

MY CITY



MY WATER



**City of White Rock
2018 Annual Water Report**

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Introduction

The City of White Rock is a unique, ocean-side community of nearly 20,000 citizens known for its sunny weather, expansive beach, historic pier, delightful restaurants, and sense of community. The City is located half an hour south of Vancouver on the shore of Semiahmoo Bay.

The City of White Rock's Water Services provide safe and clean drinking water to its residents. The Engineering and Municipal Operations Department is responsible for the maintenance, repair and upgrades of the water supply and distribution system.

The Conditions of Permit are as follows:

1. The drinking water that you provide must be treated to provide an acceptable secondary disinfectant to the whole system that meets the requirements of the Guidelines for Canadian Drinking Water Quality and is acceptable to Fraser Health Authority. Reports on the levels of disinfectant in the system are to be provided to Fraser Health on a weekly basis.
2. Should arsenic levels exceed the Guidelines for Canadian Drinking Water Quality, the City must start operating a treatment system on or before December 31, 2018 to lower the arsenic level below the Guideline limit and to as low as reasonably achievable. Treatment requirements will be based on the results of the "Sampling and Reporting Protocol for the City of White Rock Water System," October 29, 2015
3. Should the Guidelines for Canadian Drinking Water Quality deem manganese a health criteria, a treatment system must be operational one year after the date of the changes to the Guideline Limits.
4. A written update on the status of the City's plan to meet these conditions to Fraser Health Authority by March 31 of each calendar year.

The City is required to provide an annual report to provide information such as explanation of water source, water test results, maintenance programs and improvements to the water system. The following document summarizes these requirements.

Overview: Water Quality Milestones

2018 was the City of White Rock's third full year of operating the water utility. Since acquiring the water utility less than four years ago, the City has accomplished some substantial milestones, all of which reflect our commitment to delivering safe and clean drinking water to our residents. While our water meets Canadian Drinking Water Guidelines, we are always striving to improve water quality beyond what is mandated, enhance the reliability and resiliency of our water infrastructure, and plan for our future.

Stay up to date with water related initiatives in White Rock at www.whiterockcity.ca/mywater

Source Water

Drinking water is obtained from the Sunnyside Uplands Aquifer, and distributed through seven wells located throughout the City.

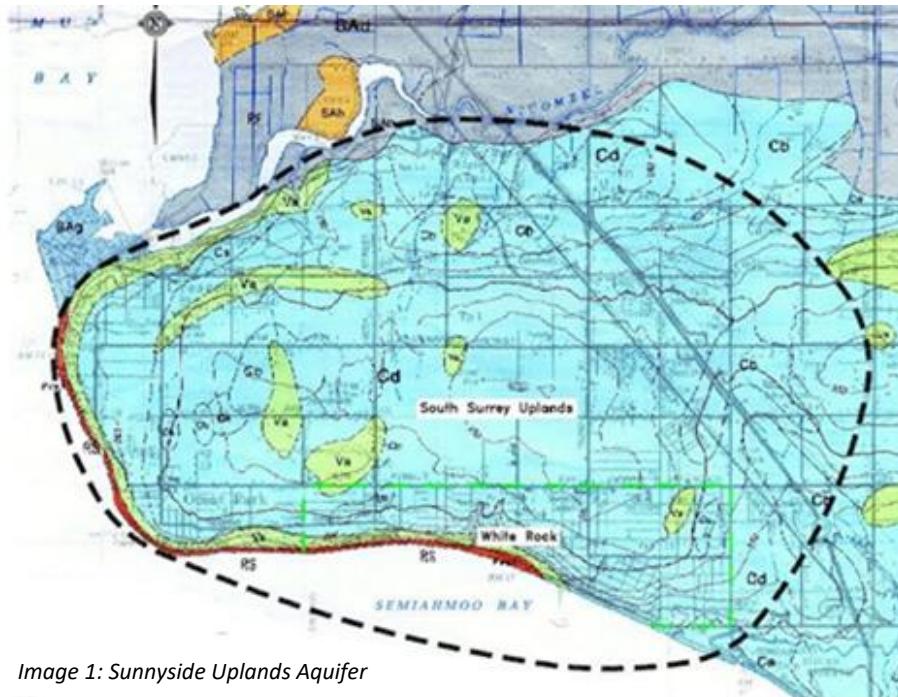


Image 1: Sunnyside Uplands Aquifer

Well Locations in White Rock

The wells range in depth from 60 meters to 150 meters and can provide a combined supply of approximately 15 ML per day. These wells provide an adequate water supply for the community even at peak consumption during the summer months, when consumption can typically rise to 10 ML per day. Wells 1, 2, 3, and 8 are located at the Oxford Site. Well 4 is a seasonal well utilized during the months of June, July and August and is located at High Street, Wells 6 and 7 are located at the Merklin Site. Well 5 was taken out of service on February 16th 2017.

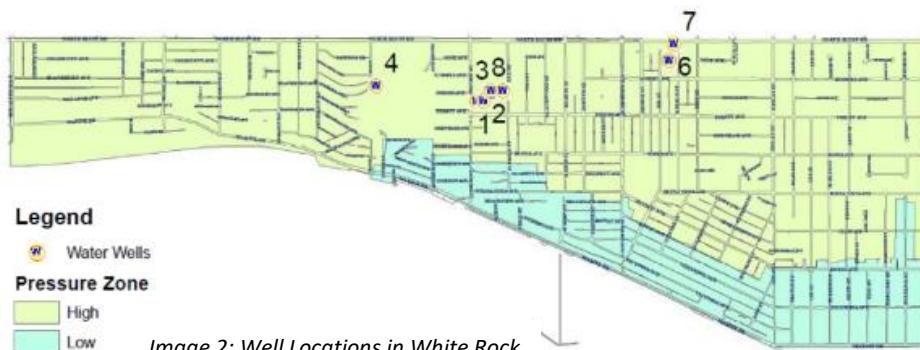


Image 2: Well Locations in White Rock

Well #8

The City of White Rock contracted Piteau Associates to conduct a hydrogeological assessment of aquifer conditions and well performance to identify a location for a new well. This study evaluated potential well sites and concluded that the eastern portion of the City's property at 1444 Oxford Street was a suitable site for a new production well.

The new well, Well 8, is located near the intersection of Overall Street and Goggs Avenue. Wells 1, 2, and 3 are located on this same property, respectively 165, 140, and 95 m to the west of Well 8. Wells 2 and 3 are operated intermittently at instantaneous flow rates of about 25 and 29 L/s. Well 1 is operated at about 24 L/s, only when required to meet demand with wells 2 and 3 operating at capacity. Using hydraulic parameters estimated from pumping test data for Well 7 (which draws water from the same aquifer), Piteau's 2016 assessment estimated interference drawdowns that could occur when a new well at the Well 8 location is pumped at a rate of 31 L/s. Drawdowns of 0.8, 0.8, and 1.2 m were estimated for Wells 1, 2, and 3, respectively. Well #8 was set to provide flow of 25.3 L/s.

Well 8, and other production wells operated by the City, extract groundwater from the White Rock/Sunnyside Uplands Aquifer.

The potential for groundwater from Well 8 to be at risk of containing pathogens has been assessed using the BC Ministry of Health's "Guidance Document for Determining Ground Water at Risk of Containing Pathogens (GARP)" (BC Ministry of Health, 2015). These guidelines specify that water supply system wells should be considered potentially at risk of containing pathogens if they have:

- a) An intake depth less than 15 m below ground level that is located within the natural boundary of surface water or a flood prone area;
- b) An intake depth between the high water mark and surface water bottom;
- c) If information is not available on surface water depth, 15m below the normal water level, and located within; and
- d) Less than 150 m outside the natural boundary of any surface water.

Since none of the conditions are met, in accordance with these criteria, the potential for groundwater from well #8 to yield groundwater that is at risk of containing pathogens is low.

Field measurements of pH, turbidity and temperature recorded during the constant-rate test are listed in *Table II* (See Appendix B). The chemistry trends were generally stable during the 24-hour test.

With the exception of manganese, concentrations of all constituents tested were below Maximum Allowable Concentrations (MACs) and Aesthetic Objectives (AOs) in the Guidelines for Canadian Drinking Water Quality (GCDWQ; Health Canada, 2014). Total and dissolved manganese concentrations were 0.173 and 0.174 mg/L, respectively. Both concentrations exceed the AO of 0.05 mg/L. The total arsenic concentration of 0.0071 mg/L is below the GCDWQ MAC of 0.01 mg/L.

These water quality results are generally consistent with the results of previous water quality testing with Well 3 (2016 Water Annual Report), Well 6 (Piteau, 2010) and Well 7 (Piteau, 2012).

Well #8 was put in service in July 2018.

Total Water Quality Management Project (TWQMP)

The Total Water Quality Management Project (TWQMP) is necessary to treat the water supply and upgrade critical infrastructure in the White Rock water system so that customers consistently and reliably receive high quality drinking water that meets both the Fraser Health's water quality requirements and Health Canada's guidelines for Canadian Drinking Water Quality.

The scope of the TWQMP entails water system upgrades including:

- disinfection
- infrastructure renewal
- storage capacity upgrades
- a modest level of system expansion for future growth

The project was split into two phases:

- Phase 1: Oxford Street site, which was completed in February of 2016, included upgraded facilities, the addition of a reservoir which previously did not exist, and installation of remote monitoring and control of the water system. The upgrade allows the City to comply with Fraser Health's mandate to treat the City's water supply through secondary disinfection.
- Phase 2: Merklin Pumping Station Facility was completed in April 2017. The City has removed the high tower and added a new reservoir to increase the water storage capacity for the city by 1.04 million liters. The increased capacity and seismic upgrades completed at this site provides an increased factor of safety for our water infrastructure.

Water Quality and Quality Assurance

The Guidelines for Canadian Drinking Water Quality (GCDWQ) set the maximum acceptable concentrations of microbial, radiological and chemical contaminants in drinking water. They also address the aesthetic water quality considerations regarding colour and taste. These guidelines are the basis for the work the City does to ensure the best quality drinking water for the community. City staff conducts ongoing water quality sampling and testing to ensure the high quality of the water.

Different water quality parameters are tested throughout the City. These include:

- Daily residual testing
 - Total chlorine, free chlorine, monochloramine, ammonia
- Weekly laboratory testing
 - Microbiological testing for Total Coliforms and Escherichia Coli
 - In-house testing for conductivity, pH, turbidity, free chlorine, total chlorine and temperature
- Monthly laboratory testing
 - Metal testing for naturally occurring arsenic and manganese at the Merklin Site only (Wells 6 and 7)

- Distribution metals (arsenic, copper, lead, iron, manganese, colour)
- Quarterly laboratory testing
 - Metal testing for arsenic, copper, lead, iron and manganese
 - Testing for Trihalomethane (THM) and Haloacetic Acids (HAA)
- Yearly laboratory testing
 - Inorganics including: antimony, arsenic, barium, boron, bromate, cadmium, chromium, cyanide, fluoride, lead, mercury, nitrate, nitrite, selenium, uranium, aluminum, ammonia, calcium, chloride, copper, hardness, iron, magnesium, silver, sodium, sulphate, sulphide, organic carbon, zinc.

All outside laboratory testing is carried out by accredited B.C. Laboratories (Element (formerly EXOVA) and BCCDC lab). The laboratory results are provided weekly to the City. Once the laboratory results are received by the City, they are reviewed and all of the test results uploaded to the City of White Rock website for public viewing. If there are unacceptable results, the City will notify Fraser Health; depending on the significance of the parameter of concern there are several actions the City may take from flushing the water mains to possibly issuing a “boil water” advisory or “do not use water” advisory. Public notices would be communicated through various media outlets and the City’s website.

The water quality sampling and testing provides a good depiction of water quality within the City’s mains. However, the sampling and testing does not provide a definitive picture of the drinking water quality within buildings, where water quality can change significantly due to pipe materials, standing times, temperature, and lack of required maintenance by STRATA and residents.

Other steps that are critical in maintaining water quality include:

- Cross Connection Control
Cross connection control addresses real or potential connections between the drinking water supply and any source of contaminant. For instance, improper plumbing or irrigation systems on private property can contaminate the public drinking water supply. The City has teamed up with BSI Online to implement an online registration, tracking and notification of out of compliance back flow devices (Bylaw 2117-Water Services Bylaw Consolidated December 2017).
- Backflow Prevention and Testing Program
The City has contracted BSI Online to maintain all backflow testing submissions and newly installed or previously unregistered backflow prevention devices. Testing will have to be completed by an individual who is certified by the British Columbia Water and Waste Association (BCWWA) and following the requirements in the City’s Bylaw 2117 (Bylaw 2117-Water Services Bylaw Consolidated December 2017).

Water Quality Testing

The City has been consolidating all the testing data from January to December 2018. This data is included in Appendix A: City of White Rock Water Quality Testing for 2018 – Raw Data. In addition, testing data is updated regularly on the City of White Rock’s website: <http://www.whiterockcity.ca/300/Water-Quality>

The City performed 108 sampling collections for total coliform and e-coli tests and 90 non-routine tests, all results were under the maximum allowable concentration (MAC) for the year of 2018.

The City conducted 1641 individual tests for arsenic, copper, iron, lead and manganese throughout 2018 for routine sampling and Oxford and Merklin sampling.

The City conducted 240 individual tests for Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform, Total THMs, Dibromofluoromethane, Toluene-d8, Bromofluorobenzene, Monochloroacetic Acid, Monobromoacetic Acid, Dichloroacetic Acid, Bromochloroacetic Acid, Dibromoacetic Acid, Trichloroacetic Acid and Total HAA6 throughout 2018.

Every year the City performs 644 individual tests for organic carbon, ammonia, aluminum, antimony, arsenic, barium, boron, cadmium, chromium, copper, lead, selenium, uranium, vanadium, zinc, mercury, colour, turbidity, pH, electrical conductivity, calcium, iron, magnesium, manganese, potassium, silicon, sodium, t-alkalinity, chloride, fluoride, nitrate, nitrite, sulfate, hardness, and the total dissolved solids.

The City also recommends to residents anytime the water in a particular faucet has not been used, to flush the cold-water pipes by running the water until you notice a change in temperature. This could take a short time if there has been recent heavy water use such as showering or toilet flushing. The more time water has been sitting in your home's pipes, the more manganese it may contain.

Conserving water is still important. Rather than just running the water down the drain, residents could use the water for their plants, garden, or lawn.

Water Distribution System

The utility serves a population of approximately 20,000 people. White Rock also supplies water to approximately 84 neighbouring properties in the Surrey and Semiahmoo First Nation. City staff performed one full set of uni-directional flushing in 2018 (October-November). Uni-directional flushing involves closing valves to increase the velocity of the water through the mains and flushing any sediment through an open fire hydrant.



Image 3: Water Distribution System

Water Consumption

Water consumption patterns are tracked to ensure that the White Rock system continues to provide sufficient water services to customers. Annual, monthly water consumptions and the highest daily consumption (peak day) are discussed below.

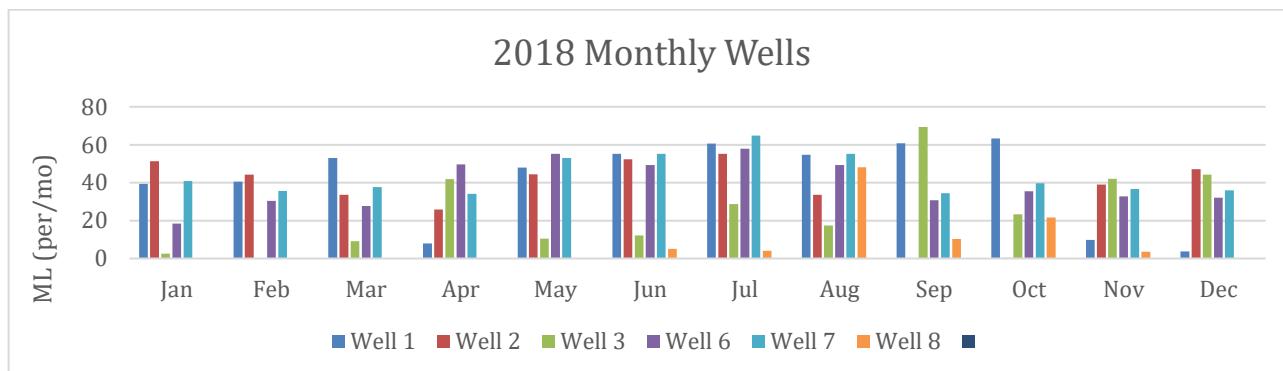
Annual Water Consumption

| Total Annual Water Consumption | | |
|--------------------------------|--------|--------|
| Year | 2018 | 2017 |
| (ML)* | 2225.7 | 2171.0 |
| Average Daily Consumption | 6.10 | 5.95 |

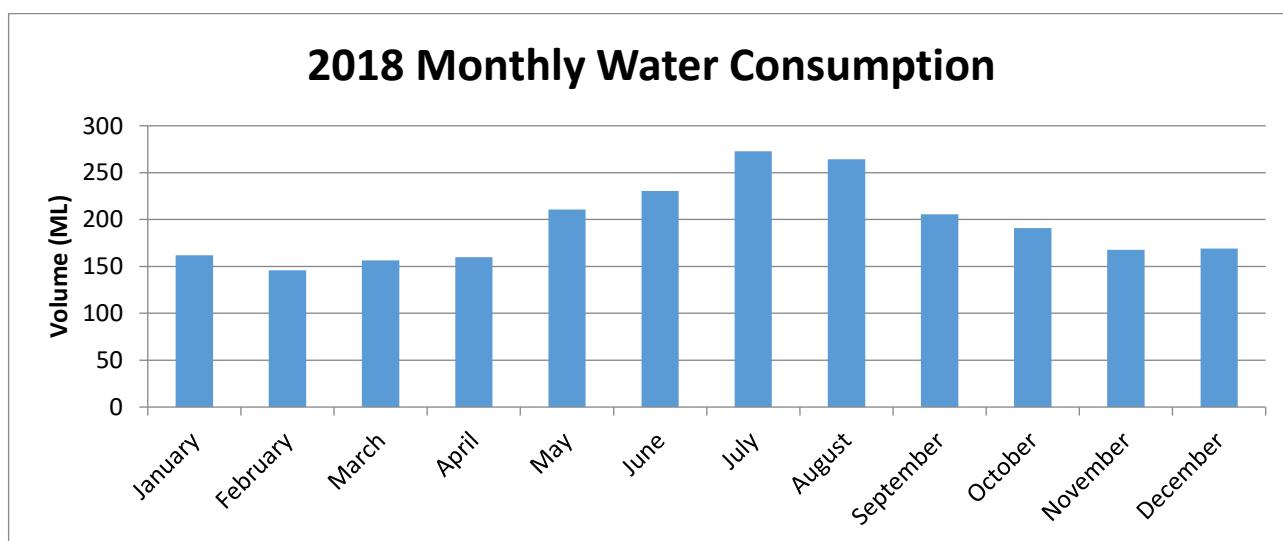
* Million Liters

Table 1: Total Annual Water Consumption

Monthly Water Consumption



Graph 1: 2018 Monthly Water Consumption/Well



Graph 2: 2018 Total Water Monthly Consumption

Peak Day Consumption

The record of peak demand enables us to design water system resources to meet all customer needs, including firefighting and high use periods.

Peak Day Water Consumption

The peak day in 2018 was on July 29

| Peak Day Water Consumption | | |
|----------------------------|---------|-------------|
| Year | 2018 | 2017 |
| Day | July 29 | September 4 |
| (ML) | 9.79 | 9.35 |

Table 2: Peak Day Water Consumption

Capacity

The storage requirements for forecasted demands are as shown in the following table. It is noted that the 16% value for balancing storage is based on past studies estimating the specific balancing requirement needs for the City of White Rock's system (Kerr Wood Leidal, 2010).

The available storage capacity is based on tank volumes provided by Stantec (Stantec, 2017).

| | |
|-----------------------------------|--------------------------------------|
| Required Balancing Storage: | 12.4 MLD (144 L/s) x 16% = 1.99 ML |
| Required Fire Storage: | 212 L/s for 2.6 hours = 1.98 ML |
| Required Emergency Storage: | 25% of above storage = 0.99 ML |
| Total Required | = 4.96 ML |
| Available Storage: | Merklin Reservoirs = 3.01 ML |
| | Oxford Reservoir = 1.95 ML |
| | Roper Reservoir (Low Zone) = 1.14 ML |
| Total Available | = 6.10 ML |
| Excess Available for Pump Cycling | = 1.14 ML |

Table 3: Balancing Storage Required Versus Available

Based on the assessment, adequate balancing storage is provided by the current system for the forecast future demands.

Maintenance Programs

Maintenance and day-to-day water operations for the 77 km of pipes, 7 wells and 340 hydrants are performed by City staff in the Engineering and Municipal Operations Department. The water distribution operators are licensed with the Environmental Operators Certification Program (EOCP). Other services include:

The City has an ongoing preventative maintenance program that includes:

- Valve exercising
- Hydrant inspection and servicing
- Flushing of water mains

Other services include:

- Operation and maintenance of the pumping station
- Installation of water services
- Water infrastructure repairs and maintenance
- Water quality sampling and testing

In 2018 there were a total of 6 water main breaks throughout the City; the majority of the broken pipes (4) were cast iron, 2 were ductile iron. This is down from 2017 where the City experienced a total of 7 water main breaks. Most of the breaks occurred in cast iron pipes, and the cause of breaks was mainly corrosion, and shear break.

Pressure Monitoring System

Pressure is one of the primary optimization parameters for the delivery of safe drinking water. The loss of pressure can potentially allow outside water sources to contaminate the distribution system. Fluctuations in pressure can affect the physical integrity of pipes. Pressure surges are known to generate an increase in leaks, and water main breaks, which affects the service life of the water system. The use of pressure sensors provides a proper assessment process for the integrity of the water system.

In March of 2018, the City hired Eramosa to design and install a remote pressure monitoring system that was deployed in the water distribution system where communication networks were available. The system contains sensors located in both the high and low pressure areas that transmit readings to a secure web server. These readings tie into our current SCADA system, which allows our operators to receive real-time information on water pressure.

Water Main Replacement

Four (4) water main segments were approved within the 2018 asset improvement budget to be upgraded during the year. Three (3) of these water main segments were scheduled for replacement in the 2017 capital construction program and the construction of the 4th water main was deferred to 2018, pending approval of the 2018 to 2022 Financial Plan.

The five (5) water main upgrades included in the 2018 budget are as follows:

- Marine Drive – Vidal to Martin (deferred from 2017 pending completion of the Memorial Park Project)
- Marine Drive – Bergstrom to Nichol

- Saturna Drive & Archibald Road
- Magdalen Crescent – Marine to Sunset
- Goggs Avenue – Oxford to Everall

These projects were grouped together to achieve economic advantage compared to tendering each project individually. This will best utilize staff and contract resources and reduce the cost to complete the works.

The work included replacement of cast iron pipe with PVC pipe and installation of cathodic protection for the fittings, which has not been included in previous Water Utility works. PVC pipe will not be impacted by corrosion, and the implementation of cathodic protection will reduce corrosion of the metal valves and fittings. The combination of these two will extend the life of the infrastructure by reducing corrosion.



The Saturna Drive project was deferred from 2017 due to scheduling issues. Work along Marine Drive - Vidal to Martin - will be coordinated with the Memorial Park reconstruction project.

Fencing

Municipal and private water systems facilities security measures throughout Canada are being elevated to reduce the potential for vandalism or other activities that could impact water quality or water supply to the public.

The Oxford Pumping Station, Merklin Pumping Station, Roper Reservoir, and Well #4 at High Street are facilities that needed to have additional security measures implemented to mitigate the potential for damage.

As part of the City's commitment to water security, the City's Water Department started fencing of the reservoir and pumping stations. At the present time, the Merklin Pumping Station and Reservoir, Roper Reservoir and the High Street Well #4 have been fenced.

The Oxford Pumping Station and the new Water Treatment Plant which is being constructed next to the Oxford Pumping Station will be fenced by the completion of the Design Build project for the Water Treatment Plant.



Unidirectional Flushing Program

Flushing is one of the most powerful tools available to water utilities for addressing distribution system deficiencies and maintenance. Unidirectional flushing (UDF) is designed to bring water through the system in a controlled fashion at velocities sufficient to provide a scouring action within the distribution piping. UDF is being utilized by a growing number of utilities as a cost-effective way of improving and preserving water quality in the distribution system.



The City of White Rock established a Unidirectional Flushing Program once a year to reduce the impact of layers of manganese deposited for decades in the distribution system.

Residents were notified during water main flushing and informed that they may experience a temporary discolouration of water while the water main was being flushed. They were also informed that any disruption experienced, would be short-lived.

Advance notification of flushing work to affected areas were provided a week prior to the flushing taking place via letters delivered to local businesses and residents, along with signs being placed on the road side. Also, hospitals/clinics were notified to inform their home-based hemodialysis patients.

During flushing programs residents and businesses have water, however, they are advised not to open their tabs to avoid drawing sediments into their pipes.

In 2017, there was a significant improvement in the discharged water during the flushing program as the amount of sedimentation was less, shorter periods of flushing was required, and there was a decrease in the amount of water used compared to the previous flushing events.

Staff Training and How It Contributes to Water Quality Management

Training for Operators

Planning for future implementation of water treatment at the City of White Rock, and to make sure that the best utilization of existing human resources, the 4 Water Distribution Operators of the City of White Rock started to attend water treatment courses. Four operators attended the Water Treatment 1 course which is delivered by BCWWA and received the course certificate.

The course provides operators with the basic knowledge of water treatment plant components and treatment methods used with varying degrees of complexity. After completing the Water Treatment 1 class the operator be able to:

- Describe procedures associated with monitoring, evaluating and adjusting treatment processes
- Perform basic laboratory analysis procedures
- Describe the drinking water regulations and their impact to water treatment
- Describe the practical aspects of plant operations and perform basic operational and maintenance procedures on equipment
- Perform safety, security and administrative procedures
- Certifications and exams are administered by the Environmental Operators Certification Program (EOCP).

Specialized training programs will be provided in 2018 and beyond, such as Ozone for Drinking Water Treatment, which is delivered by Engineers and Geoscientists British Columbia (formerly Association of Professional Engineers and Geoscientists of British Columbia). The course was delivered twice (April and November, 2018) in Vancouver, by Dr. Saad Jasim P.Eng., Manager, Utilities, City of White Rock, and President Elect International Ozone Association. The course will enhance participant's knowledge in the application of Ozone for drinking water treatment. The course included case studies to evaluate of the effectiveness of the ozone technology to improve water quality, dealing with new challenges and to improve water treatment processes.

Unprecedented Communication and Public Engagement

Since acquiring the water utility from EPCOR in October of 2015, the City of White Rock has provided unprecedented information to the public on the state of the City's water, including steps the City must take as mandated by Health Canada and the Fraser Health, i.e. providing a secondary disinfection throughout the entire system, as well as important capital infrastructure work. This information is readily available on the City's website under the [My Water](#) page, which includes links to various projects and initiatives so the public is aware of the action the City has taken, or is taking, to address and improve the water quality and communicating with the public:

- [City Water Projects](#) – Where the public can find information on capital projects related to water as part of the City's Total Water Quality Management Project.
- [Event Materials](#) – Contains the material from the number of Water Quality Open Houses, community forums and public information meetings.
- [Historic Funding Announcement](#) – the City received nearly \$12 million dollars in government grant funds to help improve the City's water quality through the construction of treatment processes, set to be completed by March 2019.
- [Water Quality](#) – Where public can find monthly water quality test results from the time the City acquired the water utility from EPCOR, who did not provide such information.
- [Water Research](#) - to ensure the City implements the right technology to reach its water quality goals, it partnered with RES'EAU-WaterNET. This is where the public can learn about the partnership and the research being done.
- [Flushing Program](#) – informs the public of the flushing program, when City Staff would be flushing, and what to do and not to do when flushing is taking place in their area. Our staff also hand deliver notices to residents in the area a few days prior to the flushing starting in their area.

The City also developed [FAQ pages related to water](#) and [secondary disinfection](#) that further ensures the public is aware of the steps the City is taking to address water quality matters.

The City also provides updates to Council and the public on the statues of the City's water quality and infrastructure through Corporate Reports that are published on the City's website. The Regular Council Meetings are also live streamed so any member of the public who is not able to attend a meeting can either watch the meeting live or the recording at a later date.

This is all in addition to other methods we use to communicate with the public about the City's water related projects and initiatives.

BCIT Environmental Health Program Visit

25 Student accompanied by a Faculty member from the BCIT Environmental Health program, visited the City of White Rock on May 15, 2018. The program provide education and training to the student to graduate as a health inspector and an environmental public health professional.

Dr. Jasim, Manager, Utilities, delivered a presentation to the students at the Council Chambers followed by a tour at the Merklin Pumping Station.



Image 7 – Dr. Jasim delivers a presentation to students from the BCIT Environmental Health at Council Chambers, May 2018

Open Houses

The Water Department organized 3 Open Houses;

1. Water Research Open House

On January 25, 2018, the City of White Rock and the research group, RES'EAU WaterNET organized a “Water Research” Open House, at the White Rock Community Centre, 15154 Russell Avenue from 6 to 8 p.m. Attendants learned more about the research that RES'EAU WaterNET has conducted in White Rock. Their research has focused on finding the technology most suitable for our water and distribution system to reduce the levels of naturally occurring arsenic and manganese. The Open House also provided information on the Design-Build of the water treatment plant.



Image 8 – Water Research Open House

2. Water System Master Plan Open House

The City's Water System Master Plan Open House at the White Rock Community Centre, was organized on February 21, 2018. The Water System Master Plan, approved by City Council in November of 2017. The Water System Master Plan is an all-encompassing comprehensive guide to addressing the City's water system needs to the year 2045.



3. Aquifer Protection Plan Open House

The City of White Rock held an open house to discuss the city-commissioned Aquifer Protection Plan on Wednesday, Sept. 26 at White Rock Community Centre, White Rock. The plan, which assesses future water quality and quantity needs for White Rock, also includes strategies for protecting the community's water supply source from potential contaminants, including urban development, commercial, industrial and agricultural activity and saltwater intrusion, and also the effects of population growth, climate change and sea-level rise.



Celebration Event for a Significant Mile Stone for Water Quality Enhancements

The City of White Rock celebrated on September 20, 2018 a milestone event with representatives from the Government of Canada and Government of British Columbia in regards to the construction progress of the City's Water Treatment Plant, funded through the Clean Water & Wastewater Fund (CWWF).

The City's Water Treatment Plant project would not have been possible without the vision of the Government of Canada and Government of British Columbia who created the CWWF as they understand that building and maintaining high-quality water and infrastructure are an essential part of livable communities. Their commitment to partnering with small communities is a testament to their dedication of ensuring that local governments are able to deliver the public infrastructure needed in their respective communities.



Image 11 – Water Treatment Plant Milestone Event, September

Conferences, Seminars

Presentations to national and international Conferences delivered about the progressive steps taken to improve the water system in the City of White Rock:

1. Water Quality Technology Conference (WQTC), AWWA, Toronto, ON, November 11-15, 2018.
2. 2018 Ontario Water Conference and Exhibition, Niagara Falls, ON, May 1-3, 2018.
3. BCWWA Conference, Penticton, BC, May 15-17, 2018. (2 Presentations)
4. Dr. Jasim delivers presentations annually on UN World Water Day to the Rotary Clubs in White Rock.



