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# City of White Rock

## 2015 Annual Water Report



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**WHITE ROCK**  
*My City by the Sea!*  
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## Introduction

The City of White Rock purchased the water utility on October 31, 2015 from EPCOR Utilities Inc. The City purchased the majority of EPCOR's vehicles and offered employment to the five certified Water Treatment and Distribution Operators and two of EPCOR's administrative staff. Since taking ownership of the water utility the City has continued to maintain the importance of quality assurance and has taken steps to ensure we provide clean water to the residents. Some of the accomplishments the City has completed in the two months of ownership in 2015 include:

- Preparing water sampling plan
- Draft operational and maintenance plan
- Operator training plan
- Emergency response plan
- Completed flushing of the entire distribution system
- Implemented an online computerized cross-connection program
- Updated the City's online mapping system to include water distribution
- Updated the City's website to include a water services section which provides information for residents on billing and rates, water quality, water projects and frequently asked questions.

The City held a Water Utility Information Meeting on June 16, 2015 to gather public feedback on the potential acquisition of the water utility from EPCOR. Another Community Forum was held on October 15, 2015 to discuss the transition, billing and the Total Water Quality Management Project.

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 distribution system. The City developed and adopted a comprehensive Water Service Bylaw (No. 2117) to provide for the establishment and regulation of water works, supply, use and rates in October 2015.

Under conditions of the Operating Permit from Fraser Health Authority, the City is required to provide:

1. On or before June 30, 2016 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 acceptable to Fraser Health Authority.
2. As an interim measure, the addition of chlorine at wells #6 and #7 must continue until the above work has been completed in 2016.
3. 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.

4. 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.
5. A written update on the status of your plan to meet these conditions shall be submitted to Fraser Health Authority by March 31<sup>st</sup> 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.

## Source Water

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

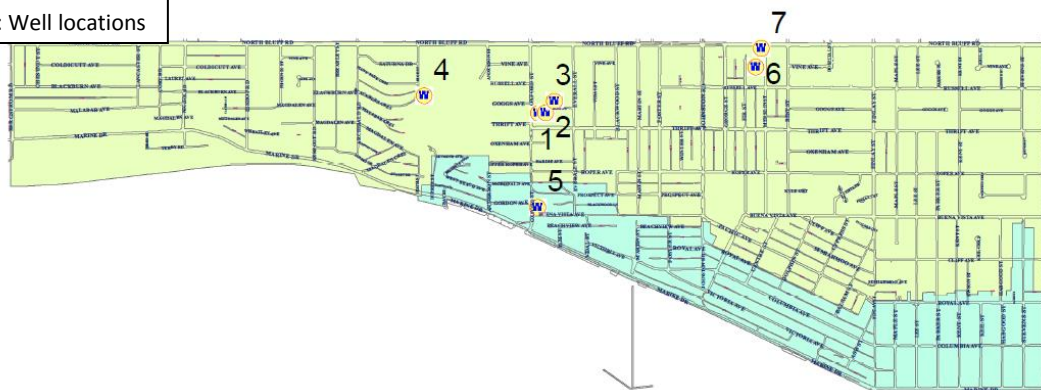
Figure 1: Aquifer



## Well Locations in White Rock

The wells range in depth from 60 meters to 150 meters. The wells provide an adequate water supply for the community even during peak consumption in the summer months. Wells 1, 2 and 3 are located at the Oxford Site, Well 4 is a seasonal well utilized during the months of June, July and August, Well 5 is located in the Water Operations Yard, Wells 6 and 7 are located at the Merklin Site.

Figure 2: Well locations



## 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 City of Surrey and Semiahmoo First Nations. City staff completed uni-directional flushing of the entire distribution system in 2015. 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.

In 2016, the City is planning to engage a consultant to prepare a multi-year master plan for the water system.

Figure 3: Water distribution



Figure 4: Water distribution systems  
WROM mapping system

7. Select the options you would like to view:

- Water
  - ☐ Water Blow-off Valves
  - ☒ Water Hydrant
  - ☐ Water Hydrant Lateral
  - ☒ Water Mains
  - ☐ Water Pressure Reducing Valves
  - ☐ Water Pressure Zones
  - ☐ Water Pumps
  - ☐ Water Reservoirs
  - ☒ Water Service Laterals
  - ☐ Water Tanks
  - ☐ Water Valve Air Release
  - ☒ Water Valves

8. The map will populate these features as you select them:

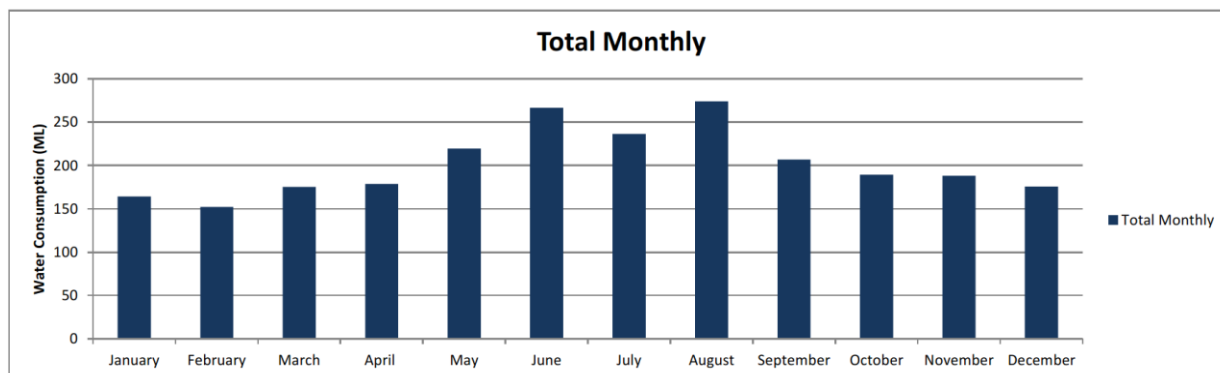


## Water Consumption

Annual water consumption patterns are tracked to ensure that the White Rock system continues to provide sufficient water service to customers. Key to this tracking is the water consumption recorded on the peak day each year, that is the point of highest demand.

The total water consumed during the City of White Rock ownership for the months of November and December was 363.8 million litres (ML). The entire consumption for 2015, including EPCOR's ownership was 2,426.2 ML. The average consumption was 6.6 ML/day, which is up from 6.5 ML/day in 2014.

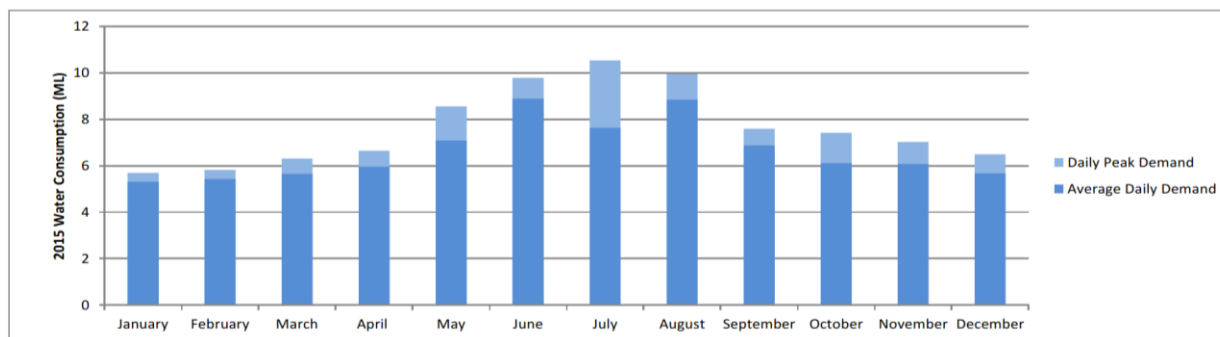
Table 1: 2015 Water Consumption



## Peak Demand

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

Table 2: 2015 Daily Peak Demand



## Peak Day Water Consumption

The peak day in 2015 was on July 1<sup>st</sup> with a 10.53ML consumed. Using information obtained from the 2014 Performance Report prepared by EPCOR White Rock the maximum peak day in 2014 was 10.4 million litres (ML).

## **Maintenance Programs**

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

- Operation and maintenance of the water treatment plant
- Installation of water services
- Water infrastructure repairs and maintenance
- Water quality sampling and testing

The City has an ongoing preventative maintenance program that includes:

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

For the months of November and December there were five water main breaks. In 2015, there were a total of eight water main breaks, all of which were cast iron pipes.

In 2016 the City plans to hire a Manager and Engineering and a Technologist for the water services department.

## Total Water Quality Management Project (TWQMP)

The TWQMP initiated by EPCOR 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 Authority's water quality requirements and Health Canada's guidelines for Canadian Drinking Water Quality.

The scope of the project entails water system upgrades that include disinfection, infrastructure renewal, storage capacity upgrades and a modest level of system expansion for future growth. The project was split into two phases: Phase 1 Oxford Street site and Phase 2, the Merklin Street and High Street Sites.

In January 2015, EPCOR started construction on the Phase 1, Oxford Street reservoir as part of the TWQM project. The City continued construction of the Oxford Street project after the acquisition of the water utility. Phase 1 was completed in early 2016 and included upgraded facilities, the addition of a reservoir and installation of remote monitoring and control of the water system. The upgrade allows the City to comply with the Fraser Health mandate to treat the City's water supply through secondary disinfection.

**Figure 5: Completed Phase**



For phase 2 of the TWQM project, the City of White Rock will upgrade and seismically update the Merklin Street reservoir, add a pump station facility and demolish the existing high tower. This project started in January 2016 and is estimated to be completed in early 2017.

**Figure 6: Phase 2 rendering**



## White Rock Water Secondary Treatment

In August 2010 E.coli was confirmed at the Merklin reservoir and a boil water advisory was issued for the entire City. Fraser Health ordered EPCOR to provide secondary treatment of the entire water distribution system by June 30, 2016. Based on recommendations by their technical experts, engineers, and bench-scale testing EPCOR chose chloramination as a secondary treatment.

In December 2015, City staff provided information on secondary treatment options and in January 2016, due to public feedback, City Council chose to implement chlorination (free chlorine) instead of chloramination for treatment of water.

As part of its acquisition and operation of the water utility, the City is under mandate by the Fraser Health Authority to implement a secondary form of water disinfection. The work is necessary to treat the water supply and upgrade critical infrastructure in the White Rock system, and is a part of the City's commitment to implement the TWQM Project. The City must treat the drinking water with an acceptable secondary treatment by June 30, 2016 as a condition of their operating permit from Fraser Health.

## Arsenic and Manganese Treatment

Arsenic concentrations are within current maximum acceptable limits as set by Health Canada. In 2015, there were no exceedances of the maximum acceptable concentration (MAC) for arsenic of 0.010 mg/l.

**Appendix A: EPCOR Water Quality Testing January to October 2015**, lists the results of all the water quality testing that was completed by EPCOR. **Appendix B: City of White Rock Water Quality Testing November-December 2015**, lists the results of all the water quality testing that was completed by the City.

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. The City will engage with the community in 2016 on options and considerations with regards to the treatment of arsenic as the water quality test results are approaching the maximum allowable concentration.

Currently, the Guidelines for Canadian Drinking Water Quality (GCDWQ) have deemed manganese as an aesthetic criteria only. It causes staining of laundry and plumbing fixtures and can affect the taste of the water. However, Health Canada is currently reviewing the potential health effects of manganese to determine if manganese limits should be a health criteria instead of an aesthetic criteria. For this reason, Fraser Health Authority has included as part of the City's Operating Permit, *"should GCDWQ deem manganese a health criteria, a treatment system must be operational one year after the date of the changes to the Guideline limits"*. As shown in Appendix A and B, manganese levels are over the aesthetic level of 0.05mg/l.

## Water Quality and Quality Assurance

Providing clean drinking water is of paramount importance for the health of our residents. To help ensure your water is of the highest quality, even as water comes into your home and through your faucets, plumbing and water heaters, there are many things along the way that can impact water quality.

The Guidelines for Canadian Drinking Water Quality (GCDWQ) established by Health Canada, sets the maximum acceptable concentrations of microbial, radiological and chemical contaminants found in water. They have also addressed the aesthetic water quality considerations around color and taste. These guidelines are the basis for 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 quality of the water.

Every month different water quality parameters are tested throughout the City. This includes:

- Weekly laboratory testing
  - In-house testing for conductivity, pH, turbidity, free chlorine, total chlorine and temperature
  - Microbiological testing for total coliforms and Escherichia Coli
- Monthly laboratory testing
  - Metal testing for arsenic at the Merklin Site only
- Quarterly laboratory testing
  - Metal testing for arsenic, copper, lead, iron and manganese
  - Organic testing for Trihalomethane (THM) and Haloacetic Acids (HAA)
- Yearly laboratory testing
  - Inorganics including: antimony, arsenic, barium, boron, bromate, cadmium, chloramines, chromium, cyanide, fluoride, lead, mercury, nitrate, nitrite, selenium, uranium, aluminum, ammonia, calcium, chloride, copper, hardness, iron, magnesium, silver, sodium, sulphate, sulphide, organic carbon, xylenes and zinc

All laboratory testing is carried out by accredited B.C. Laboratories (EXOVA and Fraser Health). The laboratory results are provided weekly to the City. Once the laboratory results received by the City they are reviewed and all of the test results are uploaded to the 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 representative picture of water quality within the City’s mains. It 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, etc.

Other steps that are critical in maintaining water quality include:

- Cross Connection Control

A cross connection is a real or potential connection between the drinking water supply and any source of contaminant. For instance, improper plumbing or irrigation system 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.

- 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).

EPCOR provided the City the spreadsheets contained in Appendix A: EPCOR Water Quality Testing Results from January to October, 2015. According to the data that was provided by EPCOR they performed 1048 total coliform and e-coli tests. However, microbiological results were not provided for the last two weeks of October. The data provided indicates one test that failed for total coliforms on July 14<sup>th</sup> and another on August 25, 2015. As stated in the Guideline for Canadian Drinking Water Quality Summary Table October 2014, *“Total coliforms are not used as indicators of potential health effects from pathogenic microorganisms; they are used as a tool to determine how well the drinking water treatment system is operating and to indicate water quality changes in the distribution system. Detection of total coliforms from the same site or from more than 10% of the samples collected in a given sample period should be investigated”*. In this case there was one sample out of fourteen collected, which is less than 10%. Also follow up testing found no indication of total coliforms.

The City performed 162 total coliform and e-coli tests with all results under the maximum allowable concentration (MAC) for the months of November and December 2015.

According to the data that was provided by EPCOR, they performed 167 individual tests for arsenic, copper, iron, lead and manganese. All levels for the previously mentioned metals were below the MAC, except for the manganese levels were over the aesthetic level of 0.05 mg/l.

The City conducted 40 individual tests for arsenic, copper, iron, lead and manganese in November and December 2015. On November 17, 2015 sampling from Well 3 and on November 18, 2015 sampling from Well 4 came back with the level of iron above the aesthetic level of 0.3 mg/l. Higher levels of iron can cause staining of laundry and plumbing fixtures as well as can affect the taste of the water. The majority of the test results for iron in 2015 are below 0.01 mg/l.

On November 18, 2015 sampling from Well 4, which was not in operation, resulted in a lead sample of 0.0128 mg/l, which is above the MAC. Once the lab result was received another sample was taken which

resulted in an acceptable level of lead of 0.0006 mg/l. In review of the 207 tests performed for lead in 2015, revealed that the majority of the tests results are well below the MAC of 0.01 mg/l.

The City also recommends to residents anytime the water in a particular faucet has not been used for six hours or longer, to "flush" your cold-water pipes by running the water until you notice a change in temperature. (This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer.) The more time water has been sitting in your home's pipes, the more lead it may contain.

Use only water from the cold-tap for drinking, cooking, and especially making baby formula. Hot water is likely to contain higher levels of lead.

The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.

Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants.

## **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 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.

This Water Emergency Response Action Plan will be incorporated into the City of White Rock's Emergency Response and Recovery Plan in 2016.

## Summary

The City of White Rock owned and operated the water utility for sixty-two days in 2015. During 2015 City staff worked on engaging the community on the purchase of the utility, developing a water bylaw, implementing a water billing system, purchasing tools and equipment, developing procedures and staffing the utility to ensure a seamless transition for the purchase of the water utility.

During the two months of City ownership; November and December 2015, staff collected and had analyzed 916 tests for water quality.

The City is working towards implementing secondary disinfection of the distribution system by using free chlorine by June 30<sup>th</sup>, 2016. As an interim measure, the City continues to provide chlorine at wells 6 and 7 as Ordered by Fraser Health Authority.

The City continues to monitor the levels of arsenic and will be engaging the community in 2016 on solutions to reduce the level.

