Action:</u></b>	<b>Free chlorine : 1.58 mg/L</b>
	<b>Conductivity : 55.6 µg/L</b>
	<b>TDS: 27.3 mg/L</b>
	<b>Turbidity : 1.20 NTU</b>
	<b>pH : 6.33 @ 14.9 °C</b>
	<b>Color: 7 units PtCo</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.06 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI0839



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Byron Street	
<b>Phone:</b>	
<b>Date:</b> April 17, 2018	
<b>Time:</b> 3:00 PM	
<b>Complaint:</b> Customer has noticed change in water quality and asked if we can check the water.  <b>Corrective Action:</b> Customer notified of results. Distribution to investigate and flush a nearby hydrant.	<b>Free chlorine :</b> 0.08 mg/L
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b> 0.41 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b>
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 6.5 and 8.5.

Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guidelines for Lead is 10 µg/L as a maximum.

Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0518**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Lomond Court</b>	
<b>Phone:</b>	
<b>Date: April 19, 2018</b>	
<b>Time: 10:00 AM</b>	
<b>Complaint:</b> Customer lost water pressure on April 14, 2018 for a few minutes. When it returned some material came in his cold water service and blocked off a couple taps and a toilet. <b>Corrective Action:</b> Customer notified of results. Water meets health guidelines. Material from filter housing and tap collected. Material appears to be a resin or filter media and small pieces of iron.	<b>Free chlorine : 1.27 mg/L</b>
	<b>Total chlorine : 1.31 mg/L</b>
	<b>Temperature : 7 °C</b>
	<b>Conductivity : 57.1 µS/cm</b>
	<b>TDS: 28.1 mg/L</b>
	<b>Turbidity : 1.00 NTU</b>
	<b>pH : 6.26</b>
	<b>Color: 7 units PtCo</b>
	<b>Copper: 93 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.07 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : 0 cfu</b>
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guidelines for Lead is 10 µg/L as a maximum.

Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWCR0602



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Central Avenue</b>	
<b>Phone:</b>	
<b>Date: April 20, 2018</b>	
<b>Time: 9:30 AM</b>	
<p><b><u>Complaint:</u></b> Customer would like a water quality test including hardness.</p> <p><b><u>Corrective Action:</u></b> Advised of results of testing.</p>	<b>Free chlorine: 0.88 mg/L</b>
	<b>Total chlorine: 0.92 mg/L</b>
	<b>Temperature: 7 °C</b>
	<b>Conductivity: 537.1 µS/cm</b>
	<b>TDS: 263.8 mg/L</b>
	<b>Turbidity: 0.07 NTU</b>
	<b>pH: 7.84 @ 17.0 °C</b>
	<b>Color: -2 Pt-Co Units</b>
	<b>Hardness (total): 211 mg/L</b>
	<b>Alkalinity: 199 mg/L</b>
	<b>Copper: 99 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.01 mg/L</b>
	<b>Manganese: 0.022 mg/L</b>
<b>Total coliform: 0 CFU</b>	
<b>E. coli : 0 CFU</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0603**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Westmorland Road (hydrant)</b>	
<b>Phone:</b>	
<b>Date: April 20, 2018</b>	
<b>Time: 14:00</b>	
<p><b><u>Complaint:</u></b> Tested in conjunction with a home on 4 Byron Street. Customer on 4 Byron has low chlorine and elevated iron.</p> <p><b><u>Corrective Action:</u></b> Distribution to investigate area.</p>	<b>Free chlorine : 1.02 mg/L</b>
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron: 0.12 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform :</b>
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1241



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Havelock Street	
<b>Phone:</b>	
<b>Date:</b> April 20, 2018	
<b>Time:</b> 10:00 AM	
<p><b>Complaint:</b> Customer has had no issues with water since change-over but would like a water quality test.</p> <p><b>Corrective Action:</b> Customer notified of results.</p>	<b>Free chlorine :</b> 0.88 mg/L
	<b>Total chlorine :</b> 0.89 mg/L
	<b>Conductivity :</b> 535.0 µS/cm
	<b>TDS:</b> 262.1 mg/L
	<b>Turbidity :</b> 0.13 NTU
	<b>pH :</b> 7.93 @ 22.6 °C
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 211 mg/L
	<b>Alkalinity :</b> 121 mg/L
	<b>Copper:</b> < 50 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> < 0.02 mg/L
	<b>Manganese :</b> 0.013 mg/L
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0604**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Sherbrooke Street</b>	
<b>Phone:</b>	
<b>Date: April 20, 2018</b>	
<b>Time: 11:20 AM</b>	
<p><b><u>Complaint:</u></b> Customer has had no issues with water since change-over but would like a water quality test.</p> <p><b><u>Corrective Action:</u></b> Customer notified of results.</p>	<b>Free chlorine : 0.92 mg/L</b>
	<b>Total chlorine : 1.03 mg/L</b>
	<b>Conductivity : 535.3 µS/cm</b>
	<b>TDS: 262.6 mg/L</b>
	<b>Turbidity : 0.15 NTU</b>
	<b>pH : 7.91 @ 22.7 °C</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 228 mg/L</b>
	<b>Alkalinity : 125 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: &lt; 0.02 mg/L</b>
	<b>Manganese : 0.018 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0605**





## City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Byron Street	
<b>Phone:</b>	
<b>Date:</b> April 20, 2018	
<b>Time:</b> 2:00 PM	
<b>Complaint:</b> Customer has noticed change in water quality and asked if we can check the water.  <b>Corrective Action:</b> Customer notified of results. Distribution to investigate area.	<b>Free chlorine :</b> 0.01 mg/L
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b> 0.74 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b>
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 6.5 and 8.5.

Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guidelines for Lead is 10 µg/L as a maximum.

Health Canada guidelines for Iron is  $\leq 0.3$  mg/L as an aesthetic objective.

**SJWCR0518**



## City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Byron Street	
<b>Phone:</b>	
<b>Date:</b> April 26, 2018	
<b>Time:</b> 3:30 PM	
<b>Complaint:</b> Customer has noticed change in water quality and asked if we can check the water.  <b>Corrective Action:</b> Customer notified of results. Distribution to investigate area. Hydrant in front of 16 Byron flushing and very good residual at that location.	<b>Free chlorine :</b> 0.02 mg/L
	<b>Total chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b> 0.59 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b>
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 6.5 and 8.5.

Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guidelines for Lead is 10 µg/L as a maximum.

Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0518**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Cove Roadway</b>	
<b>Phone:</b>	
<b>Date: April 27, 2018</b>	
<b>Time: 1:30 PM</b>	
<p><b><u>Complaint:</u> Customer would like water quality testing done.</b></p> <p><b><u>Corrective Action:</u> Customer informed that all parameters tested are consistent with west side distribution locations.</b></p>	<b>Free chlorine : 0.75 mg/L</b>
	<b>Total chlorine : 1.01 mg/L</b>
	<b>Temperature : 8°C</b>
	<b>Conductivity : 534.2 µS/cm</b>
	<b>TDS: 261.9 mg/L</b>
	<b>Turbidity : 0.07 NTU</b>
	<b>pH : 7.78 @ 20.5°C</b>
	<b>Color: 2 PtCo units</b>
	<b>Hardness (total) : 205 mg/L</b>
	<b>Alkalinity :124 mg/L</b>
	<b>Copper: 200 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: non detect</b>
<b>Manganese : 0.014 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0606**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Eveleigh Court</b>	
<b>Phone:</b>	
<b>Date: May 11, 2018</b>	
<b>Time: 14:30</b>	
<b><u>Complaint:</u></b> Stale smell and taste in water for the past two days.	<b>Free chlorine: 0.58 mg/L</b>
	<b>Total chlorine: 1.32 mg/L</b>
	<b>Temperature: 10°C</b>
	<b>Conductivity: 56.5 µS/cm</b>
	<b>TDS: 27.6 mg/L</b>
	<b>Turbidity: 1.07 NTU</b>
	<b>pH: 6.47 @16.2°C</b>
	<b>Color: 9 Pt-Co Units</b>
	<b>Copper: 211 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.53 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform: 0 CFU</b>
<b>E. coli : 0 CFU</b>	
<b><u>Corrective Action:</u></b> Performed hydrant flushing on Eveleigh Court after water testing. Customer has been notified of results of testing. Customer states that she notices water better since flushing. Will be resampling May 15 <sup>th</sup> .	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWCR0607





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Eveleigh Court</b>	
<b>Phone:</b>	
<b>Date: May 15, 2018</b>	
<b>Time: 11:15</b>	
<b>Hydrant flushing due to water quality complaint regarding stale water at 15 Eveleigh Court. Hydrant flushed since May 11th.</b>	<b>Free chlorine: 0.31 mg/L</b>
	<b>Iron: 0.07 mg/L</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guidelines for Lead is 10 µg/L as a maximum.  
Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI1253



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: River Hill Drive</b>	
<b>Phone:</b>	
<b>Date: May 15, 2018</b>	
<b>Time: 1:30 PM</b>	
<p><b><u>Complaint:</u></b> Customer has noticed a sulfur smell to her water for the past couple of weeks.</p> <p><b><u>Corrective Action:</u></b> Customer notified of results. Water has no bacteria present and adequate level of chlorine for disinfection. Water is safe to consume.</p>	<b>Free chlorine : 0.78 mg/L</b>
	<b>Total chlorine : 0.79 mg/L</b>
	<b>Temperature : 7 °C</b>
	<b>Conductivity : 528.7 µS/cm</b>
	<b>TDS: 259.4 mg/L</b>
	<b>Turbidity : 0.11 NTU</b>
	<b>pH : 7.96 @ 14.7 °C</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 2 mg/L</b>
	<b>Alkalinity : 126 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.01 mg/L</b>
<b>Manganese : non detect</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0608**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Westgate Drive	
<b>Phone:</b>	
<b>Date:</b> May 25, 2018	
<b>Time:</b> 09:00 AM <span style="float: right;"><b>(KITCHEN TAP)</b></span>	
<p><b>Complaint:</b> Customer has detected a strong sulphur smell coming from her bathroom tap when brushing teeth. (cold water) She finds it especially strong at this particular tap.</p> <p><b>Corrective Action:</b> Sampled both kitchen and bathroom taps. Customer notified of results. Water chemistry is similar at both taps.</p>	<b>Free chlorine :</b> 0.89 mg/L
	<b>Total chlorine :</b> 0.91 mg/L
	<b>Temperature :</b> 8 °C
	<b>Conductivity :</b> 538.4 µS/cm
	<b>TDS:</b> 264.1 mg/L
	<b>Turbidity :</b> 0.30 NTU
	<b>pH :</b> 7.77
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 216 mg/L
	<b>Alkalinity :</b> 124 mg/L
	<b>Copper:</b> < 50 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> < 0.02 mg/L
<b>Manganese :</b> 0.016 mg/L	
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0609**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Westgate Drive	
<b>Phone:</b>	
<b>Date:</b> May 25, 2018	
<b>Time:</b> 09:00 AM (BATHROOM TAP)	
<p><b>Complaint:</b> Customer has detected a strong sulphur smell coming from her bathroom tap when brushing teeth. (cold water) She finds it especially strong at this particular tap.</p> <p><b>Corrective Action:</b> Sampled both kitchen and bathroom taps. Customer notified of results. Water chemistry is similar at both taps.</p>	<b>Free chlorine :</b> 0.94 mg/L
	<b>Total chlorine :</b> 0.99 mg/L
	<b>Temperature :</b> 9 °C
	<b>Conductivity :</b> 537.5 µS/cm
	<b>TDS:</b> 263.9 mg/L
	<b>Turbidity :</b> 0.10 NTU
	<b>pH :</b> 7.75
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 218 mg/L
	<b>Alkalinity :</b> 125 mg/L
	<b>Copper:</b> < 50 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.02 mg/L
<b>Manganese :</b> 0.017 mg/L	
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0609**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Maple Row</b>	
<b>Phone:</b>	
<b>Date: May 29, 2018</b>	
<b>Time: 1:30 PM</b>	
<b>Complaint:</b> Customer would like water quality testing done including lead.  <b>Corrective Action:</b> Customer notified with results.	<b>Free chlorine : 0.81 mg/L</b>
	<b>Total chlorine : 0.86 mg/L</b>
	<b>Temperature : 8 °C</b>
	<b>Conductivity : 541.6 µS/cm</b>
	<b>TDS: 266.3 mg/L</b>
	<b>Turbidity : 0.37 NTU</b>
	<b>pH : 7.80</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 210 mg/L</b>
	<b>Alkalinity : 127 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: &lt; 0.02 mg/L</b>
	<b>Manganese : 0.010 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0610



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Mahogany Terrace</b>	
<b>Phone:</b>	
<b>Date: June 7, 2017</b>	
<b>Time: 1:30 PM</b>	
<b>Complaint:</b> Customer requests water to be checked after experiencing a sulfur smell for the past few months. Getting more frequent.  <b>Corrective Action:</b> Customer notified of results. Sulfide samples also taken and being sent for analysis. Water hardness through customers softener = 2 mg/L	<b>Free chlorine : 0.97 mg/L</b>
	<b>Total chlorine : 0.97 mg/L</b>
	<b>Temperature : 11 °C</b>
	<b>Conductivity : 539.4 µS/cm</b>
	<b>TDS: 263.9 mg/L</b>
	<b>Turbidity : 0.07 NTU</b>
	<b>pH : 7.81</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 216 mg/L</b>
	<b>Alkalinity : 126 mg/L</b>
	<b>Copper: 53 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.00 mg/L</b>
<b>Manganese : 0.012 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 50 µg/L as an aesthetic objective.

**SJWCR0562**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Mahogany Terrace</b>	
<b>Phone:</b>	
<b>Date: June 8, 2017</b>	
<b>Time: 2:30 PM</b>	
<p><b><u>Complaint:</u></b> Customer requests water to be checked after experiencing a sulfur smell for the past few months. Getting more frequent. Hydrant was flushed and house tap resampled.</p> <p><b><u>Corrective Action:</u></b> Customer notified of results. Sulfide samples also taken and being sent for analysis.</p>	<b>Free chlorine : 0.76 mg/L</b>
	<b>Total chlorine : 0.82 mg/L</b>
	<b>Temperature : 11 °C</b>
	<b>Conductivity : 557.1 µS/cm</b>
	<b>TDS: 272.0 mg/L</b>
	<b>Turbidity : 0.11 NTU</b>
	<b>pH : 7.94</b>
	<b>Color: non detect</b>
	<b>Hardness(total):2 mg/L(softener)</b>
	<b>Alkalinity : 129 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: non detect</b>
<b>Manganese : non detect</b>	
<b>Total coliform : not done</b>	
<b>E. coli : not done</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 50 µg/L as an aesthetic objective.

**SJWCR0562**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address:</b> Ocean Westway	
<b>Phone:</b>	
<b>Date:</b> June 11, 2018	
<b>Time:</b> 13:30	
<p><b><u>Complaint:</u></b> Customer has had black material showing up in toilet repeatedly. She also advises the water is unpleasant to smell or taste.</p> <p><b><u>Corrective Action:</u></b> Some material was evident in the back toilet tanks. (2) Requested to have water service checked for leaks. Cleaned out one toilet tank, customer will monitor the unit.</p>	<b>Free chlorine :</b> 0.87 mg/L
	<b>Total chlorine :</b> 0.84 mg/L
	<b>Temperature :</b> 12 °C
	<b>Conductivity :</b> 558.2 µS/cm
	<b>TDS:</b> 272.4 mg/L
	<b>Turbidity :</b> 0.12 NTU
	<b>pH :</b> 7.82
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 224 mg/L
	<b>Alkalinity :</b> 130 mg/L
	<b>Copper:</b> < 50 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.01 mg/L
<b>Manganese :</b> non detect	
<b>Total coliform :</b> 0 cfu	
<b>E. coli</b> : 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0025**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Lakeview Drive	
<b>Phone:</b>	
<b>Date:</b> June 12, 2018	
<b>Time:</b> 09:00 AM	
<p><b><u>Complaint:</u></b> Customer house filter has been plugging off more frequently. Requests water testing.</p> <p><b><u>Corrective Action:</u></b> Customer notified of results. Work being done by port city water partners is likely cause of increased sediments.</p>	<b>Free chlorine :</b> 1.75 mg/L
	<b>Total chlorine :</b> 1.70 mg/L
	<b>Temperature :</b> 15 °C
	<b>Conductivity :</b> 61.7 µS/cm
	<b>TDS:</b> 30.1 mg/L
	<b>Turbidity :</b> 1.05 NTU
	<b>pH :</b> 6.63
	<b>Color:</b> 11 units PtCo
	<b>Copper:</b> 112 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.02 mg/L
	<b>Bacteriological:</b>
	<b>Total coliform :</b> 0 cfu
	<b>E. coli :</b> 0 cfu
<b>Total Suspended Solids</b>	
<b>-28.6 mg/L</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWCR0611





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Lakeview Drive (Hydrant)</b>	
<b>Phone:</b>	
<b>Date: June 12, 2018</b>	
<b>Time: 09:45 AM</b>	
<b><u>Complaint:</u></b> Hydrant checked in conjunction with house call at Lakeview Drive.	<b>Free chlorine : 0.23 mg/L</b>
	<b>Total chlorine : not done</b>
	<b>Temperature : 15 °C</b>
	<b>Conductivity : 61.5 µS/cm</b>
	<b>TDS: 30.0 mg/L</b>
	<b>Turbidity : 2.23 NTU</b>
	<b>pH : 6.64</b>
	<b>Color: 20 units PtCo</b>
	<b>Copper: not done</b>
	<b>Lead: not done</b>
	<b>Iron: 0.13 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : not done</b>
	<b>E. coli : not done</b>
<b>Total Suspended Solids</b>	
<b>-22.7 mg/L</b>	
<b><u>Corrective Action:</u></b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

SJWMI0747



## City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Kelton Street	
<b>Phone:</b>	
<b>Date:</b> June 18, 2018	
<b>Time:</b> 01:30 PM	
<b>Complaint:</b> Customer is having issues with grit in cold water. SJW replaced its side of water service in 2016 after similar complaint. The water service runs under or nearby a tree in front yard which may have damaged the service leading to replacement in 2016. <b>Corrective Action:</b> Requested to have water service checked. Customer informed of water test results.	<b>Free chlorine :</b> 1.09 mg/L
	<b>Total chlorine :</b> 1.29 mg/L
	<b>Temperature :</b> 15°C
	<b>Conductivity :</b> 63.2 µS/cm
	<b>TDS:</b> 30.9 mg/L
	<b>Turbidity :</b> 1.30 NTU
	<b>pH :</b> 6.68
	<b>Color:</b> 14 units PtCo
	<b>Copper:</b> 178 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.04 mg/L
	<b>Bacteriological:</b>
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guidelines for Lead is 10 µg/L as a maximum.

Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0526**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Dwyer Road</b>	
<b>Phone:</b>	
<b>Date: June 22, 2018</b>	
<b>Time: 9:00 AM</b>	
<p><b><u>Complaint:</u></b> Customer indicated that for the past 1-2 weeks he has noticed a strong smell (chlorine?) &amp; taste (sulfur?) to water and would like water test.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results and that all parameters are consistent with what is typically found in west side distribution system.</p>	<b>Free chlorine : 0.88 mg/L</b>
	<b>Total chlorine : 0.90 mg/L</b>
	<b>Temperature : 12°C</b>
	<b>Conductivity : 548.4 µS/cm</b>
	<b>TDS: 268.6 mg/L</b>
	<b>Turbidity : 0.11 NTU</b>
	<b>pH : 7.65</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 215 mg/L</b>
	<b>Alkalinity :127 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: non detect</b>
<b>Manganese : 0.019 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0612**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Greenhead Road</b>	
<b>Phone:</b>	
<b>Date: June 27, 2018</b>	
<b>Time: 1:30 PM</b>	
<p><b><u>Complaint:</u></b> Customer would like water tested as a result of skin irritation that they believe to be water related.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results and that all parameters are consistent with what is typically found in west side distribution system.</p>	<b>Free chlorine : 0.79 mg/L</b>
	<b>Total chlorine : 0.83 mg/L</b>
	<b>Temperature : 12 °C</b>
	<b>Conductivity : 551.6 µS/cm</b>
	<b>TDS: 270.5 mg/L</b>
	<b>Turbidity : 0.10 NTU</b>
	<b>pH : 7.72 @ 18.1 °C</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 209 mg/L</b>
	<b>Alkalinity :125 mg/L</b>
	<b>Copper: 65 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.03 mg/L</b>
<b>Manganese : 0.019 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0613**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Allingham Crescent</b>	
<b>Phone:</b>	
<b>Date: July 6, 2018</b>	
<b>Time: 13:30</b>	
<b><u>Complaint:</u></b> Customer is having skin irritations and requests his water to be checked. He would like  <b><u>Corrective Action:</u></b> Customer notified of results.	<b>Free chlorine : 0.63 mg/L</b>
	<b>Total chlorine : 0.88 mg/L</b>
	<b>Temperature : 13 °C</b>
	<b>Conductivity : 551.2 µS/cm</b>
	<b>TDS: 270.9 mg/L</b>
	<b>Turbidity : 0.32 NTU</b>
	<b>pH : 7.76 @ 21.2 °C</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 209 mg/L</b>
	<b>Alkalinity : 141 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: non detect</b>
	<b>Manganese : 0.017 mg/L</b>
<b>Total coliform/ Ecoli : 0/0 cfu</b>	
<b>Orthophosphate : 1.31 mg/L</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0614