Image 12 – Dr. Jasim presenting at the 2018 Ontario Water Conference and Exhibition

Dr. Jasim introduced a new course in British Columbia, “Ozone for Drinking Water Treatment” in collaboration with Engineers and Geoscientists British Columbia. All the Water Operators of the City of White Rock, in addition to other outside participants attended the courses in Vancouver, BC.

The course will enhance participant’s knowledge in the application of Ozone for drinking water treatment. To evaluate of the effectiveness of the ozone technology to improve water quality, dealing with new challenges and to improve water treatment processes. The course is certified by the Ontario Ministry of Environment and the Environmental Operators Certification Program (EOCP) in British Columbia.

Aquifer Protection Plan

Advisian (part of Worley Parsons Group) was retained by the City of White Rock (CoWR) to prepare an Aquifer Protection Plan (Plan) for the White Rock water supply system. The White Rock water supply system is located within the CoWR, British Columbia. It services a residential population of approximately 20,000 within a 600 hectare service area that includes the CoWR as well as Semiahmoo First Nation and a small portion of the City of Surrey.

The Sunnyside Aquifer is an important natural resource that is used as the water supply source for the CoWR. Population growth, climate change, sea level rise, and other users of the aquifer (e.g. future groundwater use by the City of Surrey) may put increasing pressure on the water supply system. This Plan has been developed as a key component in protecting the community’s water supply source. Groundwater protection goals includes stakeholder engagement, advancing the understanding of aquifer characteristics, protecting groundwater quality from contamination, and ensuring future withdrawals sustainably meet future demands.

Key outcomes of the Plan include development of a numerical groundwater model that has been used to delineate the well protection area and to simulate three future scenarios to inform future groundwater management. The report is available on the City of White Rock website.

RES'EAU-WaterNET

The City of White Rock partnered with RES'AU-WaterNET, a research program funded by NSERC's Strategic Partnership Grants for Networks and hosted by the University of British Columbia, to assess a number of water treatment processes and determine the extent to which they can reduce the arsenic and manganese from the City's water supply. This is to ensure the City implements the right technology to reach its water quality goals.

The final report was submitted in 2017 and a copy of the report was provided for the selected Contractors/Consultants short listed for the RFP. A copy of the full report is available on the [City of White Rock website](#). The research finding played a major role in the design of the new water treatment plant in the City of White Rock.

Arsenic and Manganese Treatment Facility

The Fraser Health Authority (FHA) advised the private company operating the White Rock Water System that should arsenic and manganese levels move above Health Canada's Guideline for Drinking Water Quality (GCDWQ), or should the GCDWQ deem manganese a health criteria, a treatment system must be operational on or before December 31, 2018.



Image 13 – Signage for the Water Treatment Project

The Design of the Water Treatment Plant

The City was conducting a pilot scale study to evaluate the efficacy of the best technologies to provide useful information for the design and construction of a water treatment system for treating the water drawn from wells 1, 2, 3, 6, 7 and 8. Kerr Wood Leidal Associates (KWL) was retained to provide cost evaluations for three options for design and construction of water treatment plant(s).

The options are as follows:

- Option 1 is based on one water treatment plant at the Oxford site;
- Option 2 is based on two water treatment plants, one at Merklin site and another at Oxford site; and

- Option 3 is one water treatment plant covering all the above referenced wells in addition to connecting existing well # 4 to the plant located at the Oxford site.

Water Treatment Objectives

The White Rock Water Treatment Plant is designed to treat the City's existing groundwater supplies to remove naturally occurring manganese and arsenic to ensure that an improved drinking water quality is supplied to the residents that meets the guidelines and aesthetic objectives. The plant is built next to the Oxford Pumping Station of the City of White Rock. The water treatment plant process is multi-stage and includes the following key treatment components:

- Pre-Oxidation with ozone for arsenic and manganese in the raw water supply.
- Removal of manganese using Greensand Plus media filters.
- Removal of arsenic using Bayoxide E33 media filters.

The treatment objectives of the White Rock WTP are to deliver drinking water meeting the following operational targets:

- Mn < 0.02 mg/L
- As < 0.002 mg/L (95% of time, 0.005 mg/L for 5% of operation)

All other water quality parameters shall meet the objectives of the Guidelines for Canadian Drinking Water Quality (GCDWQ).

Ozone Pre-oxidation

Research has shown that the application of ozone for water treatment processes can enhance the ability to remove many emerging contaminants and reduce disinfectant byproducts. Ozone, a strong oxidant, is very effective in the oxidation of organic and Inorganic compounds more effectively than chlorine.

Arsenic present in groundwater in As(III) form needs to be oxidized to As(V). To have an optimum removal of As(III) which is neutrally charged, it should be oxidized to As(V) which is negatively charged. The use of a strong oxidant is an important factor to achieve arsenic removal. Strong chemical oxidants oxidize As(III) very rapidly.

Manganese and Arsenic Removal

Knowledge of raw water quality is an important factor in the selection of the technology and processes to remove certain organic or inorganic compounds that might interfere in achieving the targeted effluent water quality. The City of White Rock's groundwater has elevated, naturally occurring arsenic and manganese. The research conducted by the City of White Rock and RES'EAU-WaterNet showed that the use of ozone as a pre-oxidant, followed by greensand and adsorption filter media for the removal of manganese and arsenic, respectively, is effective for groundwater sources like White Rock's water supply.

The Design Build Team (NAC/Associated Engineering) chose pre-oxidation with ozone followed by filtration using Greensand Plus media for manganese reduction, and AdEdge E33 adsorption media, for arsenic removal to achieve the low target levels required by the Design Objectives, following the research findings

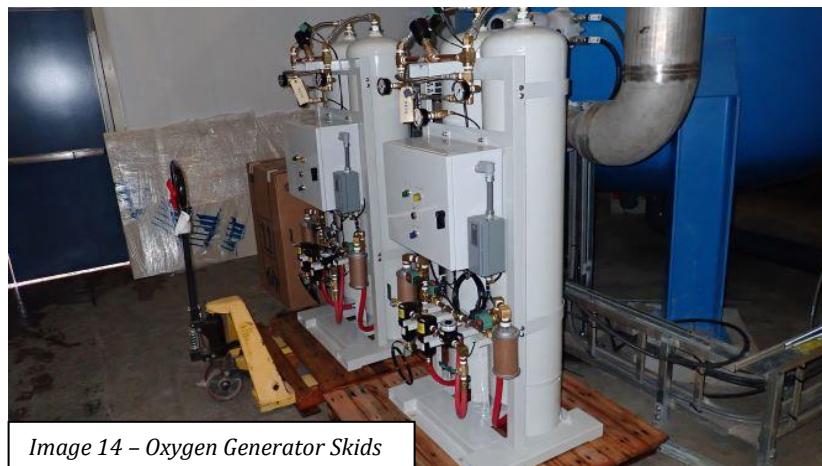
provided to them by the City of White Rock. The use of ozone for pre-oxidation of the arsenic and manganese prior to the two-stage process; filtration and adsorption process was included in the design due to the facts that:

- Many arsenic removal technologies are more effective at removing the pentavalent form of arsenic, arsenate, As(V) than arsenite, As(III).
- Therefore, many treatment systems include a pre-oxidation process to convert Arsenite, As(III) to Arsenate As(V).
- Ozone can achieve 100% oxidation of As(III) to As(V).
- Oxidation alone does not remove arsenic from solution, and must be coupled with a removal process such as adsorption
- The pilot scale experiments indicated that manganese removal was very effective using ozone followed by Greensand Plus

Ozone System

The ozone treatment process at the White Rock WTP is targeting the oxidation of Mn and As for downstream removal by filtration and adsorption. The system is designed to provide up to 1 mg/L of ozone dose for up to 15 MLD of water to treat. The design of the White Rock Water Treatment Plant includes a pre-oxidation with ozone injected via sidestream injection; the concentrated ozonated water is injected into the raw water through an in-line mixer to oxidize metals in raw water.

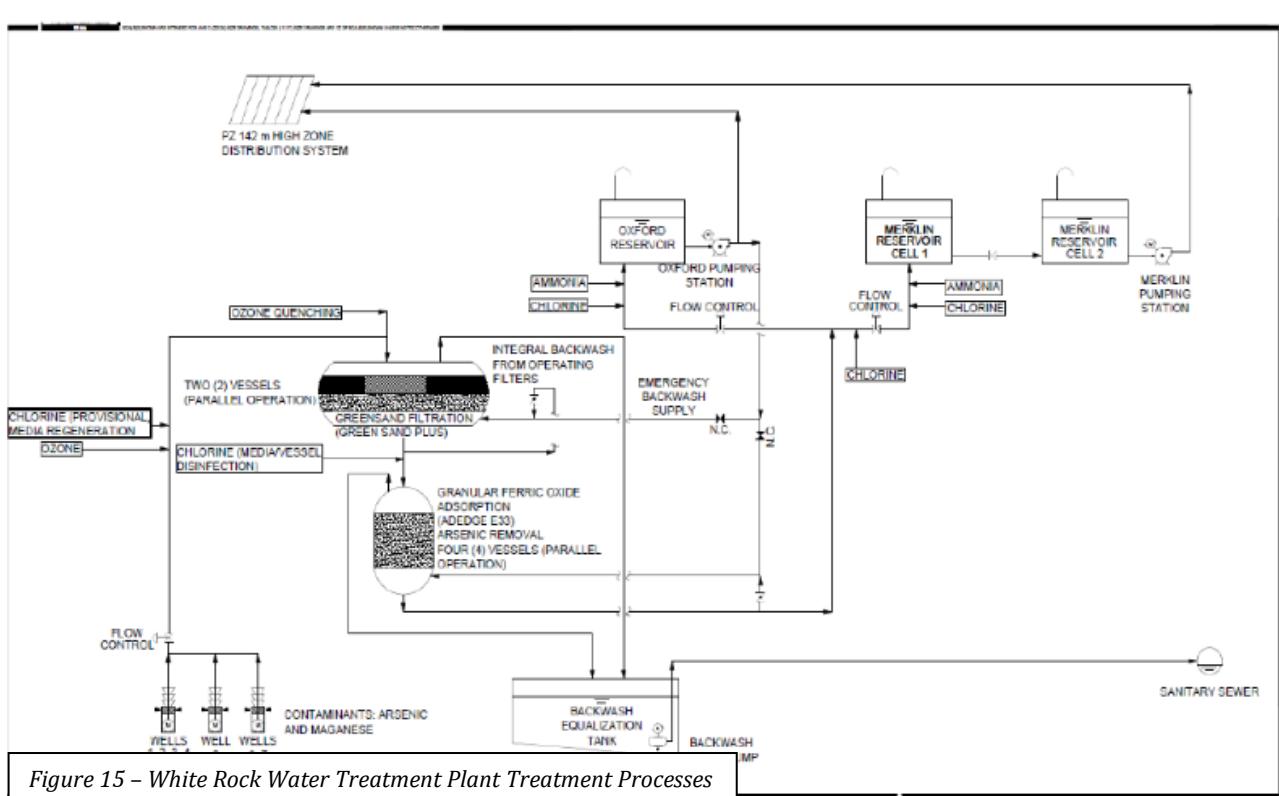
On-site generated ozone gas will be used to preoxidize the arsenic and manganese in the raw water. Ozone will convert the arsenite form As(III) to the arsenate form As(V). It will also convert Mn(II) to Mn(IV). Both oxidized forms are more readily removable in downstream filtration and adsorption processes. The ozone system includes two parallel trains of oxygen and ozone production with 100% redundancy inactive equipment, followed by two parallel trains of ozone injection system through the application of ozone into two side streams of water pumped from the mainstream line. Undissolved ozone is removed at the side stream level through centrifugal degassing and destroyed back to oxygen through two 100% redundant ozone destruct units.



Greensand Plus

Greensand Plus filter media was selected for removing manganese from groundwater supplies of the City of White Rock (Sunnyside Aquifer). Greensand Plus manganese dioxide coated surface acts as a catalyst in the oxidation-reduction reaction of manganese. The silica sand core of Greensand Plus allows it to withstand waters low concentrations in silica, TDS, and hardness without breakdown. Greensand Plus has the WQA Gold Seal Certification for compliance with NSF/ANSI 61. Two (2) pressure filter vessels will be operating in parallel mode, Figures (15-16).

The newly designed and built water treatment plant will utilize a Supervisory Control and Data Acquisition (SCADA) for the daily operation, control and data acquisition for all the water treatment processes. The existing SCADA for the two pumping stations (Oxford and Merklin) will be integrated into the water treatment



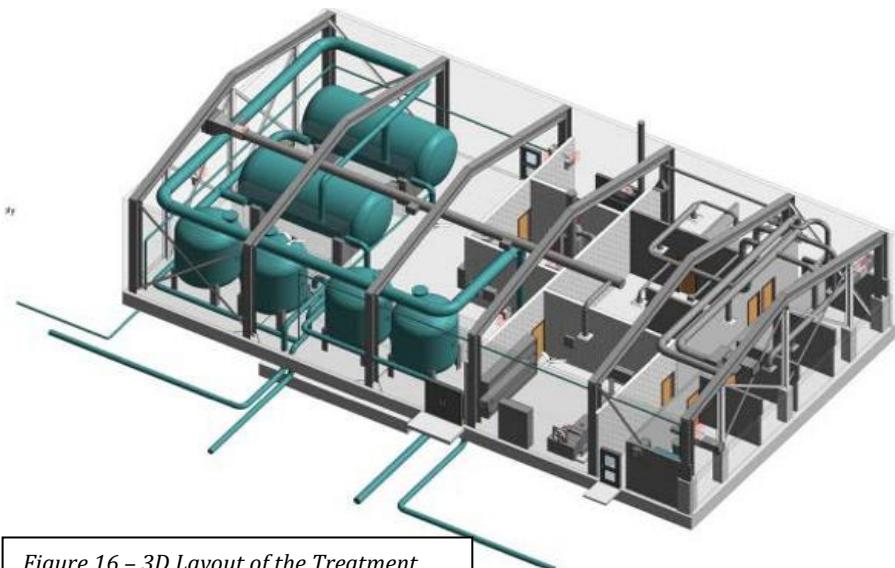


Figure 16 – 3D Layout of the Treatment



Image 17 – The Water Treatment Plant

Emergency Response Action Plan

The City has an emergency response plan in case the water supply is interrupted for any reason. There are procedures that City crews follow whether it is a major or minor problem. The Emergency Response Plan Action Plan follows five general steps:

1. Analyze the type and severity of the emergency;
2. Take any action needed to save lives;
3. Take action to reduce system damage and injuries and reduce environmental damage;
4. According to priority demand, make appropriate repairs, and
5. Return the system to normal operation.

The Emergency Response Plan was added in 2018 to the City of White Rock website

Next Steps for 2019

- Complete the Water Treatment Plant Construction
- Start operation of the Water Treatment Plant
- Complete the 2018 approved Capital Works projects
- Work on the 2019 Capital Works projects
- Maintain the improvement and upgrade for the water distribution system
- Provide the training for the Water Operators to have them update/upgrade their licenses
- Work with Communication Department to maintain updated information on the website
- Work with Communication Department to provide the public with updates on the water system

Summary

The City of White Rock has now owned the water utility for three full years. During 2018 City staff worked on engaging the community and explained steps taken to improve the City's water quality with the addition of a water treatment plant for the arsenic and manganese removal.

During the year of 2018, staff collected and sent 2078 samples for water quality testing.

The City completed the full implementation of secondary disinfection to the distribution system, meeting the requirements of the Permit to Operate by Fraser Health.

The City continues to monitor the levels of arsenic and manganese and will be informing the community in 2018 on the solutions to reduce the level of arsenic and manganese from the data provided by the joint study between the City of White Rock and RES'EAU-WaterNET.

Attachments

References

Tables – Table II – Summary of Water Quality Analyses Results

Appendix A – City of White Rock Water Quality Testing for 2018 – Raw Data

References

Kerr Wood Leidal Associates Ltd., Water System Master Plan Update, Final Report, December 2010.

Piteau Associates Engineering Ltd., 2010. Hydrogeologic Assessment for White Rock Groundwater Supply. Report to Kerr Wood Leidal Associates Ltd. And Epcor White Rock Water, December.

Piteau Associates Engineering Ltd., 2012. Production Well 7 Completion Report. Report to Kerr Wood Leidal Associates, June.

Stantec, *White Rock – Reservoir Volumes Memo*, August 2017

2016 Water Annual Report, www.whiterockcity.ca

Consolidated Bylaws\Bylaw 2117 - Water Services Bylaw Consolidated December 2017.

Appendix A

City of White Rock Water Quality Testing for 2018 – Raw Data

January to December 2018

Microbiological Results 2018

| Date | Microbiological Analysis MPN / 100mL | Guideline Limit | # of Samples | Pass | Fail | Guideline Comments |
|-----------------|---|-----------------|--------------|------|------|-----------------------|
| Jan 2 & Jan 3 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Jan 9 & Jan 10 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Jan 16 & Jan 17 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Jan 23 & Jan 24 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Jan 30 & Jan 31 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Feb 6 & Feb 7 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Feb 13 & Feb 14 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Feb 20 & Feb 21 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Feb 27 | Total Coliforms | 0 per 100 mL | 6 | 6 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 6 | 6 | 0 | Below MAC |
| Mar 6 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Mar 13 | Total Coliforms | 0 per 100 mL | 6 | 6 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 6 | 6 | 0 | Below MAC |
| Mar 14 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |

| Date | Microbiological Analysis MPN / 100mL | Guideline Limit | # of Samples | Pass | Fail | Guideline Comments |
|-----------------|---|-----------------|--------------|------|------|--------------------|
| | | | | | | |
| Mar 20 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Mar 27 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| Mar 28 | Total Coliforms | 0 per 100 mL | 6 | 6 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 6 | 6 | 0 | Below MAC |
| Apr 3 & Apr 4 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Apr 10 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Apr 17 & Apr 18 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Apr 24 & Apr 25 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| May 1 & May 2 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| May 8 & May 9 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| May 15 & May 16 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| May 22 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| May 29 & May 30 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| June 5 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |

| Date | Microbiological Analysis MPN / 100mL | Guideline Limit | # of Samples | Pass | Fail | Guideline Comments |
|-------------------|---|-----------------|--------------|------|------|--------------------|
| | | | | | | |
| June 12 & June 13 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| June 19 & June 20 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| June 26 | Total Coliforms | 0 per 100 mL | 8 | 8 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 8 | 8 | 0 | Below MAC |
| July 3 & July 4 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| July 10 & July 11 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| July 17 & July 18 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| July 24 | Total Coliforms | 0 per 100 mL | 9 | 9 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 9 | 9 | 0 | Below MAC |
| August 1 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| Aug 7 & Aug 8 | Total Coliforms | 0 per 100 mL | 12 | 12 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 12 | 12 | 0 | Below MAC |
| Aug 14 & Aug 15 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Aug 21 & Aug 22 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Aug 28 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| Sep 4 & Sep 5 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |

| Date | Microbiological Analysis MPN / 100mL | Guideline Limit | # of Samples | Pass | Fail | Guideline Comments |
|-----------------|---|-----------------|--------------|------|------|-------------------------|
| Sep 11 & Sep 12 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Sep 18 & Sep 19 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Sep 25 & Sep 26 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Oct 2 & Oct 3 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Oct 9 & Oct 10 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Oct 16 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Oct 23 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Oct 31 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Nov 13 | Total Coliforms | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 13 | 13 | 0 | Below MAC |
| Nov 20 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| Nov 27 & Nov 28 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Dec 4 & Dec 5 | Total Coliforms | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 14 | 14 | 0 | Below MAC |
| Dec 11 | Total Coliforms | 0 per 100 mL | 6 | 0 | 0 | Sample Expired - Retest |
| | Escherichia Coli | 0 per 100 mL | 6 | 0 | 0 | |

| Date | Microbiological Analysis MPN / 100mL | Guideline Limit | # of Samples | Pass | Fail | Guideline Comments |
|--------|---|-----------------|--------------|------|------|--------------------|
| Dec 12 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| Dec 17 | Total Coliforms | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 7 | 7 | 0 | Below MAC |
| Dec 19 | Total Coliforms | 0 per 100 mL | 10 | 10 | 0 | Below MAC |
| | Escherichia Coli | 0 per 100 mL | 10 | 10 | 0 | Below MAC |

Metal Results 2018

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese |
|--------------------------------|--------------|---------------|---------------|----------------|--------------|--------------|
| | | mg/L | mg/L | mg/L | mg/L | mg/L |
| Nominal Detection Limit | | 0.0001 | 0.0005 | 0.00001 | 0.004 | 0.001 |
| Guideline Limit | | 0.010 | 1.0 | 0.01 | 0.3 | 0.05 |
| Customer Concern #1 | 18-Jan-18 | 0.0068 | 0.0049 | 0.00012 | <0.004 | 0.065 |
| Well #1 | 18-Jan-18 | 0.0071 | 0.0056 | 0.00035 | <0.004 | 0.073 |
| Well #2 | 18-Jan-18 | 0.0049 | 0.0041 | <0.00001 | <0.004 | 0.004 |
| Well #3 | 18-Jan-18 | 0.0065 | 0.0005 | 0.00023 | 0.006 | 0.21 |
| Well #4 | 18-Jan-18 | 0.0027 | 0.0048 | 0.00239 | 0.085 | 0.21 |
| Well #6 | 18-Jan-18 | 0.0094 | <0.0005 | 0.00004 | <0.004 | 0.15 |
| Well #7 | 18-Jan-18 | 0.0085 | <0.0005 | 0.00114 | <0.004 | 0.12 |
| Well #8 | 18-Jan-18 | 0.0069 | <0.0005 | 0.00003 | 0.005 | 0.18 |
| Well #6 | 28-Feb-18 | 0.0089 | | | | |
| Well #7 | 28-Feb-18 | 0.00998 | | | | |
| Well #6 | 28-Mar-18 | 0.0089 | | | | |
| Well #7 | 28-Mar-18 | 0.0082 | | | | |
| Well #6 | 25-Apr-18 | 0.0097 | | | | |
| Well #7 | 25-Apr-18 | 0.0092 | | | | |
| Customer Concern #2 | 15-May-18 | 0.0056 | 0.0102 | 0.00006 | 0.006 | 0.031 |
| Well #1 | 31-May-18 | 0.0071 | 0.0036 | 0.00010 | <0.004 | 0.055 |
| Well #2 | 31-May-18 | 0.0045 | 0.0039 | 0.00002 | 0.005 | 0.004 |
| Well #3 | 31-May-18 | 0.0064 | 0.0009 | 0.00015 | 0.006 | 0.20 |
| Well #6 | 31-May-18 | 0.0091 | 0.0012 | 0.00007 | <0.004 | 0.14 |
| Well #7 | 31-May-18 | 0.0085 | <0.0005 | 0.00069 | 0.006 | 0.12 |
| Well #8 | 31-May-18 | 0.0070 | 0.0012 | 0.00004 | 0.0098 | 0.17 |
| Well #6 | 27-Jun-18 | 0.0087 | | | | |
| Well #7 | 27-Jun-18 | 0.0081 | | | | |
| Customer Concern #3 | 18-Jul-18 | 0.0058 | 0.0018 | 0.00017 | <0.004 | 0.037 |
| Well #1 | 25-Jul-18 | 0.0064 | 0.0044 | 0.00011 | <0.004 | 0.056 |
| Well #2 | 25-Jul-18 | 0.0043 | 0.0034 | 0.00003 | 0.006 | 0.005 |
| Well #3 | 25-Jul-18 | 0.0055 | <0.0005 | 0.00010 | <0.004 | 0.16 |
| Well #6 | 25-Jul-18 | 0.0087 | 0.0015 | 0.00005 | <0.004 | 0.15 |
| Well #7 | 25-Jul-18 | 0.0082 | <0.0005 | 0.00041 | <0.004 | 0.12 |
| Well #8 | 25-Jul-18 | 0.0058 | 0.0026 | 0.00123 | 0.014 | 0.13 |
| Customer Concern #4 | 13-Aug-18 | 0.0066 | 0.0053 | 0.00030 | 0.008 | 0.076 |
| Customer Concern #5 | 28-Aug-18 | 0.0065 | 0.0065 | 0.00016 | <0.004 | 0.14 |
| Customer Concern #6 | 28-Aug-18 | 0.0065 | 0.0216 | 0.00004 | <0.004 | 0.15 |
| Customer Concern #7 | 29-Aug-18 | 0.0079 | 0.0086 | 0.00001 | <0.004 | 0.13 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese |
|--------------------------|--------------|---------|--------|----------|--------|-----------|
| Well #6 | 29-Aug-18 | 0.0087 | | | | |
| Well #7 | 29-Aug-18 | 0.0081 | | | | |
| Well #4 Flow Test* | 30-Aug-18 | 0.0021 | 0.0016 | 0.00057 | 0.038 | 0.21 |
| Customer Concern #8 | 04-Sep-18 | 0.0085 | 0.0033 | 0.00014 | <0.004 | 0.13 |
| Customer Concern #9** | 05-Sep-18 | 0.0069 | 0.0295 | 0.02118 | 0.014 | 0.14 |
| Customer Concern #10 | 05-Sep-18 | 0.0081 | 0.0042 | 0.00010 | <0.004 | 0.13 |
| Customer Concern #11 | 06-Sep-18 | 0.0072 | 0.0081 | 0.00045 | <0.004 | 0.12 |
| Customer Concern #12 | 07-Sep-18 | 0.0070 | 0.0044 | 0.00021 | <0.004 | 0.12 |
| Customer Concern #9*** | 10-Sep-18 | 0.0066 | 0.0065 | 0.00021 | <0.004 | 0.12 |
| Customer Concern #9*** | 10-Sep-18 | 0.0065 | 0.0041 | 0.00010 | <0.004 | 0.12 |
| Customer Concern #9*** | 10-Sep-18 | 0.0065 | 0.0053 | 0.00018 | <0.004 | 0.12 |
| Customer Concern #9*** | 10-Sep-18 | 0.0066 | 0.0063 | 0.00029 | <0.004 | 0.12 |
| Customer Concern #13 | 11-Sep-18 | 0.0060 | 0.0046 | 0.00004 | <0.004 | 0.11 |
| Customer Concern #14 | 11-Sep-18 | 0.0061 | 0.0077 | 0.00006 | <0.004 | 0.11 |
| Customer Concern #15 | 12-Sep-18 | 0.0061 | 0.0090 | 0.00004 | <0.004 | 0.12 |
| Customer Concern #16 | 17-Sep-18 | 0.0059 | 0.0050 | 0.00014 | <0.004 | 0.11 |
| Customer Concern #17 | 18-Sep-18 | 0.0060 | 0.0102 | 0.00006 | 0.063 | 0.026 |
| Customer Concern #18 | 24-Sep-18 | 0.0064 | 0.0078 | <0.00001 | <0.004 | 0.13 |
| Well #6 | 26-Sep-18 | 0.0083 | | | | |
| Well #7 | 26-Sep-18 | 0.0079 | | | | |
| Customer Concern #19 | 26-Sep-18 | 0.0064 | 0.0068 | 0.00010 | <0.004 | 0.12 |
| Customer Concern #20**** | 01-Oct-18 | 0.0060 | 0.0020 | 0.00008 | <0.004 | 0.11 |
| Customer Concern #20**** | 01-Oct-18 | 0.0060 | 0.0174 | 0.00008 | <0.004 | 0.11 |
| Customer Concern #20**** | 01-Oct-18 | 0.0059 | 0.0121 | 0.00057 | <0.004 | 0.11 |
| Customer Concern #20**** | 02-Oct-18 | 0.0065 | 0.0055 | 0.00009 | <0.004 | 0.12 |
| Customer Concern #21 | 01-Oct-18 | 0.0060 | 0.0020 | 0.00008 | <0.004 | 0.11 |
| Customer Concern #22 | 04-Oct-18 | 0.0058 | 0.0215 | 0.00013 | 0.004 | 0.10 |
| Customer Concern #23 | 10-Oct-18 | 0.0064 | 0.0162 | 0.00179 | <0.004 | 0.093 |
| Customer Concern #24 | 15-Oct-18 | 0.0064 | 0.0060 | 0.00018 | 0.008 | 0.094 |
| Customer Concern #25 | 22-Oct-18 | 0.0083 | 0.0130 | 0.00006 | 0.006 | 0.13 |
| Customer Concern #26 | 25-Oct-18 | 0.0087 | 0.0080 | 0.00016 | 0.007 | 0.12 |
| Customer Concern #27 | 22-Nov-18 | 0.0054 | 0.0067 | 0.00003 | <0.004 | 0.084 |
| Customer Concern #28 | 22-Nov-18 | 0.0053 | 0.0063 | 0.00005 | <0.004 | 0.080 |
| Centennial Arena* | 28-Nov-18 | 0.0054 | 0.0189 | 0.00010 | <0.004 | 0.082 |
| CAL* | 28-Nov-18 | 0.0053 | 0.0440 | 0.00015 | 0.005 | 0.089 |
| WR Community Centre* | 28-Nov-18 | 0.0054 | 0.0449 | 0.00005 | <0.004 | 0.093 |
| City Hall - Annex* | 28-Nov-18 | 0.0071 | 0.0021 | 0.00005 | <0.004 | 0.12 |
| City Hall - main* | 28-Nov-18 | 0.0065 | 0.0088 | 0.00012 | <0.004 | 0.11 |

| RCMP* | 28-Nov-18 | 0.0078 | 0.0466 | 0.00012 | 0.005 | 0.089 |
|-------------------------------|--------------|---------|--------|---------|--------|-----------|
| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese |
| Fire Hall* | 28-Nov-18 | 0.0069 | 0.0066 | 0.00009 | <0.004 | 0.12 |
| Evergreen Daycare* | 28-Nov-18 | 0.0076 | 0.0132 | 0.00003 | <0.004 | 0.11 |
| Library* | 28-Nov-18 | 0.0073 | 0.0280 | 0.00035 | 0.005 | 0.10 |
| Kent Activity Center* | 28-Nov-18 | 0.0081 | 0.0070 | 0.00005 | <0.004 | 0.13 |
| Operations Bldg* | 28-Nov-18 | 0.0063 | 0.1286 | 0.00049 | <0.004 | 0.085 |
| Museum* | 28-Nov-18 | 0.0067 | 0.0779 | 0.00113 | <0.004 | 0.11 |
| Well #6 | 29-Nov-18 | 0.0092 | | | | |
| Well #7 | 29-Nov-18 | 0.0086 | | | | |
| Customer Concern #29 | 04-Dec-18 | 0.0088 | 0.0038 | 0.00012 | 0.010 | 0.13 |
| Customer Concern #30 Pre***** | 10-Dec-18 | 0.0069 | 0.0050 | 0.00041 | 0.007 | 0.10 |
| Customer Concern 30 Post***** | 10-Dec-18 | 0.0069 | 0.0007 | 0.00021 | <0.004 | <0.001 |
| Customer Concern #31 | 21-Dec-18 | 0.0085 | 0.0058 | 0.00008 | <0.004 | 0.13 |
| Well #6 | 28-Dec-18 | 0.0087 | | | | |
| Well #7 | 28-Dec-18 | 0.0083 | | | | |
| | | | | | | |