### Attachments:

#### Appendix A –

EPCOR provided Water Quality Testing results for the period January-October 2015

#### Appendix B –

City of White Rock Water Quality Testing results for the period November-December 2015

## APPENDIX A

## Epcor Water Quality Testing January to October 2015

| In-House Water Testing Results January 2015 |              |              |      |           |         |          |      |
|---------------------------------------------|--------------|--------------|------|-----------|---------|----------|------|
| Sampling Location                           | Date Sampled | Conductivity | pH   | Turbidity | Free Cl | Total Cl | Temp |
|                                             |              | µS/cm        |      | NTU       | mg/L    | mg/L     |      |
| Peace Arch Hospital                         | 6-Jan-15     | 317          | 8.06 | 0.07      | 0.00    | 0.62     | 13.0 |
| Merklin & Thrift                            | 6-Jan-15     | 317          | 8.20 | 0.06      | 0.08    | 0.60     | 8.6  |
| Merklin Low Reservoir - 25%                 | 6-Jan-15     | .            | 8.32 | 0.23      | 0.07    | 0.03     | 7.1  |
| Merklin Low Reservoir - 50%                 | 6-Jan-15     | 321          | 8.34 | 0.22      | 0.06    | 0.02     | 7.0  |
| Merklin Low Reservoir - 75%                 | 6-Jan-15     | 323          | 8.38 | 0.22      | 0.05    | 0.06     | 6.9  |
| Roper Reservoir - 25%                       | 7-Jan-15     | 403          | 7.86 | 0.12      | 0.03    | 0.15     | 8.1  |
| Roper Reservoir - 50%                       | 7-Jan-15     | 399          | 7.97 | 0.11      | 0.03    | 0.13     | 8.2  |
| Merklin High Reservoir                      | 6-Jan-15     | 317          | 8.30 | 0.07      | 0.05    | 0.49     | 12.0 |
| Stevens STN                                 | 6-Jan-15     | 318          | 8.31 | 0.10      | 0.05    | 0.59     | 7.4  |
| Well #3 - Oxford                            | 6-Jan-15     | 266          | 8.32 | 0.16      | 0.03    | 0.04     | 8.2  |
| Whale House                                 | 7-Jan-15     | 382          | 7.91 | 0.10      | 0.03    | 0.00     | 8.3  |
| Well #6 - Valve Chamber                     | 7-Jan-15     |              |      |           | -       | -        |      |
| Bergstrom Residence                         | 7-Jan-15     | 312          | 7.94 | 0.08      | 0.00    | 0.00     | 7.3  |
| WR Washroom                                 | 7-Jan-15     | 524          | 7.79 | 0.11      | 0.01    | 0.01     | 8.3  |
| Magdalen & Bishop                           | 7-Jan-15     | 295          | 7.94 | 0.07      | 0.00    | 0.02     | 7.7  |
| Peace Arch Hospital                         | 13-Jan-15    | 315          | 8.07 | 0.08      | 0.01    | 0.12     | 9.3  |
| Merklin & Thrift                            | 13-Jan-15    | 317          | 8.15 | 0.07      | 0.00    | 0.35     | 8.3  |
| Merklin Low Reservoir (25%)                 | 13-Jan-15    | 320          | 8.27 | 0.27      | 0.04    | 0.22     | 6.5  |
| Merklin Low Reservoir (50%)                 | 13-Jan-15    | 320          | 8.28 | 0.27      | 0.04    | 0.19     | 6.1  |
| Merklin Low Reservoir (75%)                 | 13-Jan-15    | 323          | 8.27 | 0.27      | 0.02    | 0.20     | 5.9  |
| Roper Reservoir - 25%                       | 13-Jan-15    | 392          | 8.11 | 0.11      | 0.00    | 0.05     | 8.5  |
| Roper Reservoir - 50%                       | 13-Jan-15    | 392          | 8.10 | 0.11      | 0.02    | 0.08     | 8.5  |
| Merklin High Reservoir                      | 13-Jan-15    | 319          | 8.29 | 0.09      | 0.04    | 0.40     | 8.5  |
| 1100 Blk. Centre Street                     | 14-Jan-15    | 304          | 8.03 | 0.06      | 0.05    | 0.39     | 10.2 |
| Well #4 - Valve Chamber                     | 13-Jan-15    | 223          | 8.24 | 0.12      | 0.03    | 0.00     | 9.1  |
| Maple & Columbia                            | 14-Jan-15    | 401          | 7.63 | 0.06      | 0.02    | 0.04     | 9.0  |
| Centennial Arena                            | 14-Jan-15    | 284          | 7.85 | 0.05      | 0.03    | 0.01     | 11.7 |
| Penny Lane                                  | 14-Jan-15    |              |      |           | -       | -        |      |
| 14000 Blk. North Bluff Road                 | 14-Jan-15    | 268          | 7.89 | 0.10      | 0.04    | 0.02     | 11.7 |
| Peace Arch Hospital                         | 20-Jan-15    | 301          | 7.98 | 0.10      | 0.09    | 0.59     | 11.2 |
| Merklin & Thrift                            | 20-Jan-15    | 303          | 8.02 | 0.06      | 0.04    | 0.63     | 9.5  |
| Merklin Low Reservoir - 25%                 | 20-Jan-15    | 303          | 8.12 | 0.25      | 0.04    | 0.10     | 7.6  |
| Merklin Low Reservoir - 50%                 | 20-Jan-15    | 303          | 8.11 | 0.27      | 0.04    | 0.10     | 7.5  |
| Merklin Low Reservoir - 75%                 | 20-Jan-15    | 302          | 8.12 | 0.27      | 0.04    | 0.09     | 7.7  |
| Roper Reservoir - 25%                       | 20-Jan-15    | 378          | 7.92 | 0.10      | 0.02    | 0.21     | 8.6  |
| Roper Reservoir - 50%                       | 20-Jan-15    | 380          | 7.95 | 0.12      | 0.00    | 0.14     | 8.8  |
| Merklin High Reservoir                      | 20-Jan-15    | 309          | 8.09 | 0.07      | 0.07    | 0.54     | 9.3  |
| EPCOR Office                                | 20-Jan-15    | 301          | 8.13 | 0.09      | 0.08    | 0.53     | 15.8 |
| Well #7 - Chlorine STN                      | 20-Jan-15    | 305          | 8.07 | 0.12      | 0.02    | 0.01     | 8.9  |
| 13600 Blk. Marine Drive STN                 | 21-Jan-15    | 281          | 7.80 | 0.09      | 0.01    | 0.00     | 8.9  |
| 15600 Blk. Moffat Lane                      | 21-Jan-15    | 300          | 8.02 | 0.13      | 0.05    | 0.33     | 9.5  |
| Well #2 Pump House                          | 21-Jan-15    | 291          | 7.77 | 0.31      | 0.01    | 0.01     | 10.6 |
| 14800 Blk. Marine Drive                     | 21-Jan-15    | 538          | 7.61 | 0.08      | 0.00    | 0.00     | 13.7 |
| Peace Arch Hospital                         | 27-Jan-15    | 302          | 8.04 | 0.07      | 0.01    | 1.00     | 12.1 |
| Merklin & Thrift                            | 27-Jan-15    | 302          | 8.19 | 0.06      | 0.06    | 0.62     | 12.0 |
| Merklin Low Reservoir - 25%                 | 27-Jan-15    | 307          | 8.21 | 0.24      | 0.15    | 0.23     | 8.8  |
| Merklin Low Reservoir - 50%                 | 27-Jan-15    | 303          | 8.21 | 0.23      | 0.07    | 0.23     | 8.8  |
| Merklin Low Reservoir - 75%                 | 27-Jan-15    | 300          | 8.25 | 0.24      | 0.06    | 0.23     | 9.0  |
| Roper Reservoir - 25%                       | 27-Jan-15    | 383          | 8.09 | 0.11      | 0.00    | 0.17     | 12.2 |
| Roper Reservoir - 50%                       | 27-Jan-15    | 376          | 8.10 | 0.10      | 0.05    | 0.17     | 12.4 |
| Merklin High Reservoir                      | 27-Jan-15    | 308          | 8.27 | 0.08      | 0.06    | 0.54     | 9.7  |
| Malabar STN                                 | 27-Jan-15    | 282          | 8.15 | 0.09      | 0.00    | 0.00     | 10.5 |
| Well #5 - Buena Vista                       | 27-Jan-15    | 539          | 7.90 | 0.11      | 0.05    | 0.01     | 10.9 |
| Well #1 - Oxford                            | 28-Jan-15    | 276          | 7.82 | 0.09      | 0.04    | 0.00     | 10.9 |
| Kent Activity Centre                        | 28-Jan-15    | 305          | 8.09 | 0.06      | 0.06    | 0.60     | 11.1 |
| Mann Park STN                               | 28-Jan-15    | 281          | 8.00 | 0.05      | 0.03    | 0.03     | 10.3 |
| Marine & Stayte STN                         | 28-Jan-15    | 459          | 7.88 | 0.09      | 0.02    | 0.06     | 10.3 |
| Min                                         |              | 223          | 7.6  | 0.05      | <0.02   | <0.02    | 5.9  |
| Max                                         |              | 539          | 8.4  | 0.31      | 0.15    | 1.00     | 15.8 |
| Average                                     |              | 333          | 8.1  | 0.13      | 0.04    | 0.21     | 9.4  |

Epcor Water Quality Testing January to October 2015

**In-House Water Testing Results February 2015**

| Sampling Location           | Date Sampled | Conductivity | pH          | Turbidity   | Free Cl         | Total Cl        | Temp        |
|-----------------------------|--------------|--------------|-------------|-------------|-----------------|-----------------|-------------|
|                             |              | µS/cm        |             | NTU         | mg/L            | mg/L            |             |
| Peace Arch Hospital         | 3-Feb-15     | 308          | 8.00        | 0.11        | 0.05            | 0.57            | 13.0        |
| Merklin & Thrift            | 3-Feb-15     | 307          | 8.05        | 0.07        | 0.02            | 0.64            | 11.1        |
| Merklin Low Reservoir - 25% | 4-Feb-15     | 302          | 8.01        | 0.26        | 0.04            | 0.14            | 8.4         |
| Merklin Low Reservoir - 50% | 4-Feb-15     | 304          | 8.06        | 0.26        | 0.02            | 0.15            | 8.4         |
| Merklin Low Reservoir - 75% | 4-Feb-15     | 304          | 8.10        | 0.25        | 0.02            | 0.10            | 8.4         |
| Roper Reservoir - 25%       | 4-Feb-15     | 382          | 7.95        | 0.11        | 0.03            | 0.17            | 10.7        |
| Roper Reservoir - 50%       | 4-Feb-15     | 383          | 7.97        | 0.11        | 0.04            | 0.17            | 10.7        |
| Merklin High Reservoir      | 4-Feb-15     | 306          | 8.06        | 0.11        | 0.05            | 0.57            | 9.9         |
| Stevens STN                 | 3-Feb-15     | 310          | 8.06        | 0.06        | 0.04            | 0.63            | 10.0        |
| Well #3 - Oxford            | 3-Feb-15     | 255          | 8.07        | 0.08        | 0.02            | 0.01            | 10.1        |
| Whale House                 | 4-Feb-15     | 400          | 7.88        | 0.07        | 0.04            | 0.00            | 11.2        |
| Well #6 - Valve Chamber     | 3-Feb-15     |              |             |             |                 |                 |             |
| Bergstrom Residence         | 4-Feb-15     | 279          | 7.97        | 0.08        | 0.03            | 0.00            | 9.4         |
| WR Washroom                 | 3-Feb-15     | 526          | 7.73        | 0.09        | 0.02            | 0.03            | 10.8        |
| Magdalen & Bishop           | 4-Feb-15     | 278          | 7.95        | 0.07        | 0.02            | 0.01            | 9.6         |
| Peace Arch Hospital         | 10-Feb-15    | 304          | 7.94        | 0.09        | 0.00            | 0.41            | 13.8        |
| Merklin & Thrift            | 10-Feb-15    | 304          | 7.97        | 0.06        | 0.00            | 0.77            | 10.4        |
| Merklin Low Reservoir (25%) | 10-Feb-15    | 299          | 8.04        | 0.24        | 0.06            | 0.21            | 9.3         |
| Merklin Low Reservoir (50%) | 10-Feb-15    | 303          | 8.00        | 0.24        | 0.07            | 0.20            | 9.1         |
| Merklin Low Reservoir (75%) | 10-Feb-15    | 307          | 8.05        | 0.25        | 0.06            | 0.26            | 9.2         |
| Roper Reservoir - 25%       | 10-Feb-15    | 382          | 7.90        | 0.11        | 0.04            | 0.21            | 10.0        |
| Roper Reservoir - 50%       | 10-Feb-15    | 382          | 7.94        | 0.13        | 0.03            | 0.21            | 9.9         |
| Merklin High Reservoir      | 10-Feb-15    | 304          | 8.07        | 0.17        | 0.03            | 0.05            | 11.6        |
| 1100 Blk. Centre Street     | 10-Feb-15    | 306          | 8.02        | 0.09        | 0.00            | 0.32            | 12.2        |
| Well #4 - Valve Chamber     | 10-Feb-15    | 232          | 8.07        | 0.09        | 0.03            | 0.08            | 12.8        |
| Maple & Columbia            | 11-Feb-15    | 477          | 7.69        | 0.07        | 0.02            | 0.03            | 11.6        |
| Centennial Arena            | 11-Feb-15    | 280          | 7.87        | 0.10        | 0.03            | 0.01            | 12.8        |
| Penny Lane                  | 11-Feb-15    |              |             |             |                 |                 |             |
| 14000 Blk. North Bluff Road | 11-Feb-15    | 280          | 7.95        | 0.12        | 0.05            | 0.00            | 16.2        |
| Peace Arch Hospital         | 17-Feb-15    | 304          | 7.94        | 0.11        | 0.00            | 0.50            | 12.7        |
| Merklin & Thrift            | 17-Feb-15    | 308          | 8.06        | 0.07        | 0.00            | 0.44            | 11.5        |
| Merklin Low Reservoir - 25% | 17-Feb-15    | 304          | 8.11        | 0.25        | 0.06            | 0.14            | 10.9        |
| Merklin Low Reservoir - 50% | 17-Feb-15    | 305          | 8.10        | 0.26        | 0.06            | 0.13            | 11.3        |
| Merklin Low Reservoir - 75% | 17-Feb-15    | 307          | 8.12        | 0.24        | 0.05            | 0.14            | 11.5        |
| Roper Reservoir - 25%       | 17-Feb-15    | 393          | 7.94        | 0.12        | 0.06            | 0.17            | 11.1        |
| Roper Reservoir - 50%       | 17-Feb-15    | 391          | 7.91        | 0.13        | 0.04            | 0.18            | 11.4        |
| Merklin High Reservoir      | 17-Feb-15    | 306          | 8.09        | 0.2         | 0.08            | 0.59            | 10.7        |
| EPCOR Office                | 17-Feb-15    | 296          | 8.12        | 0.14        | 0.00            | 0.36            | 18.8        |
| Well #7 - Chlorine STN      | 17-Feb-15    | 307          | 8.13        | 0.12        | 0.06            | 0.01            | 10.5        |
| 13600 Blk. Marine Drive STN | 18-Feb-15    | 272          | 7.79        | 0.08        | 0.01            | 0.02            | 11.4        |
| 15600 Blk. Moffat Lane      | 18-Feb-15    | 301          | 7.98        | 0.17        | 0.06            | 0.27            | 12.3        |
| Well #2 Pump House          | 18-Feb-15    | 299          | 7.71        | 0.23        | 0.03            | 0.03            | 10.8        |
| 14800 Blk. Marine Drive     | 18-Feb-15    | 536          | 7.67        | 0.08        | 0.04            | 0.01            | 16.4        |
| Peace Arch Hospital         | 24-Feb-15    | 307          | 7.90        | 0.12        | 0.05            | 0.60            | 12.3        |
| Merklin & Thrift            | 24-Feb-15    | 306          | 8.02        | 0.07        | 0.08            | 0.72            | 11.0        |
| Merklin Low Reservoir - 25% | 24-Feb-15    | 304          | 8.11        | 0.27        | 0.05            | 0.11            | 9.0         |
| Merklin Low Reservoir - 50% | 24-Feb-15    | 303          | 8.12        | 0.27        | 0.05            | 0.10            | 9.1         |
| Merklin Low Reservoir - 75% | 24-Feb-15    | 304          | 8.12        | 0.21        | 0.05            | 0.09            | 9.3         |
| Roper Reservoir - 25%       | 24-Feb-15    | 388          | 8.00        | 0.13        | 0.04            | 0.17            | 10.1        |
| Roper Reservoir - 50%       | 24-Feb-15    | 391          | 7.95        | 0.12        | 0.08            | 0.17            | 10.0        |
| Merklin High Reservoir      | 24-Feb-15    | 307          | 8.09        | 0.25        | 0.05            | 0.58            | 9.9         |
| Malabar STN                 | 24-Feb-15    | 279          | 7.96        | 0.10        | 0.03            | 0.02            | 10.2        |
| Well #5 - Buena Vista       | 24-Feb-15    | 530          | 7.80        | 0.1         | 0.05            | 0.02            | 11.2        |
| Well #1 - Oxford            | 25-Feb-15    | 276          | 7.93        | 0.09        | 0.01            | 0.01            | 10.7        |
| Kent Activity Centre        | 25-Feb-15    | 306          | 8.27        | 0.16        | 0.06            | 0.62            | 12.5        |
| Mann Park STN               | 25-Feb-15    | 274          | 8.13        | 0.06        | 0.03            | 0.02            | 11.7        |
| Marine & Stayte STN         | 25-Feb-15    | 451          | 7.99        | 0.09        | 0.03            | 0.04            | 12.2        |
| <b>Min</b>                  |              | <b>232</b>   | <b>7.67</b> | <b>0.06</b> | <b>&lt;0.02</b> | <b>&lt;0.02</b> | <b>8.4</b>  |
| <b>Max</b>                  |              | <b>536</b>   | <b>8.27</b> | <b>0.27</b> | <b>0.08</b>     | <b>0.77</b>     | <b>18.8</b> |
| <b>Average</b>              |              | <b>330</b>   | <b>7.99</b> | <b>0.14</b> | <b>0.04</b>     | <b>0.22</b>     | <b>11.1</b> |