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Prince William Street</b>	
<b>Phone:</b>	
<b>Date: July 9, 2018</b>	
<b>Time: 13:30</b>	
<p><b><u>Complaint:</u></b> Customer manages building at Prince William Street and tenants have been complaining about sediments in cold water. Requests water quality testing.</p> <p><b><u>Corrective Action:</u></b> Water is safe to consume and meets Health Canada guidelines. Will request flushing on nearby hydrant to circulate water.</p>	<b>Free chlorine : 0.44 mg/L</b>
	<b>Total chlorine : 0.63 mg/L</b>
	<b>Temperature : 19 °C</b>
	<b>Conductivity : 66.0 µS/cm</b>
	<b>TDS: 32.4 mg/L</b>
	<b>Turbidity : 1.25 NTU</b>
	<b>pH : 6.86</b>
	<b>Color: 10 units PtCo</b>
	<b>Copper: 79 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.05 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : 0 cfu</b>
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0615**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Horsler Dive</b>	
<b>Phone:</b>	
<b>Date: July 12, 2018</b>	
<b>Time: 10:00 AM</b>	
<b>Complaint:</b> Customer is having water softener installed and would like information on water quality including Ca <sup>2+</sup> , Mg <sup>2+</sup> and orthophosphate. Sample was taken from outside tap due to interior treatment unit. <b>Corrective Action:</b> Customer informed of results.  Calcium – 84 mg/L Magnesium – 2.7 mg/L	<b>Free chlorine : 1.02 mg/l</b>
	<b>Total chlorine : 1.85 mg/L</b>
	<b>Temperature : 13°C</b>
	<b>Conductivity : 555.1 µS/cm</b>
	<b>TDS: 272.0 mg/L</b>
	<b>Turbidity : 0.08 NTU</b>
	<b>pH : 7.81 @ 20.0 °C</b>
	<b>Color: 0 PtCo units</b>
	<b>Hardness (total) :221 mg/L</b>
	<b>Alkalinity :123 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: Non detect</b>
	<b>Manganese :0.019 mg/L</b>
<b>Orthophosphate : 1.31 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0616**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Mollins Drive</b>	
<b>Phone:</b>	
<b>Date: July 13, 2018</b>	
<b>Time: 1:30 PM</b>	
<b><u>Complaint:</u></b> Customer recently bought the house at that address and requests the water to be checked. They find an undesirable taste present  <b><u>Corrective Action:</u></b> Customer notified of results.	<b>Free chlorine : 0.88 mg/L</b>
	<b>Temperature : 13 °C</b>
	<b>Conductivity : 553.4 µS/cm</b>
	<b>TDS: 271.6 mg/L</b>
	<b>Turbidity : 0.12 NTU</b>
	<b>pH : 7.86</b>
	<b>Color: Non Detect</b>
	<b>Hardness (total) : 214 mg/L</b>
	<b>Alkalinity : 129 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: &lt;0.02 mg/L</b>
	<b>Manganese : 0.010 mg/L</b>
	<b>Total coliform : 0 cfu</b>
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0617**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Walsh Place</b>	
<b>Phone:</b>	
<b>Date: July 17, 2018</b>	
<b>Time: 1:30 PM</b>	
<p><b><u>Complaint:</u></b> Customer requests water testing. The customer has stated they are having smell and taste issues with cold water supply. Distribution flushed a nearby hydrant the previous week for about 24 hours.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results. Additional sample taken for sulfide in water and sent for analysis.</p>	<b>Free chlorine : 0.27 mg/L</b>
	<b>Temperature : 13 °C</b>
	<b>Conductivity : 554.4 µS/cm</b>
	<b>TDS: 271.8 mg/L</b>
	<b>Turbidity : 0.10 NTU</b>
	<b>pH : 7.91</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 223 mg/L</b>
	<b>Alkalinity : 123 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : 0.003 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0256**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Princess Street (APT #1)</b>	
<b>Phone:</b>	
<b>Date: July 24, 2018</b>	
<b>Time: 1:55 PM</b>	
<p><b>Complaint:</b> The customer at the address finds the cold water cloudy, she currently uses a Brita filter that screws onto the end of the tap and finds she has to replace the filter far too often. She requests water quality testing.</p> <p><b>Corrective Action:</b> Customer notified of results, and that all parameters are in line with the east side distribution system.</p>	<b>Free chlorine : 0.78 mg/L</b>
	<b>Total chlorine : 1.10 mg/L</b>
	<b>Temperature : 23.5°C</b>
	<b>Conductivity : 69.6 µS/cm</b>
	<b>TDS: 34.1 mg/L</b>
	<b>Turbidity : 1.14 NTU</b>
	<b>pH : 7.05 @21.3°C</b>
	<b>Color: 8 PtCo</b>
	<b>Copper: 207 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.05 mg/L</b>
	<b>Bacteriological:</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0618**





# City of Saint John Customer Action Form



Name:	
Address: Ocean Westway	
Phone:	
Date: July 24, 2018	
Time: 10:00	
<p><b>Complaint:</b> Customer has had black material showing up in toilet repeatedly after the water service was deemed intact. She also advises the water is still unpleasant to smell or taste.</p> <p><b>Corrective Action:</b></p>	Free chlorine :
	Total chlorine :
	Temperature :
	Conductivity :
	TDS:
	Turbidity :
	pH :
	Color:
	Hardness (total) :
	Alkalinity :
	Copper:
	Lead:
	Iron:
Manganese :	
Total coliform :	
E. coli :	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0025**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Sandy Point Road, A-1</b>	
<b>Phone:</b>	
<b>Date: July 26, 2018</b>	
<b>Time: 10:00 AM</b>	
<p><b><u>Complaint:</u></b> Customer has recently purchased home and would like to have water quality testing done.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results. All results are consistent with east side distribution system.</p>	<b>Free chlorine : 0.18 mg/L</b>
	<b>Temperature : 17 °C</b>
	<b>Conductivity : 68.8 µS/cm</b>
	<b>TDS: 33.8 mg/L</b>
	<b>Turbidity : 1.06 NTU</b>
	<b>pH : 6.95 @ 20.2 °C</b>
	<b>Color: 13 PtCo units</b>
	<b>Copper: 213 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: 0.09 mg/L</b>
	<b>Bacteriological:</b>
	<b>Total coliform : 0 cfu</b>
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guidelines for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guidelines for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guidelines for Lead is 10 µg/L as a maximum.  
 Health Canada guidelines for Iron is ≤ 0.3 mg/L as an aesthetic objective.

**SJWCR0619**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Gault Road</b>	
<b>Phone:</b>	
<b>Date: July 31, 2018</b>	
<b>Time: 10:30</b>	
<b><u>Complaint:</u></b> Water around foundation  <b><u>Corrective Action:</u></b>	<b>Free chlorine :</b>
	<b>Temperature :</b>
	<b>Conductivity :</b>
	<b>TDS:</b>
	<b>Turbidity :</b>
	<b>pH :</b>
	<b>Color:</b>
	<b>Hardness (total) :</b>
	<b>Alkalinity :</b>
	<b>Copper:</b>
	<b>Lead:</b>
	<b>Iron:</b>
	<b>Manganese :</b>
	<b>Total coliform :</b>
<b>E. coli :</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Elmore Crescent</b>	
<b>Phone:</b>	
<b>Date: August 20, 2018</b>	
<b>Time: 1:30 PM</b>	
<b>Complaint:</b> Customer noticing bathroom sink taps corroding, and skin peeling in recent weeks.	<b>Free chlorine : 0.80 mg/L</b>
	<b>Temperature : 16°C</b>
	<b>Conductivity : 555.3 µS/cm</b>
	<b>TDS: 272.5 mg/L</b>
	<b>Turbidity : 0.24 NTU</b>
	<b>pH : 7.85 @ 20.0°C</b>
	<b>Color: Non Detect</b>
	<b>Hardness (total) : 215 mg/L</b>
	<b>Alkalinity : 128 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : 0.012 mg/L</b>
<b>Corrective Action:</b> Customer informed of results and that all parameters are consistent with what is typically found in west side distribution system.	<b>Total coliform : 0 CFU</b>
	<b>E. coli : 0 CFU</b>
	<b>Orthophosphate: 1.34 mg/L</b>

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0414**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Elmore Crescent (Bathroom)</b>	
<b>Phone:</b>	
<b>Date: August 20, 2018</b>	
<b>Time: 1:30 PM</b>	
<b><u>Complaint:</u></b> Customer noticing bathroom sink taps corroding, and skin peeling in recent weeks.	<b>Free chlorine : 0.31 mg/L</b>
	<b>Temperature : 16°C</b>
	<b>Conductivity : 555.7 µS/cm</b>
	<b>TDS: 272.8 mg/L</b>
	<b>Turbidity : 0.26 NTU</b>
	<b>pH : 7.89 @ 19.9°C</b>
	<b>Color: Non Detect</b>
	<b>Hardness (total) : 216 mg/L</b>
	<b>Alkalinity : 129 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: &lt;0.02 mg/L</b>
	<b>Manganese : 0.014 mg/L</b>
<b>Total coliform : Not Tested</b>	
<b>E. coli : Not Tested</b>	
<b>Orthophosphate: 1.32 mg/L</b>	
<b><u>Corrective Action:</u></b> Customer informed of results and that all parameters are consistent with what is typically found in west side distribution system.	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0414**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Danells Drive</b>	
<b>Phone:</b>	
<b>Date: August 29, 2018</b>	
<b>Time: 1:30 PM</b>	
<p><b><u>Complaint:</u></b> Customer has recently purchased home and is having some water issues and would like water tested.</p> <p><b><u>Corrective Action:</u></b> Testing results for all parameters tested are consistent with those found in west side distribution system and within guidelines.</p>	<b>Free chlorine : 0.76 mg/L</b>
	<b>Temperature : 17°C</b>
	<b>Conductivity : 555.0 µS/cm</b>
	<b>TDS: 272.8 mg/L</b>
	<b>Turbidity : 0.15 NTU</b>
	<b>pH : 7.87 @ 19.5°C</b>
	<b>Color: Non Detect</b>
	<b>Hardness (total) : 210 mg/L</b>
	<b>Alkalinity : 131 mg/L</b>
	<b>Copper: 66 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : 0.028 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0620**





# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Queen Street</b>	
<b>Phone:</b>	
<b>Date: September 14, 2018</b>	
<b>Time: 10:00AM</b>	
<p><b><u>Complaint:</u></b> Customer has been experiencing a strong chlorine taste and odour for the past few weeks and would like water tested.</p> <p><b><u>Corrective Action:</u></b> Customer notified of results, and that all parameters are in line with the east side distribution system.</p>	<b>Free chlorine : 1.38 mg/L</b>
	<b>Temperature : 19°C</b>
	<b>Conductivity : 112.5 µS/cm</b>
	<b>TDS: 55.3 mg/L</b>
	<b>Turbidity : 0.13 NTU</b>
	<b>pH : 7.41 @ 21.3°C</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 23 mg/L</b>
	<b>Alkalinity : 33 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : non detect</b>
	<b>Total coliform : 0 cfu</b>
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0621**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address:</b> Bardsley Court	
<b>Phone:</b>	
<b>Date:</b> September 17, 2018	
<b>Time:</b> 1:30PM	
<p><b><u>Complaint:</u></b> Customer has been experiencing a greasy film on their tap water for the past month and request a water test. Customer has a RO unit.</p> <p><b><u>Corrective Action:</u></b> Customer informed of results and that all parameters were in line with west side distribution system.</p>	<b>Free chlorine :</b> 0.58 mg/L
	<b>Temperature :</b> 17°C
	<b>Conductivity :</b> 562.6 µS/cm
	<b>TDS:</b> 276.1 mg/L
	<b>Turbidity :</b> 0.16 NTU
	<b>pH :</b> 7.81 @ 19.8°C
	<b>Color:</b> 3 PtCo units
	<b>Hardness (total) :</b> 219 mg/L
	<b>Alkalinity :</b> 169 mg/L
	<b>Copper:</b> <50 µg/L
	<b>Lead:</b> <2 µg/L
	<b>Iron:</b> non detect
	<b>Manganese :</b> 0.022 mg/L
<b>Total coliform :</b> 0cfu	
<b>E. coli :</b> 0cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0622**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: Lewin Park</b>	
<b>Phone:</b>	
<b>Date: September 24, 2018</b>	
<b>Time: 2:00 PM</b>	
<b><u>Complaint:</u></b> Customer requests water testing. Discoloration on water filter appeared to be iron.	<b>Free chlorine : 0.65 mg/L</b>
	<b>Temperature : 14.8 °C</b>
	<b>Conductivity : 558.4 µS/cm</b>
	<b>TDS: 273.8 mg/L</b>
	<b>Turbidity : 0.12 NTU</b>
	<b>pH : 7.84</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 218 mg/L</b>
	<b>Alkalinity : 131 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: non detect</b>
	<b>Manganese : 0.026 mg/L</b>
	<b>Total coliform : 0 cfu</b>
<b>E. coli : 0 cfu</b>	
<b><u>Corrective Action:</u></b> Customer notified of results. No Iron present at time of sampling. Customer installed new filter and will monitor.	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0419**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: Glen Road</b>	
<b>Phone:</b>	
<b>Date: September 25, 2018</b>	
<b>Time: 10:00 AM</b>	
<p><b><u>Complaint:</u></b> Customer indicates a strong taste of chlorine, on-going since new plant put on line. Customer is being serviced off a temporary line while water line is being renewed on Glen Road. They find the smell and taste of chlorine strong and request water analysis.</p> <p><b><u>Corrective Action:</u></b> Customer notified of results.</p>	<b>Free chlorine : 0.78 mg/L</b>
	<b>Temperature : 20.9 °C</b>
	<b>Conductivity : 141.8 µS/cm</b>
	<b>TDS: 69.7 mg/L</b>
	<b>Turbidity : 0.19 NTU</b>
	<b>pH : 7.38</b>
	<b>Color: non detect</b>
	<b>Hardness (total) : 24 mg/L</b>
	<b>Alkalinity : 52 mg/L</b>
	<b>Copper: &lt; 50 µg/L</b>
	<b>Lead: &lt; 2 µg/L</b>
	<b>Iron: non detect</b>
	<b>Manganese : 0.004 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0623**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Woodhaven Drive	
<b>Phone:</b>	
<b>Date:</b> October 16, 2018	
<b>Time:</b> 1:30 PM	
<p><b>Complaint:</b> Customer has been experiencing allergy type issues since mid-July and would like water tested.</p> <p><b>Corrective Action:</b> Customer notified of results, and that all parameters are in line with the east side distribution system.</p>	<b>Free chlorine :</b> 0.86 mg/L
	<b>Temperature :</b> 15°C
	<b>Conductivity :</b> 101.1 µS/cm
	<b>TDS:</b> 49.6 mg/L
	<b>Turbidity :</b> 0.25 NTU
	<b>pH :</b> 7.49 @ 19.3°C
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 23 mg/L
	<b>Alkalinity :</b> 29 mg/L
	<b>Copper:</b> <50 µg/L
	<b>Lead:</b> <2 µg/L
	<b>Iron:</b> 0.03 mg/L
	<b>Manganese :</b> 0.001 mg/L
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0624**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address:</b> Robar Court	
<b>Phone:</b>	
<b>Date:</b> October 16. 2018	
<b>Time:</b> 10:30 AM	
<p><b><u>Complaint:</u></b> Customer has been experiencing a petroleum smell in their cold water from the kitchen tap, clothes washer, and outside hose for the past 5 days and would like water tested.</p> <p><b><u>Corrective Action:</u></b> Customer notified of results, and that all parameters are in line with the east side distribution system.</p>	<b>Free chlorine :</b> 1.31 mg/L
	<b>Temperature :</b> 17°C
	<b>Conductivity :</b> 101.0 µS/cm
	<b>TDS:</b> 49.6 mg/L
	<b>Turbidity :</b> 0.28 NTU
	<b>pH :</b> 7.40
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 22 mg/L
	<b>Alkalinity :</b> 29 mg/L
	<b>Copper:</b> <50 µg/L
	<b>Lead:</b> <2 µg/L
	<b>Iron:</b> non detect
	<b>Manganese :</b> 0.006 mg/L
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0625**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street West (B-Shed Women's Washroom)</b>	
<b>Phone:</b>	
<b>Date: October 26, 2018</b>	
<b>Time: 9:00 AM</b>	
<b>Complaint:</b> Customer requests water testing due to discoloration in cold water and particulates.  <b>Corrective Action:</b> Customer notified that results are within health guidelines and consistent with west side water.	<b>Free chlorine : 0.00 mg/L</b>
	<b>Temperature : not tested</b>
	<b>Conductivity : 562.4 µS/cm</b>
	<b>TDS: 275.7 mg/L</b>
	<b>Turbidity : 0.22 NTU</b>
	<b>pH : 8.18 @ 19.7°C</b>
	<b>Color: 1 PtCo</b>
	<b>Hardness (total) : 217 mg/L</b>
	<b>Alkalinity : 126 mg/L</b>
	<b>Orthophosphate: 0.66 mg/L</b>
	<b>Copper: not tested</b>
	<b>Lead: not tested</b>
	<b>Iron: 0.03 mg/L</b>
<b>Manganese : 0.018 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
Provincial guideline for maximum free chlorine is 4.00 mg/L  
Operation guideline for pH is between 7.0 and 10.5.  
Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
Health Canada guideline for hardness is < 500 mg/L.  
Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
Health Canada guideline for Lead is 10 µg/L as a maximum.  
Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0626



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: King Street West (A-Shed Men's Bathroom)</b>	
<b>Phone:</b>	
<b>Date: October 26, 2018</b>	
<b>Time: 9:00 AM</b>	
<b>Complaint:</b> Customer requests water testing due to discoloration in cold water and particulates.  <b>Corrective Action:</b> Customer notified that results are within health guidelines and consistent with west side water.	<b>Free chlorine : 0.15 mg/L</b>
	<b>Temperature : not tested</b>
	<b>Conductivity : 565.0</b>
	<b>TDS: 277.1 mg/L</b>
	<b>Turbidity : 0.14 NTU</b>
	<b>pH : 8.04 @ 20.1</b>
	<b>Color: 0 PtCo</b>
	<b>Hardness (total) : 222 mg/L</b>
	<b>Alkalinity : 132 mg/L</b>
	<b>Orthophosphate: 1.07 mg/L</b>
	<b>Copper: not tested</b>
	<b>Lead: not tested</b>
	<b>Iron: 0.03 mg/L</b>
<b>Manganese : 0.020 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0627





# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: King Street West (Security Trailer)</b>	
<b>Phone:</b>	
<b>Date: October 26, 2018</b>	
<b>Time: 9:00 AM</b>	
<p><b><u>Complaint:</u></b> Customer requests water testing due to discoloration in cold water and particulates.</p> <p><b><u>Corrective Action:</u></b> Customer notified that results are within health guidelines and consistent with west side water.</p>	<b>Free chlorine : 0.51 mg/L</b>
	<b>Temperature : not tested</b>
	<b>Conductivity : 565.6 µS/cm</b>
	<b>TDS: 277.1 mg/L</b>
	<b>Turbidity : 0.15 NTU</b>
	<b>pH : 7.86 @ 19.1°C</b>
	<b>Color: 1 PtCo</b>
	<b>Hardness (total) : 223 mg/L</b>
	<b>Alkalinity :128 mg/L</b>
	<b>Orthophosphate: 1.18 mg/L</b>
	<b>Copper: not tested</b>
	<b>Lead: not tested</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : 0.019 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0628**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: King Street West (C-Shed Men's Washroom)</b>	
<b>Phone:</b>	
<b>Date: October 26, 2018</b>	
<b>Time: 9:00 AM</b>	
<p><b><u>Complaint:</u> Customer requests water testing due to discoloration in cold water and particulates.</b></p> <p><b><u>Corrective Action:</u> Customer notified that results are within health guidelines and consistent with west side water.</b></p>	<b>Free chlorine : 0.49 mg/L</b>
	<b>Temperature : not tested</b>
	<b>Conductivity : 564.3 µS/cm</b>
	<b>TDS: 276.9 mg/L</b>
	<b>Turbidity : 0.33 NTU</b>
	<b>pH : 7.94 @ 19.7°C</b>
	<b>Color: 0 PtCo</b>
	<b>Hardness (total) : 224 mg/L</b>
	<b>Alkalinity :127 mg/L</b>
	<b>Orthophosphate: 1.26 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : 0.022 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0629**





# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Westmorland Road	
<b>Phone:</b>	
<b>Date:</b> October 30, 2018	
<b>Time:</b> 10:00 AM	
<p><b>Complaint:</b> Customer indicated on-going issues with yellow coloration in water (off &amp; on for approx. 1 month). Discoloration not as bad as it has been. Chlorine low and iron &amp; turbidity elevated.</p> <p><b>Corrective Action:</b> Line in area flushed. To be retested on November 1, 2018.</p>	<b>Free chlorine :</b> 0.04 mg/L
	<b>Temperature :</b> 12 °C
	<b>Conductivity :</b> 91.6 µS/cm
	<b>TDS:</b> 45.0 mg/L
	<b>Turbidity :</b> 2.94 NTU
	<b>pH :</b> 7.28 @ 19.7 °C
	<b>Color:</b> 23 PtCo units
	<b>Hardness (total) :</b> 18 mg/L
	<b>Alkalinity :</b> 24 mg/L
	<b>Copper:</b> < 50 µg/L
	<b>Lead:</b> < 2 µg/L
	<b>Iron:</b> 0.30 mg/L
	<b>Manganese :</b> 0.043 mg/L
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Graham Street	
<b>Phone:</b>	
<b>Date:</b> October 31, 2018	
<b>Time:</b> 1:30 PM	
<b>Complaint:</b> Customer has had on-going water issues including staining of fixtures, and high chlorine taste and smell.	<b>Free chlorine :</b> 1.45 mg/L
	<b>Temperature :</b> 11°C
	<b>Conductivity :</b> 95.4 µS/cm
	<b>TDS:</b> 46.8 mg/L
	<b>Turbidity :</b> 0.12 NTU
	<b>pH :</b> 7.30 @ 19.6°C
	<b>Color:</b> non detect
	<b>Hardness (total) :</b> 21 mg/L
	<b>Alkalinity :</b> 23 mg/L
	<b>Orthophosphate:</b> 1.11 mg/L
	<b>Copper:</b> <50 µg/L
	<b>Lead:</b> <2 µg/L
	<b>Iron:</b> 0.02 mg/L
	<b>Manganese :</b> 0.004 mg/L
<b>Total coliform :</b> 0 cfu	
<b>E. coli :</b> 0 cfu	
<b>Corrective Action:</b> Customer notified that results are within health guidelines and consistent with east side water.	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).