* Also under Non-Routine results

** 4 resamples taken immediately after results

*** Resampling results

**** 4 Samples taken from same address

***** Resident has home filter system, results pre-
and post-filter

THM & HAA RESULTS 2018

| Sample | Unit of Measure | Nominal Detection Limit | Sample Location | | | | | | Sampled Date |
|------------------------|-----------------|-------------------------|-----------------|----------------|------------------|----------------|-----------------|-------------------|--------------|
| | | | Stevens Station | Stayte Station | Roper PRV - High | Marine Station | Everall Station | Mann Park Station | |
| Chloroform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 18-Jan-18 |
| Bromodichloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 18-Jan-18 |
| Dibromochloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 18-Jan-18 |
| Bromoform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 18-Jan-18 |
| Total THMs | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 18-Jan-18 |
| Dibromofluoromethane | % | 50-140 | 103 | 105 | 103 | 103 | - | - | 18-Jan-18 |
| Toluene-d8 | % | 50-140 | 97 | 96 | 97 | 97 | - | - | 18-Jan-18 |
| Bromofluorobenzene | % | 50-140 | 96 | 98 | 98 | 99 | - | - | 18-Jan-18 |
| Monochloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 18-Jan-18 |
| Monobromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 18-Jan-18 |
| Dichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 18-Jan-18 |
| Bromochloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 18-Jan-18 |
| Dibromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 18-Jan-18 |
| Trichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 18-Jan-18 |
| Total HAA6 | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 18-Jan-18 |
| Chloroform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 26-Apr-18 |
| Bromodichloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 26-Apr-18 |
| Dibromochloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 26-Apr-18 |
| Bromoform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 26-Apr-18 |
| Total THMs | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 26-Apr-18 |
| Dibromofluoromethane | % | 50-140 | 97 | 98 | 93 | 88 | - | - | 26-Apr-18 |
| Toluene-d8 | % | 50-140 | 89 | 93 | 90 | 90 | - | - | 26-Apr-18 |
| Bromofluorobenzene | % | 50-140 | 98 | 101 | 101 | 105 | - | - | 26-Apr-18 |
| Monochloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 26-Apr-18 |
| Monobromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 26-Apr-18 |
| Dichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 26-Apr-18 |
| Bromochloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 26-Apr-18 |
| Dibromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 26-Apr-18 |
| Trichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 26-Apr-18 |
| Total HAA6 | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 26-Apr-18 |
| Chloroform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 24-Jul-18 |
| Bromodichloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 24-Jul-18 |
| Dibromochloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 24-Jul-18 |
| Bromoform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 24-Jul-18 |

| Sample | Unit of Measure | Nominal Detection Limit | Stevens Station | Stayte Station | Roper PRV - High | Marine Station | Overall Station | Mann Park Sation | Sampled Date |
|------------------------------|-----------------|-------------------------|-----------------|----------------|------------------|----------------|-----------------|------------------|--------------|
| Total THMs | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 24-Jul-18 |
| Dibromofluoromethane | % | 50-140 | 82 | 78 | 78 | 75 | - | - | 24-Jul-18 |
| Toluene-d8 | % | 50-140 | 92 | 90 | 91 | 92 | - | - | 24-Jul-18 |
| Bromofluorobenzene | % | 50-140 | 105 | 106 | 102 | 103 | - | - | 24-Jul-18 |
| Monochloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 24-Jul-18 |
| Monobromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 24-Jul-18 |
| Dichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 24-Jul-18 |
| Bromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 24-Jul-18 |
| Dibromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 24-Jul-18 |
| Trichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 24-Jul-18 |
| Total HAA6 | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 24-Jul-18 |
| Chloroform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 16-Oct-18 |
| Bromodichloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 16-Oct-18 |
| Dibromochloromethane | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 16-Oct-18 |
| Bromoform | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 16-Oct-18 |
| Total THMs | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | - | 16-Oct-18 |
| Dibromofluoromethane | % | 50-140 | 98 | 102 | 93 | 94 | - | - | 16-Oct-18 |
| Toluene-d8 | % | 50-140 | 91 | 92 | 91 | 89 | - | - | 16-Oct-18 |
| Bromofluorobenzene | % | 50-140 | 98 | 99 | 99 | 95 | - | - | 16-Oct-18 |
| Monochloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 16-Oct-18 |
| Monobromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 16-Oct-18 |
| Dichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 16-Oct-18 |
| Bromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 16-Oct-18 |
| Dibromoacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 16-Oct-18 |
| Trichloroacetic Acid | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 16-Oct-18 |
| Total HAA6 | ug/L | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | 16-Oct-18 |

Non Routine Water Quality Results for Source and Distribution Water 2018

| Sampling Point Name | Date Sampled | TC | E-coli | Comments |
|-------------------------|--------------|--------------|--------------|-----------|
| | | MPN / 100 ml | MPN / 100 ml | |
| 1500 Blk Stevens | 4-Jan-18 | <1.0 | <1.0 | Below Mac |
| Well 6 - Out of Service | 19-Mar-18 | <1.0 | <1.0 | Below Mac |
| Well 6 - Out of Service | 20-Mar-18 | <1.0 | <1.0 | Below Mac |
| 1500 Blk Johnston | 13-Jun-18 | <1.0 | <1.0 | Below Mac |
| Johnston/Royal | 14-Jun-18 | <1.0 | <1.0 | Below Mac |
| 15200 Blk Thrift | 26-Jul-18 | <1.0 | <1.0 | Below Mac |
| 15200 Blk Thrift | 27-Jul-18 | <1.0 | <1.0 | Below Mac |
| Russell Ave. Station | 9-Aug-18 | <1.0 | <1.0 | Below Mac |
| 1500 Blk Johnston | 9-Aug-18 | <1.0 | <1.0 | Below Mac |
| 1500 Blk Johnston | 15-Aug-18 | <1.0 | <1.0 | Below Mac |
| Well 4 - Flow Test* | 30-Aug-18 | <1.0 | <1.0 | Below Mac |
| 1400 Blk Oxford | 4-Sep-18 | <1.0 | <1.0 | Below Mac |
| Mann Park Station - NIS | 25-Sep-18 | <1.0 | <1.0 | Below Mac |
| 14200 Blk Park | 9-Oct-18 | <1.0 | <1.0 | Below Mac |
| Chestnut & North Bluff | 10-Oct-18 | <1.0 | <1.0 | Below Mac |
| 1500 Blk Parker | 20-Oct-18 | <1.0 | <1.0 | Below Mac |
| 800 Blk Finlay | 6-Nov-18 | <1.0 | <1.0 | Below Mac |
| Centennial Arena* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| CAL* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| WR Community Centre* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| City Hall - Annex* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| City Hall - main* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| RCMP* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| Fire Hall* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| Evergreen Daycare* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| Library* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| Kent Activity Center* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| Operations Bldg* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| Museum* | 28-Nov-18 | <1.0 | <1.0 | Below Mac |
| 14900 Blk Marine | 29-Nov-18 | <1.0 | <1.0 | Below Mac |
| 14900 Blk Marine | 3-Dec-18 | <1.0 | <1.0 | Below Mac |
| Everall Station** | 27-Dec-18 | <1.0 | <1.0 | Below Mac |

| Sampling Point Name | Date Sampled | TC | E-coli | Comments |
|------------------------------------|--------------|------|--------|-----------|
| Mann Park Station** | 27-Dec-18 | <1.0 | <1.0 | Below Mac |
| Marine Drive Station** | 27-Dec-18 | <1.0 | <1.0 | Below Mac |
| Russell Ave. Station** | 27-Dec-18 | <1.0 | <1.0 | Below Mac |
| Roper Reservoir** | 27-Dec-18 | <1.0 | <1.0 | Below Mac |
| Roper PRV** | 27-Dec-18 | <1.0 | <1.0 | Below Mac |
| Stevens Station** | 27-Dec-18 | <1.0 | <1.0 | Below Mac |
| Finlay Station** | 28-Dec-18 | <1.0 | <1.0 | Below Mac |
| Stayte Road Station** | 28-Dec-18 | <1.0 | <1.0 | Below Mac |
| Balsam & Marine Station** | 28-Dec-18 | <1.0 | <1.0 | Below Mac |
| Oxford & Buena Vista Station** | 28-Dec-18 | <1.0 | <1.0 | Below Mac |
| Merklin Low Reservoir** | 28-Dec-18 | <1.0 | <1.0 | Below Mac |
| Merklin New Reservoir** | 28-Dec-18 | <1.0 | <1.0 | Below Mac |
| Oxford Reservoir** | 28-Dec-18 | <1.0 | <1.0 | Below Mac |
| | | | | |
| * Also under Metals Results | | | | |
| ** Also under Chlorination Results | | | | |