Epcor Water Quality Testing January to October 2015

**In-House Water Testing Results March 2015**

| Sampling Location           | Date Sampled | Conductivity | pH          | Turbidity   | Free Cl         | Total Cl        | Temp        |
|-----------------------------|--------------|--------------|-------------|-------------|-----------------|-----------------|-------------|
|                             |              | µS/cm        |             | NTU         | mg/L            | mg/L            |             |
| Peace Arch Hospital         | 3-Mar-15     | 303          | 8.03        | 0.26        | 0.04            | 0.41            | 14.0        |
| Merklin & Thrift            | 3-Mar-15     | 307          | 8.18        | 0.07        | 0.03            | 0.67            | 9.9         |
| Merklin Low Reservoir - 25% | 3-Mar-15     | 301          | 8.17        | 0.33        | 0.08            | 0.27            | 9.9         |
| Merklin Low Reservoir - 50% | 3-Mar-15     | 306          | 8.17        | 0.35        | 0.06            | 0.26            | 10.7        |
| Merklin Low Reservoir - 75% | 3-Mar-15     | 306          | 8.14        | 0.35        | 0.08            | 0.27            | 10.2        |
| Roper Reservoir - 25%       | 3-Mar-15     | 395          | 8.12        | 0.11        | 0.05            | 0.10            | 9.9         |
| Roper Reservoir - 50%       | 3-Mar-15     | 383          | 8.02        | 0.12        | 0.04            | 0.09            | 9.9         |
| Merklin High Reservoir      | 3-Mar-15     | 309          | 8.16        | 0.23        | 0.03            | 0.56            | 11.4        |
| Stevens STN                 | 3-Mar-15     | 303          | 8.21        | 0.13        | 0.02            | 0.55            | 10.1        |
| Well #3 - Oxford            | 3-Mar-15     | 258          | 8.20        | 0.12        | 0.05            | 0.01            | 9.8         |
| Whale House                 | 4-Mar-15     | 350          | 7.79        | 0.08        | 0.02            | 0.04            | 11.5        |
| Well #6 - Valve Chamber     | 4-Mar-15     |              |             |             |                 |                 |             |
| Bergstrom Residence         | 4-Mar-15     | 289          | 7.93        | 0.09        | 0.02            | 0.04            | 11.1        |
| WR Washroom                 | 4-Mar-15     | 517          | 7.76        | 0.06        | 0.01            | 0.01            | 11.7        |
| Magdalen & Bishop           | 4-Mar-15     | 276          | 7.95        | 0.06        | 0.01            | 0.01            | 10.7        |
| Peace Arch Hospital         | 11-Mar-15    | 306          | 8.19        | 0.11        | 0.07            | 0.63            | 12.2        |
| Merklin & Thrift            | 11-Mar-15    | 307          | 8.28        | 0.07        | 0.07            | 0.71            | 11.0        |
| Merklin Low Reservoir (25%) | 12-Mar-15    | 304          | 8.09        | 0.36        | 0.09            | 0.22            | 11.9        |
| Merklin Low Reservoir (50%) | 12-Mar-15    | 305          | 8.04        | 0.36        | 0.10            | 0.19            | 10.3        |
| Merklin Low Reservoir (75%) | 12-Mar-15    | 306          | 8.05        | 0.35        | 0.09            | 0.20            | 11.3        |
| Roper Reservoir - 25%       | 12-Mar-15    | 377          | 7.94        | 0.09        | 0.05            | 0.20            | 11.0        |
| Roper Reservoir - 50%       | 12-Mar-15    | 376          | 7.94        | 0.12        | 0.03            | 0.22            | 11.2        |
| Merklin High Reservoir      | 12-Mar-15    | 306          | 8.05        | 0.21        | 0.05            | 0.62            | 10.2        |
| 1100 Blk. Centre Street     | 11-Mar-15    | 305          | 8.33        | 0.10        | 0.05            | 0.61            | 12.1        |
| Well #4 - Valve Chamber     | 11-Mar-15    |              |             |             |                 |                 |             |
| Maple & Columbia            | 11-Mar-15    | 437          | 8.18        | 0.08        | 0.02            | 0.07            | 11.8        |
| Centennial Arena            | 11-Mar-15    | 279          | 8.35        | 0.06        | 0.03            | 0.01            | 15.1        |
| Penny Lane                  | 11-Mar-15    | 279          | 8.42        | 0.07        | 0.05            | 0.08            | 13.7        |
| 14000 Blk. North Bluff Road | 11-Mar-15    | 279          | 8.36        | 0.07        | 0.04            | 0.03            | 16.2        |
| Peace Arch Hospital         | 17-Mar-15    | 312          | 7.80        | 0.14        | 0.00            | 0.60            | 12.8        |
| Merklin & Thrift            | 17-Mar-15    | 313          | 7.94        | 0.08        | 0.03            | 0.53            | 11.0        |
| Merklin Low Reservoir - 25% | 17-Mar-15    | 303          | 8.06        | 0.37        | 0.08            | 0.18            | 9.9         |
| Merklin Low Reservoir - 50% | 17-Mar-15    | 314          | 8.09        | 0.37        | 0.08            | 0.17            | 10.5        |
| Merklin Low Reservoir - 75% | 17-Mar-15    | 313          | 8.09        | 0.34        | 0.07            | 0.16            | 11.3        |
| Roper Reservoir - 25%       | 17-Mar-15    | 391          | 7.93        | 0.12        | 0.03            | 0.18            | 10.4        |
| Roper Reservoir - 50%       | 17-Mar-15    | 390          | 7.94        | 0.15        | 0.04            | 0.18            | 11.6        |
| Merklin High Reservoir      | 17-Mar-15    | 312          | 8.08        | 0.21        | 0.03            | 0.62            | 10.0        |
| EPCOR Office                | 17-Mar-15    | 303          | 8.12        | 0.15        | 0.06            | 0.29            | 17.8        |
| Well #7 - Chlorine STN      | 17-Mar-15    | 311          | 8.10        | 0.11        | 0.03            | 0.02            | 9.9         |
| 13600 Blk. Marine Drive STN | 18-Mar-15    | 275          | 7.85        | 0.08        | 0.03            | 0.01            | 10.3        |
| 15600 Blk. Moffat Lane      | 18-Mar-15    | 309          | 8.00        | 0.17        | 0.06            | 0.39            | 11.3        |
| Well #2 Pump House          | 18-Mar-15    | 297          | 7.76        | 0.36        | 0.02            | 0.01            | 10.3        |
| 14800 Blk. Marine Drive     | 18-Mar-15    | 534          | 7.71        | 0.07        | 0.02            | 0.01            | 15.1        |
| Peace Arch Hospital         | 24-Mar-15    | 313          | 8.10        | 0.12        | 0.07            | 0.66            | 14.6        |
| Merklin & Thrift            | 24-Mar-15    | 314          | 8.02        | 0.10        | 0.07            | 0.70            | 11.3        |
| Merklin Low Reservoir - 25% | 25-Mar-15    | 303          | 7.99        | 0.33        | 0.06            | 0.29            | 9.6         |
| Merklin Low Reservoir - 50% | 25-Mar-15    | 306          | 8.01        | 0.33        | 0.04            | 0.29            | 9.5         |
| Merklin Low Reservoir - 75% | 25-Mar-15    | 306          | 8.05        | 0.33        | 0.04            | 0.29            | 9.5         |
| Roper Reservoir - 25%       | 25-Mar-15    | 389          | 7.94        | 0.11        | 0.03            | 0.15            | 10.2        |
| Roper Reservoir - 50%       | 25-Mar-15    | 388          | 7.91        | 0.11        | 0.02            | 0.12            | 10.1        |
| Merklin High Reservoir      | 25-Mar-15    | 309          | 8.07        | 0.20        | 0.18            | 0.45            | 12.3        |
| Malabar STN                 | 24-Mar-15    | 273          | 8.00        | 0.07        | 0.04            | 0.01            | 11.4        |
| Well #5 - Buena Vista       | 24-Mar-15    | 540          | 7.84        | 0.06        | 0.00            | 0.00            | 12.1        |
| Well #1 - Oxford            | 24-Mar-15    | 282          | 8.02        | 0.06        | 0.03            | 0.05            | 10.2        |
| Kent Activity Centre        | 24-Mar-15    | 313          | 8.18        | 0.12        | 0.06            | 0.64            | 12.1        |
| Mann Park STN               | 24-Mar-15    | 276          | 8.13        | 0.07        | 0.04            | 0.02            | 11.1        |
| Marine & Stayte STN         | 24-Mar-15    | 467          | 7.97        | 0.11        | 0.05            | 0.02            | 11.7        |
| Peace Arch Hospital         | 31-Mar-15    | 299          | 8.07        | 0.13        | 0.04            | 0.65            | 11.0        |
| Merklin & Thrift            | 31-Mar-15    | 319          | 8.11        | 0.14        | 0.07            | 0.56            | 11.2        |
| Merklin Low Reservoir - 25% | 31-Mar-15    | 310          | 8.23        | 0.36        | 0.08            | 0.26            | 11.7        |
| Merklin Low Reservoir - 50% | 31-Mar-15    | 306          | 8.31        | 0.35        | 0.08            | 0.25            | 11.3        |
| Merklin Low Reservoir - 75% | 31-Mar-15    | 313          | 8.39        | 0.32        | 0.06            | 0.23            | 11.8        |
| Roper Reservoir - 25%       | 31-Mar-15    | 394          | 8.28        | 0.10        | 0.05            | 0.22            | 11.0        |
| Roper Reservoir - 50%       | 31-Mar-15    | 394          | 8.40        | 0.11        | 0.05            | 0.16            | 10.9        |
| Merklin High Reservoir      | 31-Mar-15    | 310          | 7.97        | 0.20        | 0.08            | 0.60            | 9.7         |
| Stevens STN                 | 31-Mar-15    | 307          | 7.95        | 0.14        | 0.05            | 0.65            | 10.9        |
| Well #3 - Oxford            | 31-Mar-15    | 259          | 7.97        | 0.13        | 0.03            | 0.07            | 13.1        |
| <b>Min</b>                  |              | <b>258</b>   | <b>7.71</b> | <b>0.06</b> | <b>&lt;0.02</b> | <b>&lt;0.02</b> | <b>9.5</b>  |
| <b>Max</b>                  |              | <b>540</b>   | <b>8.42</b> | <b>0.37</b> | <b>0.18</b>     | <b>0.71</b>     | <b>17.8</b> |
| <b>Average</b>              |              | <b>330</b>   | <b>8.07</b> | <b>0.17</b> | <b>0.05</b>     | <b>0.26</b>     | <b>11.4</b> |

Epcor Water Quality Testing January to October 2015

**In-House Water Testing Results April 2015**

| Sampling Location            | Date Sampled | Conductivity | pH          | Turbidity   | Free Cl         | Total Cl        | Temp        |
|------------------------------|--------------|--------------|-------------|-------------|-----------------|-----------------|-------------|
|                              |              | µS/cm        |             | NTU         | mg/L            | mg/L            |             |
| Whale House                  | 1-Apr-15     | 294          | 7.61        | 0.08        | 0.04            | 0.06            | 17.5        |
| Bergstrom Residence          | 1-Apr-15     | 535          | 7.71        | 0.10        | 0.02            | 0.04            | 12.4        |
| WR Washroom                  | 1-Apr-15     | 288          | 7.65        | 0.11        | 0.02            | 0.01            | 14.7        |
| Magdalen & Bishop            | 1-Apr-15     | 309          | 7.74        | 0.07        | 0.02            | 0.01            | 11.5        |
| Peace Arch Hospital          | 7-Apr-15     | 307          | 7.91        | 0.12        | 0.07            | 0.63            | 12.6        |
| Merklin & Thrift             | 7-Apr-15     | 309          | 8.02        | 0.10        | 0.00            | 0.72            | 10.9        |
| Merklin Low Reservoir (25%)  | 7-Apr-15     | 304          | 8.15        | 0.37        | 0.08            | 0.27            | 13.7        |
| Merklin Low Reservoir (50%)  | 7-Apr-15     | 305          | 8.11        | 0.37        | 0.07            | 0.21            | 13.3        |
| Merklin Low Reservoir (75%)  | 7-Apr-15     | 309          | 8.14        | 0.27        | 0.07            | 0.19            | 13.9        |
| Roper Reservoir - 25%        | 7-Apr-15     | 398          | 7.99        | 0.12        | 0.05            | 0.16            | 11.5        |
| Roper Reservoir - 50%        | 7-Apr-15     | 399          | 7.95        | 0.11        | 0.05            | 0.15            | 11.8        |
| Merklin High Reservoir       | 7-Apr-15     | 311          | 8.06        | 0.22        | 0.05            | 0.62            | 9.9         |
| 1100 Blk. Centre Street      | 7-Apr-15     | 310          | 8.1         | 0.08        | 0.04            | 0.67            | 14.7        |
| Well #4 - Valve Chamber      | 7-Apr-15     | 269          | 8.07        | 0.10        | 0.05            | 0.00            | 9.9         |
| Maple & Columbia             | 8-Apr-15     | 465          | 7.65        | 0.06        | 0.05            | 0.09            | 13.3        |
| Centennial Arena             | 8-Apr-15     | 283          | 7.77        | 0.05        | 0.03            | 0.01            | 18.0        |
| Penny Lane                   | 8-Apr-15     |              |             |             |                 |                 |             |
| 14000 Blk. North Bluff Road  | 8-Apr-15     | 281          | 7.85        | 0.06        | 0.01            | 0.01            | 16.7        |
| Peace Arch Hospital          | 14-Apr-15    | 308          | 7.8         | 0.13        | 0.01            | 0.62            | 14.0        |
| Merklin & Thrift             | 14-Apr-15    | 308          | 7.86        | 0.07        | 0.04            | 0.67            | 12.0        |
| Merklin Low Reservoir - 25%  | 14-Apr-15    | 303          | 7.98        | 0.34        | 0.08            | 0.39            | 11.6        |
| Merklin Low Reservoir - 50%  | 14-Apr-15    | 306          | 7.94        | 0.35        | 0.06            | 0.30            | 11.5        |
| Merklin Low Reservoir - 75%  | 14-Apr-15    | 304          | 7.95        | 0.34        | 0.06            | 0.29            | 12.0        |
| Roper Reservoir - 25%        | 14-Apr-15    | 358          | 7.9         | 0.13        | 0.05            | 0.19            | 10.9        |
| Roper Reservoir - 50%        | 14-Apr-15    | 357          | 7.83        | 0.14        | 0.04            | 0.17            | 10.8        |
| Merklin High Reservoir       | 14-Apr-15    | 310          | 7.93        | 0.22        | 0.06            | 0.58            | 10.3        |
| EPCOR Office                 | 14-Apr-15    | 286          | 7.98        | 0.14        | 0.08            | 0.26            | 18.0        |
| Well #7 - Chlorine STN       | 14-Apr-15    | 308          | 7.98        | 0.09        | 0.04            | 0.02            | 11.1        |
| 13600 Blk. Marine Drive STN  | 15-Apr-15    | 286          | 7.67        | 0.11        | 0.03            | 0.02            | 12.6        |
| 15600 Blk. Moffat Lane       | 15-Apr-15    | 303          | 7.95        | 0.16        | 0.05            | 0.44            | 13.9        |
| Well #2 Pump House           | 15-Apr-15    | 280          | 7.77        | 0.32        | 0.04            | 0.01            | 10.3        |
| 14800 Blk. Marine Drive      | 15-Apr-15    | 533          | 7.64        | 0.05        | 0.02            | 0.02            | 14.2        |
| Peace Arch Hospital          | 21-Apr-15    | 308          | 8.1         | 0.10        | 0.05            | 0.65            | 13.5        |
| Merklin & Thrift             | 21-Apr-15    | 309          | 8.16        | 0.09        | 0.04            | 0.71            | 12.3        |
| Merklin Low Reservoir - 25%  | 21-Apr-15    | 305          | 8.24        | 0.35        | 0.07            | 0.27            | 12.5        |
| Merklin Low Reservoir - 50%  | 21-Apr-15    | 305          | 8.27        | 0.34        | 0.08            | 0.24            | 12.3        |
| Merklin Low Reservoir - 75%  | 21-Apr-15    | 307          | 8.28        | 0.31        | 0.08            | 0.23            | 13.9        |
| Roper Reservoir - 25%        | 21-Apr-15    | 387          | 8.18        | 0.11        | 0.04            | 0.15            | 12.5        |
| Roper Reservoir - 50%        | 21-Apr-15    | 387          | 8.18        | 0.11        | 0.04            | 0.15            | 12.3        |
| Merklin High Reservoir       | 21-Apr-15    | 309          | 8.26        | 0.18        | 0.05            | 0.63            | 10.4        |
| Malabar STN                  | 21-Apr-15    | 280          | 8.17        | 0.11        | 0.07            | 0.08            | 11.7        |
| Well #5 - Buena Vista        | 21-Apr-15    | 536          | 8.06        | 0.09        | 0.06            | 0.03            | 11.9        |
| Well #1 - Oxford             | 22-Apr-15    | 314          | 7.87        | 0.12        | 0.02            | 0.01            | 10.4        |
| Kent Activity Centre         | 22-Apr-15    | 310          | 8.01        | 0.12        | 0.08            | 0.65            | 14.6        |
| Mann Park STN                | 22-Apr-15    | 291          | 7.89        | 0.10        | 0.03            | 0.15            | 11.7        |
| Marine & Stayte STN          | 22-Apr-15    | 459          | 7.78        | 0.10        | 0.03            | 0.02            | 13.7        |
| Peace Arch Hospital          | 28-Apr-15    | 381          | 8.09        | 0.11        | 0.00            | 0.50            | 13.3        |
| Merklin & Thrift             | 28-Apr-15    | 362          | 8.22        | 0.15        | 0.06            | 0.61            | 13.1        |
| Merklin Low Reservoir - 25%  | 28-Apr-15    | 308          | 8.29        | 0.32        | 0.16            | 0.40            | 11.5        |
| Merklin Low Reservoir - 50%  | 28-Apr-15    | 303          | 8.33        | 0.32        | 0.08            | 0.30            | 11.5        |
| Merklin Low Reservoir - 75%  | 28-Apr-15    | 304          | 8.36        | 0.31        | 0.04            | 0.30            | 11.7        |
| Roper Reservoir - 25%        | 28-Apr-15    | 461          | 8.1         | 0.11        | 0.01            | 0.08            | 12.5        |
| Roper Reservoir - 50%        | 28-Apr-15    | 466          | 8.07        | 0.10        | 0.02            | 0.07            | 12.3        |
| Merklin High Reservoir       | 28-Apr-15    | 346          | 8.29        | 0.19        | 0.06            | 0.62            | 10.3        |
| Stevens STN                  | 28-Apr-15    | 385          | 8.36        | 0.13        | 0.08            | 0.66            | 12.2        |
| Well #3 - Oxford             | 28-Apr-15    | 251          | 8.34        | 0.09        | 0.05            | 0.02            | 9.7         |
| Whale House                  | 29-Apr-15    | 471          | 7.87        | 0.10        | 0.03            | 0.04            | 15.4        |
| Well #6 - Valve Chamber      | 29-Apr-15    | 377          | 8.24        | 0.08        | 0.02            | 0.02            | 10.1        |
| Bergstrom Residence - Tanner | 29-Apr-15    | 318          | 8.12        | 0.10        | 0.03            | 0.02            | 15.7        |
| WR Washroom                  | 29-Apr-15    | 490          | 8.03        | 0.10        | 0.01            | 0.03            | 17.9        |
| Magdalen & Bishop            | 29-Apr-15    | 277          | 8.11        | 0.09        | 0.02            | 0.01            | 12.9        |
| <b>Min</b>                   |              | <b>251</b>   | <b>7.61</b> | <b>0.05</b> | <b>&lt;0.02</b> | <b>&lt;0.02</b> | <b>9.7</b>  |
| <b>Max</b>                   |              | <b>536</b>   | <b>8.36</b> | <b>0.37</b> | <b>0.16</b>     | <b>0.72</b>     | <b>18.0</b> |
| <b>Average</b>               |              | <b>342</b>   | <b>8.02</b> | <b>0.16</b> | <b>0.05</b>     | <b>0.27</b>     | <b>12.7</b> |