Provincial guideline for maximum free chlorine is 4.00 mg/L

Operation guideline for pH is between 7.0 and 10.5.

Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.

Health Canada guideline for hardness is < 500 mg/L.

Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.

Health Canada guideline for Lead is 10 µg/L as a maximum.

Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.

Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

SJWCR0631



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address:</b> Westmorland Road	
<b>Phone:</b>	
<b>Date:</b> November 1, 2018	
<b>Time:</b> 10:00 AM	
<p><b>Complaint:</b> Retest of location after initial results yielded low chlorine residuals and elevated iron and turbidity. Area was flushed after Oct 30<sup>th</sup> tests.</p> <p><b>Corrective Action:</b> Customer informed that flushing of area seems to have improved water quality. Chlorine is elevated while iron and turbidity measurements or more in line with east side distribution system.</p>	<b>Free chlorine :</b> 0.26 mg/L
	<b>Temperature :</b> 12 °C
	<b>Conductivity :</b> 93.0 µS/cm
	<b>TDS:</b> 45.7 mg/L
	<b>Turbidity :</b> 0.32 NTU
	<b>pH :</b> 7.11 @ 19.8°C
	<b>Color:</b> 3 PtCo units
	<b>Hardness (total) :</b> 17 mg/L
	<b>Alkalinity :</b> 24 mg/L
	<b>Orthophosphate:</b> 0.60 mg/L
	<b>Copper:</b> not tested
	<b>Lead:</b> not tested
<b>Iron:</b> 0.09 mg/L	
<b>Manganese :</b> 0.019 mg/L	
<b>Total coliform :</b> not tested	
<b>E. coli :</b> not tested	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0630**



# City of Saint John

## Customer Action Form



<b>Name:</b>	
<b>Address: 748 Beaconsfield Avenue</b>	
<b>Phone:</b>	
<b>Date: November 14, 2018</b>	
<b>Time: 10:00 AM</b>	
<p><b><u>Complaint:</u></b> Customer experiencing a rotten egg smell from their water and requests a water test.</p> <p><b><u>Corrective Action:</u></b> Customer notified that results are within health guidelines and consistent with west side water. Sample sent out for sulfide in water test, result was non-detect.</p>	<b>Free chlorine : 0.65 mg/L</b>
	<b>Temperature : 11°C</b>
	<b>Conductivity : 574.3 µS/cm</b>
	<b>TDS: 281.7 mg/L</b>
	<b>Turbidity : 0.06 NTU</b>
	<b>pH : 7.83</b>
	<b>Color: Non-Detect</b>
	<b>Hardness (total): 221 mg/L</b>
	<b>Alkalinity : 133 mg/L</b>
	<b>Orthophosphate: 1.08 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: 4 µg/L</b>
	<b>Iron: 0.02 mg/L</b>
	<b>Manganese : 0.020 mg/L</b>
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0632**



# City of Saint John Customer Action Form



<b>Name:</b>	
<b>Address: 35 Quail Court</b>	
<b>Phone:</b>	
<b>Date: November 16, 2018</b>	
<b>Time: 1:15 PM</b>	
<b><u>Complaint:</u></b> Customer experiencing skin irritation and a chlorine smell to their water since the LLDWTP came online.	<b>Free chlorine : 0.46 mg/L</b>
	<b>Temperature : 11°C</b>
	<b>Conductivity : 91.7 µS/cm</b>
	<b>TDS: 45.0 mg/L</b>
	<b>Turbidity : 0.18 NTU</b>
	<b>pH : 7.29 @ 19.6°C</b>
	<b>Color: 3 PtCo</b>
	<b>Hardness (total) : 21 mg/L</b>
	<b>Alkalinity : 25 mg/L</b>
	<b>Orthophosphate: 0.95 mg/L</b>
	<b>Copper: &lt;50 µg/L</b>
	<b>Lead: &lt;2 µg/L</b>
	<b>Iron: Non-detect</b>
<b>Manganese : 0.005 mg/L</b>	
<b>Total coliform : 0 cfu</b>	
<b>E. coli : 0 cfu</b>	
<b><u>Corrective Action:</u></b> Customer notified of results. Water meets all Health Canada guidelines and is typical of East side water.	

Provincial guideline for minimum free chlorine is a detectable amount (0.04 mg/L).  
 Provincial guideline for maximum free chlorine is 4.00 mg/L  
 Operation guideline for pH is between 7.0 and 10.5.  
 Health Canada guideline for turbidity is 1.0 NTU as an aesthetic objective.  
 Health Canada guideline for hardness is < 500 mg/L.  
 Health Canada guideline for Copper is 1000 µg/L as an aesthetic objective.  
 Health Canada guideline for Lead is 10 µg/L as a maximum.  
 Health Canada guideline for Iron is ≤ 0.3 mg/L as an aesthetic objective.  
 Health Canada guideline for Manganese is ≤ 0.05 mg/L as an aesthetic objective.

**SJWCR0633**

## 2018 Requests for Low Pressure or Dirty Water Problems by Area

### Area:

Request number	Job order number	Entry Date - Calc	J/O status	Street name	Job order description	Job Order Comment
WF0147108	2	9-Jan-18	IS	LANCASTER	leak detect around area to rule out where dirty water may be coming from	leak detect
WF0147108	1	8-Jan-18	CO	LANCASTER	dirty water	no noise on service, sediment appears to happen when they use hot water. problem appears to be internal.
WF0154526	1	15-Oct-18	CO	MILLIDGE	Low Water pressure advised 431	Checked service and problemk seems to be on the owner

2

### Area: C

Request number	Job order number	Entry Date - Calc	J/O status	Street name	Job order description	Job Order Comment
WF0154140	1	27-Sep-18	CO	ROCKLAND	Low Pressure , 314 Rockland Rd.	Sounded service , all O.K. They will call Landlord Told tenant to check with landlord for internal is to investigate further. B.M. K.H. sues, call back in A.M. if nothing found out from landlord. B.M.

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### Area: EAST

Request number	Job order number	Entry Date - Calc	J/O status	Street name	Job order description	Job Order Comment
WF0146991	1	3-Jan-18	CO	BAYSIDE	Very low pressure, just a trickle of water	Water flowing by time we arrived. B.M. K.H.
WF0147029	1	5-Jan-18	RD	MORLEY	ONGOING DIRTY WATER	No Data Available
WF0147091	1	8-Jan-18	RD	FIELDSTONE	Very low pressure, and can smell sewerage	No Data Available
WF0147110	1	8-Jan-18	CO	MORLEY	on going dirty water	cold water is a little discolored and hot water is very discolored. There was a water main repair down the street from property. home owner has had saint john energy there for her hot water tank and is going to get them to come back to drain it to make sure there isn't any sediment causing her dirty water. if the water hasn't cleared up after that for either hot or cold, she said she'd call back. couldn't hear any noise on pipes inside of the house other then the water being drawn from her hot water heating system.
WF0147241	1	12-Jan-18	CO	MORLEY	dirty water; ongoing problem.	Due to ongoing dirty water issues with a couple different homes in the area we sent a request to have a flushing line installed to help clear the lines.
WF0147416	1	23-Jan-18	CO	RETAIL	Very low pressure, air in line, water hammer	no jobs going on in area. problem appears to be internal. advised to run bath tub on cold for a while. if problem didnt resolve it self advised owner to get a plumber.
WF0147515	1	26-Jan-18	CO	BAYSIDE	low water pressure	Sounded service . Leak on owner. B.M. K.H.
WF0147625	1	31-Jan-18	CO	LOCH LOMOND	Very low pressure - Harold Eatmon will respond	No Data Available
WF0147890	1	14-Feb-18	RD	KILBURN	Very dirty water	No Data Available
WF0147891	1	14-Feb-18	RD		Very dirty water, just started	No Data Available
WF0147905	1	15-Feb-18	CO	LOCH LOMOND	LOW PRESSURE	problem seems to have cleared itself up.
WF0148783	1	14-Mar-18	CO	GRANDVIEW	LOSING WATER PRESSURE - DIRTY WATER	problem seems to be on owner , dirty water filters
WF0149540	1	16-Apr-18	CO	HIGH	Very low pressure	Shut off valve inside was almost off. B.M. K.H.
WF0149971	2	27-Apr-18	CO	SIMPSON	water bubbling in street/ no pressure	renewed service from pl to main
WF0149971	1	27-Apr-18	CO	SIMPSON	water bubbling u in street/ no pressure	water is bubbling in street. possible water main leak / service leak
WF0150154	1	3-May-18	CO	LONGVIEW	Very low pressure	No Data Available
WF0150191	1	7-May-18	RD	MICHAEL	Dirty water	No Data Available
WF0150192	1	7-May-18	RD	HUXTABLE	Very low pressure	No Data Available
WF0150923	1	26-May-18	CO	NORTHUMBERLAND	Low water pressure	Owner has a leak on there service. Owners responsibility

### 2018 Requests for Low Pressure or Dirty Water Problems by Area

WF0151091	1	1-Jun-18	CO	ROCKCLIFFE	LOW WATER PRESSURE	checked service box , and problem seems to be on owner
WF0151206	1	5-Jun-18	RD	HIGHMEADOW	Very low pressure	No Data Available
WF0151281	1	9-Jun-18	CO	CARLILE	low pressure	sounded service but no noise and no construction in area.
WF0151387	1	12-Jun-18	RD	GRAHAM	DIRTY WATER - UNKNOWN SOURCE - PLUMBER CALLED	No Data Available
WF0151416	1	13-Jun-18	RD	ROTHESAY	LOW - NO WATER PRESSURE, ON TEMPORARY WATER	No Data Available
WF0152265	1	17-Jul-18	CO	HARBOURVIEW	Problem with water pressure - sometimes too high, sometimes too low	Could find no issues with water , requested a pressure test be done on the main.
WF0152681	1	2-Aug-18	CO	MOUNTAIN	DIRTY WATER - INCLUDING NEIGHBOURS	Could not find any problems in the area or on the owners property, advised them on how to get rid of the dirty water.
WF0153207	1	22-Aug-18	RD	BERNICE	ONGOING ISSUE W/ DIRTY WATER FOR OVER A WEEK	No Data Available
WF0153351	1	28-Aug-18	CO	EASTLAND	Very low pressure	Checked service and there is a leak on the city's side of the line, sent a work order to the water dept to be repaired.
WF0153608	1	7-Sep-18	RD	HIGHMOUNT	severe drop in pressure - just a trickle coming out of pipes	No Data Available
WF0154218	1	28-Sep-18	CO	MYLES	Low pressure	P3 in area doing shut downs and affecting homes in the area.
WF0154882	1	26-Oct-18	RD	LOCH LOMOND	Low pressure in one unit in a four unit building	No Data Available
WF0156070	1	11-Dec-18	RD	DOROTHEA	Inspect Low Pressure, since new SCDW	No Data Available
WF0156328	1	18-Dec-18	CO	MICHAEL	Dirty water	Could find no problems, advised owner how to clear the lines.

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#### Area: NORTH

Request number	Job order number	Entry Date - Calc	J/O status	Street name	Job order description	Job Order Comment
WF0147308	1	16-Jan-18	CO	MOUNT PLEASANT	very low pressure	Checked service and problem seems to be on owner
WF0148791	1	14-Mar-18	CO	PINE	Low pressure, can hear water running	check service and leak is on the city side sent job off to Water Dept. to repair leak
WF0149044	1	26-Mar-18	CO	DURHAM	Very low pressure, may have a leak	Low pressure caused by a leak on the home owners water line.
WF0149440	1	10-Apr-18	CO	NOEL	dirty water	checked service and water flushing was done in the area problem solved
WF0149576	1	17-Apr-18	CO	MAIN	DIRTY WATER	No leak to can be heard inside, car parked on service box in back parking lot. No visible leaks. Harold will get 410 to flush hydrant . B.M. K.H.
WF0149711	1	20-Apr-18	CO	SOMERSET	Very low pressure	Could find no issues with water on the city side, problem is internal, on home owner.
WF0150866	1	24-May-18	CO	BALFOUR	LOW PRESSURE - ADV 431	No Data Available
WF0151196	1	4-Jun-18	RD	FIELDSTONE	low pressure	No Data Available
WF0152264	1	17-Jul-18	CO	DANIEL	Dirty water, low pressure - may have a leak	On going dirty water problems, sent request to hook up a flush line
WF0152280	1	17-Jul-18	CO	FIELDSTONE	Ongoing problem with dirty water	sounded service, no noise. home owner wasn't home. going to request a hydrant flushing for the area as a precaution . for dirty water in the mains
WF0152280	2	17-Jul-18	RD	FIELDSTONE	Ongoing problem with dirty water flush hydrant for the area by #59	No Data Available
WF0153538	1	4-Sep-18	CO	SOMERSET	NO PRESSURE	Checked service coming into home and found no issues, problem seems to be internal.
WF0155117	1	8-Nov-18	RD	ROCKLAND	Very low pressure, cold water only	No Data Available
WF0156192	1	17-Dec-18	CO	DOUGLAS	drop in pressure since Saturday	Checked service line and all was good, checked lines inside of home and there was no problems, pressure seemed to be normal at time of investigation.

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#### Area: SOUTH

Request number	Job order number	Entry Date - Calc	J/O status	Street name	Job order description	Job Order Comment
WF0146960	1	2-Jan-18	CO	PRINCESS	Water leak - no pressure	Sounded service leak on home owner. B.M. K.H.



### 2018 Requests for Low Pressure or Dirty Water Problems by Area

WF0149017	1	23-Mar-18	CO	LEINSTER	LOW PRESSURE	Sounded service, nothing heard. May be internal issue, old shut off inside. B.M. K.H.
WF0149596	1	18-Apr-18	CO	LEINSTER	Very low pressure	No Data Available
WF0149977	1	27-Apr-18	CO	LEINSTER	LOW WATER PRESSURE	problem appears to be internal. But later on in the day we called a plumber ( that has city contract) to go over and flush their lines out . there was a dig job done by the city in front of property about a month earlier and they have been having water issues since then .
WF0150260	1	9-May-18	CO	DUKE	very low pressure	Internal as per Harold Eatmond
WF0150514	1	18-May-18	CO	PRINCESS	Very low pressure	Sounded service , leak on city service.
WF0150514	2	18-May-18	CO	PRINCESS	Dig and repair service , ASAP very low pressure on top floor.	leaking on service pipe at main stop.put in 1' of 3/4 pex and tracer wire
WF0151837	1	28-Jun-18	CO	PRINCESS	LOW PRESSURE	fixed leak at main service
WF0152662	1	1-Aug-18	RD	HAZEN	ONGOING PROBLEM WITH DIRTY WATER	No Data Available
WF0156131	1	14-Dec-18	CO	EXMOUTH	Check for possible leak, caller has low pressure & noise in drain	No Data Available

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#### Area: WEST

Request number	Job order number	Entry Date - Calc	J/O status	Street name	Job order description	Job Order Comment
WF0146965	1	2-Jan-18	CO	SAND COVE	ONGOING PROBLEM W/ DIRTY WATER	Talked to Appolis at water testing lab, water is getting worse since the wells were put online he recommends cleaning and lining pipes in area. B.M. K.H.
WF0147406	1	22-Jan-18	RD	WINSLOW	Very low pressure, sand in water	No Data Available
WF0147565	1	29-Jan-18	CO	FRANCIS	Very low pressure	No leaks on service or in area. Internal problem. Advised to call plumber. RM TM
WF0147771	1	8-Feb-18	CO	WINDSOR	Sound of water running, good pressure, check for leak	service leak on home owner side.
WF0147871	1	13-Feb-18	RD	ALVIC	Low pressure, lots of grit in water	No Data Available
WF0147916	1	15-Feb-18	CO	SAINT CLAIR	Very low pressure, dirty water	problem seems to have cleared itself up.
WF0147917	1	15-Feb-18	CO	SIMMS	Very dirty water	No leaks. Advised to let water run. RM SW
WF0147917	2	15-Feb-18	CO	SIMMS	Very dirty water	No leaks. Advised to let water run. RM SW
WF0148185	1	26-Feb-18	CO	GLENBURN	DIRTY WATER	checked service and problem seems to be on the owner
WF0148222	1	27-Feb-18	CO	MAHOGANY ISLAND	Low pressure since last night	Low pressure in kitchen sink only.Internal issue
WF0148403	1	5-Mar-18	CO	FRANCIS	LOW PRESSURE	Problem on the owner , just the screens in the tap was dirty
WF0148758	1	12-Mar-18	CO	CITY	Very low pressure	leak on 15 city line.two service's hooked to one line by a 3/4 tee
WF0149155	1	29-Mar-18	CO	QUEEN	DIRTY WATER - HAROLD FLUSHED HYDRANT - STILL NO RESULTS - SAND IN	HAROLD EATMON FLUSHED HYDRANT
WF0149993	1	28-Apr-18	CO	MANAWAGONISH	Low water pressure	Could not find any reason for reduced pressure, sending information to James Margaris and Jason LeClerc
WF0151220	1	5-Jun-18	CO	OCEAN	DIRTY WATER IN HER TOILET	Richard Graves tested this water, chlorine was OK, there was no trace of contamination. He suggested the line be sounded for a leak. I have entered a second job order for this, 431 will respond on July 19. JC1473 July 18, 2018
WF0151220	2	18-Jul-18	CO	OCEAN	DIRTY WATER IN HER TOILET	sounded service and no noise so asked the lady to Richard in the lab has investigated this call, the water tested fine, but there was a lot of sediment in the toilet. He suggested the line be run her bath tub for an hour or two to see if that helps and if not to call back if dirty water persists. He suggested the line be sounded in case there is a leak.
WF0151260	1	8-Jun-18	CO	GREEN HEAD	High Water Pressure	Water Dept. did pressure test on main line. Test w



**2018 Requests for Low Pressure or Dirty Water Problems by Area**

						as in normal range.
WF0151388	1	12-Jun-18	RD	CLARKHILL	DIRTY WATER - UNKNOWN SOURCE	No Data Available
WF0152718	1	2-Aug-18	CO	BONNER	NO PRESSURE	Owner has a leak on his service line, causing his low pressure issues.
WF0153699	1	10-Sep-18	CO	BONNER	Very low pressure	Sounded service, leak on owner. Should have new service box installed, (old iron works top over meter casing ). B.M. K.H.
WF0153928	1	18-Sep-18	CO	BONNER	Dirty Water.	Sounded service, all OK. E-Mail to Steve Anderson
WF0153932	1	19-Sep-18	CO	SIMMS	low pressure	leak on owners side of box. private.
WF0155137	1	9-Nov-18	RD	PRINCE	SUDDEN DROP IN PRESSURE	No Data Available
WF0155373	1	20-Nov-18	RD	GAULT	LOW PRESSURE - WOULD LIKE IT CHECKED	No Data Available
WF0155917	2	6-Dec-18	CO	MILFORD	Dig and repair service leak on city. ASAP (low pressure on main floor )	repaired 3/4 copper with pex
WF0156378	1	20-Dec-18	RD	MANAWAGONISH	Home owner request a pressure test / Adv 431 to inspect	No Data Available
<b>24</b>						
<b>81</b>						

14-Feb-19

1

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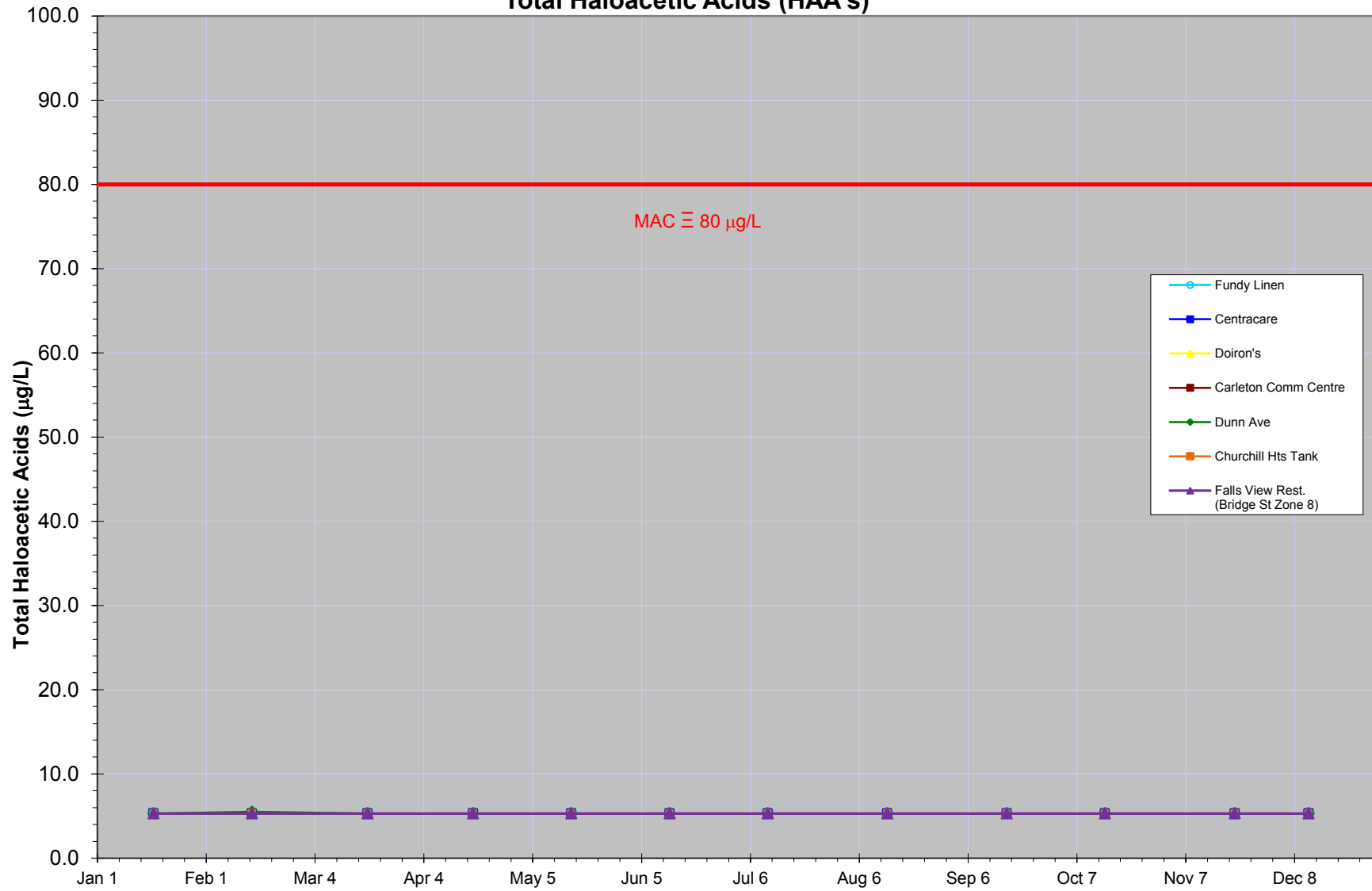
## Appendix Q