In-House Water Testing Results 2018

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Colltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|--------------|--------------|
| | | | µS/cm | | NTU | mg/L | mg/L | | |
| January Week 1 | | | | | | | | | |
| Merklin Low Reservoir - 25% | 5-Jan-17 | 11:10 | 278 | 8.46 | 0.34 | 0.01 | 0.68 | 9.2 | 15.1 |
| Merklin Low Reservoir - 50% | | | | | | | | | |
| Overall St. Sampling Station | 3-Jan-18 | 15:00 | 291 | 7.98 | 0.19 | 0.61 | 0.01 | 8.6 | 13.4 |
| Malabar Sampling Station | | | 276 | 8.08 | 0.22 | 0.55 | 0.02 | 7.4 | 13.3 |
| Chestnut & N. Bluff Sample STN | | | 276 | 8.16 | 0.21 | 0.44 | 0.00 | 5.9 | 13.3 |
| Russell Ave. Sample Station | | | 302 | 8.28 | 0.40 | 0.63 | 0.02 | 7.9 | 12.6 |
| Roper Reservoir | | | 289 | 8.32 | 0.31 | 0.38 | 0.01 | 5.0 | 13.3 |
| Roper PRV | | | 299 | 8.33 | 0.32 | 0.61 | 0.02 | 8.6 | 13.2 |
| Roper Ave. Sample Station | | | 295 | 8.41 | 0.31 | 0.56 | 0.03 | 6.1 | 10.0 |
| Finlay St. Sampling Station | | | 290 | 8.39 | 0.28 | 0.56 | 0.01 | 6.6 | 8.8 |
| Stayte Sampling Station | | | 294 | 8.35 | 0.28 | 0.46 | 0.02 | 6.5 | 8.9 |
| Balsam & Marine | | | 285 | 8.36 | 0.17 | 0.56 | 0.00 | 7.4 | 8.7 |
| Oxford St. & Buena Vista STN | | | 292 | 8.33 | 0.20 | 0.39 | 0.00 | 7.9 | 9.1 |
| Merklin Low Reservoir | | | 295 | 8.38 | 0.23 | 0.55 | 0.03 | 8.9 | 10.1 |
| Merklin Reservoir (New) | | | | | | | | | 9.2 |
| Oxford Reservoir | | | 180 | 8.29 | 0.19 | 0.59 | 0.02 | 8.3 | 10.1 |
| January Week 2 | | | | | | | | | |
| Overall St. Sampling Station | 9-Jan-18 | 9:10 | 284 | 8.29 | 0.09 | 0.60 | 0.04 | 9.7 | 22.1 |
| Mann Park Sample Station | 9-Jan-18 | 9:25 | 279 | 8.24 | 0.08 | 0.59 | 0.03 | 7.7 | 22.1 |
| Marine Dr Sample Station | 9-Jan-18 | 9:55 | 280 | 8.23 | 0.14 | 0.46 | 0.03 | 8.1 | 22.7 |
| Russell Ave. Sample Station | 9-Jan-18 | 10:35 | 298 | 8.45 | 0.27 | 0.79 | 0.00 | 9.1 | 20.6 |
| Roper Reservoir | 9-Jan-18 | 11:00 | 304 | 8.52 | 0.33 | 0.27 | 0.00 | 7.4 | 23.2 |
| Roper PRV | 9-Jan-18 | 10:50 | - | - | 0.22 | 0.63 | 0.00 | 9.3 | - |
| Stevens Sample Station | 10-Jan-18 | 9:10 | 302 | 8.31 | 0.29 | 0.58 | 0.06 | 9.0 | 23.2 |
| Finlay St. Sampling Station | 10-Jan-18 | 8:55 | 300 | 8.32 | 0.32 | 0.58 | 0.03 | 8.3 | 26.7 |
| Stayte Sampling Station | 10-Jan-18 | 9:25 | 288 | 8.31 | 0.22 | 0.43 | 0.03 | 8.4 | 22.7 |
| Balsam & Marine | 10-Jan-18 | 9:40 | 288 | 8.27 | 0.15 | 0.64 | 0.01 | 8.7 | 19.1 |
| Oxford St. & Buena Vista STN | 10-Jan-18 | 11:20 | 289 | 8.28 | 0.13 | 0.53 | 0.00 | 8.7 | 21.5 |
| Merklin Low Reservoir | 10-Jan-18 | 10:20 | 304 | 8.37 | 0.27 | 0.66 | 0.00 | 9.6 | 23.4 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Merklin Reservoir (New) | 10-Jan-18 | 10:40 | 306 | 8.40 | 0.28 | 0.74 | 0.07 | 9.7 | 24.3 |
| Oxford Reservoir | 10-Jan-18 | 11:05 | 282 | 8.21 | 0.08 | 0.58 | 0.01 | 10.3 | 25.6 |
| January Week 3 | | | | | | | | | |
| Everall St. Sampling Station | 16-Jan-18 | 8:45 | 283 | 8.40 | 0.09 | 0.58 | 0.04 | 9.9 | 21.0 |
| Malabar Sampling Station | 16-Jan-18 | 9:10 | 285 | 8.42 | 0.09 | 0.55 | 0.04 | 8.5 | 26.3 |
| Marine Dr Sample Station | 16-Jan-18 | 9:30 | 274 | 8.35 | 0.10 | 0.47 | 0.03 | 7.5 | 24.1 |
| Russell Ave. Sample Station | 16-Jan-18 | 9:55 | 309 | 8.53 | 0.19 | 0.56 | 0.06 | 9.2 | 26.4 |
| Roper Reservoir | 16-Jan-18 | 11:00 | 295 | 8.98 | 0.19 | 0.03 | 0.02 | 6.9 | 24.0 |
| Roper PRV | 16-Jan-18 | 11:05 | - | - | 0.20 | 0.62 | 0.08 | 9.5 | - |
| Roper Ave. Sample Station | 16-Jan-18 | 10:35 | 296 | 8.55 | 0.31 | 0.59 | 0.08 | 7.9 | 22.8 |
| Finlay St. Sampling Station | 17-Jan-18 | 8:55 | 331 | 8.19 | 0.21 | 0.55 | 0.06 | 8.7 | 22.1 |
| Stayte Sampling Station | 17-Jan-18 | 9:15 | 296 | 8.28 | 0.20 | 0.45 | 0.03 | 7.8 | 22.3 |
| Balsam & Marine | 17-Jan-18 | 9:35 | 292 | 8.31 | 0.17 | 0.56 | 0.00 | 8.9 | 21.6 |
| Oxford St. & Buena Vista STN | 17-Jan-18 | 9:45 | 285 | 8.35 | 0.19 | 0.41 | 0.03 | 8.9 | 20.8 |
| Merklin Low Reservoir | 17-Jan-18 | 10:20 | 300 | 8.48 | 0.30 | 0.57 | 0.05 | 9.2 | 21.1 |
| Merklin Reservoir (New) | 17-Jan-18 | 10:35 | 291 | 8.49 | 0.29 | 0.60 | 0.03 | 9.6 | 18.6 |
| Oxford Reservoir | 17-Jan-18 | 11:00 | 282 | 8.23 | 0.09 | 0.56 | 0.03 | 10.3 | 22.6 |
| January Week 4 | | | | | | | | | |
| Everall St. Sampling Station | 23-Jan-18 | 9:00 | 286 | 8.34 | 0.09 | 0.58 | 0.02 | 10.1 | 26.1 |
| Mann Park Sample Station | 23-Jan-18 | 9:20 | 285 | 8.22 | 0.08 | 0.59 | 0.06 | 8.4 | 26.7 |
| Marine Dr Sample Station | 23-Jan-18 | 9:40 | 275 | 8.20 | 0.16 | 0.38 | 0.01 | 7.6 | 25.5 |
| Russell Ave. Sample Station | 23-Jan-18 | 10:25 | 301 | 8.30 | 0.22 | 0.72 | 0.05 | 9.4 | 25.0 |
| Roper Reservoir | 23-Jan-18 | 10:50 | 291 | 8.39 | 0.39 | 0.35 | 0.00 | 8.2 | 23.7 |
| Roper PRV | 23-Jan-18 | 10:56 | - | - | 0.21 | 0.65 | 0.08 | 9.6 | - |
| Stevens Sample Station | 23-Jan-18 | 11:15 | 303 | 8.39 | 0.19 | 0.37 | 0.09 | 9.4 | 24.3 |
| Finlay St. Sampling Station | 24-Jan-18 | 8:57 | 292 | 8.35 | 0.26 | 0.57 | 0.06 | 9.1 | 23.9 |
| Stayte Sampling Station | 24-Jan-18 | 9:20 | 300 | 8.27 | 0.19 | 0.46 | 0.03 | 8.4 | 26.0 |
| Balsam & Marine | 24-Jan-18 | 9:35 | 282 | 8.24 | 0.15 | 0.58 | 0.07 | 9.3 | 26.3 |
| Oxford St. & Buena Vista STN | 24-Jan-18 | 9:50 | 289 | 8.28 | 0.15 | 0.39 | 0.02 | 9.3 | 26.4 |
| Merklin Low Reservoir | 24-Jan-18 | 10:35 | 293 | 8.42 | 0.24 | 0.59 | 0.03 | 12.1 | 23.8 |
| Merklin Reservoir (New) | 24-Jan-18 | 10:47 | 307 | 8.37 | 0.28 | 0.65 | 0.03 | 9.7 | 25.1 |
| Oxford Reservoir | 24-Jan-18 | 11:15 | 283 | 8.28 | 0.08 | 0.58 | 0.02 | 10.5 | 26.4 |
| January Week 5 | | | | | | | | | |
| Everall St. Sampling Station | 30-Jan-18 | 9:00 | 288 | 8.43 | 0.10 | 0.61 | 0.04 | 9.7 | 24.0 |
| Malabar Sampling Station | 30-Jan-18 | 9:15 | 280 | 8.31 | 0.11 | 0.56 | 0.02 | 8.7 | 22.8 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Chestnut & N. Bluff Sample STN | 30-Jan-18 | 9:30 | 282 | 8.27 | 0.11 | 0.47 | 0.01 | 7.7 | 24.0 |
| Russell Ave. Sample Station | 30-Jan-18 | 9:50 | 307 | 8.51 | 0.26 | 0.61 | 0.00 | 10.0 | 23.6 |
| Roper Reservoir | 30-Jan-18 | 11:25 | 290 | 8.59 | 0.65 | 0.23 | 0.00 | 7.7 | 22.9 |
| Roper PRV | 30-Jan-18 | 11:05 | - | - | 0.21 | 0.66 | 0.03 | 9.3 | - |
| Roper Ave. Sample Station | 30-Jan-18 | 10:45 | 302 | 8.47 | 0.31 | 0.61 | 0.04 | 8.0 | 24.0 |
| Finlay St. Sampling Station | 31-Jan-18 | 8:35 | 300 | 8.43 | 0.25 | 0.58 | 0.04 | 8.8 | 26.9 |
| Stayte Sampling Station | 31-Jan-18 | 9:00 | 285 | 8.32 | 0.21 | 0.44 | 0.01 | 8.3 | 23.4 |
| Balsam & Marine | 31-Jan-18 | 9:20 | 284 | 8.46 | 0.15 | 0.53 | 0.00 | 18.1 | 25.3 |
| Oxford St. & Buena Vista STN | 31-Jan-18 | 9:40 | 282 | 8.31 | 0.11 | 0.41 | 0.07 | 9.9 | 25.6 |
| Merklin Low Reservoir | 31-Jan-18 | 10:35 | 298 | 8.53 | 0.22 | 0.67 | 0.03 | 9.2 | 24.6 |
| Merklin Reservoir (New) | 31-Jan-18 | 10:45 | 306 | 8.37 | 0.22 | 0.57 | 0.02 | 9.7 | 26.0 |
| Oxford Reservoir | 31-Jan-18 | 11:05 | 276 | 8.57 | 0.08 | 0.51 | 0.03 | 10.3 | 25.0 |
| February Week 1 | | | | | | | | | |
| Everall St. Sampling Station | 6-Feb-18 | 10:00 | 279 | 8.09 | | 0.58 | 0.03 | 9.2 | 17.3 |
| Malabar Sampling Station | 6-Feb-18 | 10:15 | 278 | 8.17 | | 0.50 | 0.02 | 8.7 | 17.5 |
| Marine Dr Sample Station | 6-Feb-18 | 10:30 | 277 | 8.20 | | 0.42 | 0.02 | 7.7 | 17.5 |
| Russell Ave. Sample Station | 6-Feb-18 | 10:45 | 311 | 8.35 | | 0.58 | 0.03 | 8.7 | 17.4 |
| Roper Reservoir | 6-Feb-18 | 11:00 | 293 | 8.55 | | 0.29 | 0.02 | 8.2 | 16.7 |
| Roper PRV | 6-Feb-18 | 11:00 | 307 | 8.40 | | 0.57 | 0.02 | 8.9 | 17.2 |
| Roper Ave. Sample Station | 6-Feb-18 | 11:15 | 302 | 8.39 | | 0.53 | 0.03 | 7.9 | 17.4 |
| Finlay St. Sampling Station | 6-Feb-18 | 11:30 | 288 | 8.34 | | 0.51 | 0.03 | 8.7 | 17.4 |
| Stayte Sampling Station | 7-Feb-18 | 8:50 | 302 | 8.41 | 0.22 | 0.45 | 0.01 | 8.2 | 28.6 |
| Balsam & Marine | 7-Feb-18 | 9:10 | 291 | 8.36 | 0.12 | 0.51 | 0.00 | 9.0 | 28.0 |
| Oxford St. & Buena Vista STN | 7-Feb-18 | 9:30 | 301 | 8.52 | 0.16 | 0.43 | 0.02 | 9.2 | 25.4 |
| Merklin Low Reservoir | 7-Feb-18 | 10:30 | 314 | 8.74 | 0.13 | 0.59 | 0.02 | 8.9 | 25.7 |
| Merklin Reservoir (New) | 7-Feb-18 | 10:50 | 313 | 8.63 | 0.11 | 0.65 | 0.02 | 9.4 | 25.1 |
| Oxford Reservoir | 7-Feb-18 | 9:55 | 278 | 8.49 | 0.09 | 0.55 | 0.03 | 10.1 | 25.7 |
| February Week 2 | | | | | | | | | |
| Everall St. Sampling Station | 13-Feb-18 | 9:00 | 303 | 8.43 | 0.09 | 0.61 | 0.04 | 9.0 | 24.8 |
| Mann Park Sample Station | 13-Feb-18 | 9:15 | 282 | 8.32 | 0.09 | 0.57 | 0.03 | 8.1 | 25.8 |
| Marine Dr Sample Station | 13-Feb-18 | 9:35 | 276 | 8.35 | 0.16 | 0.34 | 0.03 | 7.2 | 24.4 |
| Russell Ave. Sample Station | 13-Feb-18 | 9:55 | 311 | 8.50 | 0.10 | 0.67 | 0.05 | 8.7 | 23.6 |
| Roper Reservoir | 13-Feb-18 | 10:35 | 306 | 8.50 | 0.49 | 0.55 | 0.00 | 7.0 | 26.3 |
| Roper PRV | 13-Feb-18 | 10:40 | - | - | 0.09 | 0.59 | 0.00 | 9.0 | - |
| Stevens Sample Station | 13-Feb-18 | 11:00 | 310 | 8.56 | 0.12 | 0.66 | 0.04 | 8.8 | 24.2 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Finlay St. Sampling Station | 14-Feb-18 | 8:50 | 311 | 8.51 | 0.12 | 0.58 | 0.02 | 8.4 | 23.6 |
| Stayte Sampling Station | 14-Feb-18 | 9:10 | 304 | 8.35 | 0.13 | 0.48 | 0.03 | 7.8 | 24.5 |
| Balsam & Marine | 14-Feb-18 | 9:30 | 283 | 8.38 | 0.12 | 0.50 | 0.02 | 8.5 | 24.2 |
| Oxford St. & Buena Vista STN | 14-Feb-18 | 9:50 | 299 | 8.48 | 0.11 | 0.47 | 0.01 | 8.7 | 25.3 |
| Merklin Low Reservoir | 14-Feb-18 | 10:40 | 315 | 8.48 | 0.09 | 0.70 | 0.01 | 8.7 | 24.5 |
| Merklin Reservoir (New) | 14-Feb-18 | 10:55 | 310 | 8.53 | 0.09 | 0.84 | 0.00 | 9.2 | 23.4 |
| Oxford Reservoir | 14-Feb-18 | 11:20 | 282 | 8.51 | 0.07 | 0.54 | 0.06 | 9.9 | 24.3 |
| February Week 3 | | | | | | | | | |
| Everall St. Sampling Station | 20-Feb-18 | 7:50 | 296 | 8.42 | 0.11 | 0.58 | 0.02 | 9.3 | 24.4 |
| Malabar Sampling Station | 20-Feb-18 | 8:05 | 281 | 8.33 | 0.10 | 0.46 | 0.01 | 8.5 | 23.3 |
| Chestnut & N. Bluff Sample STN | 20-Feb-18 | 8:22 | 277 | 8.25 | 0.11 | 0.45 | 0.01 | 7.5 | 23.2 |
| Russell Ave. Sample Station | 20-Feb-18 | 8:40 | 290 | 8.63 | 0.17 | 0.52 | 0.00 | 8.7 | 21.6 |
| Roper Reservoir | 20-Feb-18 | 9:00 | 302 | 8.54 | 0.43 | 0.55 | 0.07 | 6.5 | 22.0 |
| Roper PRV | 20-Feb-18 | 8:52 | - | - | 0.21 | 0.49 | 0.06 | 8.9 | - |
| Roper Ave. Sample Station | 20-Feb-18 | 9:15 | 302 | 8.47 | 0.28 | 0.51 | 0.00 | 7.7 | 21.7 |
| Finlay St. Sampling Station | 20-Feb-18 | 9:40 | 282 | 8.43 | 0.23 | 0.55 | 0.04 | 8.3 | 18.4 |
| Stayte Sampling Station | 21-Feb-18 | 8:52 | 302 | 8.33 | 0.24 | 0.48 | 0.04 | 7.9 | 19.9 |
| Balsam & Marine | 21-Feb-18 | 9:05 | 288 | 8.35 | 0.15 | 0.51 | 0.03 | 8.4 | 19.9 |
| Oxford St. & Buena Vista STN | 21-Feb-18 | 9:30 | 296 | 8.37 | 0.17 | 0.35 | 0.00 | 8.4 | 18.9 |
| Merklin Low Reservoir | 21-Feb-18 | 10:35 | 317 | 8.43 | 0.25 | 0.58 | 0.03 | 9.1 | 20.9 |
| Merklin Reservoir (New) | 21-Feb-18 | 10:55 | 302 | 8.43 | 0.21 | 0.65 | 0.02 | 9.4 | 19.2 |
| Oxford Reservoir | 21-Feb-18 | 9:50 | 287 | 8.23 | 0.12 | 0.37 | 0.00 | 9.6 | 19.0 |
| February Week 4 | | | | | | | | | |
| Everall St. Sampling Station | 27-Feb-18 | 9:15 | 284 | 8.46 | 0.11 | 0.60 | 0.02 | 9.3 | 16.2 |
| Mann Park Sample Station | 27-Feb-18 | 9:30 | 281 | 8.29 | 0.12 | 0.62 | 0.03 | 7.2 | 17.3 |
| Marine Dr Sample Station | 27-Feb-18 | 9:45 | 275 | 8.43 | 0.15 | 0.54 | 0.02 | 6.7 | 17.8 |
| Russell Ave. Sample Station | 27-Feb-18 | 11:20 | 305 | 8.45 | 0.26 | 0.64 | 0.03 | 8.7 | 17.3 |
| Roper Reservoir | 27-Feb-18 | 11:40 | 305 | 8.54 | 0.33 | 0.40 | 0.07 | 6.8 | 17.2 |
| Roper PRV | 27-Feb-18 | 11:30 | - | - | 0.21 | 0.52 | 0.04 | 8.9 | - |
| Stevens Sample Station | 27-Feb-18 | 11:05 | 288 | 8.43 | 0.17 | 0.52 | 0.04 | 8.2 | 17.8 |
| Finlay St. Sampling Station | 28-Feb-18 | 8:50 | 312 | 8.57 | 0.26 | 0.61 | 0.02 | 7.8 | 23.3 |
| Stayte Sampling Station | 28-Feb-18 | 9:10 | 298 | 8.45 | 0.21 | 0.53 | 0.06 | 7.2 | 21.6 |
| Balsam & Marine | 28-Feb-18 | 9:25 | 293 | 8.45 | 0.14 | 0.44 | 0.00 | 8.3 | 22.5 |
| Oxford St. & Buena Vista STN | 28-Feb-18 | 9:40 | 289 | 8.50 | 0.14 | 0.39 | 0.01 | 8.1 | 20.9 |
| Merklin Low Reservoir | 28-Feb-18 | 10:34 | 308 | 8.56 | 0.20 | 0.57 | 0.00 | 9.2 | 18.0 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Merklin Reservoir (New) | 28-Feb-18 | 10:20 | 315 | 8.56 | 0.22 | 0.75 | 0.00 | 9.6 | 20.6 |
| Oxford Reservoir | 28-Feb-18 | 11:00 | 279 | 8.46 | 0.09 | 0.58 | 0.02 | 10.0 | 21.5 |
| March Week 1 | | | | | | | | | |
| Everall St. Sampling Station | 6-Mar-18 | 7:28 | 282 | 8.36 | 0.09 | 0.62 | 0.02 | 9.6 | 22.4 |
| Malabar Sampling Station | 6-Mar-18 | 7:40 | 283 | 8.32 | 0.13 | 0.53 | 0.02 | 8.2 | 21.4 |
| Marine Dr Sample Station | 6-Mar-18 | 7:50 | 283 | 8.43 | 0.11 | 0.46 | 0.02 | 7.4 | 21.7 |
| Russell Ave. Sample Station | 6-Mar-18 | 8:05 | 301 | 8.39 | 0.15 | 0.58 | 0.00 | 8.9 | 22.3 |
| Roper Reservoir | 6-Mar-18 | 8:20 | 292 | 8.52 | 0.22 | 0.48 | 0.03 | 7.7 | 17.6 |
| Roper PRV | 6-Mar-18 | 8:15 | - | - | 0.19 | 0.57 | 0.00 | 9.1 | - |
| Roper Ave. Sample Station | 6-Mar-18 | 9:15 | 309 | 8.61 | 0.26 | 0.62 | 0.04 | 7.1 | 19.6 |
| Finlay St. Sampling Station | 6-Mar-18 | 8:37 | 307 | 8.45 | 0.24 | 0.56 | 0.05 | 8.2 | 21.3 |
| Stayte Sampling Station | 6-Mar-18 | 8:50 | 299 | 8.48 | 0.19 | 0.47 | 0.02 | 7.5 | 22.2 |
| Balsam & Marine | 6-Mar-18 | 9:00 | 273 | 8.33 | 0.10 | 0.42 | 0.05 | 8.8 | 17.7 |
| Oxford St. & Buena Vista STN | 6-Mar-18 | 10:45 | 294 | 8.38 | 0.11 | 0.40 | 0.02 | 8.7 | 20.2 |
| Merklin Low Reservoir | 6-Mar-18 | 9:25 | 298 | 8.48 | 0.19 | 0.59 | 0.07 | 9.1 | 17.6 |
| Merklin Reservoir (New) | 6-Mar-18 | 9:40 | 304 | 8.47 | 0.21 | 0.62 | 0.03 | 9.5 | 18.0 |
| Oxford Reservoir | 6-Mar-18 | 10:30 | 279 | 8.32 | 0.09 | 0.59 | 0.02 | 10.7 | 18.3 |
| March Week 2 | | | | | | | | | |
| Everall St. Sampling Station | 13-Mar-18 | 8:50 | 275 | 8.39 | 0.09 | 0.62 | 0.03 | 9.9 | 24.4 |
| Mann Park Sample Station | 13-Mar-18 | 9:15 | 279 | 8.24 | 0.10 | 0.56 | 0.03 | 8.7 | 23.6 |
| Marine Dr Sample Station | 13-Mar-18 | 9:05 | 283 | 8.33 | 0.15 | 0.46 | 0.02 | 7.7 | 25.3 |
| Russell Ave. Sample Station | 13-Mar-18 | 9:30 | 318 | 8.49 | 0.10 | 0.64 | 0.05 | 9.5 | 25.1 |
| Roper Reservoir | 13-Mar-18 | 9:50 | 293 | 8.41 | 0.19 | 0.48 | 0.03 | 8.9 | 23.0 |
| Roper PRV | 13-Mar-18 | 9:40 | - | - | 0.09 | 0.64 | 0.02 | 9.9 | - |
| Stevens Sample Station | 13-Mar-18 | 10:30 | 296 | 8.41 | 0.10 | 0.62 | 0.04 | 9.5 | 23.3 |
| Finlay St. Sampling Station | 14-Mar-18 | 9:00 | 310 | 8.31 | 0.12 | 0.62 | 0.06 | 9.6 | 19.7 |
| Stayte Sampling Station | 14-Mar-18 | 9:20 | 297 | 8.29 | 0.17 | 0.55 | 0.03 | 8.5 | 18.4 |
| Balsam & Marine | 14-Mar-18 | 9:35 | 288 | 8.30 | 0.11 | 0.52 | 0.06 | 9.7 | 19.8 |
| Oxford St. & Buena Vista STN | 14-Mar-18 | 11:45 | 285 | 8.30 | 0.14 | 0.35 | 0.02 | 9.8 | 19.7 |
| Merklin Low Reservoir | 14-Mar-18 | 11:10 | 288 | 8.44 | 0.28 | 0.54 | 0.04 | 9.2 | 19.8 |
| Merklin Reservoir (New) | 14-Mar-18 | 10:00 | 298 | 8.47 | 0.21 | 0.62 | 0.00 | 9.8 | 20.3 |
| Oxford Reservoir | 14-Mar-18 | 8:40 | 280 | 8.36 | 0.10 | 0.63 | 0.03 | 10.7 | 20.4 |
| March Week 3 | | | | | | | | | |
| Everall St. Sampling Station | 20-Mar-18 | 8:37 | 276 | 8.37 | 0.09 | 0.60 | 0.03 | 9.8 | 17.4 |
| Malabar Sampling Station | 20-Mar-18 | 8:48 | 281 | 8.25 | 0.10 | 0.51 | 0.02 | 9.7 | 16.8 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------|---------------------|-------------|---------------------|-----------|------------------|-----------------|----------------|--------------------|---------------------|
| Marine Dr Sample Station | 20-Mar-18 | 9:05 | 272 | 8.24 | 0.11 | 0.44 | 0.03 | 9.8 | 15.5 |
| Russell Ave. Sample Station | 20-Mar-18 | 9:30 | 283 | 8.29 | 0.10 | 0.58 | 0.03 | 9.6 | 17.6 |
| Roper Reservoir | 20-Mar-18 | 11:20 | 282 | 8.50 | 0.20 | 0.46 | 0.04 | 9.1 | 15.4 |
| Roper PRV | 20-Mar-18 | 11:15 | - | - | 0.15 | 0.56 | 0.02 | 9.8 | - |
| Roper Ave. Sample Station | 20-Mar-18 | 9:45 | 289 | 8.52 | 0.23 | 0.53 | 0.01 | 9.0 | 17.4 |
| Finlay St. Sampling Station | 20-Mar-18 | 10:00 | 287 | 8.40 | 0.17 | 0.55 | 0.02 | 10.1 | 18.0 |
| Stayte Sampling Station | 20-Mar-18 | 10:35 | 273 | 8.40 | 0.18 | 0.53 | 0.00 | 9.2 | 15.0 |
| Balsam & Marine | 20-Mar-18 | 10:50 | 284 | 8.33 | 0.13 | 0.52 | 0.01 | 9.9 | 18.2 |
| Oxford St. & Buena Vista STN | 20-Mar-18 | 11:03 | 274 | 8.34 | 0.10 | 0.29 | 0.01 | 10.4 | 16.0 |
| Merklin Low Reservoir | 20-Mar-18 | 11:30 | 289 | 8.48 | 0.18 | 0.45 | 0.00 | 9.2 | 17.2 |
| Merklin Reservoir (New) | 20-Mar-18 | 11:40 | 279 | 8.49 | 0.17 | 0.61 | 0.02 | 9.7 | 15.9 |
| Oxford Reservoir | 20-Mar-18 | 11:50 | 286 | 8.34 | 0.08 | 0.44 | 0.02 | 10.5 | 17.8 |
| March Week 4 | | | | | | | | | |
| Everall St. Sampling Station | 27-Mar-18 | 8:30 | 281 | 8.22 | 0.12 | 0.60 | 0.03 | 9.8 | 20.3 |
| Mann Park Sample Station | 27-Mar-18 | 8:45 | 284 | 8.15 | 0.11 | 0.58 | 0.05 | 9.1 | 20.7 |
| Marine Dr Sample Station | 27-Mar-18 | 9:10 | 280 | 8.23 | 0.11 | 0.41 | 0.00 | 8.5 | 20.9 |
| Russell Ave. Sample Station | 27-Mar-18 | 9:25 | 279 | 8.19 | 0.11 | 0.62 | 0.06 | 9.6 | 21.1 |
| Roper Reservoir | 27-Mar-18 | 11:15 | 292 | 8.36 | 0.18 | 0.53 | 0.00 | 8.9 | 21.5 |
| Roper PRV | 27-Mar-18 | 11:05 | 302 | 8.33 | 0.09 | 0.67 | 0.07 | 9.8 | 18.5 |
| Stevens Sample Station | 27-Mar-18 | 10:30 | 325 | 8.35 | 0.11 | 0.63 | 0.00 | 9.8 | 21.6 |
| Finlay St. Sampling Station | 27-Mar-18 | 10:45 | 284 | 8.30 | 0.10 | 0.59 | 0.00 | 10.0 | 19.4 |
| Stayte Sampling Station | 28-Mar-18 | 9:25 | 395 | 8.38 | 0.13 | 0.45 | 0.03 | 9.6 | 17.8 |
| Balsam & Marine | 28-Mar-18 | 9:40 | 277 | 8.32 | 0.11 | 0.66 | 0.04 | 9.9 | 22.2 |
| Oxford St. & Buena Vista STN | 28-Mar-18 | 11:25 | 277 | 8.35 | 0.10 | 0.46 | 0.02 | 10.3 | 21.3 |
| Merklin Low Reservoir | 28-Mar-18 | 10:20 | 333 | 8.45 | 0.09 | 0.60 | 0.01 | 9.3 | 23.9 |
| Merklin Reservoir (New) | 28-Mar-18 | 10:35 | 325 | 8.47 | 0.10 | 0.63 | 0.02 | 9.8 | 22.4 |
| Oxford Reservoir | 28-Mar-18 | 11:10 | 269 | 8.41 | 0.10 | 0.60 | 0.02 | 10.3 | 20.6 |
| April Week 1 | | | | | | | | | |
| Everall St. Sampling Station | 3-Apr-18 | 9:00 | 267 | 8.02 | 0.14 | 0.62 | 0.02 | 9.6 | 17.1 |
| Malabar Sampling Station | 3-Apr-18 | 9:15 | 266 | 8.33 | 0.15 | 0.55 | 0.02 | 8.9 | 17.3 |
| Marine Dr Sample Station | 3-Apr-18 | 9:45 | 265 | 8.33 | 0.19 | 0.49 | 0.02 | 8.7 | 17.6 |
| Russell Ave. Sample Station | 3-Apr-18 | 10:00 | 315 | 8.39 | 0.14 | 0.59 | 0.04 | 9.5 | 17.8 |
| Roper Reservoir | 3-Apr-18 | 10:15 | 291 | 8.38 | 0.14 | 0.43 | 0.00 | 9.1 | 17.4 |
| Roper PRV | 3-Apr-18 | 10:15 | 307 | 8.44 | 0.13 | 0.61 | 0.02 | 9.8 | 17.3 |
| Roper Ave. Sample Station | 4-Apr-18 | 7:35 | 320 | 8.30 | 0.11 | 0.56 | 0.03 | 9.8 | 18.0 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|-----------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Finlay St. Sampling Station | 4-Apr-18 | 7:50 | 290 | 8.30 | 0.11 | 0.57 | 0.02 | 9.7 | 18.0 |
| Stayte Sampling Station | 4-Apr-18 | 8:05 | 391 | 8.39 | 0.12 | 0.43 | 0.02 | 9.8 | 17.9 |
| Balsam & Marine | 4-Apr-18 | 8:20 | 384 | 8.27 | 0.13 | 0.60 | 0.02 | 9.8 | 17.9 |
| Oxford St. & Buena Vista STN | 4-Apr-18 | 8:30 | 299 | 8.38 | 0.14 | 0.47 | 0.03 | 9.4 | 10.2 |
| Merklin Low Reservoir | 4-Apr-18 | 8:45 | 317 | 8.40 | 0.11 | 0.56 | 0.04 | 9.1 | 12.3 |
| Merklin Reservoir (New) | 4-Apr-18 | 7:20 | 327 | 8.43 | 0.12 | 0.59 | 0.04 | 9.6 | 10.1 |
| Oxford Reservoir | 4-Apr-18 | 9:00 | 270 | 8.40 | 0.18 | 0.60 | 0.02 | 10.0 | 12.0 |
| April Week 2 (WITH METALS) | | | | | | | | | |
| Everall St. Sampling Station | 10-Apr-18 | 8:30 | 267 | 8.19 | 0.12 | 0.61 | 0.03 | 9.3 | 18.9 |
| Mann Park Sample Station | 10-Apr-18 | 8:45 | 263 | 8.22 | 0.15 | 0.56 | 0.03 | 9.5 | 18.8 |
| Marine Dr Sample Station | 10-Apr-18 | 9:00 | 263 | 8.26 | 0.15 | 0.41 | 0.03 | 9.6 | 18.8 |
| Russell Ave. Sample Station | 10-Apr-18 | 9:15 | 315 | 8.30 | 0.12 | 0.61 | 0.04 | 9.7 | 18.8 |
| Roper Reservoir | 10-Apr-18 | 9:30 | 308 | 8.39 | 0.20 | 0.46 | 0.01 | 9.4 | 18.8 |
| Roper PRV | 10-Apr-18 | 9:30 | 307 | 8.41 | 0.14 | 0.60 | 0.03 | 9.7 | 18.8 |
| Stevens Sample Station | 10-Apr-18 | 9:45 | 290 | 8.44 | 0.17 | 0.57 | 0.05 | 10.4 | 18.8 |
| Finlay St. Sampling Station | 10-Apr-18 | 10:00 | 286 | 8.43 | 0.11 | 0.57 | 0.03 | 10.7 | 18.8 |
| Stayte Sampling Station | 10-Apr-18 | 10:15 | 293 | 8.42 | 0.21 | 0.41 | 0.03 | 10.3 | 18.8 |
| Balsam & Marine | 10-Apr-18 | 10:30 | 296 | 8.46 | 0.12 | 0.59 | 0.02 | 10.5 | 18.8 |
| Oxford St. & Buena Vista STN | 10-Apr-18 | 10:45 | 284 | 8.45 | 0.10 | 0.40 | 0.03 | 9.6 | 18.7 |
| Merklin Low Reservoir | 10-Apr-18 | 11:00 | 317 | 8.51 | 0.07 | 0.57 | 0.02 | 9.5 | 18.8 |
| Merklin Reservoir (New) | 10-Apr-18 | 11:15 | 315 | 8.49 | 0.15 | 0.59 | 0.03 | 9.6 | 18.8 |
| Oxford Reservoir | 10-Apr-18 | 11:30 | 267 | 8.52 | 0.18 | 0.61 | 0.02 | 9.2 | 18.8 |
| April Week 3 (W/O METALS) | | | | | | | | | |
| Everall St. Sampling Station | 17-Apr-18 | 9:15 | 352 | 8.20 | 0.15 | 0.66 | 0.02 | 9.7 | 17.4 |
| Malabar Sampling Station | 17-Apr-18 | 9:30 | 255 | 8.19 | 0.11 | 0.65 | 0.02 | 10.7 | 18.0 |
| Marine Dr Sample Station | 17-Apr-18 | 9:45 | 262 | 8.36 | 0.18 | 0.50 | 0.01 | 10.3 | 18.8 |
| Russell Ave. Sample Station | 17-Apr-18 | 10:55 | 307 | 8.39 | 0.10 | 0.66 | 0.02 | 9.8 | 17.0 |
| Roper Reservoir | 17-Apr-18 | 11:20 | 312 | 8.45 | 0.16 | 0.57 | 0.02 | 9.9 | 19.5 |
| Roper PRV | 17-Apr-18 | 11:10 | 312 | 8.55 | 0.09 | 0.67 | 0.02 | 9.9 | 19.2 |
| Roper Ave. Sample Station | 17-Apr-18 | 11:45 | 311 | 8.43 | 0.12 | 0.64 | 0.03 | 10.5 | 19.2 |
| Finlay St. Sampling Station | 18-Apr-18 | 9:00 | 319 | 8.43 | 0.11 | 0.60 | 0.02 | 11.1 | 19.3 |
| Stayte Sampling Station | 18-Apr-18 | 9:20 | 297 | 8.39 | 0.18 | 0.41 | 0.02 | 10.8 | 18.4 |
| Balsam & Marine | 18-Apr-18 | 9:35 | 297 | 8.41 | 0.12 | 0.60 | 0.03 | 10.6 | 19.2 |
| Oxford St. & Buena Vista STN | 18-Apr-18 | 9:55 | 297 | 8.37 | 0.11 | 0.44 | 0.02 | 11.2 | 19.4 |
| Merklin Low Reservoir | 18-Apr-18 | 10:30 | 314 | 8.42 | 0.09 | 0.60 | 0.02 | 9.5 | 18.7 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Merklin Reservoir (New) | 18-Apr-18 | 10:55 | 315 | 8.43 | 0.08 | 0.67 | 0.02 | 9.9 | 18.8 |
| Oxford Reservoir | 18-Apr-18 | 11:20 | 250 | 8.47 | 0.09 | 0.69 | 0.02 | 10.0 | 18.2 |
| April Week 4 (WITH METALS) | | | | | | | | | |
| Everall St. Sampling Station | 24-Apr-18 | 8:45 | 282 | 8.45 | 0.12 | 0.59 | 0.03 | 10.2 | 25.8 |
| Malabar Sampling Station | 24-Apr-18 | 9:00 | 277 | 8.33 | 0.15 | 0.55 | 0.03 | 11.3 | 25.3 |
| Marine Dr Sample Station | 24-Apr-18 | 9:25 | 267 | 8.34 | 0.16 | 0.48 | 0.04 | 12.5 | 19.4 |
| Russell Ave. Sample Station | 24-Apr-18 | 9:40 | 306 | 8.54 | 0.11 | 0.67 | 0.02 | 10.1 | 18.6 |
| Roper Reservoir | 24-Apr-18 | 10:05 | 312 | 8.53 | 0.17 | 0.48 | 0.03 | 10.4 | 20.7 |
| Roper PRV | 24-Apr-18 | 9:55 | 306 | 8.51 | 0.09 | 0.66 | 0.03 | 10.5 | 18.6 |
| Roper Ave. Sample Station | 24-Apr-18 | 10:40 | 321 | 8.50 | 0.11 | 0.61 | 0.05 | 12.1 | 21.7 |
| Finlay St. Sampling Station | 24-Apr-18 | 10:55 | 307 | 8.50 | 0.10 | 0.63 | 0.06 | 12.3 | 19.8 |
| Stayte Sampling Station | 24-Apr-18 | 11:05 | 311 | 8.47 | 0.16 | 0.44 | 0.03 | 11.9 | 21.8 |
| Balsam & Marine | 24-Apr-18 | 11:20 | 305 | 8.52 | 0.12 | 0.56 | 0.04 | 11.6 | 21.6 |
| Oxford St. & Buena Vista STN | 24-Apr-18 | 11:40 | 299 | 8.47 | 0.13 | 0.39 | 0.03 | 12.1 | 20.7 |
| Merklin Low Reservoir | 25-Apr-18 | 9:55 | 316 | 8.30 | 0.13 | 0.59 | 0.02 | 10.6 | 22.3 |
| Merklin Reservoir (New) | 25-Apr-18 | 10:35 | 316 | 8.34 | 0.10 | 0.67 | 0.03 | 9.8 | 22.7 |
| Oxford Reservoir | 25-Apr-18 | 11:30 | 279 | 8.23 | 0.12 | 0.55 | 0.03 | 10.3 | 22.7 |
| May Week 1 (WITHOUT METALS) | | | | | | | | | |
| Everall St. Sampling Station | 1-May-18 | 9:05 | 284 | 8.30 | 0.10 | 0.58 | 0.02 | 10.0 | 23.5 |
| Mann Park Sample Station | 1-May-18 | 9:20 | 283 | 8.30 | 0.12 | 0.51 | 0.02 | 11.8 | 24.1 |
| Marine Dr Sample Station | 1-May-18 | 9:40 | 286 | 8.35 | 0.18 | 0.27 | 0.02 | 12.5 | 23.0 |
| Russell Ave. Sample Station | 1-May-18 | 10:00 | 319 | 8.48 | 0.09 | 0.64 | 0.02 | 10.0 | 22.7 |
| Roper Reservoir | 1-May-18 | 10:45 | 316 | 8.52 | 0.17 | 0.48 | 0.03 | 10.8 | 24.3 |
| Roper PRV | 1-May-18 | 10:35 | 315 | 8.53 | 0.09 | 0.65 | 0.02 | 10.2 | 22.8 |
| Stevens Sample Station | 1-May-18 | 11:05 | 318 | 8.50 | 0.10 | 0.64 | 0.03 | 11.4 | 23.8 |
| Finlay St. Sampling Station | 2-May-18 | 9:20 | 317 | 8.41 | 0.11 | 0.60 | 0.05 | 13.6 | 24.6 |
| Stayte Sampling Station | 2-May-18 | 9:40 | 309 | 8.40 | 0.18 | 0.34 | 0.03 | 13.1 | 23.4 |
| Balsam & Marine | 2-May-18 | 10:00 | 315 | 8.46 | 0.12 | 0.57 | 0.04 | 12.1 | 23.1 |
| Oxford St. & Buena Vista STN | 2-May-18 | 11:40 | 311 | 8.44 | 0.11 | 0.42 | 0.02 | 12.9 | 24.4 |
| Merklin Low Reservoir | 2-May-18 | 10:35 | 325 | 8.54 | 0.13 | 0.55 | 0.04 | 9.7 | 25.1 |
| Merklin Reservoir (New) | 2-May-18 | 10:50 | 323 | 8.54 | 0.10 | 0.65 | 0.02 | 9.8 | 24.3 |
| Oxford Reservoir | 2-May-18 | 11:15 | 285 | 8.41 | 0.11 | 0.56 | 0.04 | 10.4 | 23.8 |
| May Week 2 (WITH METALS) | | | | | | | | | |
| Everall St. Sampling Station | 8-May-18 | 8:50 | 275 | 8.20 | 0.16 | 0.61 | 0.06 | 10.1 | 23.1 |
| Mann Park Sample Station | 8-May-18 | 9:00 | 279 | 8.26 | 0.12 | 0.52 | 0.04 | 12.5 | 24.1 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------------|---------------------|-------------|---------------------|-----------|------------------|-----------------|----------------|--------------------|---------------------|
| Marine Dr Sample Station | 8-May-18 | 9:15 | 278 | 8.28 | 0.19 | 0.44 | 0.00 | 13.9 | 22.9 |
| Russell Ave. Sample Station | 8-May-18 | 10:40 | 316 | 8.45 | 0.11 | 0.64 | 0.05 | 10.6 | 23.1 |
| Roper Reservoir | 8-May-18 | 11:00 | 310 | 8.55 | 0.24 | 0.43 | 0.04 | 11.6 | 22.9 |
| Roper PRV | 8-May-18 | 10:50 | 318 | 8.48 | 0.26 | 0.63 | 0.00 | 10.8 | 23.1 |
| Stevens Sample Station | 8-May-18 | 9:35 | 315 | 8.54 | 0.11 | 0.64 | 0.05 | 12.1 | 23.4 |
| Finlay St. Sampling Station | 8-May-18 | 9:45 | 314 | 8.51 | 0.10 | 0.65 | 0.05 | 13.9 | 23.7 |
| Stayte Sampling Station | 8-May-18 | 11:15 | 305 | 8.46 | 0.14 | 0.40 | 0.05 | 14.2 | 24.6 |
| Balsam & Marine | 8-May-18 | 11:25 | 299 | 8.49 | 0.15 | 0.58 | 0.05 | 13.2 | 24.8 |
| Oxford St. & Buena Vista STN | 8-May-18 | 11:40 | 294 | 8.45 | 0.14 | 0.43 | 0.04 | 14.1 | 24.4 |
| Merklin Low Reservoir | 9-May-18 | 9:05 | 313 | 8.44 | 0.17 | 0.52 | 0.02 | 9.8 | 19.3 |
| Merklin Reservoir (New) | 9-May-18 | 9:20 | 312 | 8.51 | 0.16 | 0.65 | 0.02 | 10.0 | 18.6 |
| Oxford Reservoir | 9-May-18 | 9:50 | 274 | 8.42 | 0.11 | 0.57 | 0.03 | 10.3 | 19.8 |
| May Week 3 (WITHOUT METALS) | | | | | | | | | |
| Everall St. Sampling Station | 15-May-18 | 8:35 | 289 | 8.47 | 0.17 | 0.59 | 0.05 | 10.4 | 29.2 |
| Malabar Sampling Station | 15-May-18 | 8:55 | 291 | 8.31 | 0.12 | 0.53 | 0.04 | 12.9 | 30.3 |
| Marine Dr Sample Station | 15-May-18 | 9:10 | 285 | 8.33 | 0.13 | 0.41 | 0.04 | 17.6 | 29.3 |
| Russell Ave. Sample Station | 15-May-18 | 9:25 | 309 | 8.46 | 0.10 | 0.62 | 0.04 | 10.8 | 29.4 |
| Roper Reservoir | 15-May-18 | 9:45 | 304 | 8.50 | 0.15 | 0.51 | 0.06 | 13.8 | 29.4 |
| Roper PRV | 15-May-18 | 9:35 | 302 | 7.88 | 0.12 | 0.65 | 0.04 | 11.2 | 28.3 |
| Roper Ave. Sample Station | 15-May-18 | 10:30 | 298 | 8.54 | 0.12 | 0.61 | 0.07 | 15.0 | 24.2 |
| Finlay St. Sampling Station | 15-May-18 | 10:45 | 304 | 8.52 | 0.16 | 0.63 | 0.07 | 14.6 | 24.5 |
| Stayte Sampling Station | 16-May-18 | 9:10 | 303 | 8.51 | 0.20 | 0.35 | 0.02 | 15.8 | 25.1 |
| Balsam & Marine | 16-May-18 | 9:25 | 305 | 8.28 | 0.16 | 0.55 | 0.03 | 13.6 | 23.4 |
| Oxford St. & Buena Vista STN | 16-May-18 | 9:50 | 301 | 8.57 | 0.47 | 0.49 | 0.06 | 14.7 | 23.0 |
| Merklin Low Reservoir | 16-May-18 | 10:30 | 302 | 8.66 | 0.12 | 0.59 | 0.02 | 10.0 | 21.5 |
| Merklin Reservoir (New) | 16-May-18 | 10:45 | 307 | 8.64 | 0.12 | 0.63 | 0.02 | 9.9 | 22.2 |
| Oxford Reservoir | 16-May-18 | 11:10 | 287 | 8.47 | 0.10 | 0.57 | 0.03 | 10.6 | 22.7 |
| May Week 4 (WITH METALS) | | | | | | | | | |
| Everall St. Sampling Station | 22-May-18 | 9:15 | 279 | 8.26 | 0.16 | 0.60 | 0.04 | 10.0 | 27.6 |
| Malabar Sampling Station | 22-May-18 | 9:30 | 289 | 8.24 | 0.13 | 0.54 | 0.04 | 15.0 | 29.0 |
| Marine Dr Sample Station | 22-May-18 | 9:55 | 284 | 8.28 | 0.14 | 0.41 | 0.04 | 17.5 | 26.8 |
| Russell Ave. Sample Station | 22-May-18 | 10:40 | 316 | 8.43 | 0.13 | 0.69 | 0.04 | 10.6 | 27.7 |
| Roper Reservoir | 22-May-18 | 11:00 | 307 | 8.45 | 0.17 | 0.51 | 0.03 | 12.5 | 28.9 |
| Roper PRV | 22-May-18 | 10:55 | 317 | 8.46 | 0.12 | 0.65 | 0.02 | 10.7 | 29.0 |
| Roper Ave. Sample Station | 22-May-18 | 11:30 | 316 | 8.46 | 0.11 | 0.64 | 0.05 | 14.8 | 28.8 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Finlay St. Sampling Station | 23-May-18 | 8:58 | 309 | 8.43 | 0.12 | 0.65 | 0.04 | 14.8 | 22.5 |
| Stayte Sampling Station | 23-May-18 | 9:15 | 302 | 8.36 | 0.22 | 0.36 | 0.03 | 17.3 | 23.0 |
| Balsam & Marine | 23-May-18 | 9:35 | 307 | 8.41 | 0.24 | 0.59 | 0.05 | 14.6 | 22.8 |
| Oxford St. & Buena Vista STN | 23-May-18 | 9:55 | 303 | 8.41 | 0.21 | 0.44 | 0.04 | 15.7 | 22.8 |
| Merklin Low Reservoir | 23-May-18 | 10:30 | 312 | 8.51 | 0.13 | 0.60 | 0.03 | 10.5 | 22.4 |
| Merklin Reservoir (New) | 23-May-18 | 10:50 | 310 | 8.50 | 0.13 | 0.69 | 0.03 | 10.1 | 21.7 |
| Oxford Reservoir | 23-May-18 | 11:25 | 281 | 8.40 | 0.11 | 0.58 | 0.04 | 10.5 | 22.3 |

May Week 5 (WITHOUT METALS)

| | | | | | | | | | |
|------------------------------|-----------|-------|-----|------|------|------|------|------|------|
| Everall St. Sampling Station | 29-May-18 | 8:25 | 291 | 8.54 | 0.12 | 0.59 | 0.05 | 10.1 | 23.7 |
| Mann Park Sample Station | 29-May-18 | 8:45 | 290 | 8.37 | 0.13 | 0.51 | 0.03 | 13.2 | 25.7 |
| Marine Dr Sample Station | 29-May-18 | 9:00 | 287 | 8.44 | 0.16 | 0.45 | 0.03 | 17.2 | 25.5 |
| Russell Ave. Sample Station | 29-May-18 | 9:20 | 315 | 8.59 | 0.15 | 0.66 | 0.03 | 10.7 | 27.7 |
| Roper Reservoir | 29-May-18 | 9:28 | 299 | 8.62 | 0.19 | 0.48 | 0.03 | 12.9 | 25.7 |
| Roper PRV | 29-May-18 | 9:35 | 311 | 8.61 | 0.15 | 0.63 | 0.04 | 10.9 | 26.0 |
| Stevens Sample Station | 29-May-18 | 9:55 | 315 | 8.60 | 0.14 | 0.66 | 0.04 | 12.4 | 27.0 |
| Finlay St. Sampling Station | 30-May-18 | 7:40 | 309 | 8.39 | 0.16 | 0.60 | 0.02 | 16.3 | 18.1 |
| Stayte Sampling Station | 30-May-18 | 8:10 | 296 | 8.39 | 0.19 | 0.35 | 0.04 | 17.9 | 18.2 |
| Balsam & Marine | 30-May-18 | 8:30 | 305 | 8.45 | 0.16 | 0.58 | 0.04 | 14.2 | 18.4 |
| Oxford St. & Buena Vista STN | 30-May-18 | 8:45 | 296 | 8.43 | 0.15 | 0.44 | 0.02 | 16.1 | 18.3 |
| Merklin Low Reservoir | 30-May-18 | 9:00 | 308 | 8.56 | 0.12 | 0.55 | 0.02 | 10.5 | 18.0 |
| Merklin Reservoir (New) | 30-May-18 | 9:15 | 309 | 8.56 | 0.12 | 0.67 | 0.02 | 10.0 | 18.0 |
| Oxford Reservoir | 30-May-18 | 10:55 | 275 | 8.53 | 0.11 | 0.59 | 0.02 | 10.3 | 18.1 |