# Epcor Water Quality Testing January to October 2015

## In-House Water Testing Results May 2015

| Sampling Location           | Date Sampled | Conductivity | pH          | Turbidity   | Free Cl     | Total Cl        | Temp        |
|-----------------------------|--------------|--------------|-------------|-------------|-------------|-----------------|-------------|
|                             |              | µS/cm        |             | NTU         | mg/L        | mg/L            |             |
| Peace Arch Hospital         | 5-May-15     | 368          | 8.11        | 0.11        | 0.08        | 0.66            | 14.3        |
| Merklin & Thrift            | 5-May-15     | 365          | 8.22        | 0.12        | 0.09        | 0.80            | 11.9        |
| Merklin Low Reservoir (25%) | 5-May-15     | 303          | 8.29        | 0.33        | 0.06        | 0.25            | 12.6        |
| Merklin Low Reservoir (50%) | 5-May-15     | 304          | 8.33        | 0.32        | 0.05        | 0.24            | 12.5        |
| Merklin Low Reservoir (75%) | 5-May-15     | 305          | 8.35        | 0.29        | 0.06        | 0.23            | 14.3        |
| Roper Reservoir - 25%       | 5-May-15     | 438          | 8.18        | 0.09        | 0.03        | 0.10            | 12.4        |
| Roper Reservoir - 50%       | 5-May-15     | 438          | 8.17        | 0.10        | 0.03        | 0.11            | 12.3        |
| Merklin High Reservoir      | 5-May-15     | 368          | 8.23        | 0.09        | 0.07        | 0.67            | 10.4        |
| 1100 Blk. Centre Street     | 5-May-15     | 359          | 8.38        | 0.06        | 0.08        | 0.55            | 14.1        |
| Well #4 - Valve Chamber     | 5-May-15     | 291          | 8.31        | 0.09        | 0.04        | 0.00            | 10.1        |
| Maple & Columbia            | 6-May-15     | 517          | 7.55        | 0.11        | 0.06        | 0.03            | 16.0        |
| Centennial Arena            | 6-May-15     | 276          | 7.75        | 0.10        | 0.03        | 0.00            | 16.0        |
| Penny Lane                  | 6-May-15     |              |             |             |             |                 |             |
| 14000 Blk. North Bluff Road | 6-May-15     | 279          | 7.78        | 0.06        | 0.05        | 0.02            | 21.6        |
| Peace Arch Hospital         | 12-May-15    | 298          | 8.03        | 0.10        | 0.13        | 0.64            | 14.9        |
| Merklin & Thrift            | 12-May-15    | 298          | 7.92        | 0.08        | 0.10        | 0.68            | 13.3        |
| Merklin Low Reservoir - 25% | 12-May-15    | 310          | 8.09        | 0.33        | 0.04        | 0.20            | 13.3        |
| Merklin Low Reservoir - 50% | 12-May-15    | 315          | 8.15        | 0.32        | 0.05        | 0.20            | 13.8        |
| Merklin Low Reservoir - 75% | 12-May-15    | 312          | 8.12        | 0.26        | 0.05        | 0.17            | 17.6        |
| Roper Reservoir - 25%       | 12-May-15    | 440          | 7.95        | 0.10        | 0.06        | 0.13            | 15.9        |
| Roper Reservoir - 50%       | 12-May-15    | 454          | 7.98        | 0.11        | 0.02        | 0.11            | 16.5        |
| Merklin High Reservoir      | 12-May-15    | 315          | 8.02        | 0.12        | 0.06        | 0.65            | 10.7        |
| EPCOR Office                | 12-May-15    | 310          | 8.06        | 0.13        | 0.13        | 0.43            | 18.6        |
| Well #7 - Chlorine STN      | 12-May-15    | 299          | 8.08        | 0.08        | 0.05        | 0.02            | 10.6        |
| 13600 Blk. Marine Drive STN | 13-May-15    | 274          | 7.79        | 0.11        | 0.03        | 0.01            | 15.9        |
| 15600 Blk. Moffat Lane      | 13-May-15    | 296          | 8.02        | 0.13        | 0.07        | 0.38            | 16.9        |
| Well #2 Pump House          | 13-May-15    | 276          | 7.85        | 0.28        | 0.03        | 0.02            | 10.3        |
| 14800 Blk. Marine Drive     | 13-May-15    | 537          | 7.69        | 0.09        | 0.05        | 0.02            | 15.4        |
| Peace Arch Hospital         | 19-May-15    | 302          | 8.05        | 0.11        | 0.10        | 0.66            | 13.3        |
| Merklin & Thrift            | 19-May-15    | 302          | 8.14        | 0.15        | 0.07        | 0.69            | 12.9        |
| Merklin Low Reservoir - 25% | 19-May-15    | 311          | 8.19        | 0.33        | 0.06        | 0.18            | 14.6        |
| Merklin Low Reservoir - 50% | 19-May-15    | 340          | 8.33        | 0.32        | 0.05        | 0.18            | 15.6        |
| Merklin Low Reservoir - 75% | 19-May-15    | 330          | 8.31        | 0.21        | 0.07        | 0.09            | 20.8        |
| Roper Reservoir - 25%       | 19-May-15    | 416          | 8.04        | 0.11        | 0.06        | 0.11            | 15.8        |
| Roper Reservoir - 50%       | 19-May-15    | 410          | 8.05        | 0.12        | 0.06        | 0.11            | 16.0        |
| Merklin High Reservoir      | 19-May-15    | 305          | 8.20        | 0.19        | 0.06        | 0.62            | 10.5        |
| Malabar STN                 | 19-May-15    | 276          | 8.03        | 0.11        | 0.08        | 0.05            | 12.7        |
| Well #5 - Buena Vista       | 19-May-15    | 544          | 7.89        | 0.05        | 0.07        | 0.01            | 12.4        |
| Well #1 - Oxford            | 20-May-15    | 283          | 7.99        | 0.09        | 0.03        | 0.01            | 10.2        |
| Kent Activity Centre        | 20-May-15    | 307          | 8.07        | 0.12        | 0.05        | 0.64            | 17.9        |
| Mann Park STN               | 20-May-15    | 274          | 7.93        | 0.11        | 0.03        | 0.03            | 11.9        |
| Marine & Stayte STN         | 20-May-15    | 453          | 7.82        | 0.07        | 0.01        | 0.02            | 17.2        |
| Peace Arch Hospital         | 26-May-15    | 354          | 7.96        | 0.12        | 0.05        | 0.67            | 13.7        |
| Merklin & Thrift            | 26-May-15    | 354          | 8.03        | 0.12        | 0.04        | 0.72            | 13.1        |
| Merklin Low Reservoir - 25% | 26-May-15    | 307          | 8.13        | 0.35        | 0.06        | 0.15            | 15.0        |
| Merklin Low Reservoir - 50% | 26-May-15    | 304          | 8.15        | 0.30        | 0.05        | 0.10            | 15.1        |
| Merklin Low Reservoir - 75% | 26-May-15    | 307          | 8.16        | 0.17        | 0.04        | 0.02            | 19.2        |
| Roper Reservoir - 25%       | 26-May-15    | 404          | 7.93        | 0.09        | 0.04        | 0.07            | 14.8        |
| Roper Reservoir - 50%       | 26-May-15    | 408          | 7.90        | 0.10        | 0.04        | 0.08            | 14.9        |
| Merklin High Reservoir      | 26-May-15    | 353          | 8.09        | 0.09        | 0.05        | 0.69            | 10.9        |
| Stevens STN                 | 26-May-15    | 356          | 8.07        | 0.12        | 0.05        | 0.69            | 13.9        |
| Well #3 - Oxford            | 26-May-15    | 255          | 8.10        | 0.11        | 0.04        | 0.01            | 9.9         |
| Whale House                 | 27-May-15    | 475          | 7.25        | 0.08        | 0.04        | 0.03            | 18.7        |
| Well #6 - Valve Chamber     | 27-May-15    | 351          | 7.56        | 0.10        | 0.04        | 0.02            | 10.4        |
| Bergstrom Residence         | 27-May-15    | 276          | 7.45        | 0.06        | 0.02        | 0.02            | 18.2        |
| WR Washroom                 | 27-May-15    | 531          | 7.29        | 0.14        | 0.02        | 0.01            | 19.6        |
| Magdalen & Bishop           | 27-May-15    | 280          | 7.43        | 0.12        | 0.03        | 0.02            | 14.7        |
| <b>Min</b>                  |              | <b>255</b>   | <b>7.25</b> | <b>0.05</b> | <b>0.01</b> | <b>&lt;0.02</b> | <b>9.9</b>  |
| <b>Max</b>                  |              | <b>544</b>   | <b>8.38</b> | <b>0.35</b> | <b>0.13</b> | <b>0.80</b>     | <b>21.6</b> |
| <b>Average</b>              |              | <b>348</b>   | <b>8.00</b> | <b>0.15</b> | <b>0.05</b> | <b>0.25</b>     | <b>14.4</b> |