2018 THM, HAA, TOC, DOC, Turbidity,  
Temperature and UVT Data

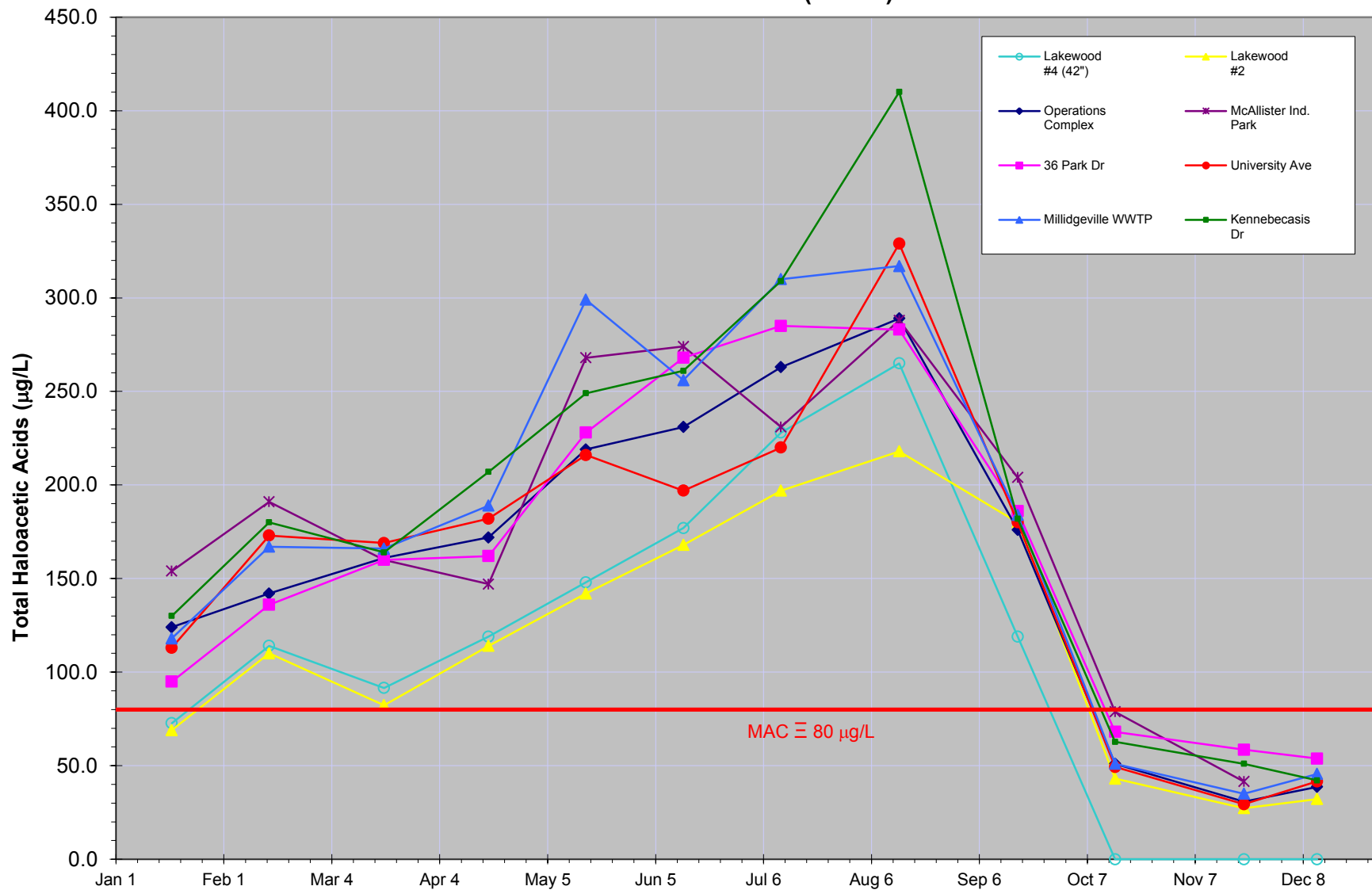
Total Haloacetic Acids (HAAs) - 2018												
Location \ Date	Jan 17/18	Feb 14/18	Mar 19/18	Apr 18/18	May 16/18	Jun 13/18	Jul 11/18	Aug 14/18	Sep 17/18	Oct 15/18	Nov 21/18	Dec 12/18
Operations Complex	124	142	161	172	219	231	263	289	176	51.0	30.8	38.7
36 Park Dr	95	136	160	162	228	268	285	283	186	68.1	58.5	53.8
Lakewood #2	69.0	110	82.3	114	142	168	197	218	180	43.1	27.3	32.2
McAllister Ind. Park	154	191	160	147	268	274	231	288	204	78.8	41.5	53.4
Fundy Linen	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
Churchill Hts Tank	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
Centracare	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
Doiron's	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
Carleton Comm Centre	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
Falls View Rest. (Bridge St Zone 8)	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
University Ave	113	173	169	182	216	197	220	329	180	49.3	29.4	41.6
Kennebecasis Dr	130	180	164	207	249	261	309	410	182	62.7	51.0	42.1
Millidgeville WWTP	118	167	166	189	299	256	310	317	184	51.0	35.0	45.6
Lakewood #4 (42")	72.7	114	91.5	119	148	177	228	265	119	<5.3	<5.3	-
Dunn Ave	<5.3	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
Aberdeen St	<5.3			<5.3			<5.3			<5.3		
Eden Ave	<5.3			<5.3			<5.3			<5.3		

Total Trihalomethanes (THMs) - 2018												
Location \ Date	Jan 17/18	Feb 14/18	Mar 19/18	Apr 18/18	May 16/18	Jun 13/18	Jul 11/18	Aug 14/18	Sep 17/18	Oct 15/18	Nov 21/18	Dec 12/18
Operations Complex	49	41	37	46	74	88	119	154	113	53	24	25
36 Park Dr	39	36	39	47	85	102	154	187	142	68	55	48
Lakewood #2	20	20	17	21	43	68	108	155	121	36	17	19
McAllister Ind. Park	62	64	47	50	102	139	152	168	138	84	58	35
Fundy Linen	3.2	11.0	2.5	1.6	2.8	2.8	2.7	3.1	2.7	2.6	2.3	2.4
Churchill Hts Tank	6.0	4.3	3.3	3.5	4.9	4.6	5.1	5.5	5.6	5.1	4.2	4.0
Centracare	5.2	4.9	4.0	3.8	4.7	7.4	5.0	6.5	5.7	6.2	4.1	3.7
Doiron's	5.7	6.1	3.0	2.5	4.0	3.8	3.9	7.4	9.4	3.8	3.1	3.5
Carleton Comm Centre	5.5	4.7	4.6	4.2	4.5	5.4	4.7	6.6	7.1	5.8	4.3	4.1
Falls View Rest. (Bridge St Zone 8)	5.8	3.8	4.0	3.9	11	10	5.3	5.8	5.7	4.4	3.2	3.2
University Ave	38	46	35	61	77	122	164	178	146	46	21	28
Kennebecasis Dr	51	56	49	65	113	112	183	196	153	56	36	30
Millidgeville WWTP	96	58	44	55	118	116	183	188	153	48	28	31
Lakewood #4 (42")	20	20	16	22	41	60	92	113	49	<0.37	<0.37	-
Dunn Ave	3.0	8.4	2.4	2.3	3.8	3.5	3.7	3.9	5.0	3.4	3.3	3.3
Aberdeen St	<0.37			1.2			3.1			4.1		
Eden Ave	2.0			1.4			3.0			2.7		

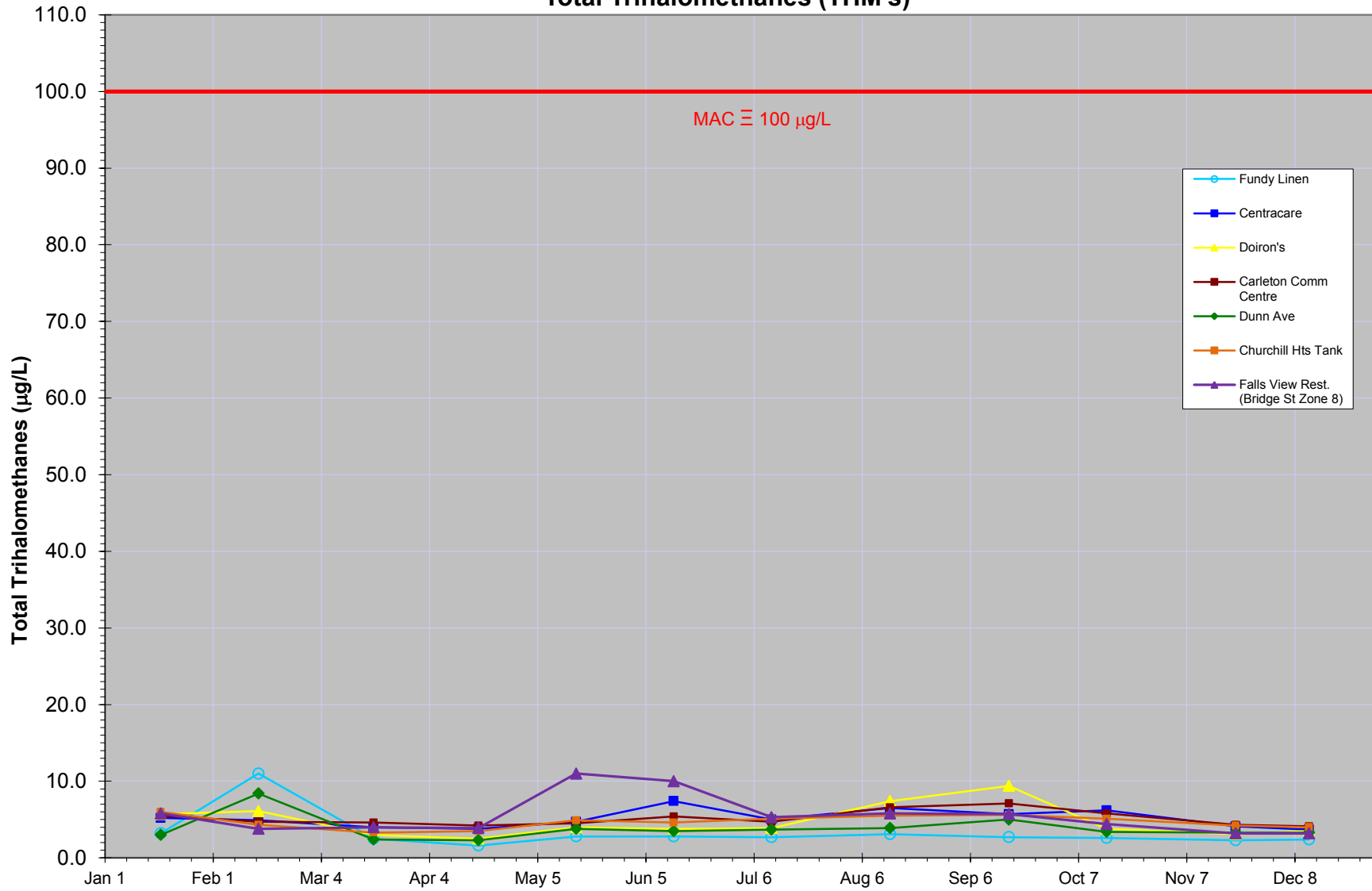
### West - Clean Water Act Sampling Sites - 2018 Total Haloacetic Acids (HAA's)



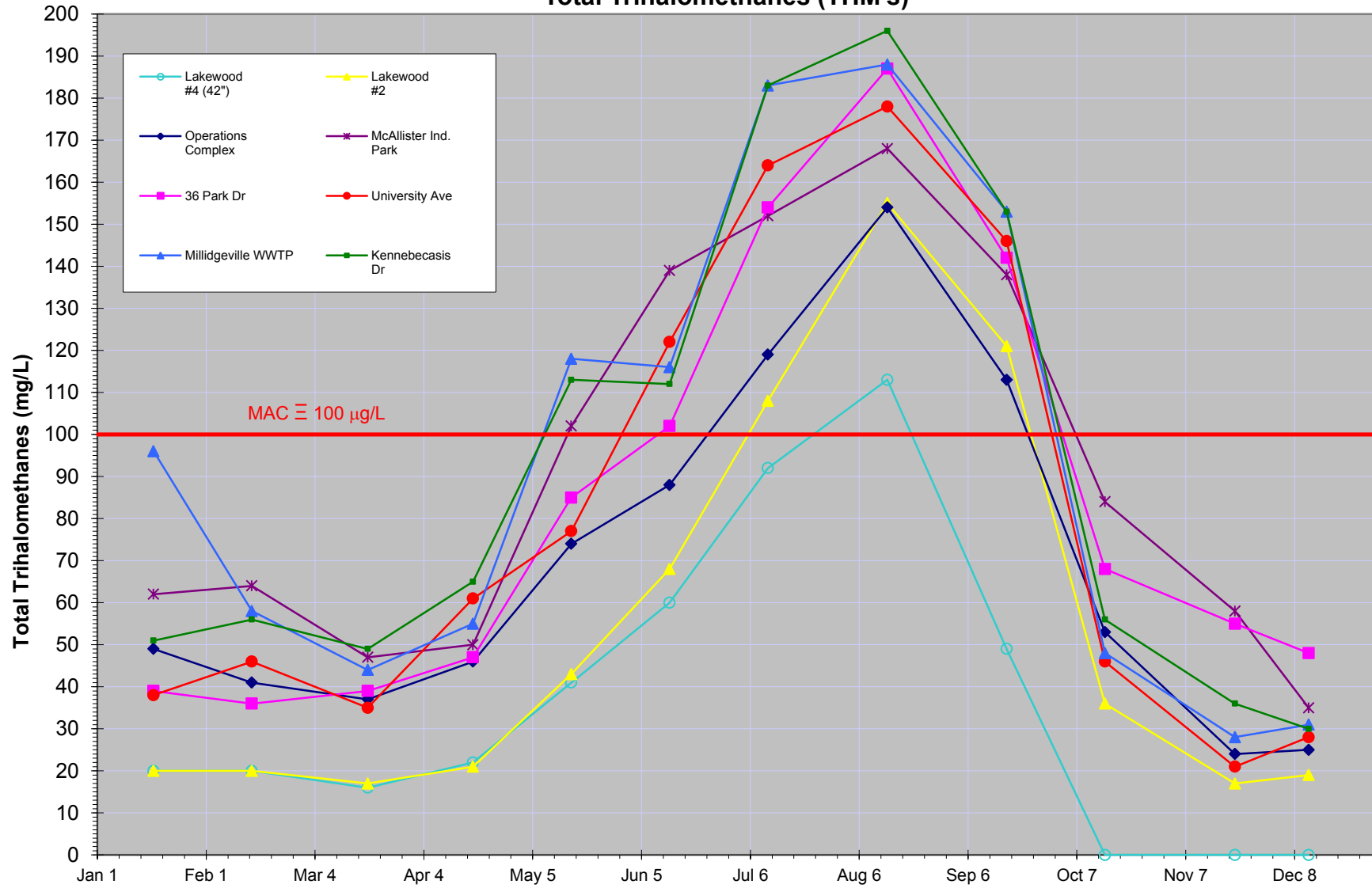
### East - Clean Water Act Sampling Sites - 2018 Total Haloacetic Acids (HAA's)



# West - Clean Water Act Sampling Sites - 2018 Total Trihalomethanes (THM's)



## East - Clean Water Act Sampling Sites - 2018 Total Trihalomethanes (THM's)

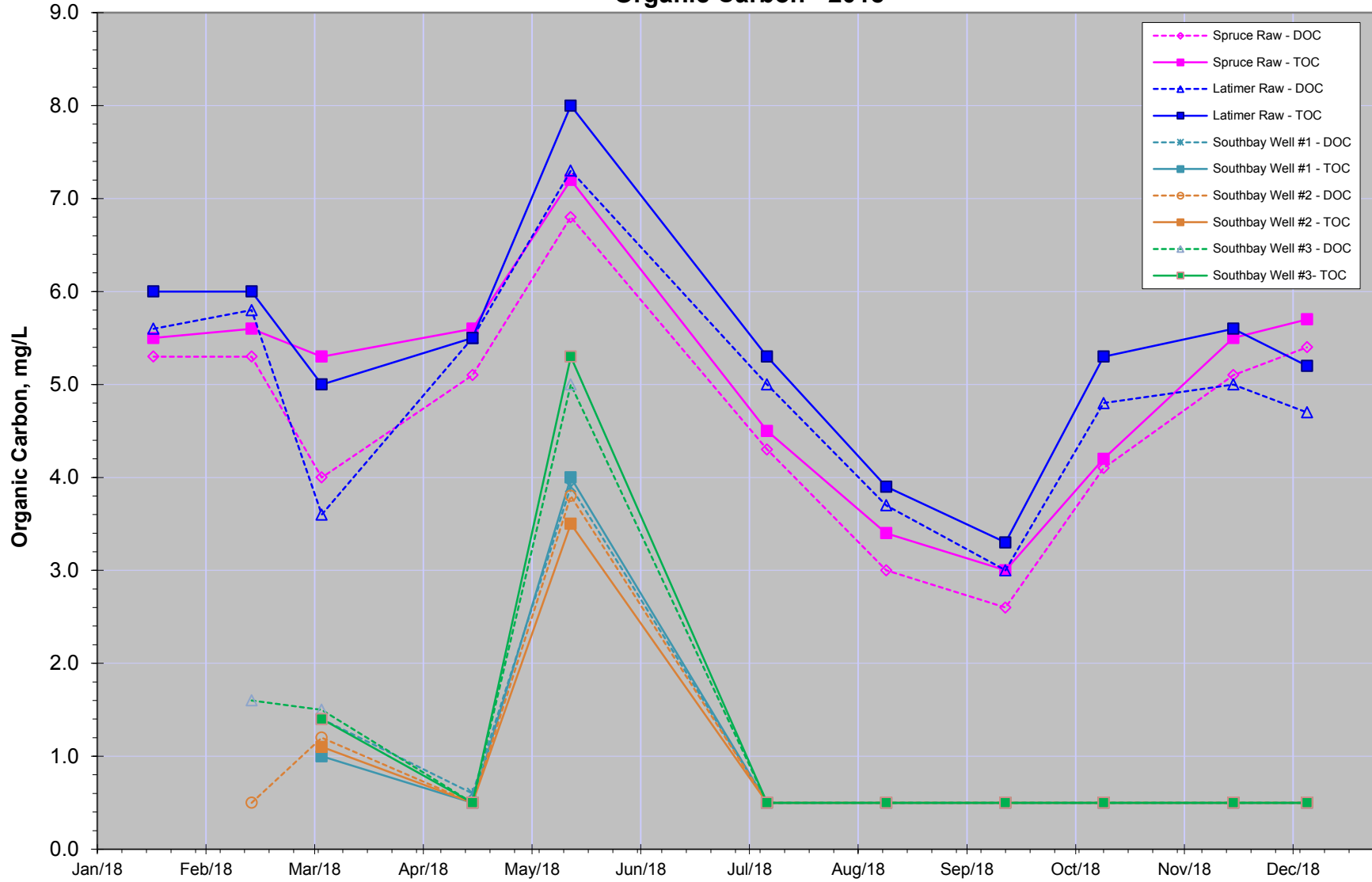


Date	Disolved Organic Carbon (DOC) - 2018				
	Latimer Lake Raw Water	Spruce Lake Raw Water	Southbay Well #1	Southbay Well #2	Southbay Well #3
Jan 17/18	5.6	5.3			
Feb 14/18	5.8	5.3		<0.5	1.6
Mar 06/18	3.6	4.0	1.4	1.2	1.5
Apr 18/18	5.5	5.1	0.6	<0.5	<0.5
May 16/18	7.3	6.8	3.9	3.8	5.0
Jul 11/18	5.0	4.3	<0.5	<0.5	<0.5
Aug 14/18	3.7	3.0	<0.5	<0.5	<0.5
Sep 17/18	3.0	2.6	<0.5	<0.5	<0.5
Oct 15/18	4.8	4.1	<0.5	<0.5	<0.5
Nov 21/18	5.0	5.1	<0.5	<0.5	<0.5
Dec 12/18	4.7	5.4	<0.5	<0.5	<0.5

Date	Total Organic Carbon (TOC) - 2018				
	Latimer Lake Raw Water	Spruce Lake Raw Water	Southbay Well #1	Southbay Well #2	Southbay Well #3
Jan 17/18	6.0	5.5			
Feb 14/18	6.0	5.6			
Mar 06/18	5.0	5.3	1.0	1.1	1.4
Apr 18/18	5.5	5.6	<0.5	<0.5	<0.5
May 16/18	8.0	7.2	4.0	3.5	5.3
Jul 11/18	5.3	4.5	<0.5	<0.5	<0.5
Aug 14/18	3.9	3.4	<0.5	<0.5	<0.5
Sep 17/18	3.3	3.0	<0.5	<0.5	<0.5
Oct 15/18	5.3	4.2	<0.5	<0.5	<0.5
Nov 21/18	5.6	5.5	<0.5	<0.5	<0.5
Dec 12/18	5.2	5.7	<0.5	<0.5	<0.5