June Week 1 (WITH METALS)

| | | | | | | | | | |
|------------------------------|----------|-------|-----|------|------|------|------|------|------|
| Everall St. Sampling Station | 5-Jun-18 | 8:35 | 282 | 8.51 | 0.11 | 0.60 | 0.04 | 10.4 | 19.6 |
| Mann Park Sample Station | 5-Jun-18 | 8:45 | 288 | 8.37 | 0.15 | 0.48 | 0.05 | 14.6 | 21.8 |
| Marine Dr Sample Station | 5-Jun-18 | 8:55 | 281 | 8.37 | 0.15 | 0.41 | 0.02 | 18.0 | 20.8 |
| Russell Ave. Sample Station | 5-Jun-18 | 9:10 | 308 | 8.55 | 0.12 | 0.63 | 0.03 | 10.8 | 20.4 |
| Roper Reservoir | 5-Jun-18 | 9:25 | 309 | 8.43 | 0.18 | 0.54 | 0.04 | 12.7 | 23.2 |
| Roper PRV | 5-Jun-18 | 9:20 | 302 | 8.55 | 0.12 | 0.68 | 0.03 | 10.9 | 18.7 |
| Stevens Sample Station | 5-Jun-18 | 9:38 | 309 | 8.58 | 0.12 | 0.63 | 0.03 | 12.5 | 19.1 |
| Finlay St. Sampling Station | 5-Jun-18 | 9:50 | 310 | 8.57 | 0.11 | 0.60 | 0.03 | 16.8 | 19.5 |
| Stayte Sampling Station | 5-Jun-18 | 10:52 | 303 | 8.48 | 0.18 | 0.36 | 0.04 | 18.0 | 23.0 |
| Balsam & Marine | 5-Jun-18 | 11:02 | 303 | 8.62 | 0.14 | 0.57 | 0.04 | 14.3 | 21.8 |
| Oxford St. & Buena Vista STN | 5-Jun-18 | 11:15 | 294 | 8.56 | 0.13 | 0.40 | 0.04 | 16.3 | 19.4 |
| Merklin Low Reservoir | 5-Jun-18 | 10:25 | 307 | 8.63 | 0.14 | 0.59 | 0.03 | 10.5 | 19.4 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|----------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Merklin Reservoir (New) | 1-Jun-56 | 10:38 | 305 | 8.63 | 0.14 | 0.62 | 0.04 | 10.1 | 18.4 |
| Oxford Reservoir | 5-Jun-18 | 11:30 | 278 | 8.49 | 0.12 | 0.54 | 0.03 | 10.9 | 17.8 |
| June Week 2 | | | | | | | | | |
| Overall St. Sampling Station | 12-Jun-18 | 9:15 | 284 | 8.16 | 0.12 | 0.57 | 0.02 | 10.5 | 22.5 |
| Malabar Sampling Station | 12-Jun-18 | 9:30 | 290 | 8.20 | 0.11 | 0.55 | 0.03 | 13.3 | 23.5 |
| Chestnut & N. Bluff Sample STN | 12-Jun-18 | 9:50 | 290 | 8.18 | 0.14 | 0.36 | 0.02 | 18.2 | 23.6 |
| Russell Ave. Sample Station | 12-Jun-18 | 10:55 | 314 | 8.41 | 0.11 | 0.65 | 0.02 | 11.2 | 23.4 |
| Roper Reservoir | 12-Jun-18 | 11:25 | 309 | 8.40 | 0.17 | 0.50 | 0.02 | 12.3 | 23.2 |
| Roper PRV | 12-Jun-18 | 11:15 | 314 | 8.40 | 0.12 | 0.64 | 0.04 | 11.1 | 22.8 |
| Roper Ave. Sample Station | 12-Jun-18 | 11:45 | 315 | 8.43 | 0.13 | 0.61 | 0.03 | 16.2 | 22.9 |
| Finlay St. Sampling Station | 13-Jun-18 | 8:45 | 315 | 8.41 | 0.14 | 0.61 | 0.03 | 16.0 | 23.5 |
| Stayte Sampling Station | 13-Jun-18 | 9:10 | 303 | 8.36 | 0.17 | 0.34 | 0.03 | 16.9 | 23.2 |
| Balsam & Marine | 13-Jun-18 | 9:35 | 309 | 8.45 | 0.16 | 0.57 | 0.03 | 13.4 | 22.8 |
| Oxford St. & Buena Vista STN | 13-Jun-18 | 9:55 | 308 | 8.45 | 0.14 | 0.39 | 0.02 | 14.9 | 22.9 |
| Merklin Low Reservoir | 13-Jun-18 | 10:35 | 312 | 8.54 | 0.15 | 0.62 | 0.04 | 10.3 | 22.2 |
| Merklin Reservoir (New) | 13-Jun-18 | 10:50 | 316 | 8.52 | 0.12 | 0.67 | 0.02 | 9.7 | 22.7 |
| Oxford Reservoir | 13-Jun-18 | 11:20 | 284 | 8.46 | 0.12 | 0.54 | 0.03 | 10.1 | 21.9 |
| June Week 3 | | | | | | | | | |
| Overall St. Sampling Station | 19-Jun-18 | 8:40 | 289 | 8.25 | 0.18 | 0.58 | 0.06 | 10.3 | 23.8 |
| Mann Park Sample Station | 19-Jun-18 | 9:00 | 284 | 8.22 | 0.21 | 0.52 | 0.05 | 14.2 | 24.5 |
| Chestnut & N. Bluff Sample STN | 19-Jun-18 | 9:20 | 282 | 8.21 | 0.15 | 0.45 | 0.05 | 18.6 | 24.9 |
| Russell Ave. Sample Station | 19-Jun-18 | 9:40 | 310 | 8.39 | 0.14 | 0.69 | 0.05 | 10.9 | 24.2 |
| Roper Reservoir | 19-Jun-18 | 9:50 | 307 | 8.44 | 0.22 | 0.49 | 0.01 | 13.6 | 24.5 |
| Roper PRV | 19-Jun-18 | 10:00 | 309 | 8.44 | 0.20 | 0.60 | 0.00 | 11.1 | 24.0 |
| Roper Ave. Sample Station | 19-Jun-18 | 10:40 | 312 | 8.45 | 0.14 | 0.66 | 0.04 | 16.4 | 24.2 |
| Finlay St. Sampling Station | 19-Jun-18 | 10:55 | 311 | 8.46 | 0.15 | 0.66 | 0.05 | 16.0 | 24.1 |
| Stayte Sampling Station | 20-Jun-18 | 8:40 | 308 | 8.44 | 0.20 | 0.36 | 0.03 | 18.4 | 23.1 |
| Balsam & Marine | 20-Jun-18 | 9:00 | 309 | 8.43 | 0.21 | 0.59 | 0.04 | 14.3 | 23.4 |
| Oxford St. & Buena Vista STN | 20-Jun-18 | 9:20 | 306 | 8.42 | 0.21 | 0.50 | 0.02 | 15.2 | 23.2 |
| Merklin Low Reservoir | 20-Jun-18 | 9:35 | 309 | 8.52 | 0.13 | 0.61 | 0.02 | 10.8 | 22.6 |
| Merklin Reservoir (New) | 20-Jun-18 | 9:45 | 310 | 8.50 | 0.12 | 0.64 | 0.01 | 10.3 | 22.4 |
| Oxford Reservoir | 20-Jun-18 | 10:30 | 277 | 8.48 | 0.12 | 0.49 | 0.00 | 10.8 | 22.2 |
| June Week 4 (WITH METALS) | | | | | | | | | |
| Overall St. Sampling Station | 26-Jun-18 | 8:30 | 282 | 8.41 | 0.14 | 0.52 | 0.02 | 10.0 | 21.7 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Malabar Sampling Station | 26-Jun-18 | 8:55 | 285 | 8.27 | 0.13 | 0.53 | 0.05 | 14.6 | 22.2 |
| Chestnut & N. Bluff Sample STN | 26-Jun-18 | 9:15 | 279 | 8.27 | 0.16 | 0.34 | 0.05 | 19.5 | 22.0 |
| Russell Ave. Sample Station | 26-Jun-18 | 9:30 | 307 | 8.48 | 0.16 | 0.65 | 0.03 | 11.1 | 21.0 |
| Roper Reservoir | 26-Jun-18 | 9:45 | 305 | 8.42 | 0.22 | 0.54 | 0.05 | 13.0 | 21.6 |
| Roper PRV | 26-Jun-18 | 9:55 | 310 | 8.46 | 0.15 | 0.67 | 0.04 | 11.2 | 22.0 |
| Roper Ave. Sample Station | 26-Jun-18 | 10:40 | 313 | 8.44 | 0.17 | 0.61 | 0.02 | 16.6 | 22.5 |
| Finlay St. Sampling Station | 26-Jun-18 | 11:00 | 312 | 8.47 | 0.16 | 0.73 | 0.04 | 16.1 | 22.5 |
| Stayte Sampling Station | 27-Jun-18 | 8:40 | 298 | 8.51 | 0.19 | 0.34 | 0.06 | 18.5 | 20.6 |
| Balsam & Marine | 27-Jun-18 | 8:55 | 307 | 8.48 | 0.15 | 0.59 | 0.03 | 14.2 | 20.7 |
| Oxford St. & Buena Vista STN | 27-Jun-18 | 9:10 | 305 | 8.47 | 0.17 | 0.45 | 0.05 | 15.6 | 20.7 |
| Merklin Low Reservoir | 27-Jun-18 | 9:30 | 305 | 8.53 | 0.15 | 0.58 | 0.02 | 10.6 | 19.0 |
| Merklin Reservoir (New) | 27-Jun-18 | 9:40 | 308 | 8.54 | 0.15 | 0.67 | 0.04 | 9.9 | 18.4 |
| Oxford Reservoir | 27-Jun-18 | 10:00 | 278 | 8.50 | 0.13 | 0.54 | 0.05 | 10.7 | 18.3 |
| July Week 1 | | | | | | | | | |
| Overall St. Sampling Station | 3-Jul-18 | 10:30 | 283 | 8.12 | 0.19 | 0.51 | 0.02 | 11.0 | 21.4 |
| Malabar Sampling Station | 3-Jul-18 | 10:45 | 276 | 8.58 | 0.14 | 0.47 | 0.04 | 15.3 | 21.2 |
| Chestnut & N. Bluff Sample STN | 3-Jul-18 | 11:00 | 276 | 8.51 | 0.19 | 0.29 | 0.04 | 19.5 | 21.3 |
| Russell Ave. Sample Station | 3-Jul-18 | 11:15 | 311 | 8.72 | 0.16 | 0.58 | 0.04 | 11.3 | 21.3 |
| Roper Reservoir | 3-Jul-18 | 11:30 | 302 | 8.64 | 0.17 | 0.48 | 0.04 | 12.9 | 21.3 |
| Roper PRV | 3-Jul-18 | 11:30 | 308 | 8.62 | 0.11 | 0.59 | 0.04 | 11.1 | 21.3 |
| Roper Ave. Sample Station | 3-Jul-18 | 11:45 | 312 | 8.13 | 0.12 | 0.55 | 0.04 | 17.4 | 21.3 |
| Finlay St. Sampling Station | 4-Jul-18 | 8:00 | 311 | 8.63 | 0.09 | 0.58 | 0.03 | | 22.3 |
| Stayte Sampling Station | 4-Jul-18 | 8:15 | 295 | 8.40 | 0.15 | 0.32 | 0.03 | | 22.3 |
| Balsam & Marine | 4-Jul-18 | 8:30 | 299 | 8.63 | 0.16 | 0.49 | 0.02 | | 22.2 |
| Oxford St. & Buena Vista STN | 4-Jul-18 | 8:45 | 297 | 8.62 | 0.13 | 0.43 | 0.02 | | 21.9 |
| Merklin Low Reservoir | 4-Jul-18 | 9:30 | 311 | 8.57 | 0.16 | 0.51 | 0.05 | 10.7 | 21.5 |
| Merklin Reservoir (New) | 4-Jul-18 | 9:15 | 312 | 8.13 | 0.09 | 0.62 | 0.05 | 10.0 | 21.4 |
| Oxford Reservoir | 4-Jul-18 | 9:00 | 279 | 8.65 | 0.12 | 0.53 | 0.04 | | 22.0 |
| July Week 2 | | | | | | | | | |
| Overall St. Sampling Station | 10-Jul-18 | 7:35 | 289 | 8.31 | 0.16 | 0.60 | 0.03 | 10.3 | 25.7 |
| Mann Park Sample Station | 10-Jul-18 | 7:50 | 285 | 8.30 | 0.16 | 0.55 | 0.03 | 15.3 | 27.2 |
| Marine Dr Sample Station | 10-Jul-18 | 8:05 | 284 | 8.36 | 0.20 | 0.40 | 0.04 | 18.8 | 24.9 |
| Russell Ave. Sample Station | 10-Jul-18 | 8:25 | 317 | 8.48 | 0.16 | 0.65 | 0.02 | 11.1 | 25.3 |
| Roper Reservoir | 10-Jul-18 | 9:15 | 307 | 8.51 | 0.20 | 0.52 | 0.02 | 13.3 | 24.5 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Roper PRV | 10-Jul-18 | 9:05 | 312 | 8.51 | 0.15 | 0.66 | 0.03 | 11.1 | 23.9 |
| Stevens Sample Station | 10-Jul-18 | 8:40 | 319 | 8.56 | 0.14 | 0.66 | 0.02 | 12.8 | 24.4 |
| Finlay St. Sampling Station | 11-Jul-18 | 7:50 | 317 | 8.43 | 0.17 | 0.63 | 0.05 | 16.6 | 25.9 |
| Stayte Sampling Station | 11-Jul-18 | 8:10 | 302 | 8.39 | 0.22 | 0.36 | 0.04 | 18.8 | 26.5 |
| Balsam & Marine | 11-Jul-18 | 8:35 | 313 | 8.44 | 0.16 | 0.59 | 0.07 | 14.2 | 26.7 |
| Oxford St. & Buena Vista STN | 11-Jul-18 | 8:50 | 305 | 8.43 | 0.16 | 0.46 | 0.03 | 15.7 | 26.0 |
| Merklin Low Reservoir | 11-Jul-18 | 9:15 | 316 | 8.52 | 0.15 | 0.56 | 0.03 | 10.9 | 25.7 |
| Merklin Reservoir (New) | 11-Jul-18 | 9:30 | 317 | 8.52 | 0.14 | 0.62 | 0.04 | 9.9 | 25.6 |
| Oxford Reservoir | 11-Jul-18 | 10:50 | 283 | 8.44 | 0.15 | 0.57 | 0.03 | 10.6 | 25.7 |
| July Week 3 | | | | | | | | | |
| Everall St. Sampling Station | 17-Jul-18 | 7:40 | 284 | 8.26 | 0.19 | 0.60 | 0.03 | 10.4 | 25.8 |
| Malabar Sampling Station | 17-Jul-18 | 8:00 | 279 | 8.30 | 0.13 | 0.55 | 0.03 | 16.5 | 25.3 |
| Chestnut & N. Bluff Sample STN | 17-Jul-18 | 8:20 | 280 | 8.31 | 0.11 | 0.44 | 0.03 | 20.1 | 25.5 |
| Russell Ave. Sample Station | 17-Jul-18 | 8:40 | 318 | 8.46 | 0.09 | 0.64 | 0.07 | 10.9 | 25.8 |
| Roper Reservoir | 17-Jul-18 | 10:55 | 311 | 8.50 | 0.15 | 0.53 | 0.03 | 13.2 | 25.5 |
| Roper PRV | 17-Jul-18 | 10:45 | 316 | 8.52 | 0.08 | 0.63 | 0.02 | 11.1 | 25.3 |
| Roper Ave. Sample Station | 17-Jul-18 | 11:20 | 318 | 8.54 | 0.07 | 0.69 | 0.06 | 16.8 | 25.3 |
| Finlay St. Sampling Station | 18-Jul-18 | 8:00 | 317 | 8.40 | 0.09 | 0.63 | 0.04 | 15.5 | 25.1 |
| Stayte Sampling Station | 18-Jul-18 | 8:20 | 302 | 8.34 | 0.16 | 0.33 | 0.03 | 19.7 | 25.4 |
| Balsam & Marine | 18-Jul-18 | 9:25 | 311 | 8.44 | 0.12 | 0.59 | 0.03 | 14.5 | 25.3 |
| Oxford St. & Buena Vista STN | 18-Jul-18 | 9:45 | 311 | 8.47 | 0.16 | 0.49 | 0.04 | 16.0 | 24.9 |
| Merklin Low Reservoir | 18-Jul-18 | 10:30 | 316 | 8.51 | 0.09 | 0.58 | 0.02 | 10.9 | 24.7 |
| Merklin Reservoir (New) | 18-Jul-18 | 10:50 | 315 | 8.55 | 0.10 | 0.62 | 0.06 | 10.0 | 24.3 |
| Oxford Reservoir | 18-Jul-18 | 11:25 | 280 | 8.47 | 0.21 | 0.59 | 0.03 | 10.1 | 23.8 |
| July Week 4 | | | | | | | | | |
| Everall St. Sampling Station | 24-Jul-18 | 8:00 | 284 | 8.44 | 0.09 | 0.66 | 0.02 | 10.0 | 28.7 |
| Mann Park Sample Station | 24-Jul-18 | 8:20 | 279 | 8.32 | 0.11 | 0.63 | 0.04 | 15.6 | 29.5 |
| Marine Dr Sample Station | 24-Jul-18 | 8:40 | 274 | 8.55 | 0.14 | 0.52 | 0.04 | 19.5 | 28.0 |
| Russell Ave. Sample Station | 24-Jul-18 | 9:05 | 316 | 8.45 | 0.07 | 0.62 | 0.00 | 10.7 | 29.4 |
| Roper Reservoir | 24-Jul-18 | 9:20 | 306 | 8.49 | 0.14 | 0.60 | 0.03 | 12.6 | 28.7 |
| Roper PRV | 24-Jul-18 | 9:25 | 311 | 8.44 | 0.08 | 0.63 | 0.06 | 11.1 | 28.6 |
| Stevens Sample Station | 24-Jul-18 | 9:50 | 305 | 8.27 | 0.09 | 0.63 | 0.03 | 12.5 | 26.8 |
| Finlay St. Sampling Station | 24-Jul-18 | 10:35 | 314 | 8.53 | 0.11 | 0.64 | 0.05 | 15.2 | 28.6 |
| Stayte Sampling Station | 24-Jul-18 | 10:55 | 294 | 8.32 | 0.13 | 0.45 | 0.05 | 19.4 | 29.6 |
| Balsam & Marine | 25-Jul-18 | 9:00 | 311 | 8.52 | 0.11 | 0.65 | 0.06 | 14.1 | 24.4 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Oxford St. & Buena Vista STN | 25-Jul-18 | 9:25 | 306 | 8.37 | 0.11 | 0.52 | 0.03 | 15.4 | 24.1 |
| Merklin Low Reservoir | 25-Jul-18 | 10:25 | 310 | 8.51 | 0.11 | 0.56 | 0.02 | 11.0 | 23.9 |
| Merklin Reservoir (New) | 25-Jul-18 | 10:45 | 310 | 8.59 | 0.08 | 0.58 | 0.03 | 9.8 | 24.0 |
| Oxford Reservoir | 25-Jul-18 | 9:45 | 274 | 8.44 | 0.08 | 0.60 | 0.00 | 10.5 | 23.7 |
| July Week 5 | | | | | | | | | |
| Overall St. Sampling Station | 31-Jul-18 | 9:10 | 283 | 8.30 | 0.08 | 0.58 | 0.03 | 10.4 | 27.0 |
| Malabar Sampling Station | 31-Jul-18 | 9:25 | 286 | 8.31 | 0.10 | 0.59 | 0.04 | 17.0 | 27.2 |
| Chestnut & N. Bluff Sample STN | 31-Jul-18 | 9:40 | 284 | 8.32 | 0.11 | 0.40 | 0.05 | 24.9 | 26.5 |
| Russell Ave. Sample Station | 31-Jul-18 | 10:35 | 318 | 8.48 | 0.11 | 0.59 | 0.03 | 11.8 | 27.0 |
| Roper Reservoir | 31-Jul-18 | 11:05 | 311 | 8.52 | 0.12 | 0.55 | 0.03 | 12.9 | 26.7 |
| Roper PRV | 31-Jul-18 | 10:55 | 317 | 8.53 | 0.08 | 0.61 | 0.03 | 11.6 | 26.3 |
| Roper Ave. Sample Station | 31-Jul-18 | 11:25 | 318 | 8.54 | 0.11 | 0.60 | 0.05 | 17.8 | 26.2 |
| August Week 1 | | | | | | | | | |
| Finlay St. Sampling Station | 1-Aug-18 | 9:10 | 309 | 8.44 | 0.10 | 0.62 | 0.03 | 12.6 | 21.6 |
| Stayte Sampling Station | 1-Aug-18 | 9:25 | 296 | 8.34 | 0.14 | 0.36 | 0.04 | 20.0 | 21.9 |
| Balsam & Marine | 1-Aug-18 | 9:45 | 305 | 8.48 | 0.11 | 0.59 | 0.03 | 14.9 | 21.4 |
| Oxford St. & Buena Vista STN | 1-Aug-18 | 10:45 | 308 | 8.48 | 0.10 | 0.45 | 0.04 | 16.8 | 21.9 |
| Merklin Low Reservoir | 1-Aug-18 | 11:10 | 310 | 8.55 | 0.09 | 0.57 | 0.02 | 11.1 | 21.2 |
| Merklin Reservoir (New) | 1-Aug-18 | 11:20 | 311 | 8.59 | 0.11 | 0.65 | 0.03 | 10.0 | 21.1 |
| Oxford Reservoir | 1-Aug-18 | 11:40 | 273 | 8.52 | 0.10 | 0.58 | 0.02 | 10.5 | 20.7 |
| August Week 2 | | | | | | | | | |
| Overall St. Sampling Station | 7-Aug-18 | 8:20 | 272 | 8.23 | 0.09 | 0.62 | 0.03 | 10.2 | 25.9 |
| Mann Park Sample Station | 7-Aug-18 | 8:40 | 277 | 8.26 | 0.12 | 0.59 | 0.04 | 15.1 | 26.4 |
| Marine Dr Sample Station | 7-Aug-18 | 9:00 | 278 | 8.27 | 0.12 | 0.47 | 0.04 | 19.8 | 26.3 |
| Russell Ave. Sample Station | 7-Aug-18 | 9:30 | 317 | 8.35 | 0.07 | 0.67 | 0.04 | 11.3 | 26.1 |
| Roper Reservoir | 7-Aug-18 | 10:40 | 309 | 8.39 | 0.17 | 0.58 | 0.04 | 14.0 | 25.7 |
| Roper PRV | 7-Aug-18 | 10:30 | 317 | 8.39 | 0.13 | 0.64 | 0.03 | 11.5 | 25.6 |
| Stevens Sample Station | 7-Aug-18 | 10:10 | 315 | 8.40 | 0.09 | 0.67 | 0.04 | 13.0 | 25.1 |
| Finlay St. Sampling Station | 8-Aug-18 | 8:10 | 318 | 8.42 | 0.09 | 0.67 | 0.04 | 15.0 | 26.1 |
| Stayte Sampling Station | 8-Aug-18 | 8:27 | 296 | 8.39 | 0.12 | 0.43 | 0.04 | 19.7 | 26.6 |
| Balsam & Marine | 8-Aug-18 | 8:45 | 308 | 8.45 | 0.15 | 0.61 | 0.06 | 14.1 | 26.6 |
| Oxford St. & Buena Vista STN | 8-Aug-18 | 9:15 | 308 | 8.46 | 0.12 | 0.47 | 0.04 | 16.3 | 26.2 |
| Merklin Low Reservoir | 8-Aug-18 | 10:30 | 317 | 8.52 | 0.08 | 0.62 | 0.03 | 11.2 | 26.1 |
| Merklin Reservoir (New) | 8-Aug-18 | 10:50 | 318 | 8.53 | 0.09 | 0.63 | 0.03 | 10.1 | 25.8 |
| Oxford Reservoir | 8-Aug-18 | 9:55 | 283 | 8.44 | 0.08 | 0.57 | 0.06 | 10.3 | 26.0 |