Epcor Water Quality Testing January to October 2015

| In-House Water Testing Results June 2015 |              |              |      |           |         |          |      |
|------------------------------------------|--------------|--------------|------|-----------|---------|----------|------|
| Sampling Location                        | Date Sampled | Conductivity | pH   | Turbidity | Free Cl | Total Cl | Temp |
|                                          |              | µS/cm        |      | NTU       | mg/L    | mg/L     |      |
| Peace Arch Hospital                      | 2-Jun-15     | 296          | 7.98 | 0.11      | 0.09    | 0.63     | 15.8 |
| Merklin & Thrift                         | 2-Jun-15     | 312          | 8.03 | 0.06      | 0.04    | 0.71     | 14.9 |
| Merklin Low Reservoir (25%)              | 2-Jun-15     | N/A          | N/A  | N/A       | N/A     | -        | -    |
| Merklin Low Reservoir (50%)              | 2-Jun-15     | N/A          | N/A  | N/A       | N/A     | -        | -    |
| Merklin Low Reservoir (75%)              | 2-Jun-15     | N/A          | N/A  | N/A       | N/A     | -        | -    |
| Roper Reservoir - 25%                    | 2-Jun-15     | 400          | 7.93 | 0.10      | 0.05    | 0.08     | 15.4 |
| Roper Reservoir - 50%                    | 2-Jun-15     | 387          | 7.94 | 0.11      | 0.03    | 0.07     | 15.3 |
| Merklin High Reservoir                   | 2-Jun-15     | 317          | 8.00 | 0.09      | 0.07    | 0.63     | 10.9 |
| 1100 Blk. Centre Street                  | 2-Jun-15     | 298          | 8.04 | 0.08      | 0.10    | 0.61     | 14.9 |
| Well #4 - Valve Chamber                  | 2-Jun-15     | 298          | 8.02 | 0.20      | 0.02    | 0.00     | 10.9 |
| Maple & Columbia                         | 3-Jun-15     | 507          | 7.66 | 0.06      | 0.03    | 0.02     | 19.6 |
| Centennial Arena                         | 3-Jun-15     | 278          | 7.89 | 0.09      | 0.02    | 0.01     | 14.3 |
| 14000 Blk. North Bluff Road              | 3-Jun-15     | 266          | 8.00 | 0.08      | 0.03    | 0.04     | 20.1 |
| Peace Arch Hospital                      | 9-Jun-15     | 310          | 7.93 | 0.10      | 0.08    | 0.61     | 15.3 |
| Merklin & Thrift                         | 9-Jun-15     | 289          | 8.02 | 0.22      | 0.08    | 0.85     | 15.3 |
| Merklin Low Reservoir - 25%              | 9-Jun-15     | 283          | 8.04 | 0.27      | 0.08    | 0.42     | 15.4 |
| Merklin Low Reservoir - 50%              | 9-Jun-15     | 290          | 8.03 | 0.27      | 0.08    | 0.39     | 15.5 |
| Merklin Low Reservoir - 75%              | 9-Jun-15     | 286          | 8.01 | 0.26      | 0.08    | 0.40     | 17.5 |
| Roper Reservoir - 25%                    | 9-Jun-15     | 366          | 7.88 | 0.12      | 0.04    | 0.06     | 17.9 |
| Roper Reservoir - 50%                    | 9-Jun-15     | 364          | 7.89 | 0.12      | 0.03    | 0.05     | 17.3 |
| Merklin High Reservoir                   | 9-Jun-15     | 288          | 8.02 | 0.20      | 0.02    | 0.61     | 12.3 |
| EPCOR Office                             | 9-Jun-15     | 272          | 8.04 | 0.16      | 0.00    | 0.29     | 19.8 |
| Well #7 - Chlorine STN                   | 9-Jun-15     | 283          | 8.05 | 0.09      | 0.05    | 0.02     | 11.8 |
| 13600 Blk. Marine Drive STN              | 10-Jun-15    | 266          | 7.86 | 0.09      | 0.03    | 0.02     | 17.9 |
| 15600 Blk. Moffat Lane                   | 10-Jun-15    | 284          | 8.07 | 0.15      | 0.05    | 0.42     | 19.6 |
| Well #2 Pump House                       | 10-Jun-15    | 271          | 7.92 | 0.12      | 0.03    | 0.03     | 10.7 |
| 14800 Blk. Marine Drive                  | 10-Jun-15    | 523          | 7.78 | 0.07      | 0.02    | 0.02     | 17.2 |
| Peace Arch Hospital                      | 16-Jun-15    | 315          | 7.94 | 0.14      | 0.09    | 0.65     | 13.9 |
| Merklin & Thrift                         | 16-Jun-15    | 330          | 8.09 | 0.06      | 0.09    | 0.65     | 13.6 |
| Merklin Low Reservoir - 25%              | 16-Jun-15    | 284          | 8.14 | 0.26      | 0.07    | 0.32     | 15.4 |
| Merklin Low Reservoir - 50%              | 16-Jun-15    | 286          | 8.13 | 0.25      | 0.07    | 0.32     | 16.1 |
| Merklin Low Reservoir - 75%              | 16-Jun-15    | 285          | 8.37 | 0.21      | 0.04    | 0.27     | 24.9 |
| Roper Reservoir - 25%                    | 16-Jun-15    | N/A          | N/A  | N/A       | N/A     | -        | -    |
| Roper Reservoir - 50%                    | 16-Jun-15    | N/A          | N/A  | N/A       | N/A     | -        | -    |
| Merklin High Reservoir                   | 16-Jun-15    | 317          | 8.14 | 0.11      | 0.06    | 0.64     | 11.2 |
| Malabar STN                              | 16-Jun-15    | 270          | 8.07 | 0.13      | 0.07    | 0.04     | 11.8 |
| Well #5 - Buena Vista                    | 24-Jun-15    | 529          | 7.89 | 0.10      | 0.08    | 0.03     | 13.6 |
| Well #1 - Oxford                         | 17-Jun-15    | 257          | 7.92 | 0.09      | 0.03    | 0.03     | 10.5 |
| Kent Activity Centre                     | 17-Jun-15    | 308          | 8.14 | 0.13      | 0.08    | 0.67     | 16.6 |
| Mann Park STN                            | 17-Jun-15    | 265          | 7.93 | 0.07      | 0.02    | 0.02     | 12.3 |
| Marine & Stayte STN                      | 17-Jun-15    | 270          | 8.01 | 0.09      | 0.02    | 0.02     | 19.4 |
| Peace Arch Hospital                      | 23-Jun-15    | 313          | 8.14 | 0.09      | 0.08    | 0.66     | 13.5 |
| Merklin & Thrift                         | 23-Jun-15    | 337          | 8.14 | 0.08      | 0.06    | 0.68     | 14.7 |
| Merklin Low Reservoir - 25%              | 23-Jun-15    | 293          | 8.21 | 0.28      | 0.07    | 0.31     | 17.1 |
| Merklin Low Reservoir - 50%              | 23-Jun-15    | 315          | 8.27 | 0.28      | 0.08    | 0.31     | 17.1 |
| Merklin Low Reservoir - 75%              | 23-Jun-15    | 295          | 8.25 | 0.26      | 0.06    | 0.30     | 19.4 |
| Roper Reservoir - 25%                    | 23-Jun-15    | 297          | 8.16 | 0.11      | 0.06    | 0.14     | 16.2 |
| Roper Reservoir - 50%                    | 23-Jun-15    | 307          | 8.19 | 0.12      | 0.05    | 0.10     | 15.7 |
| Merklin High Reservoir                   | 23-Jun-15    | 369          | 8.46 | 0.07      | 0.05    | 0.62     | 11.2 |
| Stevens STN                              | 23-Jun-15    | 246          | 8.28 | 0.08      | 0.11    | 0.68     | 13.8 |
| Well #3 - Oxford                         | 23-Jun-15    | 321          | 8.30 | 0.11      | 0.01    | 0.06     | 9.9  |
| Whale House                              | 24-Jun-15    | 404          | 7.91 | 0.11      | 0.04    | 0.04     | 19.4 |
| Well #6 - Valve Chamber                  | 24-Jun-15    | 338          | 8.20 | 0.10      | 0.04    | 0.03     | 10.1 |
| Bergstrom Residence                      | 24-Jun-15    | 271          | 8.00 | 0.07      | 0.02    | 0.01     | 19.0 |
| WR Washroom                              | 24-Jun-15    | 487          | 7.89 | 0.12      | 0.02    | 0.04     | 21.2 |
| Magdalen & Bishop                        | 24-Jun-15    | 267          | 8.04 | 0.11      | 0.05    | 0.03     | 15.4 |
| Peace Arch Hospital                      | 30-Jun-15    | 328          | 7.95 | 0.13      | 0.08    | 0.64     | 13.8 |
| Merklin & Thrift                         | 30-Jun-15    | 320          | 8.00 | 0.07      | 0.08    | 0.72     | 15.4 |
| Merklin Low Reservoir (25%)              | 30-Jun-15    | 293          | 8.06 | 0.23      | 0.09    | 0.38     | 17.2 |
| Merklin Low Reservoir (50%)              | 30-Jun-15    | 296          | 8.10 | 0.22      | 0.09    | 0.39     | 17.9 |
| Merklin Low Reservoir (75%)              | 30-Jun-15    | 296          | 8.09 | 0.22      | 0.08    | 0.40     | 17.9 |
| Roper Reservoir - 25%                    | 30-Jun-15    | 316          | 7.96 | 0.16      | 0.06    | 0.22     | 17.2 |
| Roper Reservoir - 50%                    | 30-Jun-15    | 308          | 8.01 | 0.19      | 0.08    | 0.21     | 17.4 |
| Merklin High Reservoir                   | 30-Jun-15    | 300          | 8.04 | 0.15      | 0.05    | 0.56     | 11.4 |
| 1100 Blk. Centre Street                  | 29-Jun-15    | 295          | 8.05 | 0.07      | 0.08    | 0.42     | 15.9 |
| Well #4 - Valve Chamber                  | 29-Jun-15    | 258          | 8.05 | 0.16      | 0.06    | 0.02     | 11.7 |
| Maple & Columbia                         | 29-Jun-15    | 497          | 7.81 | 0.06      | 0.01    | 0.00     | 26.4 |
| Centennial Arena                         | 29-Jun-15    | 255          | 8.00 | 0.05      | 0.04    | 0.05     | 19.3 |
| 14000 Blk. North Bluff Road              | 29-Jun-15    | 259          | 8.03 | 0.06      | 0.03    | 0.02     | 27.0 |
| Min                                      |              | 246          | 7.78 | 0.05      | <0.02   | <0.02    | 9.9  |
| Max                                      |              | 529          | 8.46 | 0.28      | 0.11    | 0.85     | 27.0 |
| Average                                  |              | 302          | 7.77 | 0.14      | 0.05    | 0.28     | 15.5 |

Epcor Water Quality Testing January to October 2015

**In-House Water Testing Results July 2015**

| Sampling Location            | Date Sampled | Conductivity | pH          | Turbidity   | Free Cl         | Total Cl        | Temp        |
|------------------------------|--------------|--------------|-------------|-------------|-----------------|-----------------|-------------|
|                              |              | µS/cm        |             | NTU         | mg/L            | mg/L            |             |
| Peace Arch Hospital          | 7-Jul-15     | 319          | 8.03        | 0.07        | 0.06            | 0.59            | 15.6        |
| Merklin & Thrift             | 7-Jul-15     | 312          | 8.06        | 0.09        | 0.09            | 0.67            | 15.1        |
| Merklin Low Reservoir - 25%  | 7-Jul-15     | 293          | 8.13        | 0.21        | 0.06            | 0.33            | 19.3        |
| Merklin Low Reservoir - 50%  | 7-Jul-15     | 303          | 8.12        | 0.21        | 0.07            | 0.34            | 20.7        |
| Merklin Low Reservoir - 75%  | 7-Jul-15     | 302          | 8.14        | 0.23        | 0.07            | 0.34            | 24.3        |
| Roper Reservoir - 25%        | 7-Jul-15     | 294          | 8.05        | 0.12        | 0.09            | 0.15            | 17.8        |
| Roper Reservoir - 50%        | 7-Jul-15     | 296          | 8.06        | 0.16        | 0.07            | 0.13            | 18.8        |
| Merklin High Reservoir       | 7-Jul-15     | 317          | 8.10        | 0.11        | 0.04            | 0.63            | 12.5        |
| EPCOR Office                 | 7-Jul-15     | 277          | 8.12        | 0.12        | 0.09            | 0.23            | 19.9        |
| Well #7 - Chlorine STN       | 7-Jul-15     | 289          | 8.11        | 0.08        | 0.03            | 0.02            | 12.7        |
| 13600 Blk. Marine Drive STN  | 8-Jul-15     | 261          | 7.96        | 0.11        | 0.08            | 0.05            | 18.4        |
| 15600 Blk. Moffat Lane       | 8-Jul-15     | 304          | 8.03        | 0.10        | 0.08            | 0.37            | 21.3        |
| Well #2 Pump House           | 8-Jul-15     |              |             |             |                 |                 |             |
| 14800 Blk. Marine Drive      | 8-Jul-15     | 529          | 7.74        | 0.07        | 0.07            | 0.10            | 18.4        |
| Peace Arch Hospital          | 14-Jul-15    | 307          | 8.02        | 0.10        | 0.10            | 0.37            | 13.6        |
| Merklin & Thrift             | 14-Jul-15    | 308          | 8.08        | 0.06        | 0.08            | 0.65            | 16.5        |
| Merklin Low Reservoir - 25%  | 14-Jul-15    | 296          | 8.16        | 0.22        | 0.08            | 0.30            | 18.2        |
| Merklin Low Reservoir - 50%  | 14-Jul-15    | 302          | 8.16        | 0.22        | 0.07            | 0.34            | 18.7        |
| Merklin Low Reservoir - 75%  | 14-Jul-15    | 301          | 8.21        | 0.20        | 0.07            | 0.27            | 22.4        |
| Roper Reservoir - 25%        | 14-Jul-15    | 319          | 8.17        | 0.16        | 0.10            | 0.27            | 17.2        |
| Roper Reservoir - 50%        | 14-Jul-15    | 313          | 8.15        | 0.13        | 0.09            | 0.17            | 16.5        |
| Merklin High Reservoir       | 14-Jul-15    | 303          | 8.10        | 0.10        | 0.04            | 0.61            | 11.3        |
| Malabar STN                  | 14-Jul-15    | 252          | 8.11        | 0.11        | 0.06            | 0.12            | 11.3        |
| Well #5 - Buena Vista        | 14-Jul-15    | 530          | 7.85        | 0.11        | 0.03            | 0.06            | 13.6        |
| Well #1 - Oxford             | 15-Jul-15    | 268          | 7.86        | 0.21        | 0.02            | 0.03            | 11.5        |
| Kent Activity Centre         | 15-Jul-15    | 308          | 8.05        | 0.12        | 0.06            | 0.63            | 18.8        |
| Mann Park STN                | 15-Jul-15    | 251          | 8.11        | 0.14        | 0.03            | <0.02           | 12.3        |
| Marine & Stayte STN          | 15-Jul-15    | 417          | 7.92        | 0.07        | 0.03            | 0.02            | 21.6        |
| Peace Arch Hospital          | 21-Jul-15    | 291          | 8.18        | 0.13        | 0.09            | 0.66            | 15.3        |
| Merklin & Thrift             | 21-Jul-15    | 289          | 8.16        | 0.11        | 0.09            | 0.67            | 17.0        |
| Merklin Low Reservoir - 25%  | 21-Jul-15    | 301          | 8.09        | 0.22        | 0.06            | 0.24            | 19.1        |
| Merklin Low Reservoir - 50%  | 21-Jul-15    | 303          | 8.16        | 0.23        | 0.06            | 0.24            | 21.1        |
| Merklin Low Reservoir - 75%  | 21-Jul-15    | 298          | 8.24        | 0.20        | 0.05            | 0.07            | 24.7        |
| Roper Reservoir - 25%        | 21-Jul-15    | 310          | 8.2         | 0.13        | 0.04            | 0.09            | 16.6        |
| Roper Reservoir - 50%        | 21-Jul-15    | 291          | 8.15        | 0.13        | <0.02           | 0.04            | 16.3        |
| Merklin High Reservoir       | 21-Jul-15    | 292          | 8.18        | 0.09        | <0.02           | 0.58            | 12.5        |
| Stevens STN                  | 21-Jul-15    | 288          | 8.2         | 0.14        | 0.07            | 0.64            | 15.7        |
| Well #3 - Oxford             | 21-Jul-15    | 255          | 8.17        | 0.13        | 0.04            | <0.02           | 10.5        |
| Whale House                  | 22-Jul-15    | 324          | 7.82        | 0.08        | 0.04            | 0.03            | 20.6        |
| Well #6 - Valve Chamber      | 22-Jul-15    | 353          | 8.07        | 0.15        | 0.05            | <0.02           | 10.2        |
| Bergstrom Residence - Tanner | 22-Jul-15    | 251          | 8.10        | 0.06        | 0.04            | 0.05            | 21.2        |
| WR Washroom                  | 22-Jul-15    | 481          | 7.90        | 0.08        | 0.07            | 0.07            | 23.6        |
| Magdalen & Bishop            | 22-Jul-15    | 249          | 8.08        | 0.15        | 0.05            | 0.05            | 15.8        |
| Peace Arch Hospital          | 28-Jul-15    | 334          | 8.01        | 0.13        | 0.10            | 0.63            | 14.9        |
| Merklin & Thrift             | 28-Jul-15    | 325          | 8.10        | 0.09        | 0.06            | 0.61            | 15.0        |
| Merklin Low Reservoir (25%)  | 28-Jul-15    | 295          | 8.17        | 0.24        | 0.05            | 0.17            | 19.3        |
| Merklin Low Reservoir (50%)  | 28-Jul-15    | 296          | 8.17        | 0.24        | 0.05            | 0.09            | 20.3        |
| Merklin Low Reservoir (75%)  | 28-Jul-15    | 297          | 8.27        | 0.16        | 0.03            | 0.05            | 23.6        |
| Roper Reservoir - 25%        | 29-Jul-15    | 275          | 7.94        | 0.12        | 0.03            | 0.12            | 17.9        |
| Roper Reservoir - 50%        | 29-Jul-15    | 274          | 8.04        | 0.11        | 0.02            | 0.06            | 18.0        |
| Merklin High Reservoir       | 28-Jul-15    | 327          | 8.21        | 0.10        | 0.05            | 0.53            | 11.9        |
| 1100 Blk. Centre Street      | 28-Jul-15    | 300          | 8.17        | 0.11        | 0.05            | 0.32            | 16.9        |
| Well #4 - Valve Chamber      | 28-Jul-15    | 254          | 8.17        | 0.10        | 0.03            | 0.02            | 11.6        |
| Maple & Columbia             | 29-Jul-15    | 499          | 7.90        | 0.06        | 0.02            | 0.02            | 20.5        |
| Centennial Arena             | 29-Jul-15    | 252          | 8.08        | 0.08        | <0.02           | 0.03            | 20.6        |
| Penny Lane                   | 29-Jul-15    |              |             |             |                 |                 |             |
| 14000 Blk. North Bluff Road  | 29-Jul-15    | 245          | 8.13        | 0.06        | <0.02           | 0.03            | 24.3        |
| <b>Min</b>                   |              | <b>245</b>   | <b>7.74</b> | <b>0.06</b> | <b>&lt;0.02</b> | <b>&lt;0.02</b> | <b>10.2</b> |
| <b>Max</b>                   |              | <b>530</b>   | <b>8.27</b> | <b>0.24</b> | <b>0.10</b>     | <b>0.67</b>     | <b>24.7</b> |
| <b>Average</b>               |              | <b>311</b>   | <b>8.08</b> | <b>0.13</b> | <b>0.05</b>     | <b>0.25</b>     | <b>17.3</b> |