### Latimer Lake, Spruce Lake & Southbay Wellfield Raw Water Organic Carbon - 2018



## Turbidity - 2018

Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Jan 01/18	0.48	0.26	0.16	0.62	0.34	0.01
Jan 02/18	0.47	0.31	0.16	0.58	0.37	0.00
Jan 03/18	0.43	0.30	0.16	0.58	0.38	0.00
Jan 04/18	0.45	0.31	0.17	1.62	1.06	0.57
Jan 05/18	0.46	0.29	0.16	2.00	0.33	0.00
Jan 06/18	0.44	0.22	0.15	2.00	0.34	0.20
Jan 07/18	0.43	0.27	0.17	2.00	0.36	0.00
Jan 08/18	0.42	0.32	0.17	2.00	0.63	0.10
Jan 09/18	0.44	0.30	0.15	2.00	0.25	0.00
Jan 10/18	0.41	0.24	0.15	2.00	0.20	0.00
Jan 11/18	0.43	0.27	0.14	2.00	0.30	0.04
Jan 12/18	0.41	0.28	0.15	1.46	0.24	0.00
Jan 13/18	0.43	1.17	0.15	2.00	0.20	0.00
Jan 14/18	0.39	0.27	0.16	2.00	0.24	0.00
Jan 15/18	0.40	0.23	0.16	2.00	0.21	0.00
Jan 16/18	0.40	0.20	0.16	1.46	0.29	0.00
Jan 17/18	0.41	0.24	0.16	0.68	0.47	0.01
Jan 18/18	0.39	0.25	0.16	1.40	0.01	0.00
Jan 19/18	0.40	0.24	0.14	1.66	0.01	0.00
Jan 20/18	0.38	0.24	0.15	1.79	0.01	0.00
Jan 21/18	0.39	0.26	0.14	1.56	0.01	0.00
Jan 22/18	0.38	0.32	0.15	1.54	0.01	0.00
Jan 23/18	0.36	0.42	0.14	1.49	0.01	0.00
Jan 24/18	0.37	0.34	0.17	1.82	0.01	0.00
Jan 25/18	0.36	0.30	0.15	2.00	0.01	0.00
Jan 26/18	0.36	0.31	0.17	2.00	0.02	0.00
Jan 27/18	0.36	0.35	0.16	2.00	0.02	0.00
Jan 28/18	0.36	0.33	0.16	1.94	0.02	0.00
Jan 29/18	0.35	0.34	0.17	1.51	0.01	0.01
Jan 30/18	0.34	0.42	0.15	1.22	0.01	0.00
Jan 31/18	0.35	0.60	0.15	1.36	0.01	0.00
Feb 01/18	0.36	0.54	0.15	2.00	0.01	0.00
Feb 02/18	0.36	0.36	0.14	1.76	0.01	0.00
Feb 03/18	0.34	0.37	0.15	2.00	0.01	0.00
Feb 04/18	0.34	0.51	0.18	2.00	0.01	0.00
Feb 05/18	0.34	0.56	0.15	2.00	0.01	0.00
Feb 06/18	0.32	0.57	0.17	1.85	0.01	0.01
Feb 07/18	0.33	0.48	0.15	1.87	0.01	0.44
Feb 08/18	0.34	0.60	0.15	2.00	0.01	0.00
Feb 09/18	0.33	0.64	0.15	2.00	0.01	0.00
Feb 10/18	0.34	0.69	0.15	2.00	0.01	0.00
Feb 11/18	0.35	0.81	0.16	2.00	0.01	0.00
Feb 12/18	0.81	0.83	0.14	2.00	0.01	0.00
Feb 13/18	0.40	1.46	0.15	2.00	0.01	0.01
Feb 14/18	0.38	1.84	0.15	2.00	0.01	0.00
Feb 15/18	0.38	0.20	0.16	2.00	0.01	0.00
Feb 16/18	0.33	0.23	0.16	0.90	0.03	0.01
Feb 17/18	0.36	0.22	0.16	0.75	0.01	0.00
Feb 18/18	0.34	0.20	0.16	0.57	0.21	0.00
Feb 19/18	0.35	0.28	0.16	0.42	0.02	0.00
Feb 20/18	0.36	0.23	0.15	0.77	0.01	0.12

## Turbidity - 2018

Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Feb 21/18	0.36	0.24	0.15	0.26	0.01	0.50
Feb 22/18	0.33	0.23	0.17	0.06	0.01	1.20
Feb 23/18	0.31	0.26	0.15	0.08	0.01	0.99
Feb 24/18	0.31	0.27	0.16	0.20	0.01	0.89
Feb 25/18	0.33	0.24	0.15	0.03	0.01	0.75
Feb 26/18	0.36	0.26	0.14	0.02	0.01	0.64
Feb 27/18	0.32	0.27	0.14	0.02	0.01	0.54
Feb 28/18	0.35	0.26	0.15	0.02	0.01	1.04
Mar 01/18	0.31	0.23	0.14	0.02	0.01	1.99
Mar 02/18	0.33	0.26	0.14	0.01	0.01	1.95
Mar 03/18	0.32	0.26	0.14	0.01	0.01	1.41
Mar 04/18	0.35	0.32	0.16	0.01	0.01	1.56
Mar 05/18	0.35	0.35	0.17	0.01	0.01	0.68
Mar 06/18	0.36	0.33	0.16	0.02	0.01	0.00
Mar 07/18	0.36	0.31	0.18	0.02	0.01	1.35
Mar 08/18	0.35	0.28	0.18	0.02	0.01	1.99
Mar 09/18	0.37	0.23	0.18	0.02	0.01	1.95
Mar 10/18	0.35	0.25	0.17	0.02	0.01	1.58
Mar 11/18	0.34	0.24	0.17	0.02	0.01	0.90
Mar 12/18	0.34	0.19	0.18	0.01	0.01	0.63
Mar 13/18	0.33	0.21	0.16	0.01	0.01	0.54
Mar 14/18	0.34	0.22	0.18	0.01	0.01	0.47
Mar 15/18	0.36	0.19	0.16	0.01	0.01	0.42
Mar 16/18	0.34	0.19	0.15	0.02	0.01	0.40
Mar 17/18	0.43	0.22	0.15	0.01	0.01	0.38
Mar 18/18	0.36	0.25	0.15	0.02	0.01	0.38
Mar 19/18	0.36	0.25	0.15	0.01	0.01	0.63
Mar 20/18	0.36	0.22	0.16	0.14	0.01	0.87
Mar 21/18	0.41	0.24	0.15	0.06	0.01	1.41
Mar 22/18	0.32	0.23	0.14	0.04	0.01	1.83
Mar 23/18	0.35	0.24	0.14	0.01	0.01	1.32
Mar 24/18	0.36	0.26	0.15	0.05	0.01	1.01
Mar 25/18	0.34	0.25	0.17	0.03	0.01	0.78
Mar 26/18	0.34	0.25	0.14	0.02	0.01	0.56
Mar 27/18	0.34	0.32	0.14	0.02	0.01	0.43
Mar 28/18	0.39	0.38	0.14	0.02	0.01	0.86
Mar 29/18	0.35	0.46	0.14	0.01	0.01	1.99
Mar 30/18	0.35	0.43	0.15	0.01	0.01	1.90
Mar 31/18	0.35	0.48	0.13	0.01	0.01	1.13
Apr 01/18	0.38	0.78	0.13	0.01	0.01	0.77
Apr 02/18	0.38	0.81	0.13	0.01	0.01	0.47
Apr 03/18	0.39	0.87	0.14	0.02	0.01	0.55
Apr 04/18	0.40	0.96	0.13	0.01	0.01	1.19
Apr 05/18	0.42	0.32	0.15	0.02	0.01	1.77
Apr 06/18	0.40	0.33	0.15	0.02	0.01	1.56
Apr 07/18	0.40	0.33	0.15	0.01	0.01	1.52
Apr 08/18	0.40	0.38	0.14	0.01	0.01	1.35
Apr 09/18	0.41	0.36	0.15	0.01	0.01	1.03
Apr 10/18	0.42	0.39	0.14	0.01	0.02	0.80
Apr 11/18	0.36	0.42	0.15	0.01	0.01	1.34
Apr 12/18	0.39	0.40	0.15	0.01	0.01	0.79

## Turbidity - 2018

Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Apr 13/18	0.44	0.41	0.17	0.02	0.01	0.11
Apr 14/18	0.42	0.43	0.16	0.01	0.01	0.11
Apr 15/18	0.41	0.45	0.17	0.02	0.01	0.10
Apr 16/18	0.43	2.60	0.19	0.01	0.01	0.10
Apr 17/18	0.83	0.98	0.56	0.01	0.01	0.10
Apr 18/18	0.41	0.80	0.23	0.02	0.01	0.48
Apr 19/18	0.45	0.39	0.22	0.02	0.01	0.59
Apr 20/18	0.39	0.45	0.22	0.02	0.01	0.49
Apr 21/18	0.42	0.36	0.21	0.02	0.01	0.41
Apr 22/18	0.43	0.42	0.22	0.01	0.01	0.35
Apr 23/18	0.42	0.42	0.22	0.02	0.01	0.32
Apr 24/18	0.55	0.60	0.21	0.02	0.01	0.28
Apr 25/18	0.44	0.39	0.24	0.02	0.01	1.45
Apr 26/18	0.41	0.33	0.22	0.01	0.01	1.99
Apr 27/18	0.45	0.41	0.24	0.01	0.01	1.99
Apr 28/18	0.43	0.33	0.22	0.02	0.01	1.76
Apr 29/18	0.41	0.34	0.21	0.02	0.01	1.17
Apr 30/18	0.40	0.40	0.21	0.02	0.01	0.89
May 01/18	0.45	0.35	0.21	0.02	0.01	0.24
May 02/18	0.43	0.35	0.22	0.02	0.01	1.53
May 03/18	0.43	0.35	0.21	0.02	0.01	1.99
May 04/18	0.39	0.63	0.23	0.02	0.01	1.76
May 05/18	0.43	0.33	0.26	0.02	0.01	1.31
May 06/18	0.42	0.34	0.27	0.02	0.01	1.07
May 07/18	0.42	0.36	0.27	0.02	0.01	0.77
May 08/18	0.45	0.35	0.26	0.02	0.01	0.64
May 09/18	0.48	0.38	0.26	0.02	0.01	0.48
May 10/18	0.49	0.54	0.27	0.02	0.01	0.14
May 11/18	0.47	0.59	0.25	0.01	0.01	0.14
May 12/18	0.49	0.59	0.24	0.01	0.01	0.13
May 13/18	0.44	0.40	0.23	0.01	0.01	0.13
May 14/18	0.44	0.39	0.22	0.01	0.01	0.13
May 15/18	0.43	0.40	0.23	0.02	0.01	0.13
May 16/18	0.46	0.41	0.22	0.01	0.01	0.95
May 17/18	0.60	0.92	0.22	0.02	0.01	1.99
May 18/18	0.44	0.34	0.21	0.02	0.01	1.99
May 19/18	0.67	0.36	0.19	0.02	0.01	1.99
May 20/18	0.42	0.40	0.21	0.02	0.01	0.88
May 21/18	0.42	0.40	0.20	0.02	0.01	0.13
May 22/18	0.40	0.56	0.20	0.02	0.01	0.12
May 23/18	0.64	0.57	0.20	0.01	0.01	0.95
May 24/18	0.45	0.46	0.19	0.02	0.01	1.99
May 25/18	0.46	0.60	0.18	0.02	0.01	1.99
May 26/18	0.45	0.56	0.20	0.02	0.01	1.97
May 27/18	0.45	1.15	0.22	0.02	0.01	1.40
May 28/18	0.46	1.49	0.17	0.02	0.01	0.95
May 29/18	1.14	0.45	0.18	0.02	0.01	0.73
May 30/18	0.46	0.51	0.18	0.01	0.03	0.99
May 31/18	0.48	0.50	0.17	0.02	0.01	0.97
Jun 01/18	0.46	0.54	0.18	0.02	0.01	0.29
Jun 02/18	0.55	0.85	0.19	0.02	0.01	0.27

## Turbidity - 2018

Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Jun 03/18	0.48	0.45	0.23	0.02	0.01	0.26
Jun 04/18	0.51	0.50	0.21	0.02	0.01	0.25
Jun 05/18	0.46	0.74	0.20	0.02	0.01	0.21
Jun 06/18	0.49	0.66	0.22	0.02	0.01	0.27
Jun 07/18	0.53	0.79	0.29	0.01	0.01	0.28
Jun 08/18	0.50	0.47	0.34	0.01	0.01	0.28
Jun 09/18	0.53	0.53	0.30	0.01	0.01	0.28
Jun 10/18	0.55	0.59	0.34	0.01	0.01	0.28
Jun 11/18	0.63	0.72	0.39	0.01	0.01	0.28
Jun 12/18	0.65	0.72	0.34	0.01	0.01	0.28
Jun 13/18	0.58	0.76	0.36	0.01	0.01	1.37
Jun 14/18	0.49	0.54	0.38	0.01	0.01	1.35
Jun 15/18	0.52	0.70	0.60	0.01	0.01	1.03
Jun 16/18	0.53	0.98	0.40	0.02	0.01	0.97
Jun 17/18	0.55	1.17	0.67	0.01	0.01	0.86
Jun 18/18	0.59	0.84	1.01	0.01	0.01	0.80
Jun 19/18	0.73	0.78	0.35	0.01	0.01	0.76
Jun 20/18	0.56	0.71	0.34	0.02	0.01	1.51
Jun 21/18	0.59	0.83	0.33	0.01	0.01	1.99
Jun 22/18	0.60	0.91	0.32	0.01	0.01	1.99
Jun 23/18	0.78	0.75	0.32	0.01	0.01	1.99
Jun 24/18	0.88	0.87	0.32	0.01	0.01	1.99
Jun 25/18	0.51	0.51	0.32	0.01	0.01	1.96
Jun 26/18	0.62	0.45	0.31	0.02	0.01	1.75
Jun 27/18	0.94	0.50	0.31	0.02	0.01	1.50
Jun 28/18	1.20	0.79	0.31	0.01	0.01	1.39
Jun 29/18	1.52	0.69	0.31	0.02	0.01	1.39
Jun 30/18	0.59	0.72	0.33	0.01	0.01	1.39
Jul 01/18	0.57	0.68	0.34	0.02	0.01	1.39
Jul 02/18	0.55	0.59	0.32	0.02	0.01	1.39
Jul 03/18	0.57	0.64	0.31	0.01	0.01	1.39
Jul 04/18	0.61	0.65	0.40	0.01	0.01	1.64
Jul 05/18	0.76	0.58	0.37	0.02	0.01	1.79
Jul 06/18	0.78	0.53	0.42	0.02	0.01	1.64
Jul 07/18	0.66	0.54	0.45	0.01	0.01	1.61
Jul 08/18	0.68	0.52	0.59	0.01	0.01	1.57
Jul 09/18	0.75	0.53	0.68	0.01	0.01	1.54
Jul 10/18	0.57	0.53	0.66	0.01	0.01	1.47
Jul 11/18	0.63	0.52	0.52	0.02	0.01	1.51
Jul 12/18	0.66	0.54	0.71	0.01	0.01	1.99
Jul 13/18	0.68	0.56	1.00	0.02	0.01	1.99
Jul 14/18	0.63	0.52	1.16	0.02	0.01	1.99
Jul 15/18	0.64	0.49	1.14	0.02	0.01	1.99
Jul 16/18	0.60	0.49	0.26	0.02	0.01	1.99
Jul 17/18	0.44	0.52	0.33	0.01	0.01	1.98
Jul 18/18	0.39	0.53	0.34	0.02	0.01	1.92
Jul 19/18	0.41	0.62	0.49	0.02	0.01	1.99
Jul 20/18	0.37	0.49	0.48	0.02	0.01	1.99
Jul 21/18	0.39	0.50	0.67	0.02	0.01	1.99
Jul 22/18	0.39	0.43	0.55	0.02	0.01	1.99
Jul 23/18	0.35	0.40	0.49	0.02	0.01	1.99

## Turbidity - 2018

Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Jul 24/18	0.34	0.40	0.73	0.01	0.01	1.04
Jul 25/18	0.38	0.42	0.29	0.01	0.01	0.15
Jul 26/18	0.36	0.43	0.45	0.01	0.01	0.14
Jul 27/18	0.37	0.43	0.37	0.01	0.01	0.14
Jul 28/18	0.45	0.40	0.26	0.01	0.01	0.13
Jul 29/18	0.43	0.42	0.31	0.01	0.01	0.13
Jul 30/18	0.42	0.40	0.44	0.01	0.01	0.12
Jul 31/18	0.43	0.42	0.53	0.02	0.01	1.08
Aug 01/18	0.64	0.42	0.41	0.02	0.01	1.99
Aug 02/18	0.71	0.41	0.29	0.01	0.01	1.99
Aug 03/18	1.32	0.54	0.23	0.02	0.01	1.68
Aug 04/18	0.34	0.36	0.26	0.02	0.01	1.29
Aug 05/18	0.32	0.34	0.27	0.02	0.01	0.92
Aug 06/18	0.34	0.35	0.22	0.02	0.01	0.78
Aug 07/18	0.32	0.36	0.20	0.02	0.01	1.46
Aug 08/18	0.34	0.34	0.39	0.02	0.01	1.99
Aug 09/18	0.33	0.32	0.39	0.02	0.01	1.99
Aug 10/18	0.33	0.36	0.22	0.01	0.01	1.69
Aug 11/18	0.33	0.35	0.21	0.01	0.01	1.37
Aug 12/18	0.33	0.38	0.20	0.01	0.01	1.13
Aug 13/18	0.37	0.37	0.20	0.01	0.01	0.93
Aug 14/18	0.33	0.33	0.22	0.01	0.01	1.29
Aug 15/18	0.32	0.33	0.21	0.01	0.01	1.99
Aug 16/18	0.30	0.32	0.19	0.01	0.01	1.99
Aug 17/18	0.32	0.32	0.21	0.01	0.01	1.80
Aug 18/18	0.34	0.35	0.29	0.01	0.01	1.29
Aug 19/18	0.30	0.32	0.32	0.01	0.01	0.98
Aug 20/18	0.29	0.30	0.29	0.01	0.01	0.75
Aug 21/18	0.30	0.31	0.34	0.01	0.01	1.18
Aug 22/18	0.30	0.32	0.60	0.03	0.01	1.99
Aug 23/18	0.29	0.30	0.40	0.02	0.02	1.81
Aug 24/18	0.31	0.37	0.69	0.02	0.01	1.44
Aug 25/18	0.30	0.28	0.57	0.02	0.01	1.05
Aug 26/18	0.30	0.31	0.59	0.02	0.01	0.75
Aug 27/18	0.34	0.31	0.42	0.02	0.01	0.61
Aug 28/18	0.32	0.40	0.42	0.02	0.01	0.47
Aug 29/18	0.34	0.41	0.44	0.02	0.01	0.47
Aug 30/18	0.36	0.89	0.20	0.02	0.01	0.47
Aug 31/18	0.40	0.30	0.18	0.02	0.01	0.47
Sep 01/18	0.40	0.31	0.17	0.02	0.01	0.47
Sep 02/18	0.29	0.30	0.17	0.02	0.01	0.47
Sep 03/18	0.23	0.31	0.19	0.02	0.01	0.47
Sep 04/18	1.06	0.59	0.19	0.02	0.01	0.23
Sep 05/18	0.37	0.30	0.20	0.42	0.01	0.44
Sep 06/18	0.42	0.32	0.21	0.52	0.01	0.32
Sep 07/18	0.39	0.34	0.20	1.30	0.01	0.26
Sep 08/18	0.41	0.30	0.21	0.07	0.01	0.01
Sep 09/18	0.75	0.31	0.22	0.21	0.01	0.12
Sep 10/18	0.35	0.30	0.25	0.02	0.01	0.04
Sep 11/18	0.40	0.30	0.22	0.02	0.01	0.39
Sep 12/18	0.34	0.30	0.58	0.02	0.01	0.99

## Turbidity - 2018

Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Sep 13/18	0.33	0.27	0.21	0.02	0.01	0.92
Sep 14/18	0.33	0.30	0.22	0.02	0.01	0.91
Sep 15/18	0.33	0.29	0.21	0.02	0.01	0.83
Sep 16/18	0.34	0.29	0.24	0.01	0.01	0.76
Sep 17/18	0.35	0.27	0.22	0.02	0.01	1.08
Sep 18/18	3.94	0.36	0.24	0.02	0.02	1.99
Sep 19/18	0.34	0.38	0.39	0.02	0.01	1.99
Sep 20/18	0.35	0.45	0.36	0.02	0.02	1.99
Sep 21/18	8.70	3.98	0.32	0.02	0.01	1.99
Sep 22/18	0.50	0.44	0.40	0.02	0.01	1.99
Sep 23/18	0.71	0.53	0.46	0.02	0.01	1.99
Sep 24/18	0.80	1.17	0.65	0.02	0.01	1.99
Sep 25/18	0.71	0.55	0.83	0.66	0.02	1.27
Sep 26/18	0.73	0.53	0.85	0.02	0.01	1.99
Sep 27/18	1.28	0.71	0.24	0.71	0.08	1.65
Sep 28/18	2.38	3.25	0.24	0.02	0.01	1.85
Sep 29/18	1.65	1.17	0.23	0.01	0.01	1.66
Sep 30/18	1.02	0.79	0.22	0.02	0.01	1.05
Oct 01/18	1.12	0.73	0.22	0.02	0.01	0.74
Oct 02/18	0.84	0.64	0.23	0.02	0.01	1.28
Oct 03/18	0.83	0.88	0.26	0.03	0.02	1.99
Oct 04/18	0.84	0.70	0.25	0.02	0.01	1.80
Oct 05/18	3.37	1.17	0.23	0.03	0.01	1.36
Oct 06/18	2.28	1.39	0.24	0.02	0.01	0.93
Oct 07/18	2.16	1.31	0.23	0.02	0.01	0.72
Oct 08/18	2.14	1.23	0.25	0.02	0.01	0.52
Oct 09/18	2.04	1.17	0.29	0.02	0.01	0.99
Oct 10/18	1.88	1.09	0.29	0.02	0.01	1.99
Oct 11/18	1.99	1.10	0.34	0.02	0.01	1.84
Oct 12/18	1.77	1.08	0.41	0.02	0.51	1.51
Oct 13/18	1.87	1.20	0.46	0.02	0.01	1.11
Oct 14/18	1.83	1.18	0.47	0.02	0.01	0.79
Oct 15/18	1.88	1.22	0.51	0.02	0.01	0.64
Oct 16/18	4.41	3.81	0.66	0.01	0.02	0.62
Oct 17/18	2.61	1.47	0.73	0.01	0.02	0.62
Oct 18/18	2.52	1.55	0.81	0.02	0.02	0.62
Oct 19/18	2.28	1.54	1.15	0.02	0.01	0.62
Oct 20/18	2.19	1.46	0.91	0.02	0.01	Null
Oct 21/18	2.10	1.43	1.07	0.02	0.86	Null
Oct 22/18	2.23	1.44	2.98	0.02	0.02	0.62
Oct 23/18	3.54	1.34	0.22	0.02	0.01	Null
Oct 24/18	1.99	1.54	0.24	0.02	0.40	1.09
Oct 25/18	1.95	1.35	0.28	0.05	0.01	1.94
Oct 26/18	1.90	1.30	0.28	0.20	0.10	1.27
Oct 27/18	1.77	1.23	0.31	0.01	0.01	1.20
Oct 28/18	2.18	1.58	0.37	0.01	0.01	0.99
Oct 29/18	1.87	1.56	0.37	0.02	0.01	0.80
Oct 30/18	1.86	1.50	0.38	0.01	0.01	0.66
Oct 31/18	1.87	1.25	0.39	0.02	0.02	0.65
Nov 01/18	1.93	1.24	0.37	0.02	0.01	0.65
Nov 02/18	1.69	1.22	0.40	0.02	0.01	0.65