| August Week 3 | | | | | | | | | |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
| Everall St. Sampling Station | 14-Aug-18 | 9:45 | 273 | 8.38 | 0.11 | 0.62 | 0.04 | 10.3 | 23.8 |
| Malabar Sampling Station | 14-Aug-18 | 10:00 | 273 | 8.41 | 0.09 | 0.61 | 0.04 | 13.8 | 24.9 |
| Chestnut & N. Bluff Sample STN | 14-Aug-18 | 10:40 | 278 | 8.41 | 0.17 | 0.36 | 0.05 | 20.4 | 25.3 |
| Russell Ave. Sample Station | 14-Aug-18 | 11:50 | 279 | 8.47 | 0.15 | 0.59 | 0.03 | 11.6 | 24.5 |
| Roper Reservoir | 14-Aug-18 | 11:15 | 305 | 8.57 | 0.21 | 0.53 | 0.05 | 13.6 | 25.1 |
| Roper PRV | 14-Aug-18 | | 314 | 8.59 | 0.15 | 0.63 | 0.04 | 11.5 | 24.0 |
| Roper Ave. Sample Station | 14-Aug-18 | 11:35 | 317 | 8.59 | 0.10 | 0.64 | 0.05 | 17.2 | 24.5 |
| Finlay St. Sampling Station | 15-Aug-18 | 9:30 | 317 | 8.47 | 0.18 | 0.63 | 0.04 | 16.9 | 23.7 |
| Stayte Sampling Station | 15-Aug-18 | 10:00 | 292 | 8.41 | 0.14 | 0.35 | 0.03 | 20.1 | 24.3 |
| Balsam & Marine | 15-Aug-18 | 10:30 | 303 | 8.48 | 0.17 | 0.61 | 0.05 | 14.5 | 23.1 |
| Oxford St. & Buena Vista STN | 15-Aug-18 | 10:50 | 307 | 8.49 | 0.12 | 0.45 | 0.04 | 16.4 | 22.6 |
| Merklin Low Reservoir | 15-Aug-18 | 11:10 | 316 | 8.58 | 0.16 | 0.60 | 0.02 | 11.2 | 21.5 |
| Merklin Reservoir (New) | 15-Aug-18 | 11:20 | 313 | 8.59 | 0.09 | 0.67 | 0.02 | 10.0 | 21.5 |
| Oxford Reservoir | 15-Aug-18 | 12:00 | 278 | 8.53 | 0.11 | 0.54 | 0.02 | 10.2 | 21.8 |
| August Week 4 | | | | | | | | | |
| Everall St. Sampling Station | 21-Aug-18 | 9:10 | 272 | 8.30 | 0.08 | 0.62 | 0.05 | 10.2 | 25.4 |
| Mann Park Sample Station | 21-Aug-18 | 9:25 | 276 | 8.32 | 0.09 | 0.59 | 0.04 | 15.0 | 25.6 |
| Marine Dr Sample Station | 21-Aug-18 | 9:45 | 279 | 8.36 | 0.13 | 0.48 | 0.04 | 18.8 | 26.0 |
| Russell Ave. Sample Station | 21-Aug-18 | 10:25 | 281 | 8.40 | 0.11 | 0.62 | 0.04 | 11.7 | 25.6 |
| Roper Reservoir | 21-Aug-18 | 10:55 | 304 | 8.50 | 0.18 | 0.54 | 0.05 | 13.0 | 25.4 |
| Roper PRV | 21-Aug-18 | 10:40 | 315 | 8.53 | 0.14 | 0.65 | 0.06 | 11.3 | 25.2 |
| Stevens Sample Station | 21-Aug-18 | 11:15 | 316 | 8.55 | 0.09 | 0.66 | 0.04 | 13.0 | 25.1 |
| Finlay St. Sampling Station | 22-Aug-18 | 9:15 | 315 | 8.42 | 0.11 | 0.63 | 0.04 | 15.5 | 24.7 |
| Stayte Sampling Station | 22-Aug-18 | 9:35 | 291 | 8.39 | 0.16 | 0.35 | 0.03 | 19.6 | 24.9 |
| Balsam & Marine | 22-Aug-18 | 9:50 | 306 | 8.48 | 0.15 | 0.58 | 0.04 | 14.3 | 24.9 |
| Oxford St. & Buena Vista STN | 22-Aug-18 | 11:45 | 303 | 8.46 | 0.09 | 0.43 | 0.02 | 15.9 | 24.4 |
| Merklin Low Reservoir | 22-Aug-18 | 10:40 | 313 | 8.55 | 0.09 | 0.59 | 0.05 | 11.2 | 23.8 |
| Merklin Reservoir (New) | 22-Aug-18 | 11:00 | 315 | 8.58 | 0.08 | 0.66 | 0.04 | 10.0 | 23.9 |
| Oxford Reservoir | 22-Aug-18 | 11:25 | 274 | 8.49 | 0.09 | 0.55 | 0.03 | 10.3 | 24.2 |
| August Week 5 (with Metals) | | | | | | | | | |
| Everall St. Sampling Station | 28-Aug-18 | 9:25 | 259 | 8.31 | 0.10 | 0.64 | 0.03 | 10.1 | 25.2 |
| Malabar Sampling Station | 28-Aug-18 | 9:40 | 262 | 8.36 | 0.10 | 0.64 | 0.06 | 12.5 | 25.3 |
| Chestnut & N. Bluff Sample STN | 28-Aug-18 | 10:10 | 263 | 8.32 | 0.12 | 0.37 | 0.04 | 19.7 | 24.9 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Russell Ave. Sample Station | 28-Aug-18 | 10:45 | 262 | 8.40 | 0.11 | 0.64 | 0.03 | 10.7 | 24.9 |
| Roper Reservoir | 28-Aug-18 | 11:35 | 296 | 8.43 | 0.15 | 0.52 | 0.03 | 13.0 | 24.5 |
| Roper PRV | 28-Aug-18 | | 306 | 8.46 | 0.16 | 0.60 | 0.04 | 11.2 | 24.1 |
| Roper Ave. Sample Station | 28-Aug-18 | 11:05 | 309 | 8.46 | 0.12 | 0.59 | 0.03 | 17.1 | 24.9 |
| Finlay St. Sampling Station | 29-Aug-18 | 9:25 | 308 | 8.38 | 0.10 | 0.56 | 0.02 | 16.7 | 23.9 |
| Stayte Sampling Station | 29-Aug-18 | 9:46 | 278 | 8.37 | 0.14 | 0.36 | 0.03 | 18.6 | 24.1 |
| Balsam & Marine | 29-Aug-18 | 10:35 | 301 | 8.44 | 0.08 | 0.58 | 0.06 | 14.1 | 23.9 |
| Oxford St. & Buena Vista STN | 29-Aug-18 | 10:55 | 295 | 8.46 | 0.17 | 0.40 | 0.04 | 15.7 | 23.6 |
| Merklin Low Reservoir | 29-Aug-18 | 11:15 | 314 | 8.51 | 0.10 | 0.55 | 0.03 | 13.2 | 22.6 |
| Merklin Reservoir (New) | 29-Aug-18 | 11:30 | 317 | 8.53 | 0.09 | 0.64 | 0.04 | 10.0 | 22.8 |
| Oxford Reservoir | 29-Aug-18 | 12:10 | 262 | 8.52 | 0.09 | 0.59 | 0.03 | 10.1 | 23.4 |
| September Week 1 | | | | | | | | | |
| Everall St. Sampling Station | 4-Sep-18 | 9:00 | 266 | 8.35 | 0.11 | 0.61 | 0.02 | 10.0 | 21.8 |
| Mann Park Sample Station | 4-Sep-18 | 9:20 | 268 | 8.40 | 0.11 | 0.56 | 0.04 | 14.7 | 21.7 |
| Marine Dr Sample Station | 4-Sep-18 | 9:50 | 269 | 8.43 | 0.14 | 0.42 | 0.03 | 18.1 | 22.0 |
| Russell Ave. Sample Station | 4-Sep-18 | 10:30 | 268 | 8.45 | 0.10 | 0.60 | 0.03 | 10.9 | 22.0 |
| Roper Reservoir | 4-Sep-18 | 11:40 | 293 | 8.54 | 0.15 | 0.54 | 0.03 | 12.6 | 21.8 |
| Roper PRV | 4-Sep-18 | 11:30 | 298 | 8.53 | 0.11 | 0.63 | 0.03 | 11.6 | 21.4 |
| Stevens Sample Station | 4-Sep-18 | 11:00 | 314 | 8.57 | 0.11 | 0.65 | 0.05 | 12.8 | 21.4 |
| Finlay St. Sampling Station | 5-Sep-18 | 9:25 | 304 | 8.43 | 0.13 | 0.60 | 0.05 | 16.4 | 21.9 |
| Stayte Sampling Station | 5-Sep-18 | 9:40 | 285 | 8.42 | 0.17 | 0.33 | 0.03 | 18.8 | 23.0 |
| Balsam & Marine | 5-Sep-18 | 10:35 | 302 | 8.49 | 0.11 | 0.60 | 0.04 | 13.9 | 22.6 |
| Oxford St. & Buena Vista STN | 5-Sep-18 | 10:00 | 295 | 8.48 | 0.17 | 0.46 | 0.04 | 15.6 | 22.4 |
| Merklin Low Reservoir | 5-Sep-18 | 10:50 | 315 | 8.55 | 0.11 | 0.59 | 0.02 | 11.2 | 22.3 |
| Merklin Reservoir (New) | 5-Sep-18 | 11:05 | 315 | 8.58 | 0.10 | 0.66 | 0.04 | 10.0 | 22.1 |
| Oxford Reservoir | 5-Sep-18 | 11:50 | 270 | 8.54 | 0.11 | 0.62 | 0.04 | 10.0 | 21.3 |
| September Week 2 | | | | | | | | | |
| Everall St. Sampling Station | 12-Sep-18 | 8:50 | 308 | 8.54 | 0.15 | 0.70 | 0.03 | 9.8 | 24.8 |
| Malabar Sampling Station | 11-Sep-18 | 9:05 | 277 | 8.48 | 0.11 | 0.65 | 0.01 | 12.9 | 27.1 |
| Chestnut & N. Bluff Sample STN | 11-Sep-18 | 9:25 | 277 | 8.42 | 0.14 | 0.24 | 0.01 | 19.5 | 27.8 |
| Russell Ave. Sample Station | 12-Sep-18 | 9:05 | 276 | 8.52 | 0.12 | 0.65 | 0.03 | 10.7 | 26.0 |
| Roper Reservoir | 11-Sep-18 | 10:30 | 290 | 8.39 | 0.16 | 0.57 | 0.05 | 12.3 | 24.7 |
| Roper PRV | 11-Sep-18 | 9:55 | 297 | 8.61 | 0.14 | 0.60 | 0.04 | 11.5 | 25.8 |
| Roper Ave. Sample Station | 11-Sep-18 | 10:40 | 308 | 8.63 | 0.15 | 0.56 | 0.00 | 16.7 | 27.3 |
| Finlay St. Sampling Station | 12-Sep-18 | 9:30 | 303 | 8.61 | 0.18 | 0.48 | 0.02 | 18.1 | 23.7 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Stayte Sampling Station | 12-Sep-18 | 9:50 | 285 | 8.60 | 0.15 | 0.67 | 0.00 | 18.4 | 26.3 |
| Balsam & Marine | 11-Sep-18 | 11:00 | 283 | 8.61 | 0.11 | 0.31 | 0.02 | 13.8 | 25.7 |
| Oxford St. & Buena Vista STN | 12-Sep-18 | 10:55 | 277 | 8.61 | 0.14 | 0.53 | 0.05 | 15.5 | 23.8 |
| Merklin Low Reservoir | 11-Sep-18 | 11:25 | 308 | 8.64 | 0.12 | 0.57 | 0.03 | 11.6 | 24.8 |
| Merklin Reservoir (New) | 12-Sep-18 | 11:10 | 311 | 8.66 | 0.13 | 0.64 | 0.01 | 10.0 | 24.2 |
| Oxford Reservoir | 12-Sep-18 | 11:30 | 275 | 8.70 | 0.09 | 0.63 | 0.04 | 10.0 | 25.0 |
| September Week 3 | | | | | | | | | |
| Overall St. Sampling Station | 18-Sep-18 | 9:15 | 272 | 8.25 | 0.11 | 0.65 | 0.02 | 9.9 | 21.5 |
| Mann Park Sample Station | 18-Sep-18 | 9:30 | 271 | 8.28 | 0.13 | 0.61 | 0.02 | 14.4 | 21.4 |
| Marine Dr Sample Station | 18-Sep-18 | 9:50 | 276 | 8.30 | 0.19 | 0.41 | 0.03 | 17.4 | 21.8 |
| Russell Ave. Sample Station | 18-Sep-18 | 10:50 | 274 | 8.30 | 0.14 | 0.64 | 0.02 | 10.7 | 21.0 |
| Roper Reservoir | 18-Sep-18 | 11:20 | 291 | 8.37 | 0.16 | 0.53 | 0.02 | 12.1 | 20.9 |
| Roper PRV | 18-Sep-18 | 11:05 | 291 | 8.35 | 0.10 | 0.63 | 0.02 | 11.3 | 21.2 |
| Stevens Sample Station | 18-Sep-18 | 11:40 | 316 | 8.37 | 0.14 | 0.61 | 0.04 | 12.8 | 21.4 |
| Finlay St. Sampling Station | 19-Sep-18 | 9:45 | 312 | 8.36 | 0.19 | 0.50 | 0.03 | 17.9 | 21.6 |
| Stayte Sampling Station | 19-Sep-18 | 10:00 | 282 | 8.28 | 0.15 | 0.37 | 0.02 | 17.2 | 22.0 |
| Balsam & Marine | 19-Sep-18 | 11:20 | 289 | 8.37 | 0.14 | 0.57 | 0.02 | 11.2 | 21.9 |
| Oxford St. & Buena Vista STN | 19-Sep-18 | 11:35 | 283 | 8.36 | 0.14 | 0.41 | 0.04 | 15.1 | 22.2 |
| Merklin Low Reservoir | 19-Sep-18 | 10:40 | 318 | 8.45 | 0.11 | 0.57 | 0.04 | 11.2 | 21.7 |
| Merklin Reservoir (New) | 19-Sep-18 | 11:05 | 318 | 8.45 | 0.14 | 0.62 | 0.04 | 9.9 | 21.8 |
| Oxford Reservoir | 19-Sep-18 | 11:50 | 273 | 8.41 | 0.13 | 0.61 | 0.03 | 10.0 | 21.5 |
| September Week 4 | | | | | | | | | |
| Overall St. Sampling Station | 25-Sep-18 | 8:55 | 275 | 8.26 | 0.11 | 0.69 | 0.02 | 9.8 | 24.9 |
| Malabar Sampling Station | 25-Sep-18 | 9:17 | 276 | 8.30 | 0.12 | 0.68 | 0.03 | 12.8 | 25.8 |
| Chestnut & N. Bluff Sample STN | 25-Sep-18 | 9:40 | 263 | 8.28 | 0.15 | 0.17 | 0.03 | 17.6 | 24.6 |
| Russell Ave. Sample Station | 25-Sep-18 | 10:50 | 275 | 8.36 | 0.12 | 0.68 | 0.02 | 10.5 | 23.9 |
| Roper Reservoir | 25-Sep-18 | 12:00 | 288 | 8.44 | 0.17 | 0.61 | 0.03 | 11.7 | 24.5 |
| Roper PRV | 25-Sep-18 | 11:50 | 302 | 8.46 | 0.15 | 0.63 | 0.02 | 11.1 | 24.8 |
| Roper Ave. Sample Station | 25-Sep-18 | 11:35 | 303 | 8.50 | 0.16 | 0.59 | 0.04 | 15.9 | 23.3 |
| Finlay St. Sampling Station | 26-Sep-18 | 8:45 | 308 | 8.34 | 0.19 | 0.51 | 0.03 | 17.2 | 23.1 |
| Stayte Sampling Station | 26-Sep-18 | 9:00 | 281 | 8.24 | 0.17 | 0.39 | 0.03 | 16.6 | 23.3 |
| Balsam & Marine | 26-Sep-18 | 9:15 | 281 | 8.33 | 0.14 | 0.56 | 0.04 | 13.0 | 22.8 |
| Oxford St. & Buena Vista STN | 26-Sep-18 | 11:25 | 282 | 8.38 | 0.14 | 0.56 | 0.05 | 14.0 | 23.0 |
| Merklin Low Reservoir | 26-Sep-18 | 9:55 | 315 | 8.43 | 0.14 | 0.55 | 0.04 | 11.3 | 22.7 |
| Merklin Reservoir (New) | 26-Sep-18 | 10:10 | 316 | 8.44 | 0.15 | 0.66 | 0.05 | 10.0 | 23.0 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Oxford Reservoir | 26-Sep-18 | 11:00 | 272 | 8.40 | 0.11 | 0.68 | 0.02 | 10.3 | 22.7 |
| October Week 1 | | | | | | | | | |
| Everall St. Sampling Station | 2-Oct-18 | 9:00 | 272 | 8.00 | 0.13 | 0.63 | 0.02 | 10.1 | 18.8 |
| Malabar Sampling Station | 2-Oct-18 | 9:20 | 270 | 8.19 | 0.13 | 0.58 | 0.02 | 14.6 | 18.1 |
| Chestnut & N. Bluff Sample STN | 2-Oct-18 | 9:40 | 272 | 8.24 | 0.18 | 0.45 | 0.03 | 15.8 | 18.0 |
| Russell Ave. Sample Station | 2-Oct-18 | 10:00 | 271 | 8.28 | 0.11 | 0.62 | 0.03 | 10.9 | 17.7 |
| Roper Reservoir | 2-Oct-18 | 10:20 | 300 | 8.27 | 0.18 | 0.52 | 0.02 | 12.1 | 17.5 |
| Roper PRV | 2-Oct-18 | 10:30 | 289 | 8.35 | 0.12 | 0.57 | 0.02 | 11.2 | 17.6 |
| Roper Ave. Sample Station | 2-Oct-18 | 10:50 | 313 | 8.35 | 0.15 | 0.54 | 0.03 | 15.4 | 17.9 |
| Finlay St. Sampling Station | 3-Oct-18 | 9:00 | 310 | 8.11 | 0.17 | 0.48 | 0.02 | 16.1 | 17.6 |
| Stayte Sampling Station | 3-Oct-18 | 9:20 | 280 | 8.16 | 0.19 | 0.31 | 0.02 | 14.6 | 16.5 |
| Balsam & Marine | 3-Oct-18 | 9:40 | 279 | 8.20 | 0.15 | 0.55 | 0.03 | 14.7 | 13.0 |
| Oxford St. & Buena Vista STN | 3-Oct-18 | 10:00 | 276 | 8.21 | 0.14 | 0.51 | 0.03 | 14.8 | 13.8 |
| Merklin Low Reservoir | 3-Oct-18 | 8:30 | 314 | 8.30 | 0.08 | 0.61 | 0.02 | 14.8 | 9.9 |
| Merklin Reservoir (New) | 3-Oct-18 | 8:45 | 318 | 8.33 | 0.10 | 0.57 | 0.02 | 14.7 | 10.0 |
| Oxford Reservoir | 3-Oct-18 | 10:20 | 272 | 8.22 | 0.14 | 0.64 | 0.02 | 14.8 | 8.0 |
| October Week 2 | | | | | | | | | |
| Everall St. Sampling Station | 9-Oct-18 | 9:25 | 272 | 8.24 | 0.12 | 0.69 | 0.04 | 9.7 | 19.7 |
| Malabar Sampling Station | 9-Oct-18 | 9:45 | 275 | 8.30 | 0.14 | 0.69 | 0.03 | 11.3 | 20.4 |
| Chestnut & N. Bluff Sample STN | 9-Oct-18 | 10:00 | 274 | 8.26 | 0.19 | 0.21 | 0.04 | 15.9 | 20.3 |
| Russell Ave. Sample Station | 9-Oct-18 | 10:40 | 274 | 8.34 | 0.12 | 0.69 | 0.03 | 10.4 | 20.3 |
| Roper Reservoir | 9-Oct-18 | 11:20 | 293 | 8.43 | 0.17 | 0.58 | 0.02 | 10.9 | 20.5 |
| Roper PRV | 9-Oct-18 | 11:10 | 296 | 8.44 | 0.13 | 0.65 | 0.02 | 10.6 | 20.4 |
| Roper Ave. Sample Station | 9-Oct-18 | 10:55 | 310 | 8.47 | 0.12 | 0.57 | 0.03 | 14.3 | 20.5 |
| Finlay St. Sampling Station | 10-Oct-18 | 9:05 | 312 | 8.28 | 0.14 | 0.51 | 0.04 | 15.9 | 20.2 |
| Stayte Sampling Station | 10-Oct-18 | 9:25 | 285 | 8.20 | 0.16 | 0.36 | 0.02 | 14.9 | 19.7 |
| Balsam & Marine | 10-Oct-18 | 9:45 | 282 | 8.26 | 0.14 | 0.61 | 0.03 | 12.2 | 20.0 |
| Oxford St. & Buena Vista STN | 10-Oct-18 | 12:00 | 281 | 8.27 | 0.16 | 0.55 | 0.02 | 13.0 | 19.9 |
| Merklin Low Reservoir | 10-Oct-18 | 10:30 | 315 | 8.34 | 0.11 | 0.55 | 0.03 | 11.2 | 20.3 |
| Merklin Reservoir (New) | 10-Oct-18 | 10:45 | 313 | 8.36 | 0.12 | 0.62 | 0.03 | 9.8 | 20.1 |
| Oxford Reservoir | 10-Oct-18 | 11:20 | 274 | 8.27 | 0.12 | 0.67 | 0.02 | 9.9 | 19.8 |
| October Week 3 | | | | | | | | | |
| Everall St. Sampling Station | 16-Oct-18 | 8:30 | 280 | 8.26 | 0.13 | 0.69 | 0.02 | 9.9 | 22.7 |
| Mann Park Sample Station | 16-Oct-18 | 8:50 | 275 | 8.23 | 0.15 | 0.54 | 0.02 | 12.6 | 19.1 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|---------------------|-------------|---------------------|-----------|------------------|-----------------|----------------|--------------------|---------------------|
| Marine Dr Sample Station | 16-Oct-18 | 9:10 | 280 | 8.29 | 0.19 | 0.67 | 0.00 | 14.4 | 20.5 |
| Russell Ave. Sample Station | 16-Oct-18 | 9:25 | 304 | 8.35 | 0.13 | 0.63 | 0.03 | 10.1 | 16.6 |
| Roper Reservoir | 16-Oct-18 | 9:45 | 298 | 8.40 | 0.17 | 0.57 | 0.02 | 10.7 | 16.2 |
| Roper PRV | 16-Oct-18 | 9:35 | 310 | 8.38 | 0.14 | 0.61 | 0.00 | 10.3 | 17.7 |
| Stevens Sample Station | 16-Oct-18 | 10:40 | 308 | 8.39 | 0.12 | 0.61 | 0.03 | 11.6 | 16.8 |
| Finlay St. Sampling Station | 16-Oct-18 | 10:50 | 322 | 8.45 | 0.14 | 0.53 | 0.02 | 15.6 | 19.7 |
| Stayte Sampling Station | 16-Oct-18 | 11:00 | 288 | 8.36 | 0.16 | 0.35 | 0.03 | 15.0 | 17.3 |
| Balsam & Marine | 16-Oct-18 | 11:15 | 303 | 8.18 | 0.13 | 0.58 | 0.02 | 12.1 | 19.6 |
| Oxford St. & Buena Vista STN | 16-Oct-18 | 11:25 | 281 | 8.38 | 0.14 | 0.50 | 0.03 | 13.0 | 17.0 |
| Merklin Low Reservoir | 16-Oct-18 | 10:15 | 317 | 8.41 | 0.13 | 0.57 | 0.02 | 11.0 | 20.3 |
| Merklin Reservoir (New) | 16-Oct-18 | 10:25 | 303 | 8.44 | 0.12 | 0.67 | 0.02 | 9.9 | 17.3 |
| Oxford Reservoir | 16-Oct-18 | 11:40 | 279 | 8.35 | 0.16 | 0.60 | 0.01 | 10.1 | 18.2 |
| October Week 5 | | | | | | | | | |
| Everall St. Sampling Station | 31-Oct-18 | 8:30 | 276 | 8.22 | 0.15 | 0.58 | 0.03 | 9.6 | 19.0 |
| Mann Park Sampling Station | 31-Oct-18 | 9:30 | 272 | 8.23 | 0.17 | 0.55 | 0.02 | 11.8 | 19.0 |
| Marine Dr. Sample STN | 31-Oct-18 | 9:45 | 272 | 8.23 | 0.19 | 0.34 | 0.02 | 13.4 | 18.9 |
| Russell Ave. Sample Station | 31-Oct-18 | 10:00 | 270 | 8.29 | 0.16 | 0.57 | 0.02 | 10.6 | 18.6 |
| Roper Reservoir | 31-Oct-18 | 10:15 | 302 | 8.38 | 0.28 | 0.48 | 0.03 | 10.5 | 19.9 |
| Roper PRV | 31-Oct-18 | 10:30 | 291 | 8.36 | 0.16 | 0.59 | 0.04 | 10.3 | 19.9 |
| Roper Ave. Sample Station | 31-Oct-18 | 10:45 | 306 | 8.30 | 0.12 | 0.58 | 0.03 | 11.2 | 19.7 |
| Finlay St. Sampling Station | 31-Oct-18 | 11:00 | 311 | 8.33 | 0.14 | 0.53 | 0.02 | 14.3 | 19.8 |
| Stayte Sampling Station | 31-Oct-18 | 11:15 | 290 | 8.29 | 0.17 | 0.27 | 0.03 | 14.1 | 19.5 |
| Balsam & Marine | 31-Oct-18 | 11:30 | 300 | 8.20 | 0.15 | 0.52 | 0.03 | 11.1 | 19.9 |
| Oxford St. & Buena Vista STN | 31-Oct-18 | 8:00 | 279 | 8.18 | 0.12 | 0.47 | 0.03 | 12.7 | 19.8 |
| Merklin Low Reservoir | 31-Oct-18 | 11:45 | 310 | 8.26 | 0.11 | 0.57 | 0.02 | 10.6 | 19.9 |
| Merklin Reservoir (New) | 31-Oct-18 | 12:00 | 309 | 8.25 | 0.13 | 0.59 | 0.02 | 9.4 | 20.0 |
| Oxford Reservoir | 31-Oct-18 | 8:15 | 285 | 8.20 | 0.14 | 0.60 | 0.03 | 9.9 | 18.6 |
| November Week 1 | | | | | | | | | |
| Everall St. Sampling Station | 7-Nov-18 | 7:40 | 286 | 8.18 | 0.15 | 0.65 | 0.04 | 9.7 | 15.1 |
| Malabar Sampling Station | 7-Nov-18 | 8:05 | 287 | 8.22 | 0.17 | 0.61 | 0.03 | 11.4 | 16.3 |
| Chestnut & N. Bluff Sample STN | 7-Nov-18 | 8:25 | 291 | 8.22 | 0.19 | 0.40 | 0.02 | 13.3 | 16.7 |
| Russell Ave. Sample Station | 7-Nov-18 | 8:40 | 294 | 8.30 | 0.15 | 0.62 | 0.03 | 10.2 | 16.4 |
| Roper Reservoir | 7-Nov-18 | 9:05 | 303 | 8.42 | 0.19 | 0.50 | 0.02 | 10.3 | 16.5 |
| Roper PRV | 7-Nov-18 | 8:55 | 310 | 8.44 | 0.14 | 0.56 | 0.02 | 10.3 | 16.9 |
| Roper Ave. Sample Station | 7-Nov-18 | 9:30 | 307 | 8.48 | 0.13 | 0.59 | 0.05 | 12.7 | 15.5 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Finlay St. Sampling Station | 7-Nov-18 | 9:50 | 313 | 8.47 | 0.13 | 0.56 | 0.03 | 13.8 | 16.4 |
| Stayte Sampling Station | 7-Nov-18 | 11:23 | 302 | 8.38 | 0.20 | 0.36 | 0.03 | 13.5 | 16.6 |
| Balsam & Marine | 7-Nov-18 | 11:38 | 294 | 8.42 | 0.16 | 0.57 | 0.03 | 11.5 | 16.1 |
| Oxford St. & Buena Vista STN | 7-Nov-18 | 11:53 | 294 | 8.43 | 0.18 | 0.52 | 0.02 | 12.1 | 16.1 |
| Merklin Low Reservoir | 7-Nov-18 | 10:40 | 309 | 8.53 | 0.13 | 0.58 | 0.03 | 10.5 | 15.8 |
| Merklin Reservoir (New) | 7-Nov-18 | 10:54 | 314 | 8.52 | 0.13 | 0.61 | 0.00 | 9.7 | 16.8 |
| Oxford Reservoir | 7-Nov-18 | 12:15 | 281 | 8.38 | 0.14 | 0.64 | 0.02 | 10.1 | 15.2 |
| November Week 2 | | | | | | | | | |
| Everall St. Sampling Station | 13-Nov-18 | 7:55 | 278 | 8.25 | 0.13 | 0.62 | 0.02 | 9.5 | 14.8 |
| Mann Park Sample Station | 13-Nov-18 | 8:10 | 282 | 8.25 | 0.14 | 0.58 | 0.02 | 11.1 | 15.6 |
| Marine Dr Sample Station | 13-Nov-18 | 8:30 | 286 | 8.29 | 0.18 | 0.47 | 0.03 | 11.1 | 16.7 |
| Russell Ave. Sample Station | 13-Nov-18 | 8:50 | 290 | 8.36 | 0.12 | 0.63 | 0.05 | 9.7 | 15.5 |
| Roper Reservoir | 13-Nov-18 | 9:15 | 304 | 8.43 | 0.18 | 0.51 | 0.03 | 9.7 | 15.8 |
| Roper PRV | 13-Nov-18 | 9:05 | 313 | 8.43 | 0.13 | 0.64 | 0.03 | 9.8 | 16.3 |
| Stevens Sample Station | 13-Nov-18 | 11:00 | 314 | 8.44 | 0.46 | 0.66 | 0.03 | 10.3 | 16.6 |
| Finlay St. Sampling Station | 13-Nov-18 | 9:40 | 314 | 8.44 | 0.14 | 0.56 | 0.03 | 12.3 | 17.0 |
| Stayte Sampling Station | 13-Nov-18 | 11:20 | 296 | 8.35 | 0.17 | 0.33 | 0.02 | 12.3 | 15.8 |
| Balsam & Marine | 13-Nov-18 | 11:35 | 293 | 8.38 | 0.14 | 0.56 | 0.04 | 10.7 | 15.8 |
| Oxford St. & Buena Vista STN | 13-Nov-18 | 11:50 | 295 | 8.36 | 0.15 | 0.52 | 0.03 | 11.2 | 16.9 |
| Merklin Low Reservoir | 13-Nov-18 | 10:20 | 306 | 8.48 | 0.12 | 0.50 | 0.05 | 10.4 | 15.9 |
| Merklin Reservoir (New) | 13-Nov-18 | 10:37 | 313 | 8.48 | 0.15 | 0.67 | 0.03 | 9.5 | 16.3 |
| Oxford Reservoir | 13-Nov-18 | 12:05 | 282 | 8.33 | 0.12 | 0.62 | 0.03 | 9.9 | 16.6 |
| November Week 3 | | | | | | | | | |
| Everall St. Sampling Station | 20-Nov-18 | 9:50 | 275 | 8.25 | 0.15 | 0.65 | 0.02 | 9.2 | 17.4 |
| Malabar Sampling Station | 20-Nov-18 | 9:55 | 280 | 8.30 | 0.20 | 0.61 | 0.05 | 10.3 | 19.4 |
| Marine Dr Sample Station | 20-Nov-18 | 10:05 | 283 | 8.30 | 0.25 | 0.25 | 0.03 | 11.5 | 18.1 |
| Russell Ave. Sample Station | 20-Nov-18 | 10:15 | 312 | 8.48 | 0.18 | 0.63 | 0.04 | 9.5 | 17.8 |
| Roper Reservoir | 20-Nov-18 | 12:10 | 303 | 8.48 | 0.21 | 0.49 | 0.02 | 9.2 | 18.1 |
| Roper PRV | 20-Nov-18 | 12:05 | 306 | 8.50 | 0.15 | 0.62 | 0.03 | 9.6 | 16.8 |
| Roper Ave. Sample Station | 20-Nov-18 | 10:55 | 318 | 8.53 | 0.16 | 0.58 | 0.02 | 10.6 | 18.6 |
| Finlay St. Sampling Station | 21-Nov-18 | 8:50 | 313 | 8.33 | 0.21 | 0.51 | 0.00 | 11.4 | 28.3 |
| Stayte Sampling Station | 21-Nov-18 | 8:56 | 298 | 8.32 | 0.28 | 0.19 | 0.02 | 11.5 | 27.2 |
| Balsam & Marine | 21-Nov-18 | 9:00 | 288 | 8.36 | 0.27 | 0.51 | 0.02 | 10.2 | 24.2 |
| Oxford St. & Buena Vista STN | 21-Nov-18 | 9:10 | 290 | 8.39 | 0.30 | 0.41 | 0.04 | 11.0 | 26.3 |
| Merklin Low Reservoir | 21-Nov-18 | 10:40 | 318 | 8.52 | 0.15 | 0.55 | 0.00 | 9.5 | 25.8 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Merklin Reservoir (New) | 21-Nov-18 | 10:30 | 314 | 8.55 | 0.17 | 0.60 | 0.04 | 9.5 | 22.0 |
| Oxford Reservoir | 21-Nov-18 | 9:20 | 285 | 8.38 | 0.16 | 0.46 | 0.03 | 9.9 | 26.2 |
| November Week 4 | | | | | | | | | |
| Everall St. Sampling Station | 27-Nov-18 | 8:30 | 274 | 8.27 | 0.20 | 0.63 | 0.05 | 9.8 | 13.5 |
| Mann Park Sample Station | 27-Nov-18 | 8:40 | 275 | 8.35 | 0.23 | 0.56 | 0.06 | 10.0 | 13.3 |
| Marine Dr Sample Station | 27-Nov-18 | 9:05 | 273 | 8.39 | 0.32 | 0.37 | 0.06 | 9.8 | 13.5 |
| Russell Ave. Sample Station | 27-Nov-18 | 9:25 | 283 | 8.48 | 0.18 | 0.60 | 0.03 | 9.8 | 13.8 |
| Roper Reservoir | 27-Nov-18 | 9:55 | 295 | 8.58 | 0.26 | 0.49 | 0.04 | 9.7 | 13.6 |
| Roper PRV | 27-Nov-18 | 10:00 | 307 | 8.61 | 0.23 | 0.61 | 0.03 | 9.8 | 14.0 |
| Stevens Sample Station | 27-Nov-18 | 10:45 | 302 | 8.59 | 0.16 | 0.59 | 0.02 | 10.2 | 14.5 |
| Finlay St. Sampling Station | 28-Nov-18 | 8:30 | 313 | 8.69 | 0.23 | 0.54 | 0.02 | 11.1 | 16.5 |
| Stayte Sampling Station | 28-Nov-18 | 8:40 | 292 | 8.69 | 0.24 | 0.37 | 0.02 | 11.1 | 16.4 |
| Balsam & Marine | 28-Nov-18 | 8:50 | 279 | 8.60 | 0.28 | 0.55 | 0.02 | 10.5 | 16.6 |
| Oxford St. & Buena Vista STN | 28-Nov-18 | 8:15 | 282 | 8.82 | 0.19 | 0.49 | 0.00 | 11.4 | 15.5 |
| Merklin Low Reservoir | 28-Nov-18 | 8:00 | 309 | 8.68 | 0.14 | 0.53 | 0.02 | 9.8 | 15.5 |
| Merklin Reservoir (New) | 28-Nov-18 | 8:10 | 310 | 8.79 | 0.20 | 0.61 | 0.01 | 9.7 | 15.3 |
| Oxford Reservoir | 28-Nov-18 | 9:15 | 280 | 8.68 | 0.16 | 0.55 | 0.00 | 9.9 | 16.5 |
| December Week 1 | | | | | | | | | |
| Everall St. Sampling Station | 4-Dec-18 | 10:25 | 278 | 8.16 | 0.12 | 0.62 | 0.02 | 9.1 | 22.4 |
| Malabar Sampling Station | 4-Dec-18 | 10:35 | 281 | 8.22 | 0.14 | 0.59 | 0.01 | 10.0 | 21.7 |
| Chestnut & N. Bluff Sample STN | 4-Dec-18 | 10:45 | 282 | 8.25 | 0.23 | 0.25 | 0.01 | 10.2 | 23.5 |
| Russell Ave. Sample Station | 4-Dec-18 | 10:55 | 317 | 8.43 | 0.14 | 0.59 | 0.03 | 9.6 | 20.7 |
| Roper Reservoir | 4-Dec-18 | 11:00 | 306 | 8.45 | 0.18 | 0.45 | 0.02 | 8.9 | 23.8 |
| Roper PRV | 4-Dec-18 | 11:05 | 317 | 8.47 | 0.12 | 0.60 | 0.00 | 9.4 | 23.7 |
| Roper Ave. Sample Station | 4-Dec-18 | 11:15 | 317 | 8.48 | 0.15 | 0.56 | 0.02 | 10.5 | 24.4 |
| Finlay St. Sampling Station | 5-Dec-18 | 9:25 | 318 | 8.38 | 0.16 | 0.59 | 0.05 | 10.1 | 23.9 |
| Stayte Sampling Station | 5-Dec-18 | 9:55 | 295 | 8.30 | 0.17 | 0.20 | 0.02 | 10.3 | 22.8 |
| Balsam & Marine | 5-Dec-18 | 11:15 | 291 | 8.34 | 0.13 | 0.57 | 0.01 | 9.5 | 23.5 |
| Oxford St. & Buena Vista STN | 5-Dec-18 | 11:30 | 289 | 8.34 | 0.10 | 0.55 | 0.03 | 10.0 | 26.5 |
| Merklin Low Reservoir | 5-Dec-18 | 10:45 | 317 | 8.49 | 0.07 | 0.53 | 0.02 | 9.7 | 23.0 |
| Merklin Reservoir (New) | 5-Dec-18 | 10:55 | 318 | 8.50 | 0.08 | 0.66 | 0.00 | 9.1 | 25.6 |
| Oxford Reservoir | 5-Dec-18 | 11:55 | 281 | 8.39 | 0.10 | 0.66 | 0.01 | 9.5 | 21.2 |
| December Week 2 | | | | | | | | | |
| Everall St. Sampling Station | 11-Dec-18 | 9:10 | 274 | 8.75 | 0.08 | 0.64 | 0.00 | 9.3 | 11.7 |
| Mann Park Sample Station | 11-Dec-18 | 9:25 | 276 | 8.72 | 0.12 | 0.59 | 0.01 | 8.4 | 11.3 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|--------------------------------------|--------------|-------|--------------|------|-----------|----------|---------|-------------|--------------|
| Marine Dr Sample Station | 11-Dec-18 | 9:40 | 277 | 8.72 | 0.16 | 0.52 | 0.05 | 9.2 | 11.3 |
| Russell Ave. Sample Station | 11-Dec-18 | 9:55 | 294 | 8.84 | 0.13 | 0.67 | 0.06 | 9.1 | 11.7 |
| Roper Reservoir | 11-Dec-18 | 10:30 | 299 | 8.84 | 0.19 | 0.62 | 0.06 | 8.4 | 11.7 |
| Roper PRV | 11-Dec-18 | 10:20 | 313 | 8.88 | 0.15 | 0.67 | 0.00 | 9.2 | 12.1 |
| Stevens Sample Station | 11-Dec-18 | 11:05 | 313 | 8.91 | 0.15 | 0.66 | 0.03 | 9.3 | 12.7 |
| Finlay St. Sampling Station | 12-Dec-18 | 8:55 | 317 | 8.44 | 0.17 | 0.62 | 0.02 | 9.3 | 21.2 |
| Stayte Sampling Station | 12-Dec-18 | 9:40 | 286 | 8.37 | 0.14 | 0.39 | 0.02 | 9.0 | 19.1 |
| Balsam & Marine | 12-Dec-18 | 9:55 | 289 | 8.38 | 0.11 | 0.59 | 0.02 | 9.1 | 23.1 |
| Oxford St. & Buena Vista STN | 12-Dec-18 | 11:20 | 286 | 8.40 | 0.10 | 0.54 | 0.02 | 9.5 | 21.3 |
| Merklin Low Reservoir | 12-Dec-18 | 10:45 | 317 | 8.52 | 0.09 | 0.61 | 0.01 | 9.7 | 22.4 |
| Merklin Reservoir (New) | 12-Dec-18 | 11:00 | 316 | 8.55 | 0.12 | 0.51 | 0.00 | 9.2 | 21.2 |
| Oxford Reservoir | 12-Dec-18 | 11:40 | 278 | 8.38 | 0.08 | 0.64 | 0.03 | 9.6 | 22.3 |
| December Week 3 | | | | | | | | | |
| Everall St. Sampling Station | 17-Dec-18 | 9:15 | 280 | 8.17 | 0.11 | 0.66 | 0.03 | 9.3 | 23.3 |
| Malabar Sampling Station | 19-Dec-18 | 8:50 | 279 | 8.17 | 0.11 | 0.63 | 0.03 | 9.5 | 24.2 |
| Chestnut & N. Bluff Sample STN | 19-Dec-18 | 9:05 | 282 | 8.19 | 0.16 | 0.43 | 0.02 | 9.0 | 24.7 |
| Russell Ave. Sample Station | 17-Dec-18 | 10:45 | 312 | 8.33 | 0.12 | 0.65 | 0.03 | 9.2 | 22.6 |
| Roper Reservoir | 17-Dec-18 | 11:15 | 301 | 8.32 | 0.17 | 0.55 | 0.02 | 8.6 | 23.7 |
| Roper PRV | 17-Dec-18 | 11:00 | 316 | 8.34 | 0.11 | 0.66 | 0.06 | 9.4 | 22.2 |
| Roper Ave. Sample Station | 19-Dec-18 | 10:40 | 318 | 8.33 | 0.15 | 0.62 | 0.05 | 9.1 | 28.9 |
| Finlay St. Sampling Station | 19-Dec-18 | 9:25 | 304 | 8.37 | 0.16 | 0.59 | 0.02 | 9.4 | 22.7 |
| Stayte Sampling Station | 19-Dec-18 | 9:40 | 297 | 8.29 | 0.14 | 0.38 | 0.03 | 9.3 | 24.2 |
| Balsam & Marine | 19-Dec-18 | 9:55 | 288 | 8.28 | 0.14 | 0.60 | 0.04 | 9.5 | 27.3 |
| Oxford St. & Buena Vista STN | 19-Dec-18 | 11:30 | 284 | 8.32 | 0.11 | 0.55 | 0.03 | 9.8 | 24.0 |
| Merklin Low Reservoir | 19-Dec-18 | 10:55 | 319 | 8.40 | 0.08 | 0.63 | 0.01 | 9.7 | 29.1 |
| Merklin Reservoir (New) | 19-Dec-18 | 11:10 | 315 | 8.42 | 0.11 | 0.68 | 0.01 | 9.4 | 26.1 |
| Oxford Reservoir | 19-Dec-18 | 11:45 | 273 | 8.32 | 0.08 | 0.67 | 0.02 | 9.7 | 22.6 |
| December Week 4 (With Metals) | | | | | | | | | |
| Everall St. Sampling Station | 27-Dec-18 | 8:55 | 277 | 8.22 | 0.11 | 0.65 | 0.03 | 9.3 | 16.6 |
| Mann Park Sample Station | 27-Dec-18 | 9:10 | 275 | 8.26 | 0.11 | 0.59 | 0.04 | 8.5 | 16.6 |
| Marine Dr Sample Station | 27-Dec-18 | 9:35 | 281 | 8.27 | 0.22 | 0.39 | 0.02 | 8.0 | 17.6 |
| Russell Ave. Sample Station | 27-Dec-18 | 10:35 | 307 | 8.44 | 0.11 | 0.65 | 0.05 | 9.0 | 16.2 |
| Roper Reservoir | 27-Dec-18 | 11:05 | 304 | 8.42 | 0.17 | 0.38 | 0.04 | 8.5 | 18.4 |
| Roper PRV | 27-Dec-18 | 10:50 | 312 | 8.46 | 0.10 | 0.64 | 0.04 | 9.2 | 17.3 |
| Stevens Sample Station | 27-Dec-18 | 11:30 | 314 | 8.48 | 0.10 | 0.63 | 0.03 | 9.4 | 17.1 |