# Epcor Water Quality Testing January to October 2015

## In-House Water Testing Results August 2015

| Sampling Location           | Date Sampled | Conductivity | pH   | Turbidity | Free Cl | Total Cl | Temp |
|-----------------------------|--------------|--------------|------|-----------|---------|----------|------|
|                             |              | µS/cm        |      | NTU       | mg/L    | mg/L     |      |
| Peace Arch Hospital         | 4-Aug-15     | 327          | 7.99 | 0.07      | 0.04    | 0.49     | 16.1 |
| Merklin & Thrift            | 4-Aug-15     | 327          | 8.10 | 0.07      | 0.09    | 0.79     | 13.7 |
| Merklin Low Reservoir - 25% | 4-Aug-15     | 307          | 8.18 | 0.28      | 0.05    | 0.04     | 19.4 |
| Merklin Low Reservoir - 50% | 4-Aug-15     | 304          | 8.21 | 0.27      | 0.06    | 0.03     | 20.6 |
| Merklin Low Reservoir - 75% | 4-Aug-15     | 299          | 8.32 | 0.18      | 0.03    | 0.04     | 24.1 |
| Roper Reservoir - 25%       | 5-Aug-15     | 270          | 7.74 | 0.10      | 0.04    | 0.05     | 14.3 |
| Roper Reservoir - 50%       | 5-Aug-15     | 271          | 7.96 | 0.09      | 0.03    | 0.06     | 14.2 |
| Merklin High Reservoir      | 4-Aug-15     | 324          | 8.18 | 0.09      | 0.08    | 0.64     | 11.7 |
| EPCOR Office                | 4-Aug-15     | 300          | 8.10 | 0.14      | 0.08    | 0.34     | 18.8 |
| Well #7 - Chlorine STN      | 4-Aug-15     | 285          | 8.19 | 0.08      | 0.02    | 0.03     | 10.9 |
| 13600 Blk. Marine Drive STN | 5-Aug-15     | 270          | 7.95 | 0.09      | 0.02    | <0.02    | 19.3 |
| 15600 Blk. Moffat Lane      | 5-Aug-15     | 358          | 8.07 | 0.06      | 0.02    | 0.06     | 21.6 |
| Well #2 Pump House          | 5-Aug-15     | 279          | 7.94 | 0.06      | <0.02   | 0.04     | 11.3 |
| 14800 Blk. Marine Drive     | 5-Aug-15     | 530          | 7.82 | 0.10      | <0.02   | 0.03     | 18.5 |
| Peace Arch Hospital         | 11-Aug-15    | 282          | 8.04 | 0.08      | 0.07    | 0.59     | 14.8 |
| Merklin & Thrift            | 11-Aug-15    | 280          | 8.19 | 0.07      | 0.07    | 0.53     | 14.3 |
| Merklin Low Reservoir - 25% | 11-Aug-15    | 306          | 8.21 | 0.21      | 0.06    | 0.20     | 18.5 |
| Merklin Low Reservoir - 50% | 11-Aug-15    | 303          | 8.27 | 0.21      | 0.05    | 0.21     | 17.6 |
| Merklin Low Reservoir - 75% | 11-Aug-15    | 307          | 8.27 | 0.20      | 0.05    | 0.20     | 18.5 |
| Roper Reservoir - 25%       | 11-Aug-15    | 272          | 8.23 | 0.11      | 0.05    | 0.18     | 16.0 |
| Roper Reservoir - 50%       | 11-Aug-15    | 269          | 8.20 | 0.11      | <0.02   | 0.14     | 15.4 |
| Merklin High Reservoir      | 11-Aug-15    | 286          | 8.23 | 0.10      | 0.03    | 0.57     | 11.4 |
| Malabar STN                 | 11-Aug-15    | 269          | 8.07 | 0.11      | 0.06    | 0.10     | 12.7 |
| Well #5 - Buena Vista       | 11-Aug-15    | 539          | 7.93 | 0.05      | 0.05    | <0.02    | 13.7 |
| Well #1 - Oxford            | 12-Aug-15    | 258          | 7.96 | 0.10      | <0.02   | <0.02    | 11.3 |
| Kent Activity Centre        | 12-Aug-15    | 309          | 8.10 | 0.06      | 0.06    | 0.73     | 19.7 |
| Mann Park STN               | 12-Aug-15    | 265          | 8.04 | 0.07      | 0.04    | <0.02    | 12.5 |
| Marine & Stayte STN         | 12-Aug-15    | 415          | 7.96 | 0.09      | 0.04    | 0.06     | 20.7 |
| Peace Arch Hospital         | 18-Aug-15    | 315          | 8.00 | 0.08      | 0.09    | 0.68     | 15.3 |
| Merklin & Thrift            | 18-Aug-15    | 312          | 8.02 | 0.10      | 0.07    | 0.75     | 14.7 |
| Merklin Low Reservoir - 25% | 18-Aug-15    | 304          | 8.16 | 0.24      | 0.07    | 0.07     | 18.8 |
| Merklin Low Reservoir - 50% | 18-Aug-15    | 315          | 8.17 | 0.24      | 0.09    | 0.08     | 19.1 |
| Merklin Low Reservoir - 75% | 18-Aug-15    | 311          | 8.21 | 0.24      | 0.07    | 0.09     | 20.9 |
| Roper Reservoir - 25%       | 18-Aug-15    | 272          | 8.13 | 0.14      | 0.05    | 0.19     | 16.5 |
| Roper Reservoir - 50%       | 18-Aug-15    | 275          | 8.11 | 0.11      | 0.06    | 0.10     | 16.1 |
| Merklin High Reservoir      | 18-Aug-15    | 291          | 8.14 | 0.13      | 0.06    | 0.59     | 12.8 |
| Stevens STN                 | 18-Aug-15    | 311          | 8.18 | 0.10      | 0.06    | 0.71     | 14.5 |
| Well #3 - Oxford            | -            |              |      |           |         |          |      |
| Whale House                 | 19-Aug-15    | 449          | 7.78 | 0.14      | <0.02   | <0.02    | 20.4 |
| Well #6 - Valve Chamber     | 19-Aug-15    | 348          | 8.09 | 0.11      | 0.04    | 0.04     | 10.8 |
| Bergstrom Residence         | 19-Aug-15    | 274          | 8.04 | 0.10      | <0.02   | 0.02     | 22.2 |
| WR Washroom                 | 19-Aug-15    | 444          | 7.93 | 0.11      | 0.04    | 0.06     | 23.7 |
| Magdalen & Bishop           | 19-Aug-15    | 270          | 8.04 | 0.07      | <0.02   | 0.03     | 18.8 |
| Peace Arch Hospital         | 25-Aug-15    | 304          | 8.21 | 0.07      | 0.06    | 0.55     | 13.7 |
| Merklin & Thrift            | 25-Aug-15    | 287          | 8.22 | 0.09      | 0.09    | 0.63     | 15.3 |
| Merklin Low Reservoir (25%) | 25-Aug-15    | 305          | 8.29 | 0.23      | 0.05    | 0.04     | 17.9 |
| Merklin Low Reservoir (50%) | 25-Aug-15    | 307          | 8.30 | 0.22      | 0.05    | 0.04     | 18.3 |
| Merklin Low Reservoir (75%) | 25-Aug-15    | 308          | 8.31 | 0.23      | 0.05    | 0.04     | 19.5 |
| Roper Reservoir - 25%       | 25-Aug-15    | 268          | 8.21 | 0.12      | 0.06    | 0.12     | 14.5 |
| Roper Reservoir - 50%       | 25-Aug-15    | 264          | 8.20 | 0.12      | 0.04    | 0.12     | 14.5 |
| Merklin High Reservoir      | 25-Aug-15    | 285          | 8.26 | 0.11      | 0.04    | 0.54     | 11.4 |
| 1100 Blk. Centre Street     | 25-Aug-15    | 264          | 8.02 | 0.10      | 0.05    | 0.21     | 15.9 |
| Well #4 - Valve Chamber     | 25-Aug-15    | 230          | 8.13 | 0.34      | 0.02    | 0.03     | 11.3 |
| Maple & Columbia            | 25-Aug-15    | 505          | 7.90 | 0.06      | 0.04    | 0.02     | 23.6 |
| Centennial Arena            | 25-Aug-15    | 269          | 8.00 | 0.06      | 0.05    | 0.03     | 18.7 |
| Penny Lane                  | 25-Aug-15    | 260          | 8.11 | 0.11      | 0.05    | 0.02     | 17.9 |
| 14000 Blk. North Bluff Road | 25-Aug-15    | 265          | 8.06 | 0.12      | 0.06    | 0.04     | 23.9 |
| Min                         |              | 230          | 7.74 | 0.05      | <0.02   | <0.02    | 10.8 |
| Max                         |              | 539          | 8.32 | 0.34      | 0.09    | 0.79     | 24.1 |
| Average                     |              | 311          | 8.10 | 0.13      | 0.05    | 0.21     | 16.7 |

## In-House Water Testing Results September 2015

| Sampling Location           | Date Sampled | Conductivity | pH   | Turbidity | Free Cl | Total Cl | Temp |
|-----------------------------|--------------|--------------|------|-----------|---------|----------|------|
|                             |              | µS/cm        |      | NTU       | mg/L    | mg/L     |      |
| Peace Arch Hospital         | 1-Sep-15     | 287          | 8.04 | 0.10      | 0.07    | 0.58     | 15.7 |
| Merklin & Thrift            | 1-Sep-15     | 288          | 8.13 | 0.12      | 0.11    | 0.43     | 13.8 |
| Merklin Low Reservoir - 25% | 1-Sep-15     | 318          | 8.18 | 0.22      | 0.07    | 0.20     | 14.8 |
| Merklin Low Reservoir - 50% | 1-Sep-15     | 496          | 8.58 | 0.23      | 0.00    | 0.15     | 14.8 |
| Merklin Low Reservoir - 75% | 1-Sep-15     | 340          | 8.34 | 0.23      | 0.05    | 0.15     | 15.5 |
| Roper Reservoir - 25%       | 1-Sep-15     | 287          | 8.14 | 0.10      | 0.04    | 0.16     | 13.7 |
| Roper Reservoir - 50%       | 1-Sep-15     | 335          | 8.32 | 0.12      | 0.03    | 0.13     | 13.5 |
| Merklin High Reservoir      | 1-Sep-15     | 310          | 8.20 | 0.10      | 0.60    | 0.60     | 11.2 |

## Epcor Water Quality Testing January to October 2015

|                                     |           |     |      |      |       |       |      |
|-------------------------------------|-----------|-----|------|------|-------|-------|------|
| EPCOR Office                        | 1-Sep-15  | 266 | 8.15 | 0.09 | 0.00  | 0.22  | 19.2 |
| EPCOR Office (Duplicate)            | 1-Sep-15  | 267 | 8.18 | 0.09 | 0.02  | 0.20  | 19.2 |
| Well #7 - Chlorine STN              | 1-Sep-15  | 286 | 8.21 | 0.15 | 0.00  | 0.00  | 10.9 |
| 13600 Blk. Marine Drive STN         | 2-Sep-15  | 273 | 7.96 | 0.08 | 0.06  | 0.01  | 19.7 |
| 15600 Blk. Moffat Lane              | 2-Sep-15  | 271 | 8.13 | 0.12 | 0.01  | 0.16  | 20.9 |
| Well #2 Pump House                  | 2-Sep-15  | 275 | 8.01 | 0.08 | 0.03  | 0.00  | 10.3 |
| 14800 Blk. Marine Drive             | 2-Sep-15  | 536 | 7.80 | 0.09 | 0.02  | 0.10  | 17.5 |
| Peace Arch Hospital                 | 8-Sep-15  | 336 | 7.70 | 0.07 | 0.04  | 0.58  | 14.2 |
| Merklin & Thrift                    | 8-Sep-15  | 340 | 8.06 | 0.08 | 0.00  | 0.62  | 13.6 |
| Merklin Low Reservoir - 25%         | 8-Sep-15  | 305 | 8.18 | 0.27 | 0.03  | 0.23  | 13.1 |
| Merklin Low Reservoir - 50%         | 8-Sep-15  | 313 | 8.18 | 0.28 | 0.03  | 0.21  | 13.3 |
| Merklin Low Reservoir - 75%         | 8-Sep-15  | 308 | 8.21 | 0.27 | 0.04  | 0.24  | 13.5 |
| Roper Reservoir - 25%               | 8-Sep-15  | 288 | 8.16 | 0.12 | 0.04  | 0.21  | 13.4 |
| Roper Reservoir - 50%               | 8-Sep-15  | 288 | 8.19 | 0.15 | 0.03  | 0.18  | 13.2 |
| Merklin High Reservoir              | 8-Sep-15  | 326 | 8.22 | 0.11 | 0.07  | 0.54  | 11.3 |
| Merklin High Reservoir (Duplicate)  | 8-Sep-15  | 332 | 8.20 | 0.10 | 0.04  | 0.58  | 11.3 |
| Malabar STN                         | 8-Sep-15  | 261 | 8.16 | 0.09 | 0.01  | 0.02  | 13.1 |
| Well #5 - Buena Vista               | 8-Sep-15  | 526 | 7.89 | 0.10 | 0.03  | 0.03  | 13.1 |
| Well #1 - Oxford                    | 9-Sep-15  | 256 | 7.91 | 0.12 | 0.01  | 0.00  | 10.1 |
| Kent Activity Centre                | 9-Sep-15  | 339 | 8.06 | 0.07 | 0.04  | 0.53  | 16.9 |
| Mann Park STN                       | 9-Sep-15  | 265 | 8.10 | 0.13 | 0.02  | 0.00  | 13.1 |
| Marine & Stayte STN                 | 9-Sep-15  | 423 | 7.94 | 0.11 | 0.02  | 0.01  | 19.3 |
| Peace Arch Hospital                 | 15-Sep-15 | 332 | 8.10 | 0.07 | 0.04  | 0.59  | 13.8 |
| Merklin & Thrift                    | 15-Sep-15 | 332 | 8.20 | 0.10 | 0.05  | 0.58  | 14.7 |
| Merklin & Thrift (duplicate)        | 15-Sep-15 | 332 | 8.23 | 0.07 | 0.02  | 0.59  | 13.9 |
| Merklin Low Reservoir - 25%         | 15-Sep-15 | 312 | 8.24 | 0.28 | 0.04  | 0.08  | 13.8 |
| Merklin Low Reservoir - 50%         | 15-Sep-15 | 310 | 8.26 | 0.31 | 0.04  | 0.08  | 13.9 |
| Merklin Low Reservoir - 75%         | 15-Sep-15 | 311 | 8.28 | 0.30 | 0.04  | 0.07  | 16.2 |
| Roper Reservoir - 25%               | 15-Sep-15 | 288 | 8.26 | 0.14 | 0.02  | 0.16  | 13.1 |
| Roper Reservoir - 50%               | 15-Sep-15 | 287 | 8.26 | 0.14 | 0.03  | 0.16  | 12.9 |
| Merklin High Reservoir              | 15-Sep-15 | 334 | 8.27 | 0.09 | 0.04  | 0.59  | 11.2 |
| Stevens STN                         | 15-Sep-15 | 333 | 8.30 | 0.07 | 0.05  | 0.60  | 14.0 |
| Well #3 - Oxford                    | 15-Sep-15 | 249 | 8.29 | 0.09 | 0.02  | 0.01  | 9.7  |
| Whale House                         | 16-Sep-15 | 384 | 7.83 | 0.10 | 0.00  | 0.00  | 19.9 |
| Well #6 - Valve Chamber             | 16-Sep-15 | 332 | 8.04 | 0.08 | 0.04  | 0.01  | 10.3 |
| Bergstrom Station                   | 16-Sep-15 | 263 | 7.92 | 0.08 | 0.01  | 0.00  | 20.6 |
| WR Washroom                         | 16-Sep-15 | 434 | 7.84 | 0.06 | 0.03  | 0.02  | 19.5 |
| Magdalen & Bishop                   | 16-Sep-15 | 260 | 8.03 | 0.07 | 0.01  | 0.00  | 16.5 |
| Peace Arch Hospital                 | 22-Sep-15 | 283 | 8.08 | 0.16 | 0.07  | 0.54  | 13.9 |
| Merklin & Thrift                    | 22-Sep-15 | 283 | 8.17 | 0.10 | 0.08  | 0.59  | 14.6 |
| Merklin Low Reservoir (25%)         | 22-Sep-15 | 311 | 8.18 | 0.30 | 0.07  | 0.11  | 14.0 |
| Merklin Low Reservoir (50%)         | 22-Sep-15 | 310 | 8.23 | 0.31 | 0.06  | 0.12  | 13.7 |
| Merklin Low Reservoir (75%)         | 22-Sep-15 | 309 | 8.24 | 0.31 | 0.07  | 0.16  | 14.3 |
| Roper Reservoir - 25%               | 22-Sep-15 | 274 | 8.22 | 0.10 | 0.04  | 0.11  | 13.3 |
| Roper Reservoir - 50%               | 22-Sep-15 | 279 | 8.20 | 0.12 | 0.05  | 0.14  | 13.5 |
| Merklin High Reservoir              | 22-Sep-15 | 287 | 8.25 | 0.10 | 0.03  | 0.49  | 10.9 |
| 1100 Blk. Centre Street             | 22-Sep-15 | 277 | 8.21 | 0.14 | 0.07  | 0.39  | 14.6 |
| 1100 Blk. Centre Street (Duplicate) | 22-Sep-15 | 275 | 8.21 | 0.18 | 0.00  | 0.38  | 14.6 |
| Well #4 - Valve Chamber             | 22-Sep-15 | 274 | 8.23 | 0.12 | 0.02  | 0.00  | 10.2 |
| Maple & Columbia                    | 23-Sep-15 | 479 | 7.89 | 0.09 | 0.04  | 0.01  | 16.6 |
| Centennial Arena                    | 23-Sep-15 | 266 | 7.99 | 0.11 | 0.03  | 0.01  | 17.1 |
| Penny Lane                          | 23-Sep-15 | 258 | 7.96 | 0.08 | 0.04  | 0.03  | 14.8 |
| 14000 Blk. North Bluff Road         | 23-Sep-15 | 259 | 8.01 | 0.08 | 0.03  | 0.02  | 20.0 |
| Peace Arch Hospital                 | 29-Sep-15 | 286 | 8.13 | 0.34 | 0.07  | 0.55  | 14.4 |
| Merklin & Thrift                    | 29-Sep-15 | 276 | 8.02 | 0.13 | 0.10  | 0.50  | 12.9 |
| Merklin Low Reservoir - 25%         | 30-Sep-15 | 309 | 8.04 | 0.31 | 0.06  | 0.02  | 13.0 |
| Merklin Low Reservoir - 50%         | 30-Sep-15 | 310 | 8.08 | 0.32 | 0.06  | 0.03  | 13.4 |
| Merklin Low Reservoir - 75%         | 30-Sep-15 | 310 | 8.08 | 0.31 | 0.04  | 0.03  | 13.9 |
| Roper Reservoir - 25%               | 30-Sep-15 | 288 | 7.99 | 0.12 | 0.02  | 0.10  | 11.8 |
| Roper Reservoir - 50%               | 30-Sep-15 | 288 | 8.01 | 0.13 | 0.02  | 0.10  | 11.8 |
| Merklin High Reservoir              | 30-Sep-15 | 289 | 8.07 | 0.56 | 0.09  | 0.33  | 10.7 |
| Merklin High Reservoir (Duplicate)  | 30-Sep-15 | 287 | 8.09 | 0.32 | 0.06  | 0.33  | 10.7 |
| EPCOR Office                        | 29-Sep-15 | 267 | 8.06 | 0.11 | 0.02  | 0.04  | 20.2 |
| Well #7 - Chlorine STN              | 29-Sep-15 | 290 | 8.08 | 0.08 | 0.02  | 0.00  | 10.1 |
| 13600 Blk. Marine Drive STN         | 29-Sep-15 | 265 | 8.02 | 0.08 | 0.01  | 0.00  | 17.4 |
| 15600 Blk. Moffat Lane              | 29-Sep-15 | 271 | 8.10 | 0.13 | 0.02  | 0.14  | 18.3 |
| Well #2 Pump House                  | 29-Sep-15 | 282 | 7.86 | 0.11 | 0.04  | 0.03  | 10.3 |
| 14800 Blk. Marine Drive             | 29-Sep-15 | 521 | 7.72 | 0.23 | 0.02  | 0.02  | 16.3 |
| Min                                 |           | 249 | 7.70 | 0.06 | <0.02 | <0.02 | 9.7  |
| Max                                 |           | 536 | 8.58 | 0.31 | 0.60  | 0.62  | 20.9 |
| Average                             |           | 316 | 8.13 | 0.14 | 0.04  | 0.22  | 14.5 |