## Turbidity - 2018

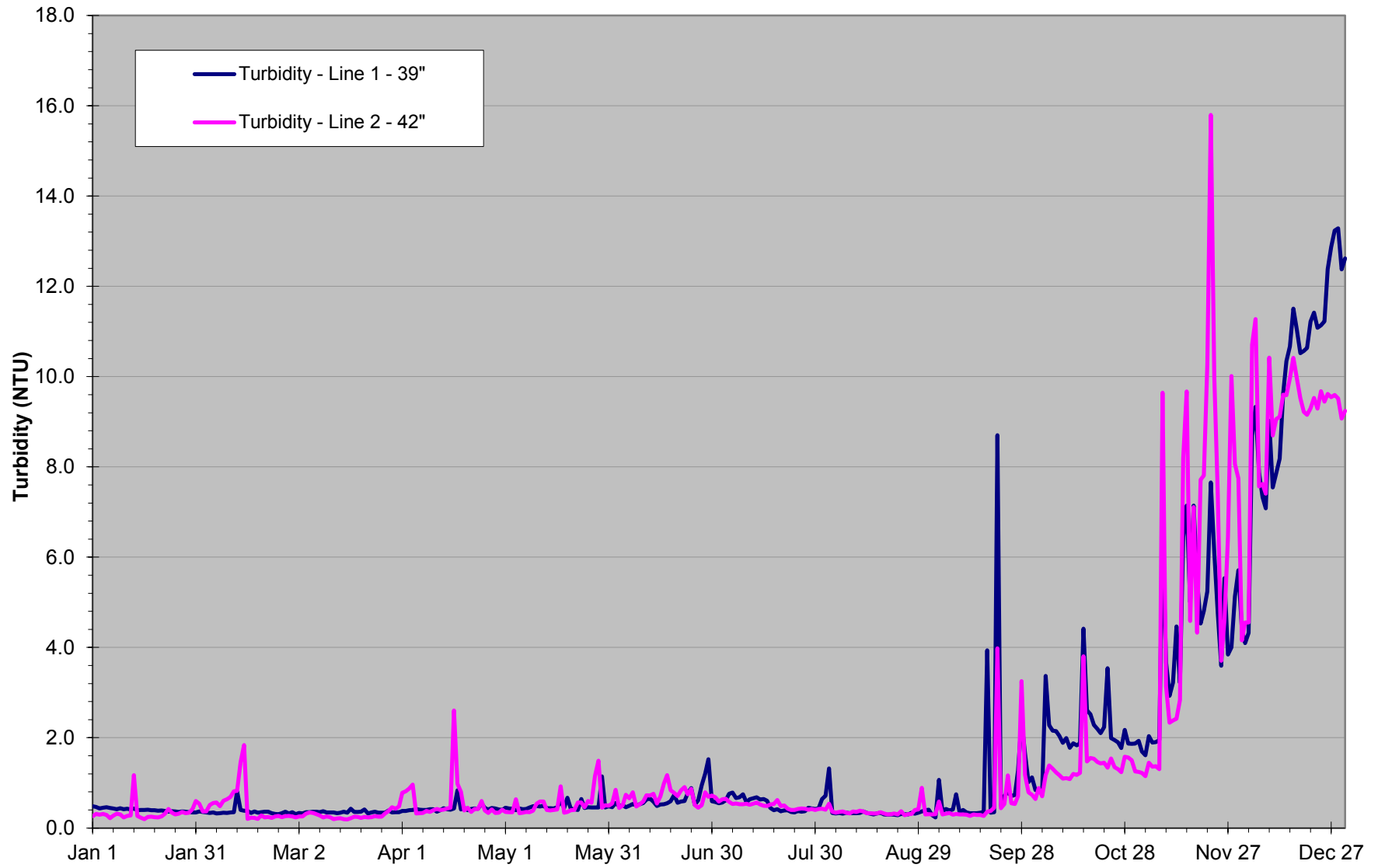
Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Nov 03/18	1.61	1.15	0.40	0.18	0.13	0.62
Nov 04/18	2.03	1.45	0.56	0.02	0.02	0.70
Nov 05/18	1.89	1.36	0.56	0.02	0.02	0.58
Nov 06/18	1.90	1.37	0.54	0.01	0.02	1.34
Nov 07/18	1.95	1.30	0.66	0.02	0.01	1.99
Nov 08/18	6.59	9.64	1.23	0.02	0.01	1.99
Nov 09/18	3.67	3.14	1.14	0.02	0.01	1.82
Nov 10/18	2.93	2.33	0.35	0.02	0.02	1.49
Nov 11/18	3.22	2.38	0.36	0.02	0.02	1.11
Nov 12/18	4.47	2.42	0.32	0.02	0.02	0.78
Nov 13/18	3.22	2.83	0.31	0.04	0.01	0.71
Nov 14/18	6.45	8.20	0.34	0.02	0.01	1.16
Nov 15/18	7.14	9.67	0.36	0.02	0.01	1.99
Nov 16/18	5.00	4.59	0.39	0.02	0.02	1.99
Nov 17/18	7.14	7.11	0.38	0.01	0.02	1.81
Nov 18/18	5.49	4.33	0.38	0.02	0.01	1.46
Nov 19/18	4.53	7.72	0.36	0.02	0.01	0.98
Nov 20/18	4.81	7.81	0.47	0.01	0.01	0.82
Nov 21/18	5.24	10.27	0.35	0.02	0.01	0.81
Nov 22/18	7.65	15.79	0.36	0.02	0.02	0.81
Nov 23/18	6.10	10.00	0.32	0.02	0.01	0.81
Nov 24/18	4.76	7.40	0.28	0.02	0.02	0.81
Nov 25/18	3.60	3.70	0.23	0.02	0.01	0.81
Nov 26/18	5.53	4.62	0.19	0.02	0.01	0.81
Nov 27/18	3.85	6.44	0.19	0.02	0.01	0.81
Nov 28/18	4.00	10.01	0.18	0.02	0.01	0.81
Nov 29/18	5.13	8.06	0.18	0.02	0.02	0.81
Nov 30/18	5.71	7.75	0.17	0.02	0.02	0.81
Dec 01/18	4.39	4.16	0.17	0.07	0.01	0.81
Dec 02/18	4.10	4.55	0.16	0.02	0.01	0.81
Dec 03/18	4.32	4.55	0.17	0.02	0.01	0.81
Dec 04/18	8.69	10.71	0.17	0.02	0.01	0.81
Dec 05/18	9.33	11.28	0.17	0.02	0.01	0.81
Dec 06/18	7.88	7.57	0.17	0.02	0.01	0.81
Dec 07/18	7.33	7.62	0.17	0.02	0.01	0.81
Dec 08/18	7.08	7.41	0.19	0.02	0.01	0.81
Dec 09/18	9.02	10.42	0.18	0.02	0.02	0.81
Dec 10/18	7.54	8.70	0.23	0.03	0.01	0.81
Dec 11/18	7.86	9.06	0.23	0.02	0.02	0.81
Dec 12/18	8.18	9.11	0.25	0.03	0.02	0.70
Dec 13/18	9.63	9.60	0.31	0.49	0.47	0.54
Dec 14/18	10.35	9.59	0.28	0.61	0.01	0.27
Dec 15/18	10.67	9.96	0.26	0.03	0.02	0.33
Dec 16/18	11.51	10.41	0.28	0.03	0.01	0.27
Dec 17/18	11.04	9.96	0.25	0.04	0.01	0.23
Dec 18/18	10.52	9.52	0.23	0.03	0.01	0.18
Dec 19/18	10.57	9.22	0.26	0.03	0.02	0.14
Dec 20/18	10.63	9.15	0.29	0.03	0.02	0.13
Dec 21/18	11.22	9.30	0.28	0.03	0.01	0.12
Dec 22/18	11.42	9.53	0.26	0.03	0.02	0.11
Dec 23/18	11.08	9.29	0.28	0.03	0.01	0.10



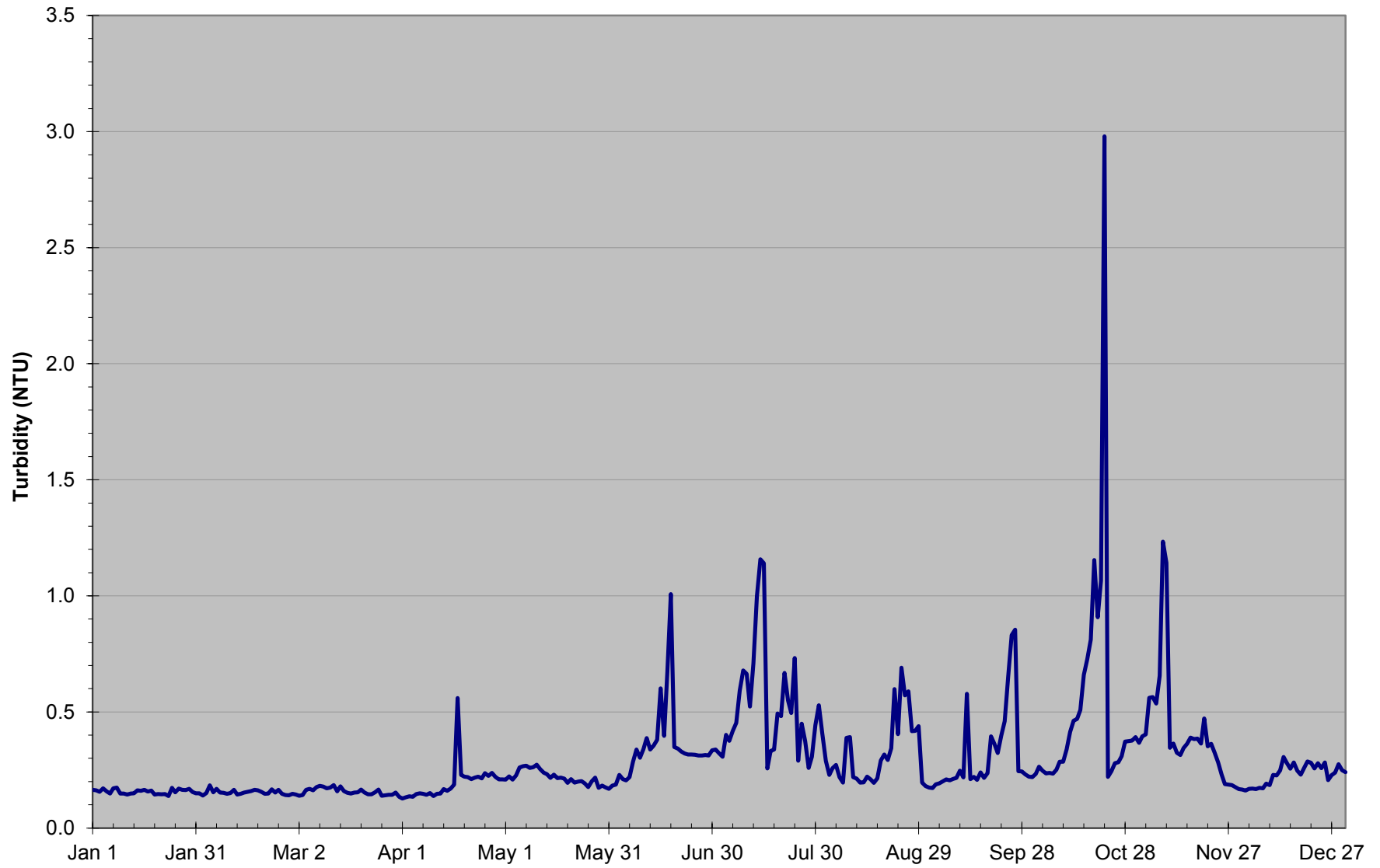
## Turbidity - 2018

Date	Turbidity (NTU)					
	Latimer A - 39"	Latimer B - 42"	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Dec 24/18	11.13	9.68	0.26	0.03	0.02	0.09
Dec 25/18	11.22	9.45	0.28	0.03	0.02	0.09
Dec 26/18	12.38	9.62	0.21	0.03	0.01	0.08
Dec 27/18	12.87	9.54	0.23	0.03	0.02	0.08
Dec 28/18	13.24	9.59	0.24	0.03	0.01	0.08
Dec 29/18	13.29	9.51	0.27	0.05	0.02	0.07
Dec 30/18	12.38	9.07	0.25	0.03	0.02	0.07
Dec 31/18	12.62	9.24	0.24	0.04	0.01	0.07

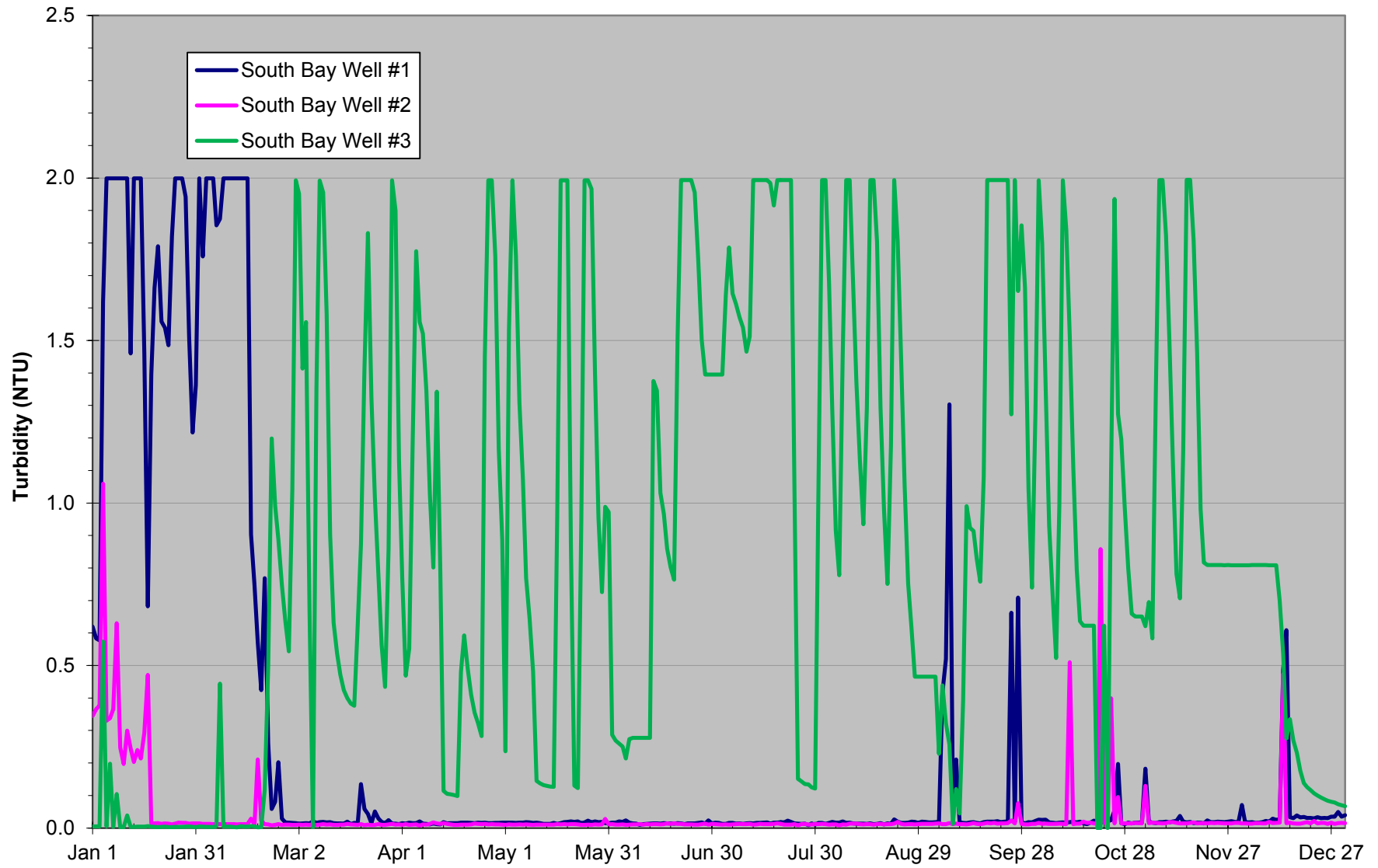
Turbidity - 2018 - Latimer Lake



Turbidity - 2018 - Spruce Lake



Turbidity - 2018 - Southbay Wellfield



## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Jan 01/18					
Jan 02/18	2.1	4.5			
Jan 03/18	3.2				
Jan 04/18	2.1	3			
Jan 05/18	2.2	3			
Jan 06/18	2.1	3			
Jan 07/18	3	4			
Jan 08/18	2.7	4			
Jan 09/18	2				
Jan 10/18	2	3			
Jan 11/18	2.7				
Jan 12/18	1.7	4			
Jan 13/18	3.6	3			
Jan 14/18	2.9	4.5			
Jan 15/18	2.8	4.5			
Jan 16/18	1	6			
Jan 17/18	4	3			
Jan 18/18	2	3			
Jan 19/18	1.6	3			
Jan 20/18	2.2				
Jan 21/18	2	4			
Jan 22/18	2.6	3.5			
Jan 23/18	2.8	4			
Jan 24/18	3.1	3			
Jan 25/18	2	3			
Jan 26/18	1.8	3			
Jan 27/18	2.1	3			
Jan 28/18	3.2	4			
Jan 29/18	3.3	4			
Jan 30/18	2.7	4			
Jan 31/18	3.3	4			
Feb 01/18	0	3			
Feb 02/18	1.4	4			
Feb 03/18	1.9	3			
Feb 04/18	3.1	6			
Feb 05/18		4			
Feb 06/18	3.4	4			
Feb 07/18	2.5	5			
Feb 08/18	2.4	4			
Feb 09/18	1.9	3			
Feb 10/18	3.1	4			
Feb 11/18	3.3	5			
Feb 12/18	1.9	5			
Feb 13/18	2.1	3.5			
Feb 14/18	3.3	3			
Feb 15/18		4			
Feb 16/18	1.9	4			
Feb 17/18	2.6	4			
Feb 18/18	2.7				
Feb 19/18					
Feb 20/18	3.9	5			

## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Feb 21/18	3.7	4			
Feb 22/18	1.8	4			
Feb 23/18	3.1	4			
Feb 24/18	3.1	4			
Feb 25/18	4.8	4			
Feb 26/18	2.8	4			
Feb 27/18	3.7	5			
Feb 28/18	4				
Mar 01/18	3.1	5			
Mar 02/18	2.9	5			
Mar 03/18	3.2				
Mar 04/18	3.7	5			
Mar 05/18	1.4	5			
Mar 06/18	1	4			
Mar 07/18	1	4			
Mar 08/18	1.9				
Mar 09/18	2.8	4			
Mar 10/18	2.7	4			
Mar 11/18	2.8	6			
Mar 12/18	3.3	5			
Mar 13/18	3.3	5			
Mar 14/18	2.4	5			
Mar 15/18	2.1				
Mar 16/18	1.5	5			
Mar 17/18	1.5	5			
Mar 18/18	2.9	5			
Mar 19/18	2.7				
Mar 20/18	1.6	5			
Mar 21/18	2.2	5			
Mar 22/18	1.2	5			
Mar 23/18	1.4	5			
Mar 24/18	2	5			
Mar 25/18	2.1	5			
Mar 26/18	2.2	5			
Mar 27/18	1.5	5			
Mar 28/18	1.8	5			
Mar 29/18	3	4			
Mar 30/18					
Mar 31/18	3.8	5			
Apr 01/18	3.1	9.5			
Apr 02/18					
Apr 03/18	3.2	6			
Apr 04/18	3.7	6			
Apr 05/18	3.2	5			
Apr 06/18	2.8	5			
Apr 07/18	2.7	5			
Apr 08/18	2.8	6			
Apr 09/18	3.8	6			
Apr 10/18	2.8	6			
Apr 11/18	3.3	6			
Apr 12/18	3.7	6			

## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Apr 13/18	3.6	6			
Apr 14/18	3.8	6			
Apr 15/18	4.2	6			
Apr 16/18	4.9	6			
Apr 17/18	3.6	6			
Apr 18/18	4.3	6			
Apr 19/18	1.8	6			
Apr 20/18	1.9	6			
Apr 21/18	4.8	6			
Apr 22/18	5.3	6			
Apr 23/18	6.1	6			
Apr 24/18	6.3	6			
Apr 25/18	5.4	6			
Apr 26/18	6.9	5			
Apr 27/18	7.2	5			
Apr 28/18	7.7				
Apr 29/18	8.1	8.5			
Apr 30/18	9.8	8			
May 01/18	10.4	8			
May 02/18	9.3	8			
May 03/18	8.8	8			
May 04/18	9.1	9			
May 05/18	8.1	9			
May 06/18	9.3	10			
May 07/18	11.4	11			
May 08/18	11	11			
May 09/18	11.5	11			
May 10/18	11.7	12			
May 11/18	11.3	12			
May 12/18	10.9	12			
May 13/18	11.5	13			
May 14/18	12.2	14			
May 15/18	11.6	14			
May 16/18	11.3	13			
May 17/18	11.5	12			
May 18/18	11.8	13			
May 19/18	11.7	13			
May 20/18	11.2	13			
May 21/18					
May 22/18	13.1	14			
May 23/18	12.8	14			
May 24/18	12.4	14			
May 25/18	12.7	14			
May 26/18	13.7	14			
May 27/18	14	15			
May 28/18	11.6				
May 29/18	14.8	15			
May 30/18	15.2	15			
May 31/18	13.8	15			
Jun 01/18	14.1	15			
Jun 02/18	14.6	16			

## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Jun 03/18	16.1	16			
Jun 04/18	15.7	16			
Jun 05/18	15.1	16			
Jun 06/18	15.6	16			
Jun 07/18	15.3	16			
Jun 08/18	15.6	17			
Jun 09/18	15.6	17			
Jun 10/18	15.9	16			
Jun 11/18	15.9	16			
Jun 12/18	15.7	16			
Jun 13/18	16	17			
Jun 14/18	16.4	17			
Jun 15/18	15.3	17			
Jun 16/18	15.2	17			
Jun 17/18	17.1	17			
Jun 18/18	17	17			
Jun 19/18	16.8	17			
Jun 20/18	16.5	17			
Jun 21/18	18.8	18			
Jun 22/18	17.5	17			
Jun 23/18	17.5	17			
Jun 24/18	18.2	18			
Jun 25/18	18.2	18			
Jun 26/18	16.8	18			
Jun 27/18	17.8	18			
Jun 28/18	18.9	18			
Jun 29/18	15.3	18			
Jun 30/18	18.1	18			
Jul 01/18					
Jul 02/18	18.6	19			
Jul 03/18	16.4	18			
Jul 04/18	16.5	19			
Jul 05/18	19	20			
Jul 06/18	19.3	19			
Jul 07/18	19.7	19			
Jul 08/18	20.4	22			
Jul 09/18	20.9				
Jul 10/18	20.8	22			
Jul 11/18	21.2	22			
Jul 12/18	21	20			
Jul 13/18	20.5	20			
Jul 14/18	20.9	21			
Jul 15/18	21.5	23			
Jul 16/18	21.2	22			
Jul 17/18	21.2	22			
Jul 18/18	21.6	22			
Jul 19/18	21.7	21			
Jul 20/18	21.6	22			
Jul 21/18	21.9	22			
Jul 22/18	22.1		10.6	13.5	
Jul 23/18	22.3	23			



## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Jul 24/18	22.3	23	12.4	16.4	12.6
Jul 25/18	22.5		12.2	16.5	17.2
Jul 26/18	22.6	21	10.7	13.8	
Jul 27/18	21.6	21	10.4	12.9	
Jul 28/18	22.1	21	10.5	13.2	
Jul 29/18	22.2	23	10.7	13.4	13.9
Jul 30/18	21	23	10.3	12.7	13.8
Jul 31/18	22.1	23	10.7	13.5	14.1
Aug 01/18	22.3	22	10	13	
Aug 02/18	22.7	22	10.8	13.4	
Aug 03/18	22	22	10.7	13.8	
Aug 04/18	23	22	10.5	13.3	
Aug 05/18	23.1	23.5	10.7	13.7	14.2
Aug 06/18					
Aug 07/18	23.6	23.5	10.5	13.1	14.2
Aug 08/18	23.9	23.5	10.8	13.5	
Aug 09/18	23.6	23.5			
Aug 10/18	23.4	23	10.4	12.8	
Aug 11/18	23.4	22.3			
Aug 12/18	23.4	23	10.5	13	13.9
Aug 13/18	23.3	23			
Aug 14/18	23.8	23	9.8	13.8	14.9
Aug 15/18	23.6	23			
Aug 16/18	23.6	22	10.9	13.4	
Aug 17/18	23.4	22			
Aug 18/18	23	22		12.9	13.9
Aug 19/18	22.4	23	10.6	13.6	14
Aug 20/18	22	23	11.1		
Aug 21/18	22.2	23			
Aug 22/18	22.4	23			
Aug 23/18	22	21	10.9	14.1	
Aug 24/18	21.8	21	10.2	12.7	
Aug 25/18	21.7	20	10.3	12.7	
Aug 26/18	22.1	22			
Aug 27/18	21.7	23			
Aug 28/18	21.9	23	10.2	12.7	13.8
Aug 29/18	21.8	23	10.8	13.3	
Aug 30/18	22.4	22	10.5	13.2	
Aug 31/18	22	21	10.4	14	
Sep 01/18	21.6	22			
Sep 02/18	21.6	22			
Sep 03/18					
Sep 04/18	21.4	23	10.3	12.6	13.7
Sep 05/18	21				
Sep 06/18	21.2				
Sep 07/18	20.5				
Sep 08/18	20.7				
Sep 09/18	20.6	22	10.3	12.4	12
Sep 10/18	20.1	20	10.1	12.1	13.1
Sep 11/18	19.6	23	10	12	13
Sep 12/18	19.8				

## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Sep 13/18	19.7				
Sep 14/18	19.5				
Sep 15/18	19.9				
Sep 16/18	19.9	20.5			
Sep 17/18	20.4	20.5	10.4	12.9	13.5
Sep 18/18	20.2	20.5			
Sep 19/18	19.9	20.5			
Sep 20/18	18.9	20	10	12	
Sep 21/18	18.5	20	9.9	12	
Sep 22/18	18.2	19			
Sep 23/18	17.9				
Sep 24/18	18	20	9.9	11.7	12.6
Sep 25/18	17.1	20	10	12.1	13
Sep 26/18	16.9	19	10.1	12.1	12.7
Sep 27/18	16.5	19	10	12	
Sep 28/18	16.7	19	10.4	12.2	
Sep 29/18	16	19	10.4	12.2	
Sep 30/18	15.8	18	10.1	12.1	12.6
Oct 01/18	16.4	17	12.1	18.2	21.3
Oct 02/18	15.3	17	12.7	20.6	21.5
Oct 03/18	15.7	19	11.2	15.3	
Oct 04/18	15.1	18	11.2	14.8	
Oct 05/18	15.6		11.3	14.7	
Oct 06/18	14.8	18			
Oct 07/18	15.1	16			
Oct 08/18					
Oct 09/18	14.6	16	10.9	15.1	17.3
Oct 10/18	14.6	17	11.4	16.9	17.6
Oct 11/18	13.8	15			
Oct 12/18	13.8	17	11	14	
Oct 13/18	13.4	17	10.9	15	
Oct 14/18	12.5	13	10.7	14.8	15.3
Oct 15/18	12.8	13	10.9	15.6	11.3
Oct 16/18	13.1	13	11.1	15.1	12.6
Oct 17/18	12.7	13.5	10.9	13.9	
Oct 18/18	11.5	12			
Oct 19/18	10.6	13	10	13	
Oct 20/18	10.4	13	10	13	
Oct 21/18	10.6	11	10.5	14.4	15.7
Oct 22/18	10.8	10.5	10.6	13.9	15.5
Oct 23/18	10.3	10.5	10.6	13.7	15.5
Oct 24/18	10.4	11			
Oct 25/18	9.3	11	9.8	11.5	
Oct 26/18	8.6	11	9.5	11	
Oct 27/18	8		9.5	10.8	
Oct 28/18	8.4	10			
Oct 29/18	8.9	10	9.9	11.3	11.8
Oct 30/18	8	10	12.6	16	16.7
Oct 31/18	7.9	10			
Nov 01/18	8.2	8.5			
Nov 02/18	9.5	18			

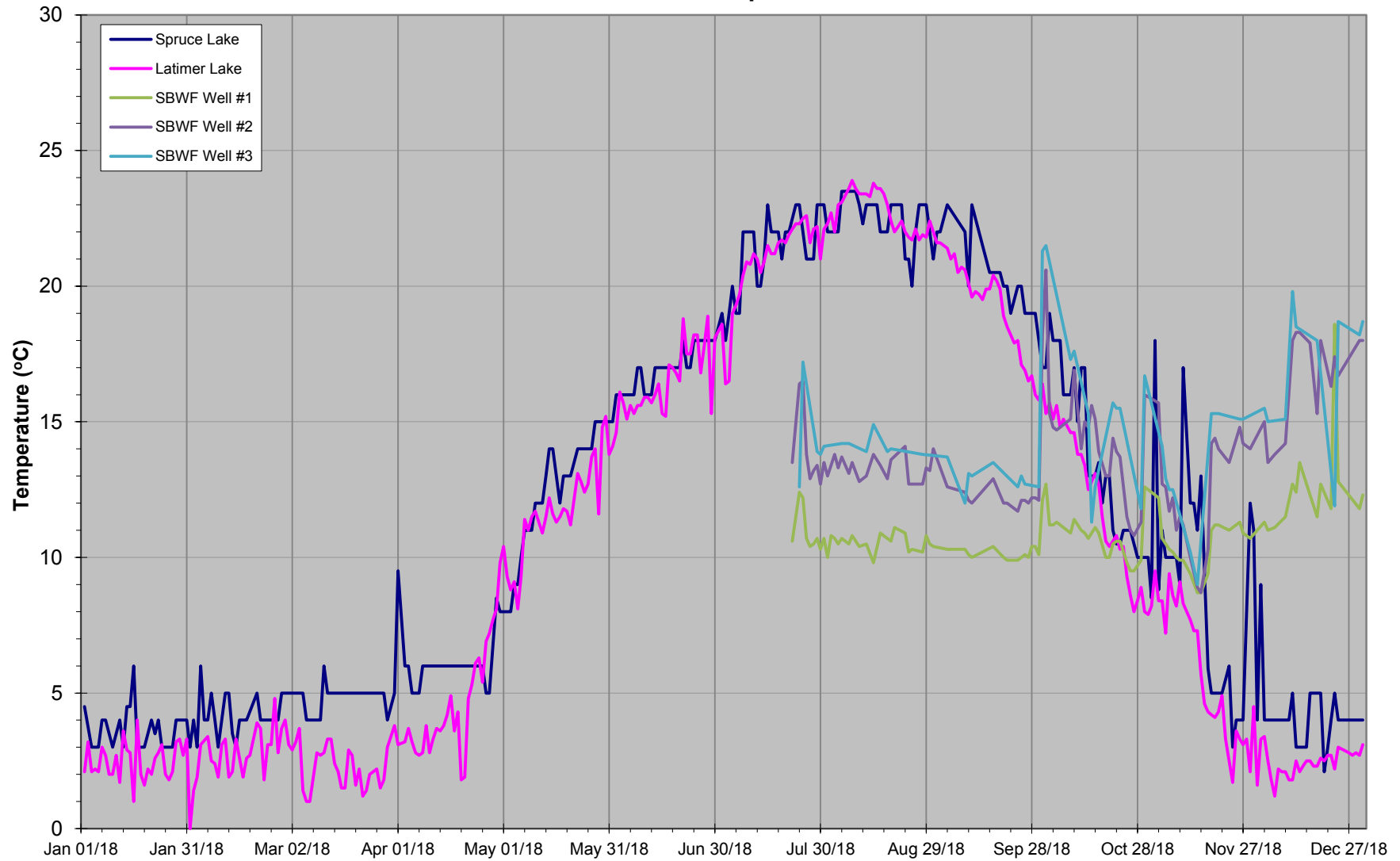
## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Nov 03/18	8.4	8.8	12.2	15.7	
Nov 04/18	8.4	11	10.7	12.7	14.1
Nov 05/18	7.2	10	10.5	12.6	12.9
Nov 06/18	9.4	10	10.3	11.7	12.5
Nov 07/18	8.6	10	10.2	12.2	12.5
Nov 08/18	8.2	10	10	11	
Nov 09/18	9.1	9	9.9	11.5	
Nov 10/18	8.3	17	9.9	11.2	
Nov 11/18					
Nov 12/18	7.7	12	9.4	10	10.2
Nov 13/18	7.3	12			
Nov 14/18	7.3	11	8.7	8.9	9
Nov 15/18	5.7	13	8.7	8.7	
Nov 16/18	4.6				
Nov 17/18	4.3	5.9	9.4	10.3	
Nov 18/18	4.2	5	11	14.2	15.3
Nov 19/18	4.1	5	11.2	14.4	15.3
Nov 20/18	4.3	5	11.2	14	15.3
Nov 21/18	4.9	5			
Nov 22/18	3.3				
Nov 23/18	2.5	6	11	13.5	
Nov 24/18	1.7	3			
Nov 25/18	3.6	4			
Nov 26/18	3.3	4	11.3	14.8	15.1
Nov 27/18	3.1	4	10.9	14.2	15.1
Nov 28/18	3.3				
Nov 29/18	2.1	12	10.7	14	
Nov 30/18	4.5	11			
Dec 01/18	1.6	4			
Dec 02/18	3.3	9			
Dec 03/18	3.4	4	11.3	15	15.5
Dec 04/18	2.5	4	11	13.5	15
Dec 05/18	1.8	4			
Dec 06/18	1.2	4	11.1	13.8	
Dec 07/18	2.2	4			
Dec 08/18	2.1				
Dec 09/18	2.1	4	11.5	14.2	15.1
Dec 10/18	1.8	4			
Dec 11/18	1.8	5	12.7	18	19.8
Dec 12/18	2.5	3	12.4	18.3	18.5
Dec 13/18	2.1	3	13.5	18.3	
Dec 14/18	2.3	3			
Dec 15/18	2.5	3			
Dec 16/18	2.5	5	12.3	17.9	
Dec 17/18	2.3	5			
Dec 18/18	2.3	5	11.5	15.3	18
Dec 19/18	2.6	5	12.7	18	
Dec 20/18	2.5	2.1			
Dec 21/18	2.7	3			
Dec 22/18	2.7	4	11.8	16.3	
Dec 23/18	2.2	5	18.6	17.4	11.9

## Temperature - Raw Water 2018

Date	Temperature (°C)				
	Latimer	Spruce	SBWF Well 1	SBWF Well 2	SBWF Well 2
Dec 24/18	3	4	12.8	16.7	18.7
Dec 25/18					
Dec 26/18					
Dec 27/18	2.8				
Dec 28/18	2.7				
Dec 29/18	2.8				
Dec 30/18	2.7		11.8	18	18.2
Dec 31/18	3.1	4	12.3	18	18.7

# Raw Water Temperature - 2018



**Ultraviolet Transmittance (UVT)  
Raw Water 2018**

Latimer	
Sample Date	% UVT
Jan 02/18	72.8
Jan 09/18	73.7
Jan 16/18	73.6
Jan 23/18	72.2
Jan 30/18	71.7
Feb 06/18	73.7
Feb 13/18	71.2
Feb 20/18	73.1
Feb 27/18	72.0
Mar 06/18	72.1
Mar 12/18	72.1
Mar 20/18	72.9
Mar 27/18	72.1
Apr 03/18	73.3
Apr 10/18	72.5
Apr 17/18	72.5
Apr 24/18	72.4
May 01/18	72.1
May 08/18	71.8
May 15/18	71.9
May 23/18	72.6
Jun 01/18	72.9
Jun 05/18	72.7
Jun 12/18	72.9
Jun 19/18	73
Jun 26/18	74.2
Jul 03/18	73.6
Jul 10/18	73.6
Jul 17/18	72
Jul 24/18	72
Jul 31/18	74.1
Aug 07/18	73.5
Aug 14/18	73.5
Aug 21/18	73.6
Aug 28/18	73.8
Sep 04/18	73.9
Sep 11/18	74
Sep 18/18	74.8
Sep 25/18	74.9
Oct 02/18	75.6
Oct 10/18	75.5
Oct 16/18	75.6
Oct 23/18	74.4
Oct 30/18	74.4
Nov 06/18	72.8
Nov 13/18	72.7
Nov 20/18	70.3
Nov 27/18	68.9
Dec 04/18	70.8
Dec 11/18	69.2
Dec 18/18	68.9
Dec 27/18	68.6

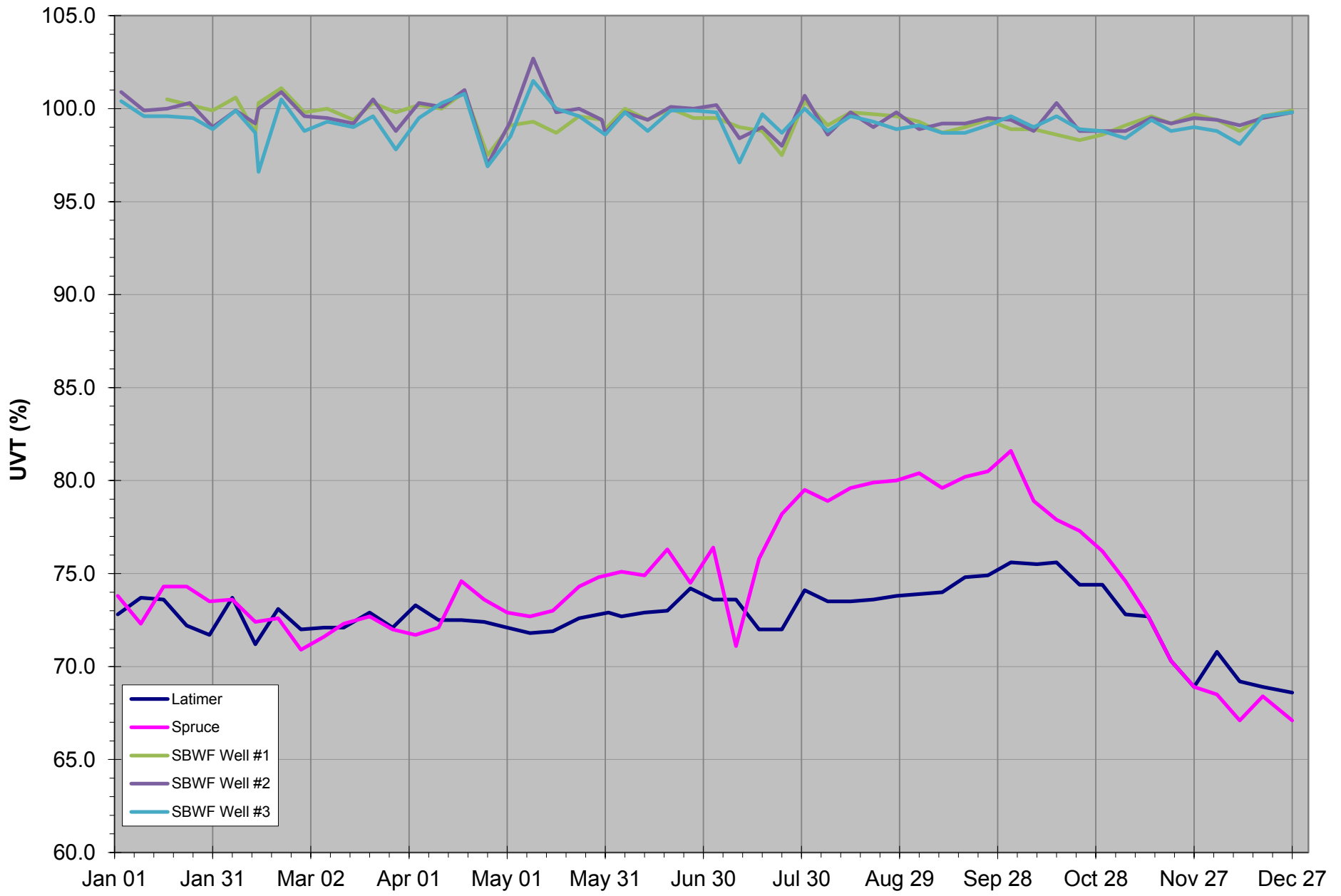
Spruce	
Sample Date	% UVT
Jan 02/18	73.8
Jan 09/18	72.3
Jan 16/18	74.3
Jan 23/18	74.3
Jan 30/18	73.5
Feb 06/18	73.6
Feb 13/18	72.4
Feb 20/18	72.6
Feb 27/18	70.9
Mar 06/18	71.6
Mar 12/18	72.3
Mar 20/18	72.7
Mar 27/18	72.0
Apr 03/18	71.7
Apr 10/18	72.1
Apr 17/18	74.6
Apr 24/18	73.6
May 01/18	72.9
May 08/18	72.7
May 15/18	73.0
May 23/18	74.3
May 29/18	74.8
Jun 05/18	75.1
Jun 12/18	74.9
Jun 19/18	76.3
Jun 26/18	74.5
Jul 03/18	76.4
Jul 10/18	71.1
Jul 17/18	75.8
Jul 24/18	78.2
Jul 31/18	79.5
Aug 07/18	78.9
Aug 14/18	79.6
Aug 21/18	79.9
Aug 28/18	80.0
Sep 04/18	80.4
Sep 11/18	79.6
Sep 18/18	80.2
Sep 25/18	80.5
Oct 02/18	81.6
Oct 09/18	78.9
Oct 16/18	77.9
Oct 23/18	77.3
Oct 30/18	76.2
Nov 06/18	74.6
Nov 13/18	72.7
Nov 20/18	70.3
Nov 27/18	68.9
Dec 04/18	68.5
Dec 11/18	67.1
Dec 18/18	68.4
Dec 27/18	67.1