| Sampling Location | Date Sampled | Time | Conductivity | pH | Turbidity | Total CL | Free Cl | Temp. Coltd | Temp. Tested |
|------------------------------|---------------------|-------------|---------------------|-----------|------------------|-----------------|----------------|--------------------|---------------------|
| Finlay St. Sampling Station | 28-Dec-18 | 9:20 | 318 | 8.36 | 0.13 | 0.61 | 0.03 | 9.0 | 20.8 |
| Stayte Sampling Station | 28-Dec-18 | 9:40 | 301 | 8.34 | 0.13 | 0.43 | 0.03 | 9.0 | 20.4 |
| Balsam & Marine | 28-Dec-18 | 10:25 | 280 | 8.26 | 0.10 | 0.61 | 0.03 | 9.2 | 20.7 |
| Oxford St. & Buena Vista STN | 28-Dec-18 | 10:45 | 283 | 8.32 | 0.08 | 0.52 | 0.02 | 9.4 | 21.4 |
| Merklin Low Reservoir | 28-Dec-18 | 11:05 | 315 | 8.46 | 0.10 | 0.60 | 0.04 | 9.6 | 21.2 |
| Merklin Reservoir (New) | 28-Dec-18 | 11:20 | 313 | 8.45 | 0.07 | 0.65 | 0.03 | 9.3 | 21.4 |
| Oxford Reservoir | 28-Dec-18 | 12:05 | 275 | 8.30 | 0.09 | 0.63 | 0.03 | 9.6 | 19.6 |

Oxford & Merklin Chlorination Metal Results 2018

| Sample Location | Date Sampled | Arsenic mg/L | Copper mg/L | Lead mg/L | Iron mg/L | Manganese mg/L | Colour Units | pH |
|--------------------------------|--------------|-----------------|----------------|----------------|--------------|-------------------|--------------|------------------|
| Nominal Detection Limit | | 0.0001 | 0.0005 | 0.00001 | 0.004 | 0.001 | 5 | |
| Guideline Limit | | 0.01 | 1 | 0.01 | 0.3 | 0.05 | | 6.5 - 8.5 |
| Overall Sample Station | 02-Jan-18 | 0.0053 | 0.0011 | 0.00004 | 0.004 | 0.025 | <5 | 7.90 |
| Malabar Sample Station | 02-Jan-18 | 0.0054 | 0.0030 | 0.00029 | 0.007 | 0.020 | <5 | 7.95 |
| Chestnut Sample Station | 02-Jan-18 | 0.0053 | 0.0011 | 0.00007 | 0.016 | 0.022 | <5 | 7.94 |
| Russell Avenue Sample Station | 02-Jan-18 | 0.0080 | 0.0009 | 0.000098 | 0.009 | 0.12 | <5 | 8.03 |
| Roper PRV | 02-Jan-18 | 0.0078 | 0.0013 | 0.00007 | 0.011 | 0.11 | <5 | 8.03 |
| Roper Ave Station | 03-Jan-18 | 0.0082 | 0.0023 | 0.00063 | 0.006 | 0.12 | <5 | 8.00 |
| Finlay Street Station | 03-Jan-18 | 0.0072 | 0.0008 | 0.00005 | <0.004 | 0.086 | <5 | 7.99 |
| Stayte Road Station | 03-Jan-18 | 0.0072 | 0.0026 | 0.00031 | 0.008 | 0.080 | <5 | 8.00 |
| Balsam Station | 03-Jan-18 | 0.0064 | 0.00099 | 0.00022 | 0.005 | 0.063 | <5 | 7.97 |
| Buena Vista Station | 03-Jan-18 | 0.0070 | 0.0107 | 0.00048 | 0.010 | 0.092 | <5 | 8.00 |
| Overall Sample Station | 09-Jan-18 | 0.0057 | 0.0013 | 0.00006 | <0.004 | 0.021 | <5 | 7.88 |
| Mann Park Station | 09-Jan-18 | 0.0057 | 0.0064 | 0.00024 | 0.008 | 0.021 | <5 | 7.96 |
| Marine Drive Station | 09-Jan-18 | 0.0056 | 0.0029 | 0.00017 | 0.009 | 0.017 | <5 | 7.99 |
| Russell Avenue Sample Station | 09-Jan-18 | 0.0086 | 0.0011 | 0.00010 | <0.004 | 0.11 | <5 | 8.05 |
| Roper PRV | 09-Jan-18 | 0.0080 | 0.0006 | 0.00005 | 0.004 | 0.10 | <5 | 8.05 |
| Stevens Station | 10-Jan-18 | 0.0086 | 0.0027 | 0.00011 | 0.006 | 0.12 | <5 | 8.07 |
| Finlay Street Station | 10-Jan-18 | 0.0084 | 0.0008 | 0.00005 | 0.008 | 0.11 | <5 | 8.06 |
| Stayte Road Station | 10-Jan-18 | 0.0073 | 0.0038 | 0.00039 | 0.0097 | 0.075 | <5 | 8.04 |
| Balsam and Marine Station | 10-Jan-18 | 0.0062 | 0.00097 | 0.00018 | 0.013 | 0.059 | <5 | 8.00 |
| Oxford & Buena Vista Station | 10-Jan-18 | 0.0064 | 0.0012 | 0.00008 | 0.012 | 0.087 | <5 | 8.00 |
| Overall Sample Station | 16-Jan-18 | 0.0055 | 0.0012 | <0.00001 | <0.004 | 0.023 | <5 | 7.89 |
| Malabar Sample Station | 16-Jan-18 | 0.0056 | 0.0029 | 0.00013 | 0.008 | 0.023 | <5 | 7.94 |
| Chestnut Sample Station | 16-Jan-18 | 0.0056 | 0.0008 | <0.00001 | 0.009 | 0.023 | <5 | 7.96 |
| Russell Avenue Sample Station | 16-Jan-18 | 0.0082 | 0.0009 | <0.00001 | 0.008 | 0.11 | <5 | 7.95 |
| Roper PRV | 16-Jan-18 | 0.0081 | <0.0005 | <0.00001 | 0.006 | 0.11 | <5 | 8.02 |
| Roper Station | 16-Jan-18 | 0.0085 | 0.0023 | 0.00022 | 0.010 | 0.12 | <5 | 8.00 |
| Finlay Street Station | 17-Jan-18 | 0.0070 | 0.0006 | <0.00001 | 0.007 | 0.080 | <5 | 7.84 |
| Stayte Road Station | 17-Jan-18 | 0.0071 | 0.0032 | 0.00027 | 0.009 | 0.079 | <5 | 7.97 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese | Colour | pH |
|-------------------------------|--------------|---------|---------|----------|--------|-----------|--------|------|
| Balsam and Marine Station | 17-Jan-18 | 0.0073 | 0.0008 | 0.00012 | 0.011 | 0.080 | <5 | 8.02 |
| Oxford & Buena Vista Station | 17-Jan-18 | 0.0071 | 0.0009 | 0.00008 | 0.013 | 0.093 | <5 | 8.02 |
| Everall Sample Station | 23-Jan-18 | 0.0053 | 0.0013 | 0.00004 | <0.004 | 0.024 | <5 | 7.96 |
| Mann Park Station | 23-Jan-18 | 0.0055 | 0.0062 | 0.00016 | 0.005 | 0.023 | <5 | 7.98 |
| Marine Drive Station | 23-Jan-18 | 0.0053 | 0.0031 | 0.00011 | 0.011 | 0.023 | <5 | 8.00 |
| Russell Avenue Sample Station | 23-Jan-18 | 0.0082 | 0.0020 | 0.00009 | 0.008 | 0.12 | <5 | 8.09 |
| Roper PRV | 23-Jan-18 | 0.0077 | 0.0013 | 0.00004 | 0.007 | 0.10 | <5 | 8.07 |
| Stevens Station | 23-Jan-18 | 0.0080 | 0.0025 | 0.00009 | 0.007 | 0.12 | <5 | 8.09 |
| Finlay Street Station | 24-Jan-18 | 0.0095 | 0.00097 | 0.00004 | 0.007 | 0.096 | <5 | 7.98 |
| Stayte Road Station | 24-Jan-18 | 0.0072 | 0.0023 | 0.00026 | 0.008 | 0.082 | <5 | 8.01 |
| Balsam and Marine Station | 24-Jan-18 | 0.0062 | 0.0008 | 0.00019 | 0.011 | 0.061 | <5 | 7.99 |
| Oxford & Buena Vista Station | 24-Jan-18 | 0.0069 | 0.0009 | 0.00007 | 0.010 | 0.089 | <5 | 8.00 |
| Everall Sample Station | 30-Jan-18 | 0.0058 | 0.0008 | 0.00006 | <0.004 | 0.025 | <5 | 7.85 |
| Malabar Sample Station | 30-Jan-18 | 0.0058 | 0.0024 | 0.00189 | 0.009 | 0.022 | <5 | 7.94 |
| Chestnut Sample Station | 30-Jan-18 | 0.0058 | 0.0006 | 0.00012 | 0.009 | 0.021 | <5 | 7.96 |
| Russell Avenue Sample Station | 30-Jan-18 | 0.0088 | 0.0008 | 0.00012 | 0.004 | 0.12 | <5 | 8.05 |
| Roper PRV | 30-Jan-18 | 0.0085 | 0.0007 | 0.00005 | <0.004 | 0.11 | <5 | 8.05 |
| Roper Station | 30-Jan-18 | 0.0089 | 0.0025 | 0.00030 | 0.006 | 0.12 | <5 | 7.93 |
| Finlay Street Station | 31-Jan-18 | 0.0073 | 0.0008 | 0.00004 | <0.004 | 0.093 | <5 | 7.97 |
| Stayte Road Station | 31-Jan-18 | 0.0068 | 0.0024 | 0.00025 | <0.004 | 0.077 | <5 | 8.01 |
| Balsam and Marine Station | 31-Jan-18 | 0.0058 | 0.0012 | 0.00021 | <0.004 | 0.054 | <5 | 7.98 |
| Oxford & Buena Vista Station | 31-Jan-18 | 0.0058 | 0.0012 | 0.00008 | <0.004 | 0.077 | <5 | 7.98 |
| Everall Sample Station | 06-Feb-18 | 0.0057 | 0.0006 | 0.00005 | 0.004 | 0.026 | <5 | 7.91 |
| Malabar Sample Station | 06-Feb-18 | 0.0057 | 0.0027 | 0.00030 | 0.007 | 0.021 | <5 | 7.98 |
| Chestnut Sample Station | 06-Feb-18 | 0.0057 | 0.0005 | 0.00009 | 0.009 | 0.022 | <5 | 8.00 |
| Russell Avenue Sample Station | 06-Feb-18 | 0.0087 | 0.0009 | 0.00012 | 0.005 | 0.13 | <5 | 8.09 |
| Roper PRV | 06-Feb-18 | 0.0082 | 0.0012 | 0.00008 | 0.004 | 0.11 | <5 | 8.07 |
| Roper Station | 06-Feb-18 | 0.0086 | 0.0022 | 0.00031 | 0.008 | 0.13 | <5 | 8.09 |
| Finlay Street Station | 06-Feb-18 | 0.0069 | 0.0008 | 0.00003 | 0.008 | 0.073 | <5 | 8.10 |
| Stayte Road Station | 07-Feb-18 | 0.0071 | 0.0023 | 0.00025 | 0.009 | 0.074 | <5 | 8.01 |
| Balsam and Marine Station | 07-Feb-18 | 0.0060 | 0.00096 | 0.00016 | 0.0097 | 0.055 | <5 | 8.02 |
| Oxford & Buena Vista Station | 07-Feb-18 | 0.0077 | 0.0012 | 0.000095 | 0.012 | 0.10 | <5 | 8.06 |
| Everall Sample Station | 13-Feb-18 | 0.0055 | 0.0008 | 0.00007 | 0.005 | 0.025 | <5 | 7.79 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese | Colour | pH |
|-------------------------------|--------------|---------|---------|----------|--------|-----------|--------|------|
| Mann Park Station | 13-Feb-18 | 0.0055 | 0.0057 | 0.00017 | 0.004 | 0.025 | <5 | 7.90 |
| Marine Drive Station | 13-Feb-18 | 0.0055 | 0.0023 | 0.00015 | 0.008 | 0.025 | <5 | 7.93 |
| Russell Avenue Sample Station | 13-Feb-18 | 0.0085 | 0.0008 | 0.00009 | 0.007 | 0.14 | <5 | 8.01 |
| Roper PRV | 13-Feb-18 | 0.0079 | 0.0015 | 0.00008 | 0.007 | 0.12 | <5 | 8.01 |
| Stevens Station | 13-Feb-18 | 0.0085 | 0.0022 | 0.00012 | 0.006 | 0.14 | <5 | 8.02 |
| Finlay Street Station | 14-Feb-18 | 0.0077 | 0.0006 | 0.00004 | 0.004 | 0.096 | <5 | 7.87 |
| Stayte Road Station | 14-Feb-18 | 0.0072 | 0.0020 | 0.00024 | 0.005 | 0.077 | <5 | 8.00 |
| Balsam and Marine Station | 14-Feb-18 | 0.0059 | 0.0009 | 0.00016 | <0.004 | 0.053 | <5 | 7.88 |
| Oxford & Buena Vista Station | 14-Feb-18 | 0.0068 | 0.0008 | 0.00008 | 0.007 | 0.089 | <5 | 8.00 |
| Everall Sample Station | 20-Feb-18 | 0.0054 | 0.0016 | 0.00006 | 0.007 | 0.026 | <5 | 7.72 |
| Malabar Sample Station | 20-Feb-18 | 0.0054 | 0.0030 | 0.00024 | 0.008 | 0.021 | <5 | 7.86 |
| Chestnut Sample Station | 20-Feb-18 | 0.0054 | 0.0011 | 0.00016 | 0.013 | 0.022 | <5 | 7.88 |
| Russell Avenue Sample Station | 20-Feb-18 | 0.0068 | 0.00099 | 0.00009 | 0.005 | 0.079 | <5 | 7.93 |
| Roper PRV | 20-Feb-18 | 0.079 | <0.0005 | 0.00004 | 0.006 | 0.12 | <5 | 7.97 |
| Roper Station | 20-Feb-18 | 0.0082 | 0.0019 | 0.00029 | 0.009 | 0.13 | <5 | 7.99 |
| Finlay Street Station | 20-Feb-18 | 0.0069 | 0.0017 | 0.00005 | 0.008 | 0.082 | <5 | 7.95 |
| Stayte Road Station | 21-Feb-18 | 0.0076 | 0.0034 | 0.00035 | 0.009 | 0.086 | <5 | 7.81 |
| Balsam and Marine Station | 21-Feb-18 | 0.0069 | 0.0013 | 0.00021 | 0.008 | 0.071 | <5 | 7.86 |
| Oxford & Buena Vista Station | 21-Feb-18 | 0.0079 | 0.0012 | 0.000095 | 0.011 | 0.11 | <5 | 7.95 |
| Everall Sample Station | 27-Feb-18 | 0.0061 | 0.0009 | 0.00006 | <0.004 | 0.036 | <5 | 7.81 |
| Mann Park Station | 27-Feb-18 | 0.0059 | 0.0057 | 0.00022 | <0.004 | 0.030 | <5 | 7.93 |
| Marine Drive Station | 27-Feb-18 | 0.0059 | 0.0029 | 0.00014 | 0.007 | 0.023 | <5 | 7.96 |
| Russell Avenue Sample Station | 27-Feb-18 | 0.0086 | 0.0011 | 0.00009 | 0.004 | 0.12 | <5 | 7.94 |
| Roper PRV | 27-Feb-18 | 0.0083 | 0.0005 | 0.00004 | 0.004 | 0.11 | <5 | 8.03 |
| Stevens Station | 27-Feb-18 | 0.0072 | 0.0024 | 0.00011 | <0.004 | 0.083 | <5 | 8.01 |
| Finlay Street Station | 28-Feb-18 | 0.0079 | 0.0025 | 0.00006 | 0.008 | 0.11 | <5 | 7.89 |
| Stayte Road Station | 28-Feb-18 | 0.0074 | 0.0029 | 0.00024 | 0.008 | 0.087 | <5 | 7.98 |
| Balsam and Marine Station | 28-Feb-18 | 0.0068 | 0.0013 | 0.00020 | 0.007 | 0.075 | <5 | 8.00 |
| Oxford & Buena Vista Station | 28-Feb-18 | 0.0069 | 0.0012 | 0.000097 | 0.011 | 0.10 | <5 | 7.99 |
| Everall Sample Station | 06-Mar-18 | 0.0065 | 0.0010 | 0.00012 | 0.004 | 0.039 | <5 | 7.73 |
| Malabar Sample Station | 06-Mar-18 | 0.0063 | 0.0028 | 0.00024 | 0.012 | 0.030 | <5 | 7.89 |
| Chestnut Sample Station | 06-Mar-18 | 0.0062 | 0.0012 | 0.00010 | 0.009 | 0.026 | <5 | 7.94 |
| Russell Avenue Sample Station | 06-Mar-18 | 0.0078 | 0.0012 | 0.00009 | 0.004 | 0.093 | <5 | 7.98 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese | Colour | pH |
|-------------------------------|--------------|---------|---------|----------|--------|-----------|--------|------|
| Roper PRV | 06-Mar-18 | 0.0084 | 0.0008 | 0.00005 | 0.005 | 0.11 | <5 | 8.01 |
| Roper Station | 06-Mar-18 | 0.0089 | 0.0036 | 0.00040 | 0.008 | 0.13 | <5 | 8.01 |
| Finlay Street Station | 06-Mar-18 | 0.0085 | 0.00096 | 0.00006 | 0.006 | 0.12 | <5 | 8.01 |
| Stayte Road Station | 06-Mar-18 | 0.0078 | 0.0030 | 0.00023 | 0.008 | 0.086 | <5 | 7.99 |
| Balsam and Marine Station | 06-Mar-18 | 0.0064 | 0.0012 | 0.00019 | 0.008 | 0.060 | <5 | 7.94 |
| Oxford & Buena Vista Station | 06-Mar-18 | 0.0070 | 0.0012 | 0.00011 | 0.010 | 0.095 | <5 | 7.97 |
| Everall Sample Station | 13-Mar-18 | 0.0061 | 0.0008 | 0.00011 | 0.007 | 0.042 | <5 | 7.86 |
| Mann Park Station | 13-Mar-18 | 0.0060 | 0.0057 | 0.00017 | 0.004 | 0.029 | <5 | 7.97 |
| Marine Drive Station | 13-Mar-18 | 0.0060 | 0.0025 | 0.00019 | 0.012 | 0.026 | <5 | 8.00 |
| Russell Avenue Sample Station | 13-Mar-18 | 0.0087 | 0.0010 | 0.000096 | 0.006 | 0.13 | <5 | 8.08 |
| Roper PRV | 13-Mar-18 | 0.0086 | 0.0007 | 0.00003 | 0.005 | 0.12 | <5 | 8.09 |
| Stevens Station | 13-Mar-18 | 0.0074 | 0.0027 | 0.00017 | 0.006 | 0.097 | <5 | 8.06 |
| Finlay Street Station | 14-Mar-18 | 0.0084 | 0.00095 | 0.00005 | <0.004 | 0.11 | <5 | 7.83 |
| Stayte Road Station | 14-Mar-18 | 0.0076 | 0.0029 | 0.00023 | 0.004 | 0.081 | <5 | 7.95 |
| Balsam and Marine Station | 14-Mar-18 | 0.0066 | 0.0012 | 0.00022 | 0.006 | 0.066 | <5 | 7.95 |
| Oxford & Buena Vista Station | 14-Mar-18 | 0.0066 | 0.0010 | 0.00007 | 0.007 | 0.092 | <5 | 7.97 |
| Everall Sample Station | 20-Mar-18 | 0.0058 | 0.0010 | 0.00012 | 0.004 | 0.035 | <5 | 7.83 |
| Malabar Sample Station | 20-Mar-18 | 0.0058 | 0.0025 | 0.00021 | 0.009 | 0.027 | <5 | 7.94 |
| Chestnut Sample Station | 20-Mar-18 | 0.0058 | 0.0013 | 0.00011 | 0.010 | 0.026 | <5 | 7.97 |
| Russell Avenue Sample Station | 20-Mar-18 | 0.0059 | 0.0011 | 0.000097 | <0.004 | 0.032 | <5 | 7.98 |
| Roper PRV | 20-Mar-18 | 0.0075 | 0.0009 | 0.00004 | 0.005 | 0.088 | <5 | 8.03 |
| Roper Ave Station | 20-Mar-18 | 0.0085 | 0.0027 | 0.00029 | 0.008 | 0.12 | <5 | 8.08 |
| Finlay Street Station | 20-Mar-18 | 0.0069 | 0.0013 | 0.00005 | 0.006 | 0.074 | <5 | 8.03 |
| Stayte Road Station | 20-Mar-18 | 0.0067 | 0.0032 | 0.00024 | 0.007 | 0.068 | <5 | 8.03 |
| Balsam and Marine Station | 20-Mar-18 | 0.0061 | 0.0012 | 0.00024 | 0.008 | 0.052 | <5 | 8.00 |
| Oxford & Buena Vista Station | 20-Mar-18 | 0.0061 | 0.0011 | 0.00009 | 0.009 | 0.072 | <5 | 8.04 |
| Everall Sample Station | 27-Mar-18 | 0.0058 | 0.0009 | 0.00013 | <0.004 | 0.033 | <5 | 7.78 |
| Mann Park Station | 27-Mar-18 | 0.0056 | 0.0054 | 0.00019 | <0.004 | 0.025 | <5 | 8.15 |
| Marine Drive Station | 27-Mar-18 | 0.0056 | 0.0021 | 0.00013 | 0.007 | 0.024 | <5 | 8.18 |
| Russell Avenue Sample Station | 27-Mar-18 | 0.0058 | 0.0010 | 0.00011 | <0.004 | 0.030 | <5 | 8.24 |
| Roper Reservoir | 27-Mar-18 | 0.0070 | 0.00099 | 0.00006 | 0.007 | 0.072 | <5 | 8.29 |
| Roper PRV | 27-Mar-18 | 0.0076 | 0.0011 | 0.00005 | 0.006 | 0.091 | <5 | 8.31 |
| Stevens Station | 27-Mar-18 | 0.0083 | 0.0023 | 0.00013 | 0.004 | 0.11 | <5 | 8.33 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese | Colour | pH |
|-------------------------------|--------------|---------|--------|----------|--------|-----------|--------|------|
| Finlay Street Station | 27-Mar-18 | 0.0064 | 0.0009 | 0.00006 | 0.006 | 0.058 | <5 | 8.29 |
| Stayte Road Station | 28-Mar-18 | 0.0066 | 0.0028 | 0.00023 | 0.006 | 0.061 | <5 | 8.08 |
| Balsam and Marine Station | 28-Mar-18 | 0.0057 | 0.0013 | 0.00030 | 0.008 | 0.073 | <5 | 8.04 |
| Oxford & Buena Vista Station | 28-Mar-18 | 0.0058 | 0.0011 | 0.00012 | 0.008 | 0.084 | <5 | 8.17 |
| Overall Sample Station | 04-Apr-18 | 0.0061 | 0.0014 | 0.00014 | <0.004 | 0.13 | <5 | 7.75 |
| Mann Park Station | 04-Apr-18 | 0.0061 | 0.0048 | 0.00018 | 0.004 | 0.11 | <5 | 7.89 |
| Marine Drive Station | 04-Apr-18 | 0.0062 | 0.0026 | 0.00018 | 0.009 | 0.076 | <5 | 7.93 |
| Russell Avenue Sample Station | 04-Apr-18 | 0.0089 | 0.0008 | 0.00012 | 0.007 | 0.14 | <5 | 8.02 |
| Roper PRV | 04-Apr-18 | 0.0085 | 0.0027 | 0.00026 | 0.005 | 0.14 | <5 | 8.03 |
| Stevens Station | 04-Apr-18 | 0.0076 | 0.0023 | 0.00014 | 0.006 | 0.13 | <5 | 8.03 |
| Finlay Street Station | 04-Apr-18 | 0.0073 | 0.0007 | 0.00005 | 0.006 | 0.13 | <5 | 8.02 |
| Stayte Road Station | 04-Apr-18 | 0.0077 | 0.0023 | 0.00028 | 0.011 | 0.12 | <5 | 8.02 |
| Balsam and Marine Station | 04-Apr-18 | 0.0078 | 0.0010 | 0.00027 | 0.007 | 0.13 | <5 | 8.02 |
| Oxford & Buena Vista Station | 04-Apr-18 | 0.0071 | 0.0065 | 0.00032 | 0.011 | 0.13 | <5 | 8.01 |
| Overall Sample Station | 24-Apr-18 | 0.0056 | 0.0011 | 0.00012 | <0.004 | 0.033 | <5 | 7.76 |
| Malabar Sample Station | 24-Apr-18 | 0.0058 | 0.0025 | 0.00028 | 0.009 | 0.053 | <5 | 7.91 |
| Chestnut Sample Station | 24-Apr-18 | 0.0058 | 0.0013 | 0.00011 | 0.009 | 0.068 | <5 | 7.96 |
| Russell Avenue Sample Station | 24-Apr-18 | 0.0087 | 0.0008 | 0.00011 | 0.005 | 0.13 | <5 | 8.05 |
| Roper PRV | 24-Apr-18 | 0.0088 | 0.0007 | 0.00007 | 0.005 | 0.13 | <5 | 8.07 |
| Roper Ave Station | 24-Apr-18 | 0.0087 | 0.0033 | 0.00043 | 0.006 | 0.13 | <5 | 8.08 |
| Finlay Street Station | 24-Apr-18 | 0.0086 | 0.0009 | 0.00008 | 0.006 | 0.13 | <5 | 8.08 |
| Stayte Road Station | 24-Apr-18 | 0.0079 | 0.0029 | 0.00030 | 0.0098 | 0.12 | <5 | 7.90 |
| Balsam and Marine Station | 24-Apr-18 | 0.0081 | 0.0010 | 0.00028 | 0.009 | 0.11 | <5 | 8.00 |
| Oxford & Buena Vista Station | 24-Apr-18 | 0.0077 | 0.0008 | 0.00010 | 0.011 | 0.13 | <5 | 8.02 |
| Overall Sample Station | 08-May-18 | 0.0058 | 0.0015 | <0.00001 | 0.005 | 0.052 | <5 | 7.80 |
| Mann Park Station | 08-May-18 | 0.0058 | 0.0064 | 0.00015 | 0.004 | 0.045 | <5 | 7.91 |
| Marine Drive Station | 08-May-18 | 0.0058 | 0.0036 | 0.00011 | 0.006 | 0.042 | <5 | 7.94 |
| Russell Avenue Sample Station | 08-May-18 | 0.0087 | 0.0011 | 0.00002 | 0.006 | 0.14 | <5 | 8.04 |
| Roper PRV | 08-May-18 | 0.0086 | 0.0008 | <0.00001 | 0.005 | 0.14 | <5 | 8.07 |
| Stevens Station | 08-May-18 | 0.0086 | 0.0025 | 0.00008 | 0.008 | 0.14 | <5 | 8.08 |
| Finlay Street Station | 08-May-18 | 0.0085 | 0.0008 | <0.00001 | 0.008 | 0.14 | <5 | 8.08 |
| Stayte Road Station | 08-May-18 | 0.0076 | 0.0033 | 0.00024 | 0.008 | 0.11 | <5 | 8.05 |
| Balsam and Marine Station | 08-May-18 | 0.0075 | 0.0012 | 0.00024 | 0.008 | 0.10 | <5 | 8.05 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese | Colour | pH |
|-------------------------------|--------------|---------|---------|---------|--------|-----------|--------|------|
| Oxford & Buena Vista Station | 08-May-18 | 0.0065 | 0.0009 | 0.00003 | 0.008 | 0.12 | <5 | 8.03 |
| Overall Sample Station | 22-May-18 | 0.0056 | 0.0018 | 0.00010 | <0.004 | 0.068 | <5 | 7.96 |
| Malabar Sample Station | 22-May-18 | 0.0054 | 0.0031 | 0.00039 | 0.007 | 0.049 | <5 | 7.95 |
| Chestnut Sample Station | 22-May-18 | 0.0055 | 0.0013 | 0.00013 | 0.009 | 0.046 | <5 | 7.96 |
| Russell Avenue Sample Station | 22-May-18 | 0.0084 | 0.0011 | 0.00011 | 0.007 | 0.14 | <5 | 8.05 |
| Roper PRV | 22-May-18 | 0.0084 | 0.0007 | 0.00005 | 0.006 | 0.14 | <5 | 8.06 |
| Roper Ave Station | 22-May-18 | 0.0084 | 0.0048 | 0.00063 | 0.007 | 0.14 | <5 | 8.07 |
| Finlay Street Station | 23-May-18 | 0.0084 | 0.0009 | 0.00006 | 0.006 | 0.13 | <5 | 7.84 |
| Stayte Road Station | 23-May-18 | 0.0072 | 0.0028 | 0.00031 | 0.010 | 0.11 | <5 | 7.96 |
| Balsam and Marine Station | 23-May-18 | 0.0079 | 0.0009 | 0.00028 | 0.007 | 0.11 | <5 | 8.02 |
| Oxford & Buena Vista Station | 23-May-18 | 0.0071 | 0.0008 | 0.00009 | 0.007 | 0.12 | <5 | 8.02 |
| Overall Sample Station | 05-Jun-18 | 0.0056 | 0.0015 | 0.00010 | <0.004 | 0.049 | <5 | 7.80 |
| Malabar Sample Station | 05-Jun-18 | 0.0055 | 0.0065 | 0.00027 | <0.004 | 0.042 | <5 | 7.92 |
| Chestnut Sample Station | 05-Jun-18 | 0.0056 | 0.0039 | 0.00029 | 0.013 | 0.042 | <5 | 7.96 |
| Russell Avenue Sample Station | 05-Jun-18 | 0.0085 | 0.0012 | 0.00012 | 0.005 | 0.14 | <5 | 8.05 |
| Roper PRV | 05-Jun-18 | 0.0085 | <0.0005 | 0.00005 | 0.004 | 0.14 | <5 | 8.07 |
| Roper Ave Station | 05-Jun-18 | 0.0086 | 0.0028 | 0.00019 | 0.005 | 0.14 | <5 | 8.08 |
| Finlay Street Station | 05-Jun-18 | 0.0083 | 0.0008 | 0.00008 | 0.006 | 0.14 | <5 | 8.09 |
| Stayte Road Station | 05-Jun-18 | 0.0071 | 0.0037 | 0.00042 | 0.006 | 0.095 | <5 | 8.05 |
| Balsam and Marine Station | 05-Jun-18 | 0.0077 | 0.0008 | 0.00037 | 0.008 | 0.11 | <5 | 8.06 |
| Oxford & Buena Vista Station | 05-Jun-18 | 0.0070 | 0.0009 | 0.00018 | 0.008 | 0.11 | <5 | 8.04 |
| Overall Sample Station | 26-Jun-18 | 0.0055 | 0.0012 | 0.00009 | <0.004 | 0.053 | <5 | 7.78 |
| Malabar Sample Station | 26-Jun-18 | 0.0055 | 0.0029 | 0.00035 | 0.005 | 0.040 | <5 | 7.88 |
| Chestnut Sample Station | 26-Jun-18 | 0.0055 | 0.0014 | 0.00013 | 0.006 | 0.050 | <5 | 7.95 |
| Russell Avenue Sample Station | 26-Jun-18 | 0.0084 | 0.0012 | 0.00011 | 0.006 | 0.13 | <5 | 8.08 |
| Roper PRV | 26-Jun-18 | 0.0082 | 0.0005 | 0.00008 | 0.006 | 0.13 | <5 | 8.11 |
| Roper Ave Station | 26-Jun-18 | 0.0083 | 0.0028 | 0.00045 | 0.005 | 0.14 | <5 | 7.97 |
| Finlay Street Station | 26-Jun-18 | 0.0082 | 0.0008 | 0.00007 | 0.006 | 0.14 | <5 | 8.09 |
| Stayte Road Station | 27-Jun-18 | 0.0067 | 0.0030 | 0.00035 | 0.006 | 0.092 | <5 | 7.89 |
| Balsam and Marine Station | 27-Jun-18 | 0.0080 | 0.0010 | 0.00031 | 0.007 | 0.11 | <5 | 8.10 |
| Oxford & Buena Vista Station | 27-Jun-18 | 0.0074 | 0.0009 | 0.00014 | 0.006 | 0.11 | <5 | 8.15 |
| Overall Sample Station | 24-Jul-18 | 0.0059 | 0.0013 | 0.00001 | <0.04 | 0.071 | <5 | 7.77 |
| Mann Park Station | 24-Jul-18 | 0.0059 | 0.0066 | 0.00012 | <0.04 | 0.072 | <5 | 7.87 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese | Colour | pH |
|-------------------------------|--------------|---------|--------|----------|--------|-----------|--------|------|
| Marine Drive Station | 24-Jul-18 | 0.0059 | 0.0051 | 0.00029 | <0.004 | 0.064 | <5 | 7.95 |
| Russell Avenue Sample Station | 24-Jul-18 | 0.0085 | 0.0011 | 0.00002 | <0.004 | 0.13 | <5 | 8.04 |
| Roper PRV | 24-Jul-18 | 0.0085 | 0.0016 | 0.00001 | 0.004 | 0.13 | <5 | 7.86 |
| Stevens Station | 24-Jul-18 | 0.0086 | 0.0031 | 0.00017 | 0.004 | 0.13 | <5 | 8.01 |
| Finlay Street Station | 24-Jul-18 | 0.0085 | 0.0008 | <0.00001 | <0.004 | 0.13 | <5 | 8.06 |
| Stayte Road Station | 24-Jul-18 | 0.0069 | 0.0031 | 0.00032 | 0.004 | 0.100 | <5 | 8.04 |
| Balsam and Marine Station | 25-Jul-18 | 0.0080 | 0.0011 | 0.00023 | 0.005 | 0.12 | <5 | 7.77 |
| Oxford & Buena Vista Station | 25-Jul-18 | 0.0079 | 0.0008 | 0.00012 | <0.004 | 0.093 | <5 | 8.05 |
| Finlay Street Station | 29-Aug-18 | 0.0082 | 0.0008 | 0.00009 | 0.005 | 0.13 | <5 | 7.91 |
| Stayte Road Station | 29-Aug-18 | 0.0070 | 0.0034 | 0.00042 | <0.004 | 0.13 | <5 | 8.07 |
| Balsam and Marine Station | 29-Aug-18 | 0.0079 | 0.0008 | 0.00020 | <0.004 | 0.14 | <5 | 8.12 |
| Oxford & Buena Vista Station | 29-Aug-18 | 0.0072 | 0.0012 | 0.00009 | 0.006 | 0.15 | <5 | 8.11 |
| Everall Sample Station | 28-Aug-18 | 0.0065 | 0.0015 | 0.00008 | <0.004 | 0.16 | <5 | 7.95 |
| Malabar Sample Station | 28-Aug-18 | 0.0066 | 0.0025 | 0.00035 | <0.004 | 0.15 | <5 | 8.07 |
| Chestnut Sample Station | 28-Aug-18 | 0.0065 | 0.0010 | 0.00012 | 0.006 | 0.10 | <5 | 8.08 |
| Russell Avenue Sample Station | 28-Aug-18 | 0.0065 | 0.0010 | 0.00009 | <0.004 | 0.15 | <5 | 8.11 |
| Roper Reservoir | 28-Aug-18 | 0.0075 | 0.0014 | 0.00007 | <0.004 | 0.13 | <5 | 8.14 |
| Roper PRV | 28-Aug-18 | 0.0078 | 0.0007 | 0.00006 | <0.004 | 0.13 | <5 | 8.15 |
| Roper Ave Station | 28-Aug-18 | 0.0080 | 0.0035 | 0.00065 | <0.004 | 0.13 | <5 | 8.16 |
| Everall Sample Station | 25-Sep-18 | 0.0060 | 0.0010 | 0.00006 | 0.004 | 0.12 | <5 | 8.11 |
| Malabar Sample Station | 25-Sep-18 | 0.0060 | 0.0024 | 0.00032 | 0.005 | 0.11 | <5 | 8.09 |
| Chestnut Sample Station | 25-Sep-18 | 0.0061 | 0.0006 | 0.00006 | 0.008 | 0.10 | <5 | 8.09 |
| Russell Avenue Sample Station | 25-Sep-18 | 0.0059 | 0.0008 | 0.00007 | 0.004 | 0.11 | <5 | 8.10 |
| Roper PRV | 25-Sep-18 | 0.0072 | 0.0008 | 0.00004 | 0.008 | 0.12 | <5 | 8.14 |
| Roper Ave Station | 25-Sep-18 | 0.0076 | 0.0031 | 0.00045 | 0.006 | 0.12 | <5 | 8.16 |
| Finlay Street Station | 26-Sep-18 | 0.0080 | 0.0006 | 0.00007 | 0.009 | 0.12 | <5 | 8.01 |
| Stayte Road Station | 26-Sep-18 | 0.0062 | 0.0026 | 0.00031 | 0.007 | 0.12 | <5 | 8.10 |
| Balsam and Marine Station | 26-Sep-18 | 0.0063 | 0.0010 | 0.00019 | 0.007 | 0.12 | <5 | 8.14 |
| Oxford & Buena Vista Station | 26-Sep-18 | 0.0063 | 0.0011 | 0.00006 | 0.007 | 0.12 | <5 | 8.16 |
| Everall Sample Station | 27-Nov-18 | 0.0053 | 0.0010 | 0.00007 | <0.004 | 0.086 | <5 | 8.02 |
| Mann Park Station | 27-Nov-18 | 0.0051 | 0.0037 | 0.00010 | <0.004 | 0.084 | <5 | 8.13 |
| Marine Drive Station | 27-Nov-18 | 0.0051 | 0.0034 | 0.00021 | <0.004 | 0.077 | <5 | 8.16 |
| Russell Avenue Sample Station | 27-Nov-18 | 0.0065 | 0.0008 | 0.00008 | <0.004 | 0.10 | <5 | 8.19 |