## In-House Water Testing Results October 2015

| Sampling Location            | Date Sampled | Conductivity | pH   | Turbidity | Free Cl | Total Cl | Temp |
|------------------------------|--------------|--------------|------|-----------|---------|----------|------|
|                              |              | µS/cm        |      | NTU       | mg/L    | mg/L     |      |
| Peace Arch Hospital          | 6-Oct-15     | 283          | 8.01 | 0.11      | 0.04    | 0.54     | 14.5 |
| Merklin & Thrift             | 6-Oct-15     | 283          | 8.05 | 0.07      | 0.03    | 0.45     | 14.4 |
| Merklin & Thrift (Duplicate) | 6-Oct-15     | 284          | 8.06 | 0.07      | 0.07    | 0.58     | 14.4 |

## Epcor Water Quality Testing January to October 2015

|                                  |           |                         |             |             |                 |                 |             |
|----------------------------------|-----------|-------------------------|-------------|-------------|-----------------|-----------------|-------------|
| Merklin Low Reservoir - 25%      | 6-Oct-15  | 310                     | 8.06        | 0.28        | 0.07            | 0.09            | 13.5        |
| Merklin Low Reservoir - 50%      | 6-Oct-15  | 311                     | 8.07        | 0.32        | 0.05            | 0.10            | 13.1        |
| Merklin Low Reservoir - 75%      | 6-Oct-15  | 310                     | 8.08        | 0.31        | 0.05            | 0.09            | 13.5        |
| Roper Reservoir - 25%            | 6-Oct-15  | 269                     | 8.01        | 0.12        | 0.04            | 0.12            | 12.1        |
| Roper Reservoir - 50%            | 6-Oct-15  | 271                     | 8.00        | 0.13        | 0.04            | 0.11            | 12.2        |
| Merklin High Reservoir           | 6-Oct-15  | 287                     | 8.06        | 0.12        | 0.05            | 0.51            | 11.0        |
| Malabar STN                      | 6-Oct-15  | 250                     | 7.96        | 0.16        | 0.04            | 0.01            | 12.2        |
| Well #5 - Buena Vista            | 6-Oct-15  | 533                     | 7.68        | 0.12        | 0.01            | 0.01            | 14.2        |
| Well #1 - Oxford                 | 7-Oct-15  | 247                     | 7.94        | 0.07        | 0.00            | 0.00            | 12.1        |
| Kent Activity Centre             | 7-Oct-15  | 286                     | 8.09        | 0.10        | 0.01            | 0.45            | 16.7        |
| Mann Park STN                    | 7-Oct-15  | 250                     | 8.05        | 0.08        | 0.03            | 0.01            | 12.4        |
| Marine & Stayte STN              | 7-Oct-15  | 315                     | 7.94        | 0.14        | 0.02            | 0.01            | 16.4        |
| Peace Arch Hospital              | 13-Oct-15 | Closed for Construction | -           | -           | -               | -               | -           |
| Merklin & Thrift                 | 13-Oct-15 | 345                     | 8.06        | 0.15        | 0.04            | 0.70            | 15.5        |
| Merklin & Thrift (Duplicate)     | 13-Oct-15 | 346                     | 8.07        | 0.16        | 0.05            | 0.66            | 15.3        |
| Merklin Low Reservoir - 25%      | 13-Oct-15 | 309                     | 8.04        | 0.30        | 0.03            | 0.04            | 12.5        |
| Merklin Low Reservoir - 50%      | 13-Oct-15 | 307                     | 8.06        | 0.31        | 0.01            | 0.04            | 12.7        |
| Merklin Low Reservoir - 75%      | 13-Oct-15 | 312                     | 8.07        | 0.28        | 0.01            | 0.03            | 13.3        |
| Roper Reservoir - 25%            | 13-Oct-15 | 274                     | 8.00        | 0.14        | 0.01            | 0.02            | 11.5        |
| Roper Reservoir - 50%            | 13-Oct-15 | 276                     | 7.95        | 0.12        | 0.00            | 0.01            | 11.4        |
| Merklin High Reservoir           | 13-Oct-15 | 291                     | 8.05        | 0.19        | 0.09            | 0.55            | 10.7        |
| Stevens STN                      | 14-Oct-15 | 349                     | 8.04        | 0.10        | 0.06            | 0.61            | 12.5        |
| Well #3 Oxford                   | 13-Oct-15 | 284                     | 7.83        | 0.16        | 0.04            | 0.01            | 11.3        |
| Whale House                      | 14-Oct-15 | 331                     | 7.95        | 0.12        | 0.02            | 0.03            | 16.5        |
| Well #6 - Valve Chamber          | 13-Oct-15 | 345                     | 8.21        | 0.09        | 0.00            | 0.02            | 10.3        |
| Bergstrom Residence              | 14-Oct-15 | 274                     | 7.93        | 0.11        | 0.03            | 0.00            | 17.3        |
| WR Washroom                      | 14-Oct-15 | 483                     | 7.79        | 0.10        | 0.01            | 0.00            | 15.4        |
| Magdalen & Bishop                | 14-Oct-15 | 264                     | 7.95        | 0.12        | 0.03            | 0.01            | 16.0        |
| Merklin & Thrift                 | 20-Oct-15 | 328                     | 8.04        | 0.13        | 0.02            | 0.63            | 13.4        |
| Merklin Low Reservoir - 25%      | 20-Oct-15 | 312                     | 8.20        | 0.23        | 0.03            | 0.13            | 11.9        |
| Merklin Low Reservoir - 50%      | 20-Oct-15 | 314                     | 8.23        | 0.23        | 0.02            | 0.13            | 11.9        |
| Merklin Low Reservoir - 75%      | 20-Oct-15 | 304                     | 8.23        | 0.26        | 0.00            | 0.14            | 11.9        |
| Roper Reservoir - 25%            | 20-Oct-15 | 309                     | 8.22        | 0.12        | 0.08            | 0.53            | 11.7        |
| Roper Reservoir - 50%            | 20-Oct-15 | 304                     | 8.22        | 0.16        | 0.02            | 0.16            | 11.5        |
| Merklin High Reservoir           | 20-Oct-15 | 326                     | 8.24        | 0.13        | 0.05            | 0.57            | 11.3        |
| 1100 Blk. Centre Street          | 20-Oct-15 | 322                     | 8.26        | 0.10        | 0.00            | 0.47            | 14.7        |
| Well #4 - Valve Chamber          | 20-Oct-15 | 270                     | 8.25        | 0.53        | 0.02            | 0.02            | 13.7        |
| WR Washroom                      | 21-Oct-15 | 445                     | 7.70        | 0.12        | 0.05            | 0.02            | 16.0        |
| Maple & Columbia                 | 21-Oct-15 | 375                     | 7.78        | 0.09        | 0.00            | 0.02            | 15.8        |
| Centennial Arena                 | 21-Oct-15 | 265                     | 7.89        | 0.11        | 0.04            | 0.01            | 17.8        |
| Centennial Arena (duplicate)     | 21-Oct-15 | 266                     | 7.92        | 0.15        | 0.04            | 0.02            | 17.8        |
| Penny Lane                       | 21-Oct-15 | 270                     | 7.94        | 0.10        | 0.02            | 0.01            | 13.5        |
| 14000 Blk. North Bluff Road      | 21-Oct-15 | 271                     | 7.99        | 0.10        | 0.04            | 0.01            | 16.8        |
| Stevens STN                      | 27-Oct-15 | 331                     | 7.89        | 0.10        | 0.05            | 0.68            | 10.9        |
| Merklin & Thrift                 | 27-Oct-15 | 329                     | 8.01        | 0.15        | 0.03            | 0.52            | 15.2        |
| Merklin Low Reservoir (25%)      | 27-Oct-15 | 315                     | 8.07        | 0.26        | 0.03            | 0.04            | 11.7        |
| Merklin Low Reservoir (50%)      | 27-Oct-15 | 313                     | 8.12        | 0.27        | 0.02            | 0.03            | 11.6        |
| Merklin Low Reservoir (75%)      | 27-Oct-15 | 310                     | 8.12        | 0.25        | 0.03            | 0.04            | 11.5        |
| Roper Reservoir - 25%            | 27-Oct-15 | 298                     | 8.13        | 0.12        | 0.20            | 0.22            | 10.4        |
| Roper Reservoir - 50%            | 27-Oct-15 | 293                     | 8.13        | 0.14        | 0.19            | 0.21            | 10.9        |
| Merklin High Reservoir           | 27-Oct-15 | 328                     | 8.14        | 0.10        | 0.03            | 0.60            | 10.5        |
| EPCOR Office                     | 27-Oct-15 | 311                     | 8.15        | 0.27        | 0.07            | 0.22            | 19.0        |
| Well #7-Chlorine STN             | 27-Oct-15 | 323                     | 8.16        | 0.16        | 0.02            | 0.03            | 12.5        |
| 13600 Blk. Marine Drive STN      | 28-Oct-15 | 271                     | 7.95        | 0.13        | 0.02            | 0.02            | 13.6        |
| 15600 Blk. Moffat Lane           | 28-Oct-15 | 312                     | 8.07        | 0.12        | 0.12            | 0.15            | 15.9        |
| Well #2 Pump House               | 28-Oct-15 | 278                     | 7.88        | 0.22        | 0.03            | 0.06            | 10.4        |
| Well #2 Pump House ( Duplicate ) | 28-Oct-15 | 276                     | 7.88        | 0.20        | 0.02            | 0.01            | 10.2        |
| 14800 Blk. Marine Drive          | 28-Oct-15 | 274                     | 7.89        | 0.24        | 0.03            | 0.05            | 15.2        |
| <b>Min</b>                       |           | <b>247</b>              | <b>7.68</b> | <b>0.07</b> | <b>&lt;0.02</b> | <b>&lt;0.02</b> | <b>10.2</b> |
| <b>Max</b>                       |           | <b>533</b>              | <b>8.26</b> | <b>0.53</b> | <b>0.20</b>     | <b>0.70</b>     | <b>19.0</b> |
| <b>Average</b>                   |           | <b>304</b>              | <b>7.90</b> | <b>0.16</b> | <b>0.04</b>     | <b>0.19</b>     | <b>13.2</b> |

## Microbiological Results

| Microbiological Analysis<br>MPN / 100mL | # of Samples | Pass | Fail | Date           | Guideline<br>Comments |
|-----------------------------------------|--------------|------|------|----------------|-----------------------|
| Total Coliforms                         | 14           | 14   | 0    | Jan 6 & 7      | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Jan 6 & 7      | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Jan 13 & 14    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Jan 13 & 14    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Jan 20 & 21    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Jan 20 & 21    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Jan 27 & 28    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Jan 27 & 28    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Feb 3 & 4      | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Feb 3 & 4      | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Feb 10 & 11    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Feb 10 & 11    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Feb 17 & 18    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Feb 17 & 18    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Feb 17 & 18    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Feb 17 & 18    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Feb 24 & 25    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Feb 24 & 25    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Mar 3 & 4      | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Mar 3 & 4      | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Mar 11 & 12    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Mar 11 & 12    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Mar 17 & 18    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Mar 17 & 18    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Mar 24 & 25    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Mar 24 & 25    | Below MAC             |
| Total Coliforms                         | 15           | 15   | 0    | Mar 31 & Apr 1 | Below MAC             |
| Escherichia Coli                        | 15           | 15   | 0    | Mar 31 & Apr 1 | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Apr 7 & 8      | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Apr 7 & 8      | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Apr 14 & 15    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Apr 14 & 15    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Apr 21 & 22    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Apr 21 & 22    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Apr 28 & 29    | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Apr 28 & 29    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | May 5 & 6      | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | May 5 & 6      | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | May 12 & 13    | Below MAC             |