SBWF Well #1	
Sample Date	% UVT
Jan 17/18	100.5
Jan 31/18	99.9
Feb 07/18	100.6
Feb 13/18	98.7
Feb 14/18	100.3
Feb 21/18	101.1
Feb 28/18	99.8
Mar 07/18	100.0
Mar 15/18	99.4
Mar 21/18	100.3
Mar 28/18	99.8
Apr 04/18	100.2
Apr 11/18	100.0
Apr 18/18	100.9
Apr 25/18	97.5
May 02/18	99.1
May 09/18	99.3
May 16/18	98.7
May 23/18	99.6
May 30/18	99.4
May 31/18	98.9
Jun 06/18	100.0
Jun 13/18	99.4
Jun 20/18	100.0
Jun 27/18	99.5
Jul 04/18	99.5
Jul 11/18	99.0
Jul 18/18	98.8
Jul 24/18	97.5
Jul 31/18	100.4
Aug 07/18	99.1
Aug 14/18	99.8
Aug 21/18	99.7
Aug 28/18	99.6
Sep 04/18	99.3
Sep 11/18	98.7
Sep 18/18	99.0
Sep 25/18	99.4
Oct 02/18	98.9
Oct 09/18	98.9
Oct 16/18	98.6
Oct 23/18	98.3
Oct 30/18	98.6
Nov 06/18	99.1
Nov 14/18	99.6
Nov 20/18	99.2
Nov 27/18	99.7
Dec 04/18	99.4
Dec 11/18	98.8
Dec 18/18	99.6
Dec 27/18	99.9

SBWF Well #2	
Sample Date	% UVT
Jan 03/18	100.9
Jan 10/18	99.9
Jan 17/18	100.0
Jan 24/18	100.3
Jan 31/18	99.0
Feb 07/18	99.9
Feb 13/18	99.2
Feb 14/18	100.0
Feb 21/18	100.9
Feb 28/18	99.6
Mar 07/18	99.5
Mar 15/18	99.2
Mar 21/18	100.5
Mar 28/18	98.8
Apr 04/18	100.3
Apr 11/18	100.1
Apr 18/18	101.0
Apr 25/18	97.0
May 02/18	99.3
May 09/18	102.7
May 16/18	99.8
May 23/18	100.0
May 30/18	99.4
May 31/18	98.7
Jun 06/18	99.8
Jun 13/18	99.4
Jun 20/18	100.1
Jun 27/18	100.0
Jul 04/18	100.2
Jul 11/18	98.4
Jul 18/18	99.0
Jul 24/18	98.0
Jul 31/18	100.7
Aug 07/18	98.6
Aug 14/18	99.8
Aug 21/18	99.0
Aug 28/18	99.8
Sep 04/18	98.9
Sep 11/18	99.2
Sep 18/18	99.2
Sep 25/18	99.5
Oct 02/18	99.4
Oct 09/18	98.8
Oct 16/18	100.3
Oct 23/18	98.8
Oct 30/18	98.8
Nov 06/18	98.8
Nov 14/18	99.5
Nov 20/18	99.2
Nov 27/18	99.5
Dec 04/18	99.4
Dec 11/18	99.1
Dec 18/18	99.5
Dec 27/18	99.8

SBWF Well #3	
Sample Date	% UVT
Jan 03/18	100.4
Jan 10/18	99.6
Jan 17/18	99.6
Jan 25/18	99.5
Jan 31/18	98.9
Feb 07/18	99.9
Feb 13/18	98.7
Feb 14/18	96.6
Feb 21/18	100.5
Feb 28/18	98.8
Mar 07/18	99.3
Mar 15/18	99.0
Mar 21/18	99.6
Mar 28/18	97.8
Apr 04/18	99.5
Apr 11/18	100.3
Apr 18/18	100.8
Apr 25/18	96.9
May 02/18	98.5
May 09/18	101.5
May 16/18	100.0
May 23/18	99.6
May 31/18	98.6
Jun 06/18	99.8
Jun 13/18	98.8
Jun 20/18	99.9
Jun 27/18	99.9
Jul 04/18	99.8
Jul 11/18	97.1
Jul 18/18	99.7
Jul 24/18	98.7
Jul 31/18	100.0
Aug 07/18	98.8
Aug 14/18	99.6
Aug 21/18	99.3
Aug 28/18	98.9
Sep 04/18	99.1
Sep 11/18	98.7
Sep 18/18	98.7
Sep 25/18	99.1
Oct 02/18	99.6
Oct 09/18	99.0
Oct 16/18	99.6
Oct 23/18	98.9
Oct 30/18	98.8
Nov 06/18	98.4
Nov 14/18	99.4
Nov 20/18	98.8
Nov 27/18	99.0
Dec 04/18	98.8
Dec 11/18	98.1
Dec 18/18	99.6
Dec 27/18	99.8

### Ultraviolet Transmittance (UVT) - Raw Water - 2018



## Appendix R

### 2018 Cross Connection Removal Program

(No Cross connections discovered or  
removed in 2018)



# Appendix S

## 2018 Taste & Odour Data

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Project :** Contract #: 2014-081003QA

22-August-2018

**City of Saint John**  
Attn : James Margaris

PO Box 1971  
Saint John, NB  
E2L 4L1, Canada

Phone: (506) 977-0835  
Fax:(506) 658-4740

**Date Rec. :** 16 August 2018  
**LR Report:** CA12581-AUG18  
**Reference:** PO#54037

**Copy:** #1

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Geosmin ng/L	MIB ng/L
1: Analysis Start Date		---	17-Aug-18	17-Aug-18
2: Analysis Start Time		---	16:21	16:21
3: Analysis Completed Date		---	22-Aug-18	22-Aug-18
4: Analysis Completed Time		---	15:07	15:07
5: NBSID15509 Latimer (Raw)	14-Aug-18 10:05	17.0	< 3	< 3
6: NBSID15667 Spruce Lake (Raw)	14-Aug-18 14:15	17.0	< 3	< 3



**Chris Sullivan, B.Sc., C.Chem**  
Project Specialist  
Environmental Services, Analytical

**SGS Canada Inc.**  
P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - KOL 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Project :** Contract #: 2014-081003QA

07-September-2018

**City of Saint John**  
Attn : James Margaris

**Date Rec. :** 31 August 2018  
**LR Report:** CA17290-AUG18

PO Box 1971  
Saint John, NB  
E2L 4L1, Canada

**Copy:** #1

Phone: (506) 977-0835  
Fax:(506) 658-4740

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Geosmin ng/L	MIB ng/L
1: Analysis Start Date		---	01-Sep-18	01-Sep-18
2: Analysis Start Time		---	13:04	13:04
3: Analysis Completed Date		---	06-Sep-18	06-Sep-18
4: Analysis Completed Time		---	13:01	13:01
5: MDL		---	3	3
6: NBSID15509 Latimer Lake (Raw)	29-Aug-18 11:10	11.0	3 <MDL	3 <MDL
7: NBSID15667 Spruce Lake (Raw)	29-Aug-18 10:15	11.0	3 <MDL	3 <MDL

MDL - SGS Method Detection Limit

*Chris Sullivan*



**Chris Sullivan, B.Sc., C.Chem**  
Project Specialist  
Environmental Services, Analytical

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Project :** Contract #: 2014-081003QA

19-September-2018

**City of Saint John**  
Attn : James Margaris**Date Rec. :** 13 September 2018  
**LR Report:** CA18435-SEP18  
**Reference:** PO# 54037

PO Box 1971  
Saint John, NB  
E2L 4L1, Canada

**Copy:** #1

Phone: (506) 977-0835  
Fax:(506) 658-4740

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Geosmin ng/L	MIB ng/L
1: Analysis Start Date		---	14-Sep-18	14-Sep-18
2: Analysis Start Time		---	15:32	15:32
3: Analysis Completed Date		---	19-Sep-18	19-Sep-18
4: Analysis Completed Time		---	09:49	09:49
5: MDL		---	3	3
6: NBSID15509 Latimer Lake (Raw)	12-Sep-18 11:10	17.0	3 <MDL	3 <MDL
7: NBSID15667 Spruce Lake (Raw)	12-Sep-18 10:15	17.0	3 <MDL	3 <MDL

MDL - SGS Method Detection Limit

*Chris Sullivan*

**Chris Sullivan, B.Sc., C.Chem**  
Project Specialist  
Environmental Services, Analytical

**SGS Canada Inc.**  
P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Project :** Contract #: 2014-081003QA

04-October-2018

**City of Saint John**  
Attn : James Margaris

**Date Rec. :** 28 September 2018  
**LR Report:** CA17068-SEP18

PO Box 1971  
Saint John, NB  
E2L 4L1, Canada

**Copy:** #1



Phone: (506) 977-0835  
Fax:(506) 658-4740

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Geosmin ng/L	MIB ng/L
1: Analysis Start Date		---	28-Sep-18	28-Sep-18
2: Analysis Start Time		---	17:09	17:09
3: Analysis Completed Date		---	03-Oct-18	03-Oct-18
4: Analysis Completed Time		---	14:38	14:38
5: MDL		---	3	3
6: NBSID15509 Latimer Lake (Raw	27-Sep-18 11:10	13.0	3 <MDL	3 <MDL
7: NBSID15667 Spruce lake (Raw)	27-Sep-18 10:15	13.0	3 <MDL	3 <MDL

MDL - SGS Method Detection Limit

  
  
**Chris Sullivan, B.Sc., C.Chem**  
**Project Specialist**  
**Environmental Services, Analytical**

**SGS Canada Inc.**  
P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - KOL 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Project :** Contract #: 2014-081003QA

22-October-2018

**City of Saint John**  
Attn : James Margaris

**Date Rec. :** 17 October 2018  
**LR Report:** CA13676-OCT18  
**Reference:** PO# 54037

PO Box 1971  
Saint John, NB  
E2L 4L1, Canada

**Copy:** #1


Phone: (506) 977-0835  
Fax:(506) 658-4740

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Geosmin ng/L	MIB ng/L
1: Analysis Start Date		---	17-Oct-18	17-Oct-18
2: Analysis Start Time		---	17:13	17:13
3: Analysis Completed Date		---	22-Oct-18	22-Oct-18
4: Analysis Completed Time		---	11:58	11:58
5: MDL		---	3	3
6: NBSID15509 Latimer Lake (RAW)	15-Oct-18 11:10	8.0	3 <MDL	3 <MDL
7: NBSID15667 Spruce Lake (RAW)	15-Oct-18 10:15	8.0	3 <MDL	3 <MDL

MDL - SGS Method Detection Limit


---

**Chris Sullivan, B.Sc., C.Chem**  
Project Specialist  
Environmental Services, Analytical





**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - KOL 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Project :** Contract #: 2014-081003QA

15-November-2018

**City of Saint John**  
Attn : James Margaris

**Date Rec. :** 08 November 2018  
**LR Report:** CA16480-NOV18  
**Reference:** PO# 54037

PO Box 1971  
Saint John, NB  
E2L 4L1, Canada

**Copy:** #1

Phone: (506) 977-0835  
Fax:(506) 658-4740

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	8: MDL	9: NBSID15509 Latimer Lake (Raw)	10: NBSID15667 Spruce Lake (Raw)
Sample Date & Time						07-Nov-18 11:10	07-Nov-18 10:15
Temp Upon Receipt [°C]	---	---	--	--	---	9.0	9.0
MIB [ng/L]	08-Nov-18	17:16	13-Nov-18	09:08	3	3 <MDL	3 <MDL
Geosmin [ng/L]	08-Nov-18	17:16	13-Nov-18	09:08	3	3 <MDL	3 <MDL

Catharine Arnold, B.Sc., C.Chem  
Project Specialist,  
Environment, Health & Safety

## Appendix T

### 2018 Water Quality Flushing's Inventory





## SAINT JOHN WATER 2018 WATER QUALITY FLUSHINGS

East Flushings		West Flushings	
895	Ashburn Road	3	Walsh Place
2	Brentwood Crescent	669	Tippet Drive
11	Charles Street East	140	*Church Avenue
950	Grandview Avenue	76	*Dantes Drive
17	Highland Road	240	* Market Place
203	Highland Road	801	Lorneville Road
1099	Kennebecasis	89	* Main Street West
285	*McIlveen	669	Tippet Drive
140	* Midwood Avenue		
25	*Osprey Terrace		
36	*Park Drive		
110	Pokiok Road		
41	Ridge Street		
1742	* Rothesay Road		
300	* Sydney Street		
112	* Westmount Drive		
85	*Whitebone Way		
124	Willie Avenue		

\* Year Round Flushings

# Appendix U

## 2018 Bulk Water Testing

### Latimer Lake and South Bay Wellfield

## Comprehensive Water Quality Analysis 2018

Parameter	Units	CDWQG MAC	Latimer Lake	Southbay Wellfield
Analysis date			10/10/2018	10/10/2018
<b>INORGANIC PARAMETERS</b>				
Antimony (total)	mg/L	0.006	0.00004	0.00021
Alkalinity (total, as CaCO <sub>3</sub> )	mg/L		9	134
Aluminum	mg/L		0.0263	0.0013
Ammonia (total, as N)	mg/L		< 0.04	< 0.04
Arsenic (total)	mg/L	0.01	0.0002	0.0009
Barium (total)	mg/L	1	0.0107	0.0592
Boron (total)	mg/L	5	0.004	0.024
Bromate	mg/L	0.01	< 0.003	< 0.003
Cadmium (total)	mg/L	0.005	< 0.000003	0.000004
Calcium (total)	mg/L		4.00	65.1
Chloride	mg/L	* ≤ 250 *	6.4	77.0
Chromium (total)	mg/L	0.05	0.00016	0.00015
Colour	TCU	* ≤ 15*	11	< 3
Copper (total)	mg/L	≤ 1	0.00044	0.00040
Cyanide (free)	mg/L		< 0.002	< 0.002
Cyanide (total)	mg/L	0.2	< 0.002	< 0.002
Fluoride	mg/L	1.5	< 0.06	0.10
Hardness (total, as CaCO <sub>3</sub> )	mg/L	* ≤ 500 *	13	212
Iron (total)	mg/L	* ≤ 0.3 *	0.051	< 0.007
Lead (total)	mg/L	0.01	0.00005	< 0.00001
Magnesium (total)	mg/L		0.737	12.0
Manganese (total)	mg/L	* ≤ 0.05 *	0.0689	0.0074
Mercury (total)	mg/L	0.001	< 0.00001	< 0.00001
Nitrate (as N)	mg/L	10	< 0.006	0.870
Nitrate + Nitrite (as N)	mg/L	10	< 0.006	0.896
Nitrilotriacetic acid / NTA	mg/L	0.4	< 0.03	< 0.03
Nitrite (as N)	mg/L	1	< 0.003	0.026
pH		7.00 - 10.5	6.50	7.93
Selenium (total)	mg/L	0.05	0.00007	0.00012
Sodium (total)	mg/L	≤ 200	4.28	22.6
Sulphate	mg/L	* ≤ 500 *	2.3	34.0
Sulphide (total, as S)	mg/L	* ≤ 0.05 *	< 0.006	< 0.006
Total dissolved solids / TDS	mg/L	* ≤ 500 *	< 30	349
Turbidity	NTU	5	1.50	0.12
Uranium (total)	mg/L	0.02	0.000018	0.002480
Zinc (total)	mg/L	* ≤ 5 *	0.002	0.005

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Bq/L - Becquerels per liter

TCU - True Color Units

NTU - Nephelometric Turbidity Units

L/m<sup>3</sup> - Liters per cubic meter

## Comprehensive Water Quality Analysis 2018

Parameter	Units	CDWQG MAC	Latimer Lake	Southbay Wellfield
Analysis date			10/10/2018	10/10/2018
<b>ORGANIC PARAMETERS</b>				
1,1-Dichloroethylene	ug/L	14	< 0.33	< 0.33
1,2-Dichlorobenzene	ug/L	200	< 0.41	< 0.41
1,2-Dichloroethane	ug/L	5	< 0.35	< 0.35
1,4-Dichlorobenzene	ug/L	5	< 0.36	< 0.36
2,3,4,6-Tetrachlorophenol	ug/L	100	< 0.20	< 0.20
2,4,6-Trichlorophenol	ug/L	5	< 0.25	< 0.25
2,4-Dichlorophenol	ug/L	900	< 0.15	< 0.15
2-Methylisoborneol	ng/L		< 3	< 3
Benzene	ug/L	5	< 0.32	< 0.32
Benzo[a]pyrene	ug/L	0.04	< 0.004	< 0.004
Bromodichloromethane	ug/L		< 0.26	< 0.26
Bromoform	ug/L		< 0.34	< 0.34
Carbon tetrachloride	ug/L	2	< 0.16	< 0.16
Chloroform	ug/L		< 0.29	0.55
Dibromochloromethane	ug/L		< 0.37	< 0.37
Dichloromethane	ug/L	50	< 0.35	< 0.35
Dissolved Organic Carbon	mg/L		4	< 1
Ethylbenzene	ug/L	140	< 0.33	< 0.33
Geosmin	ng/L		< 3	< 3
Methane	L/m <sup>3</sup>		< 0.02	< 0.02
Microcystin-LR	ug/L	1.5	0.15	< 0.1
Monochlorobenzene	ug/L	80	< 0.3	< 0.3
m-Xylene	ug/L		< 0.43	< 0.43
N-Nitrosodimethylamine (NDMA)	ug/L	0.04	< 0.0008	< 0.0008
Organic Nitrogen	mg/L		0.16	< 0.05
o-Xylene	ug/L		< 0.17	< 0.17
Pentachlorophenol / PCP	ug/L	60	< 0.15	< 0.15
Polychlorinated Biphenyls / PCBs	ug/L		< 0.04	< 0.04
Tetrachloroethylene	ug/L	10	< 0.35	< 0.35
Toluene	ug/L	60	< 0.36	< 0.36
Total Kjeldahl Nitrogen / TKN	mg/L		0.16	< 0.05
Total Trihalomethanes / TTHM	ug/L	100	< 0.37	0.55
Total Xylenes	ug/L	90	< 0.43	< 0.43
Trichloroethylene	ug/L	5	< 0.44	< 0.44
Vinyl chloride	ug/L	2	< 0.17	< 0.17

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<b>PESTICIDES</b>				
2,4-Dichlorophenoxyacetic acid / 2,4-D	ug/L	100	< 0.19	< 0.19
Alachlor	ug/L		< 0.02	< 0.02
Aldicarb	ug/L	9	< 0.01	< 0.01
Aldrin + dieldrin	ug/L	0.7	< 0.01	< 0.01
Atrazine	ug/L		< 0.01	< 0.01
Atrazine + N-dealkylated metabolites	ug/L	5	< 0.01	< 0.01
Atrazine-desethyl	ug/L		< 0.01	< 0.01
Azinophos-methyl	ug/L	20	< 0.05	< 0.05
Bendiocarb	ug/L	40	< 0.01	< 0.01
Bromoxynil	ug/L	5	< 0.33	< 0.33
Carbaryl	ug/L	90	< 0.05	< 0.05
Carbofuran	ug/L	90	< 0.01	< 0.01
Chlordane	ug/L		< 0.02	< 0.02
Chlorpyrifos	ug/L	90	< 0.02	< 0.02
Cyanazine	ug/L	10	< 0.03	< 0.03
Diazinon	ug/L	20	< 0.02	< 0.02
Dicamba	ug/L	120	< 0.20	< 0.20
Diclofop-methyl	ug/L	9	< 0.40	< 0.40
Dimethoate	ug/L	20	< 0.03	< 0.03
Dinoseb	ug/L	10	< 0.36	< 0.36
Diquat	ug/L	70	< 5	< 5
Diuron	ug/L	150	< 0.03	< 0.03
Glyphosate	ug/L	0.28	< 1	< 1
Heptachlor	ug/L		< 0.01	< 0.01
Heptachlor & heptachlor epoxide	ug/L		< 0.01	< 0.01
Malathion	ug/L	190	< 0.02	< 0.02
MCPA	ug/L	100	< 0.00012	< 0.00012
Methoxychlor	ug/L	900	< 0.01	< 0.01
Metolachlor	ug/L	50	< 0.01	< 0.01
Metribuzin	ug/L	80	< 0.02	< 0.02
Paraquat	ug/L	10	< 5	< 5
Parathion	ug/L	50	< 0.02	< 0.02
Phorate	ug/L	2	< 0.01	< 0.01
Picloram	ug/L	190	< 1	< 1
Prometryn	ug/L		< 0.03	< 0.03
Simazine	ug/L	10	< 0.01	< 0.01
Temephos	ug/L		< 0.01	< 0.01
Terbufos	ug/L	1	< 0.01	< 0.01
Triallate	ug/L		< 0.01	< 0.01
Trifluralin	ug/L	45	< 0.02	< 0.02

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Parameter	Units	CDWQG MAC	Latimer Lake	Southbay Wellfield
Analysis date			10/10/2018	10/10/2018
<b>RADIOLOGICAL</b>				
Gross Alpha	Bq/L	0.5	< 0.10	0.28
Gross Beta	Bq/L	1.0	< 0.10	0.19
Tritium	Bq/L	7000	< 100	< 100
<b>DIOXINS &amp; FURANS</b>				
2,3,7,8-TCDD	pg/L		< 1	< 1
1,2,3,7,8-Pentachlorodioxin	pg/L		< 1	< 1
1,2,3,4,7,8-Hexachlorodioxin	pg/L		< 1	< 1
1,2,3,6,7,8-Hexachlorodioxin	pg/L		< 1	< 1
1,2,3,7,8,9-Hexachlorodioxin	pg/L		< 1	< 1
1,2,3,4,6,7,8-Heptachlorodioxin	pg/L		< 1	< 1
2,3,7,8-TCDF	pg/L		< 1	< 1
1,2,3,7,8-Pentachlorofuran	pg/L		< 1	< 1
2,3,4,7,8-Pentachlorofuran	pg/L		< 1	< 1
1,2,3,4,7,8-Hexachlorofuran	pg/L		< 1	< 1
1,3,4,6,7,8-Hexachlorofuran	pg/L		< 1	< 1
2,3,4,6,7,8-Hexachlorofuran	pg/L		< 1	< 1
1,2,3,7,8,9-Hexachlorofuran	pg/L		< 1	< 1
1,2,3,4,6,7,8-Heptachlorofuran	pg/L		< 1	< 1
1,2,3,4,7,8,9-Heptachlorofuran	pg/L		< 1	< 1

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