| Sample Location | Date Sampled | Arsenic | Copper | Lead | Iron | Manganese | Colour | pH |
|-------------------------------|--------------|---------|---------|---------|--------|-----------|--------|------|
| Roper Reservoir | 27-Nov-18 | 0.0074 | 0.0013 | 0.00004 | 0.007 | 0.12 | <5 | 8.23 |
| Roper PRV | 27-Nov-18 | 0.0083 | 0.0007 | 0.00002 | 0.007 | 0.13 | <5 | 8.24 |
| Stevens Station | 27-Nov-18 | 0.0080 | 0.0022 | 0.00012 | <0.004 | 0.13 | <5 | 8.23 |
| Finlay Street Station | 28-Nov-18 | 0.0083 | 0.0006 | 0.00007 | <0.004 | 0.13 | <5 | 8.08 |
| Stayte Road Station | 28-Nov-18 | 0.0062 | 0.0030 | 0.00026 | 0.007 | 0.11 | <5 | 8.13 |
| Balsam and Marine Station | 28-Nov-18 | 0.0056 | 0.0013 | 0.00020 | <0.004 | 0.10 | <5 | 8.16 |
| Oxford & Buena Vista Station | 28-Nov-18 | 0.0061 | 0.0088 | 0.00031 | <0.004 | 0.10 | <5 | 8.18 |
| Merklin Low Reservoir | 28-Nov-18 | 0.0083 | 0.0276 | 0.00008 | <0.004 | 0.14 | <5 | 8.24 |
| Merklin New Reservoir | 28-Nov-18 | 0.0083 | <0.0005 | 0.00004 | <0.004 | 0.13 | <5 | 8.25 |
| Oxford Reservoir | 28-Nov-18 | 0.0052 | 0.0100 | 0.00012 | 0.005 | 0.091 | <5 | 8.03 |
| Everall Sample Station | 27-Dec-18 | 0.0053 | 0.0011 | 0.00005 | <0.004 | 0.075 | <5 | 7.93 |
| Mann Park Station | 27-Dec-18 | 0.0054 | 0.0033 | 0.00008 | <0.004 | 0.078 | <5 | 8.04 |
| Marine Drive Station | 27-Dec-18 | 0.0053 | 0.0033 | 0.00017 | <0.004 | 0.075 | <5 | 8.06 |
| Russell Avenue Sample Station | 27-Dec-18 | 0.0083 | 0.0008 | 0.00009 | <0.004 | 0.13 | <5 | 8.15 |
| Roper Reservoir | 27-Dec-18 | 0.0073 | 0.0017 | 0.00005 | <0.004 | 0.11 | <5 | 8.15 |
| Roper PRV | 27-Dec-18 | 0.0083 | 0.0010 | 0.00004 | 0.005 | 0.13 | <5 | 8.17 |
| Stevens Station | 27-Dec-18 | 0.0082 | 0.0024 | 0.00013 | 0.005 | 0.13 | <5 | 8.18 |
| Finlay Street Station | 28-Dec-18 | 0.0085 | 0.0006 | 0.00005 | 0.005 | 0.13 | <5 | 8.09 |
| Stayte Road Station | 28-Dec-18 | 0.0069 | 0.0033 | 0.00024 | 0.007 | 0.097 | <5 | 8.10 |
| Balsam and Marine Station | 28-Dec-18 | 0.0059 | 0.0016 | 0.00010 | <0.004 | 0.072 | <5 | 8.09 |
| Oxford & Buena Vista Station | 28-Dec-18 | 0.0063 | 0.0010 | 0.00005 | 0.004 | 0.082 | <5 | 8.11 |
| Merklin Low Reservoir | 28-Dec-18 | 0.0086 | 0.0323 | 0.00013 | 0.004 | 0.13 | <5 | 8.18 |
| Merklin New Reservoir | 28-Dec-18 | 0.0085 | <0.0005 | 0.00001 | <0.004 | 0.13 | <5 | 8.18 |
| Oxford Reservoir | 28-Dec-18 | 0.0056 | 0.0090 | 0.00013 | <0.004 | 0.031 | <5 | 7.99 |

Annual Samples 2018

| Sample | Unit of Measure | Nominal Detection Limit | Guideline Limit | Sample Location | | | | | | | | |
|--|-----------------|-------------------------|-----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------------|-------------------------------|-----------------------------|
| | | | | Well #1 Oct 17, 2018 | Well #2 Oct 17, 2018 | Well #3 Oct 17, 2018 | Well #6 Oct 17, 2018 | Well #7 Oct 17, 2018 | Well #8 Oct 17, 2018 | Chestnut Stn Oct 17, 2018 | Marine Dr Stn Oct 17, 2018 | Malabar Stn Oct 17, 2018 |
| Inorganic Nonmetallic Parameters | | | | | | | | | | | | |
| Organic Carbon | mg/L | 0.5 | | <0.5 | <0.5 | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 |
| Ammonia - N | mg/L | 0.01 | | 0.02 | <0.01 | 0.06 | 0.14 | 0.10 | 0.12 | 0.07 | 0.11 | 0.12 |
| Metals Extractable | | | | | | | | | | | | |
| Aluminum | mg/L | 0.001 | 0.1 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Antimony | mg/L | 0.00002 | 0.006 | 0.00007 | 0.00008 | 0.00006 | 0.00005 | 0.00006 | 0.00005 | 0.00006 | 0.00006 | 0.00007 |
| Arsenic | mg/L | 0.0001 | 0.010 | 0.0061 | 0.0039 | 0.0066 | 0.0090 | 0.0086 | 0.0069 | 0.0063 | 0.0064 | 0.0064 |
| Barium | mg/L | 0.0001 | 1 | 0.0167 | 0.0194 | 0.0182 | 0.0239 | 0.0189 | 0.0186 | 0.0155 | 0.0163 | 0.0167 |
| Boron | mg/L | 0.002 | 5 | 0.018 | 0.018 | 0.015 | 0.038 | 0.024 | 0.014 | 0.016 | 0.002 | 0.015 |
| Cadmium | mg/L | 0.00001 | 0.005 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chromium | mg/L | 0.00005 | 0.05 | 0.00030 | 0.00780 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.00015 | 0.00008 | 0.00018 |
| Copper | mg/L | 0.0005 | 1.0 | 0.0027 | 0.0013 | 0.00060 | 0.0012 | <0.0005 | 0.0012 | 0.0008 | 0.0031 | 0.0025 |
| Lead | mg/L | 0.00001 | 0.01 | 0.00016 | 0.00013 | 0.00010 | 0.00004 | 0.00043 | 0.00003 | 0.00010 | 0.00031 | 0.00037 |
| Selenium | mg/L | 0.0002 | 0.05 | 0.0023 | 0.0130 | 0.0003 | <0.0002 | <0.0002 | 0.0003 | 0.0019 | 0.0019 | 0.0021 |
| Uranium | mg/L | 0.00001 | 0.02 | 0.00014 | 0.00027 | 0.00009 | 0.00015 | 0.00013 | 0.00011 | 0.00013 | 0.00013 | 0.00013 |
| Vanadium | mg/L | 0.00005 | | 0.00271 | 0.00366 | 0.00300 | 0.00255 | 0.00231 | 0.00252 | 0.0026 | 0.00261 | 0.00259 |
| Zinc | mg/L | 0.0005 | 5.0 | 0.0040 | 0.0020 | 0.0012 | 0.0020 | <0.0005 | 0.0007 | 0.0008 | 0.0019 | 0.0028 |
| Metals Total | | | | | | | | | | | | |
| Mercury | mg/L | 0.00001 | 0.001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Physical and Aggregate Properties | | | | | | | | | | | | |
| Colour | Colour Units | 5 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Turbidity | NTU | 0.02 | | <0.05 | 2.6 | <0.05 | <0.05 | <0.05 | 0.05 | 0.11 | 0.09 | 0.06 |
| Routine Water | | | | | | | | | | | | |
| pH | | | 6.5-8.5 | 7.83 | 7.82 | 7.83 | 7.92 | 7.90 | 7.86 | 7.79 | 7.80 | 7.79 |
| Electrical Conductivity | | 1 | | 263 | 306 | 242 | 315 | 265 | 240 | 270 | 269 | 272 |
| Calcium | mg/L | 0.01 | | 23 | 29 | 21 | 24 | 23 | 23 | 23 | 23 | 23 |
| Iron | mg/L | 0.004 | 0.3 | <0.004 | 0.14 | 0.010 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Manganese | mg/L | 0.02 | | 9.4 | 13 | 8.6 | 10 | 9.6 | 9.2 | 9.5 | 9.5 | 9.6 |
| Manganese | mg/L | 0.001 | 0.05 | 0.0039 | 0.018 | 0.19 | 0.15 | 0.12 | 0.19 | 0.1 | 0.097 | 0.083 |
| Potassium | mg/L | 0.04 | 200 | 3.0 | 3.1 | 2.8 | 3.8 | 3.5 | 3.0 | 3.0 | 3.0 | 3.0 |
| Silicon | mg/L | 0.005 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Sodium | mg/L | 0.1 | | 15 | 13 | 14 | 24 | 16 | 9.9 | 13 | 13 | 14 |
| T-Alkalinity | mg/L | 5 | | 75 | 98 | 85 | 111 | 101 | 95 | 92 | 90 | 91 |
| Chloride | mg/L | 0.05 | 250 | 18.8 | 19.6 | 16.9 | 17.7 | 10.1 | 8.5 | 15.5 | 14.9 | 15.9 |
| Fluoride | mg/L | 0.01 | 1.5 | 0.06 | 0.05 | 0.06 | 0.13 | 0.11 | 0.07 | 0.06 | 0.06 | 0.06 |

| | | | | | | | | | | | | |
|------------------------|------|------|-----|-------|-------|-------|-------|-------|-------|------|------|-------|
| Nitrate - N | mg/L | 0.01 | 10 | 0.30 | 1.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.28 | 0.24 | 0.27 |
| Nitrite - N | mg/L | 0.01 | 1 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | 0.01 | <0.01 |
| Sulfate (SO4) | mg/L | 0.5 | 500 | 14.7 | 21.2 | 10.8 | 20.0 | 14.6 | 12.9 | 15.1 | 14.8 | 15.1 |
| Hardness | mg/L | 1 | | 96 | 124 | 89 | 103 | 97 | 96 | 97 | 98 | 98 |
| Total Dissolved Solids | mg/L | 1 | | 157 | 190 | 153 | 196 | 166 | 152 | 165 | 163 | 165 |

| Sample | Unit of Measure | Nominal Detection Limit | Guideline Limit | Sample Location | | | | | | | | |
|--|-----------------|-------------------------|-----------------|----------------------------|-------------------------|-------------------------|-------------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|
| | | | | Mann Park Stn Oct 17, 2018 | Balsam Stn Oct 17, 2018 | Oxford Stn Oct 17, 2018 | Oxford Reservoir Oct 17, 2018 | Everall Stn Oct 17, 2018 | Russell Stn Oct 17, 2018 | Stevens Stn Oct 17, 2018 | Finlay Stn Oct 17, 2018 | Stayte Stn Oct 17, 2018 |
| Inorganic Nonmetallic Parameters | | | | | | | | | | | | |
| Organic Carbon | mg/L | 0.5 | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 0.5 | 0.5 | <0.5 |
| Ammonia - N | mg/L | 0.01 | | 0.11 | 0.10 | 0.10 | 0.12 | 0.11 | 0.09 | 0.09 | 0.09 | 0.05 |
| Metals Extractable | | | | | | | | | | | | |
| Aluminum | mg/L | 0.001 | 0.1 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | |
| Antimony | mg/L | 0.00002 | 0.006 | 0.00008 | 0.00006 | 0.00006 | 0.00006 | 0.00007 | 0.00007 | 0.00006 | 0.00006 | |
| Arsenic | mg/L | 0.0001 | 0.010 | 0.0064 | 0.0077 | 0.0074 | 0.0064 | 0.0064 | 0.0089 | 0.0090 | 0.0086 | |
| Barium | mg/L | 0.0001 | 1 | 0.0171 | 0.0193 | 0.0187 | 0.0172 | 0.0175 | 0.0213 | 0.0213 | 0.0205 | |
| Boron | mg/L | 0.002 | 5 | 0.017 | 0.027 | 0.021 | 0.017 | 0.016 | 0.030 | 0.033 | 0.027 | |
| Cadmium | mg/L | 0.00001 | 0.005 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | |
| Chromium | mg/L | 0.00005 | 0.05 | 0.00021 | 0.00009 | 0.00011 | 0.00020 | 0.00021 | <0.00005 | <0.00005 | <0.00005 | |
| Copper | mg/L | 0.0005 | 1.0 | 0.0041 | 0.0009 | 0.0009 | 0.0099 | 0.0010 | 0.0007 | 0.0021 | 0.0005 | |
| Lead | mg/L | 0.00001 | 0.01 | 0.00020 | 0.00020 | 0.00008 | 0.00016 | 0.00010 | 0.00012 | 0.00018 | 0.00007 | |
| Selenium | mg/L | 0.0002 | 0.05 | 0.0019 | 0.0008 | 0.0011 | 0.0018 | 0.0018 | <0.0002 | <0.0002 | <0.0002 | |
| Uranium | mg/L | 0.00001 | 0.02 | 0.00014 | 0.00014 | 0.00013 | 0.00013 | 0.00013 | 0.00014 | 0.00014 | 0.00014 | |
| Vanadium | mg/L | 0.00005 | | 0.00264 | 0.00251 | 0.00256 | 0.00254 | 0.00263 | 0.00241 | 0.00242 | 0.00236 | |
| Zinc | mg/L | 0.0005 | 5.0 | 0.0008 | 0.0007 | <0.0005 | 0.0039 | 0.0013 | 0.0036 | 0.0024 | <0.0005 | |
| Metals Total | | | | | | | | | | | | |
| Mercury | mg/L | 0.00001 | 0.001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | |
| Physical and Aggregate Properties | | | | | | | | | | | | |
| Colour | Colour Units | 5 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Turbidity | NTU | 0.02 | | 0.16 | 0.13 | 0.11 | <0.05 | 0.18 | 0.06 | 0.14 | 0.21 | |
| Routine Water | | | | | | | | | | | | |
| pH | | 6.5-8.5 | | 7.79 | 7.89 | 7.89 | 7.86 | 7.81 | 7.83 | 7.90 | 7.90 | |
| Electrical Conductivity | | 1 | | 269 | 280 | 271 | 255 | 269 | 290 | 291 | 290 | |
| Calcium | mg/L | 0.01 | | 23 | 24 | 24 | 23 | 24 | 24 | 24 | 24 | |
| Iron | mg/L | 0.004 | 0.3 | <0.004 | <0.004 | <0.004 | 0.006 | <0.004 | <0.004 | <0.004 | <0.004 | |
| Mangesium | mg/L | 0.02 | | 9.6 | 9.7 | 9.7 | 9.7 | 9.6 | 9.9 | 9.9 | 9.8 | |
| Manganese | mg/L | 0.001 | 0.05 | 0.093 | 0.12 | 0.11 | 0.096 | 0.095 | 0.13 | 0.14 | 0.13 | |

| | | | | | | | | | | | | | |
|------------------------|------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Potassium | mg/L | 0.04 | 200 | 3.0 | 3.4 | 3.2 | 3.0 | 3.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.3 |
| Silicon | mg/L | 0.005 | | 10 | 10 | 10 | 11 | 10 | 10 | 10 | 10 | 10 | 10 |
| Sodium | mg/L | 0.1 | | 13 | 18 | 16 | 13 | 13 | 20 | 20 | 20 | 20 | 17 |
| T-Alkalinity | mg/L | 5 | | 92 | 91 | 72 | 69 | 92 | 109 | 94 | 106 | 73 | |
| Chloride | mg/L | 0.05 | 250 | 15.2 | 14.9 | 15.0 | 15.0 | 14.8 | 14.3 | 14.3 | 14.4 | 14.4 | 14.9 |
| Fluoride | mg/L | 0.01 | 1.5 | 0.06 | 0.10 | 0.09 | 0.06 | 0.06 | 0.13 | 0.13 | 0.12 | 0.09 | |
| Nitrate - N | mg/L | 0.01 | 10 | 0.25 | 0.10 | 0.16 | 0.23 | 0.23 | <0.01 | <0.01 | <0.01 | <0.01 | 0.15 |
| Nitrite - N | mg/L | 0.01 | 1 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.04 |
| Sulfate (SO4) | mg/L | 0.5 | 500 | 14.9 | 16.4 | 15.9 | 14.9 | 14.8 | 17.2 | 17.2 | 17.2 | 17.2 | 16.1 |
| Hardness | mg/L | 1 | | 98 | 99 | 99 | 98 | 99 | 100 | 100 | 99 | 99 | |
| Total Dissolved Solids | mg/L | 1 | | 163 | 168 | 155 | 150 | 163 | 182 | 174 | 181 | 158 | |

| Sample | Unit of Measure | Nominal Detection Limit | Guideline Limit | Sample Location | | | | | | | |
|--|-----------------|-------------------------|-----------------|------------------------|------------------------|--------------------------------|------------------------------------|------------------------------|--|--|--|
| | | | | Roper Stn Oct 17, 2018 | Roper PRV Oct 17, 2018 | Merklin Reservoir Oct 17, 2018 | Merklin Low Reservoir Oct 17, 2018 | Roper Reservoir Oct 17, 2018 | | | |
| Inorganic Nonmetallic Parameters | | | | | | | | | | | |
| Organic Carbon | mg/L | 0.5 | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| Ammonia - N | mg/L | 0.01 | | 0.09 | 0.09 | 0.10 | 0.09 | 0.08 | | | |
| Metals Extractable | | | | | | | | | | | |
| Aluminum | mg/L | 0.001 | 0.1 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | | |
| Antimony | mg/L | 0.00002 | 0.006 | 0.00006 | 0.00006 | 0.00011 | 0.00005 | 0.00006 | | | |
| Arsenic | mg/L | 0.0001 | 0.010 | 0.0088 | 0.0086 | 0.0088 | 0.0087 | 0.0084 | | | |
| Barium | mg/L | 0.0001 | 1 | 0.0212 | 0.0206 | 0.0213 | 0.0215 | 0.0208 | | | |
| Boron | mg/L | 0.002 | 5 | 0.032 | 0.032 | 0.036 | 0.032 | 0.028 | | | |
| Cadmium | mg/L | 0.00001 | 0.005 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | | | |
| Chromium | mg/L | 0.00005 | 0.05 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.00005 | | | |
| Copper | mg/L | 0.0005 | 1.0 | 0.0031 | 0.0007 | <0.0005 | 0.0335 | 0.0011 | | | |
| Lead | mg/L | 0.00001 | 0.01 | 0.00048 | 0.00005 | <0.00001 | 0.00011 | 0.00004 | | | |
| Selenium | mg/L | 0.0002 | 0.05 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0003 | | | |
| Uranium | mg/L | 0.00001 | 0.02 | 0.00014 | 0.00014 | 0.00014 | 0.00014 | 0.00014 | | | |
| Vanadium | mg/L | 0.00005 | | 0.00244 | 0.00241 | 0.00229 | 0.00239 | 0.00253 | | | |
| Zinc | mg/L | 0.0005 | 5.0 | 0.0026 | 0.0019 | <0.0005 | 0.0014 | 0.0024 | | | |
| Metals Total | | | | | | | | | | | |
| Mercury | mg/L | 0.00001 | 0.001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | | | |
| Physical and Aggregate Properties | | | | | | | | | | | |
| Colour | Colour Units | 5 | | <5 | <5 | <5 | <5 | <5 | | | |
| Turbidity | NTU | 0.02 | | 0.16 | <0.05 | <0.05 | <0.05 | 0.09 | | | |
| Routine Water | | | | | | | | | | | |

| pH | | | 6.5-8.5 | 7.90 | 7.90 | 7.91 | 7.90 | 7.91 | | | | |
|--------------------------------|------|--------------|-------------|--------|--------|--------|--------|--------|--|--|--|--|
| Electrical Conductivity | | 1 | | 292 | 288 | 291 | 291 | 283 | | | | |
| Calcium | mg/L | 0.01 | | 24 | 24 | 24 | 24 | 24 | | | | |
| Iron | mg/L | 0.004 | 0.3 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | | | | |
| Manganese | mg/L | 0.02 | | 9.9 | 9.7 | 9.8 | 9.8 | 9.8 | | | | |
| Manganese | mg/L | 0.001 | 0.05 | 0.13 | 0.13 | 0.14 | 0.14 | 0.13 | | | | |
| Potassium | mg/L | 0.04 | 200 | 3.5 | 3.5 | 3.6 | 3.6 | 3.5 | | | | |
| Silicon | mg/L | 0.005 | | 11 | 10 | 10 | 10 | 10 | | | | |
| Sodium | mg/L | 0.1 | | 21 | 20 | 20 | 20 | 18 | | | | |
| T-Alkalinity | mg/L | 5 | | 71 | 94 | 107 | 106 | 102 | | | | |
| Chloride | mg/L | 0.05 | 250 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | | | | |
| Fluoride | mg/L | 0.01 | 1.5 | 0.12 | 0.12 | 0.13 | 0.12 | 0.10 | | | | |
| Nitrate - N | mg/L | 0.01 | 10 | <0.01 | 0.02 | <0.01 | <0.01 | 0.05 | | | | |
| Nitrite - N | mg/L | 0.01 | 1 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | | | |
| Sulfate (SO4) | mg/L | 0.5 | 500 | 17.2 | 17.1 | 17.3 | 17.2 | 16.6 | | | | |
| Hardness | mg/L | 1 | | 100 | 99 | 100 | 100 | 99 | | | | |
| Total Dissolved Solids | mg/L | 1 | | 160 | 172 | 182 | 181 | 176 | | | | |