## Microbiological Results

| Microbiological Analysis<br>MPN / 100mL | # of Samples | Pass | Fail | Date          | Guideline<br>Comments |
|-----------------------------------------|--------------|------|------|---------------|-----------------------|
| Escherichia Coli                        | 14           | 14   | 0    | May 12 & 13   | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | May 19 & 20   | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | May 19 & 20   | Below MAC             |
| Total Coliforms                         | 15           | 15   | 0    | May 26 & 27   | Below MAC             |
| Escherichia Coli                        | 15           | 15   | 0    | May 26 & 27   | Below MAC             |
| Total Coliforms                         | 10           | 10   | 0    | June 2 & 3    | Below MAC             |
| Escherichia Coli                        | 10           | 10   | 0    | June 2 & 3    | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | June 9 & 10   | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | June 9 & 10   | Below MAC             |
| Total Coliforms                         | 11           | 11   | 0    | June 16 & 17  | Below MAC             |
| Escherichia Coli                        | 11           | 11   | 0    | June 16 & 17  | Below MAC             |
| Total Coliforms                         | 16           | 16   | 0    | June 23 & 24  | Below MAC             |
| Escherichia Coli                        | 16           | 16   | 0    | June 23 & 24  | Below MAC             |
| Total Coliforms                         | 13           | 13   | 0    | June 29 & 30  | Below MAC             |
| Escherichia Coli                        | 13           | 13   | 0    | June 29 & 30  | Below MAC             |
| Total Coliforms                         | 13           | 13   | 0    | July 7 & 8    | Below MAC             |
| Escherichia Coli                        | 13           | 13   | 0    | July 7 & 8    | Below MAC             |
| Total Coliforms                         | 14           | 13   | 1    | July 14 & 15  | FAIL                  |
| Escherichia Coli                        | 14           | 14   | 0    | July 14 & 15  | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | July 21 & 22  | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | July 21 & 22  | Below MAC             |
| Total Coliforms                         | 13           | 13   | 0    | July 28 & 29  | Below MAC             |
| Escherichia Coli                        | 13           | 13   | 0    | July 28 & 29  | Below MAC             |
| Total Coliforms                         | 15           | 15   | 0    | Aug 4 & 5     | Below MAC             |
| Escherichia Coli                        | 15           | 15   | 0    | Aug 4 & 5     | Below MAC             |
| Total Coliforms                         | 13           | 13   | 0    | Aug 11 & 12   | Below MAC             |
| Escherichia Coli                        | 13           | 13   | 0    | Aug 11 & 12   | Below MAC             |
| Total Coliforms                         | 14           | 14   | 0    | Aug 18 & 19   | Below MAC             |
| Escherichia Coli                        | 14           | 14   | 0    | Aug 18 & 19   | Below MAC             |
| Total Coliforms                         | 14           | 13   | 1    | 25-Aug        | FAIL                  |
| Escherichia Coli                        | 14           | 14   | 0    | 25-Aug        | Below MAC             |
| Total Coliforms                         | 6            | 6    | 0    | Sept -09-2015 | Below MAC             |
| Escherichia Coli                        | 6            | 6    | 0    | Sept -09-2015 | Below MAC             |
| Total Coliforms                         | 6            | 6    | 0    | Sept-15-2015  | Below MAC             |
| Escherichia Coli                        | 6            | 6    | 0    | Sept-15-2015  | Below MAC             |
| Total Coliforms                         | 6            | 6    | 0    | Sept-22-2015  | Below MAC             |
| Escherichia Coli                        | 6            | 6    | 0    | Sept-22-2015  | Below MAC             |
| Total Coliforms                         | 6            | 6    | 0    | Sept-30-2015  | Below MAC             |
| Escherichia Coli                        | 6            | 6    | 0    | Sept-30-2015  | Below MAC             |
| Total Coliforms                         | 6            | 6    | 0    | Oct-06-2015   | Below MAC             |
| Escherichia Coli                        | 6            | 6    | 0    | Oct-13-2015   | Below MAC             |

## Metal Results EPCOR 2015

| Sample Location                | Date Sampled | Arsenic       | Copper       | Iron         | Lead          | Manganese    |
|--------------------------------|--------------|---------------|--------------|--------------|---------------|--------------|
|                                |              | mg/L          | mg/L         | mg/L         | mg/L          | mg/L         |
| <b>Nominal Detection Limit</b> |              | <b>0.0002</b> | <b>0.001</b> | <b>0.005</b> | <b>0.0001</b> | <b>0.001</b> |
| <b>Guideline Limit</b>         |              | <b>0.010</b>  | <b>1</b>     | <b>0.3</b>   | <b>0.01</b>   | <b>0.05</b>  |
| 15500 Blk. North Bluff Road    | 3-Mar-15     | 0.0072        | 0.0337       | 0.01         | 0.00175       | 0.103        |
| Merklin & Thrift               | 3-Mar-15     | 0.0073        | 0.0051       | <0.01        | 0.00004       | 0.098        |
| Merklin Low Reservoir - 25%    | 3-Mar-15     | 0.0077        | <0.0005      | <0.01        | 0.00003       | 0.089        |
| Merklin Low Reservoir - 50%    | 3-Mar-15     | 0.0074        | 0.0005       | <0.01        | 0.00011       | 0.089        |
| Merklin Low Reservoir - 75%    | 3-Mar-15     | 0.0075        | <0.0005      | <0.01        | 0.00007       | 0.091        |
| Roper Reservoir - 25%          | 3-Mar-15     | 0.0074        | 0.0019       | <0.01        | 0.00013       | 0.054        |
| Roper Reservoir - 50%          | 3-Mar-15     | 0.0071        | 0.0007       | <0.01        | 0.00011       | 0.054        |
| Merklin High Reservoir         | 3-Mar-15     | 0.0079        | 0.0029       | <0.01        | 0.00004       | 0.104        |
| Stevens STN                    | 3-Mar-15     | 0.0079        | 0.0024       | <0.01        | 0.00031       | 0.105        |
| Well #3 - Oxford               | 3-Mar-15     | 0.0063        | 0.0007       | <0.01        | 0.00008       | 0.183        |
| 15800 Blk. Pacific Avenue      | 4-Mar-15     | 0.0071        | 0.0032       | <0.01        | 0.00024       | 0.051        |
| Bergstrom Residence            | 4-Mar-15     | 0.0066        | 0.0034       | <0.01        | 0.00017       | 0.038        |
| WR Washroom                    | 4-Mar-15     | 0.0081        | 0.0439       | <0.01        | 0.00039       | 0.013        |
| Magdalen & Bishop              | 4-Mar-15     | 0.0064        | 0.0047       | <0.01        | 0.00015       | 0.026        |
| 15500 Blk. North Bluff Road    | 11-Mar-15    | 0.0084        | 0.0285       | <0.01        | 0.00006       | 0.102        |
| Merklin & Thrift               | 11-Mar-15    | 0.0083        | 0.0058       | <0.01        | 0.00008       | 0.098        |
| Merklin Low Reservoir (25%)    | 12-Mar-15    | 0.0077        | 0.0006       | <0.01        | 0.00010       | 0.063        |
| Merklin Low Reservoir (50%)    | 12-Mar-15    | 0.0081        | <0.0005      | <0.01        | 0.00008       | 0.091        |
| Merklin Low Reservoir (75%)    | 12-Mar-15    | 0.0080        | <0.0005      | <0.01        | 0.00007       | 0.090        |
| Roper Reservoir - 25%          | 12-Mar-15    | 0.0079        | <0.0005      | <0.01        | 0.00004       | 0.090        |
| Roper Reservoir - 50%          | 12-Mar-15    | 0.0079        | 0.0007       | <0.01        | 0.00010       | 0.062        |
| Merklin High Reservoir         | 12-Mar-15    | 0.0082        | 0.0024       | <0.01        | 0.00008       | 0.108        |
| 15300 Blk. Buena Vista Avenue  | 11-Mar-15    | 0.0086        | 0.0121       | <0.01        | 0.00007       | 0.100        |
| Maple & Columbia               | 11-Mar-15    | 0.0081        | 0.0266       | <0.01        | 0.00027       | 0.023        |
| Centennial Arena               | 11-Mar-15    | 0.0067        | 0.0133       | <0.01        | 0.00009       | 0.045        |
| Penny Lane                     | 11-Mar-15    | 0.0071        | 0.0300       | <0.01        | 0.00011       | 0.090        |
| 14000 Blk. North Bluff Road    | 11-Mar-15    | 0.0069        | 0.0279       | <0.01        | 0.00025       | 0.046        |
| 15500 Blk. North Bluff Road    | 17-Mar-15    | 0.0083        | 0.0280       | <0.01        | 0.00005       | 0.104        |
| Merklin & Thrift               | 17-Mar-15    | 0.0083        | 0.0057       | <0.01        | 0.00007       | 0.100        |
| Merklin Low Reservoir - 25%    | 17-Mar-15    | 0.0080        | <0.0005      | <0.01        | 0.00003       | 0.091        |
| Merklin Low Reservoir - 50%    | 17-Mar-15    | 0.0078        | 0.0005       | <0.01        | 0.00009       | 0.091        |
| Merklin Low Reservoir - 75%    | 17-Mar-15    | 0.0080        | 0.0006       | <0.01        | 0.00007       | 0.085        |
| Roper Reservoir - 25%          | 17-Mar-15    | 0.0081        | 0.0013       | <0.01        | 0.00012       | 0.060        |
| Roper Reservoir - 50%          | 17-Mar-15    | 0.0077        | 0.0008       | <0.01        | 0.00010       | 0.061        |
| Merklin High Reservoir         | 17-Mar-15    | 0.0079        | 0.0028       | <0.01        | 0.00006       | 0.109        |
| EPCOR Office                   | 17-Mar-15    | 0.0082        | 0.0175       | <0.01        | 0.00034       | 0.108        |
| Well #7 - Chlorine STN         | 17-Mar-15    | 0.0083        | 0.0012       | <0.01        | 0.00025       | 0.103        |
| 13600 Blk Marine Drive         | 18-Mar-15    | 0.0061        | 0.0027       | <0.01        | 0.00036       | 0.034        |
| 15600 Blk. Moffat Lane         | 18-Mar-15    | 0.0080        | 0.0034       | <0.01        | 0.00015       | 0.102        |
| Well #2 Pump House             | 18-Mar-15    | 0.0046        | 0.0028       | 0.03         | 0.00002       | 0.007        |
| 14800 Blk. Marine Drive        | 18-Mar-15    | 0.0082        | 0.0175       | <0.01        | 0.00007       | 0.003        |

## Metal Results EPCOR 2015

| Sample Location                | Date Sampled | Arsenic       | Copper       | Iron         | Lead          | Manganese    |
|--------------------------------|--------------|---------------|--------------|--------------|---------------|--------------|
|                                |              | mg/L          | mg/L         | mg/L         | mg/L          | mg/L         |
| <b>Nominal Detection Limit</b> |              | <b>0.0002</b> | <b>0.001</b> | <b>0.005</b> | <b>0.0001</b> | <b>0.001</b> |
| <b>Guideline Limit</b>         |              | <b>0.010</b>  | <b>1</b>     | <b>0.3</b>   | <b>0.01</b>   | <b>0.05</b>  |
| 15500 Blk. North Bluff Road    | 24-Mar-15    | 0.0086        | 0.0383       | <0.01        | 0.00007       | 0.097        |
| Merklin & Thrift               | 24-Mar-15    | 0.0089        | 0.0052       | <0.01        | 0.00005       | 0.100        |
| Merklin Low Reservoir - 25%    | 25-Mar-15    | 0.0078        | <0.0005      | <0.01        | 0.00003       | 0.091        |
| Merklin Low Reservoir - 50%    | 25-Mar-15    | 0.0078        | <0.0005      | <0.01        | 0.00009       | 0.093        |
| Merklin Low Reservoir - 75%    | 25-Mar-15    | 0.0078        | <0.0005      | <0.01        | 0.00005       | 0.090        |
| Roper Reservoir - 25%          | 25-Mar-15    | 0.0076        | 0.0008       | <0.01        | 0.00013       | 0.057        |
| Roper Reservoir - 50%          | 25-Mar-15    | 0.0079        | 0.0013       | <0.01        | 0.00021       | 0.059        |
| Merklin High Reservoir         | 25-Mar-15    | 0.0080        | 0.0026       | 0.02         | 0.00012       | 0.110        |
| Malabar STN                    | 24-Mar-15    | 0.0067        | 0.0012       | <0.01        | 0.00041       | 0.069        |
| Well #5 - Buena Vista          | 24-Mar-15    | 0.0083        | 0.0096       | <0.01        | 0.00010       | 0.008        |
| Well #1 - Oxford               | 24-Mar-15    | 0.0066        | 0.0011       | <0.01        | 0.00134       | 0.048        |
| Kent Activity Centre           | 24-Mar-15    | 0.0088        | 0.0074       | <0.01        | 0.00004       | 0.104        |
| Mann Park STN                  | 24-Mar-15    | 0.0067        | 0.0026       | <0.01        | 0.00039       | 0.063        |
| Marine & Stayte STN            | 24-Mar-15    | 0.0079        | 0.0038       | <0.01        | 0.00045       | 0.022        |
| 15500 Blk. North Bluff Road    | 31-Mar-15    | 0.0085        | 0.0236       | <0.01        | 0.00006       | 0.103        |
| Merklin & Thrift               | 31-Mar-15    | 0.0089        | 0.0053       | <0.01        | 0.00006       | 0.107        |
| Merklin Low Reservoir - 25%    | 31-Mar-15    | 0.0083        | <0.0005      | <0.01        | 0.00006       | 0.092        |
| Merklin Low Reservoir - 50%    | 31-Mar-15    | 0.0082        | <0.0005      | <0.01        | 0.00008       | 0.092        |
| Merklin Low Reservoir - 75%    | 31-Mar-15    | 0.0081        | <0.0005      | <0.01        | 0.00006       | 0.089        |
| Roper Reservoir - 25%          | 31-Mar-15    | 0.008         | 0.0005       | <0.01        | 0.00012       | 0.055        |
| Roper Reservoir - 50%          | 31-Mar-15    | 0.0082        | 0.0008       | <0.01        | 0.00011       | 0.056        |
| Merklin High Reservoir         | 31-Mar-15    | 0.0084        | 0.0026       | <0.01        | 0.00007       | 0.108        |
| Stevens STN                    | 31-Mar-15    | 0.0085        | 0.0025       | <0.01        | 0.00024       | 0.105        |
| Well #3 - Oxford               | 31-Mar-15    | 0.0067        | <0.0005      | <0.01        | 0.00003       | 0.189        |
| 15500 Blk. North Bluff Road    | 2-Jun-15     | 0.0090        | 0.0297       | <0.01        | <0.00005      | 0.105        |
| Merklin & Thrift               | 2-Jun-15     | 0.0089        | 0.0056       | <0.01        | 0.00007       | 0.106        |
| Merklin Low Reservoir (25%)    | 2-Jun-15     | N/A           | N/A          | N/A          | N/A           | N/A          |
| Merklin Low Reservoir (50%)    | 2-Jun-15     | N/A           | N/A          | N/A          | N/A           | N/A          |
| Merklin Low Reservoir (75%)    | 2-Jun-15     | N/A           | N/A          | N/A          | N/A           | N/A          |
| Roper Reservoir - 25%          | 2-Jun-15     | 0.0080        | 0.0008       | <0.01        | 0.00017       | 0.066        |
| Roper Reservoir - 50%          | 2-Jun-15     | 0.0080        | 0.0007       | <0.01        | 0.00018       | 0.065        |
| Merklin High Reservoir         | 2-Jun-15     | 0.0092        | 0.0031       | <0.01        | 0.00008       | 0.114        |
| 15300 Blk. Buena Vista Avenue  | 2-Jun-15     | 0.0089        | 0.0155       | <0.01        | 0.00008       | 0.095        |
| Well #4 - Valve Chamber        | 2-Jun-15     | 0.0024        | 0.0008       | 0.03         | 0.00064       | 0.192        |
| Maple & Columbia               | 3-Jun-15     | 0.0087        | 0.0470       | <0.01        | 0.00037       | 0.010        |
| Centennial Arena               | 3-Jun-15     | 0.0056        | 0.0358       | <0.01        | 0.00016       | 0.009        |
| Penny Lane                     | 3-Jun-15     |               |              |              |               |              |
| 14000 Blk. North Bluff Road    | 3-Jun-15     | 0.0064        | 0.0484       | <0.01        | 0.00033       | 0.075        |
| 15500 Blk. North Bluff Road    | 9-Jun-15     | 0.0091        | 0.0262       | <0.01        | <0.00005      | 0.112        |
| Merklin & Thrift               | 9-Jun-15     | 0.0089        | 0.0053       | <0.01        | 0.00007       | 0.108        |
| Merklin Low Reservoir - 25%    | 9-Jun-15     | 0.0084        | <0.0005      | <0.01        | 0.00010       | 0.106        |
| Merklin Low Reservoir - 50%    | 9-Jun-15     | 0.0083        | 0.0005       | <0.01        | 0.00014       | 0.102        |
| Merklin Low Reservoir - 75%    | 9-Jun-15     | 0.0081        | 0.0006       | <0.01        | 0.00013       | 0.105        |
| Roper Reservoir - 25%          | 9-Jun-15     | 0.0077        | 0.0009       | <0.01        | 0.00017       | 0.066        |
| Roper Reservoir - 50%          | 9-Jun-15     | 0.0076        | 0.0010       | <0.01        | 0.00022       | 0.065        |

## Metal Results EPCOR 2015

| Sample Location                | Date Sampled | Arsenic       | Copper       | Iron         | Lead          | Manganese    |
|--------------------------------|--------------|---------------|--------------|--------------|---------------|--------------|
|                                |              | mg/L          | mg/L         | mg/L         | mg/L          | mg/L         |
| <b>Nominal Detection Limit</b> |              | <b>0.0002</b> | <b>0.001</b> | <b>0.005</b> | <b>0.0001</b> | <b>0.001</b> |
| <b>Guideline Limit</b>         |              | <b>0.010</b>  | <b>1</b>     | <b>0.3</b>   | <b>0.01</b>   | <b>0.05</b>  |
| Merklin High Reservoir         | 9-Jun-15     | 0.0088        | 0.0027       | <0.01        | 0.00007       | 0.107        |
| EPCOR Office                   | 9-Jun-15     | 0.0077        | 0.0133       | <0.01        | 0.00031       | 0.114        |
| Well #7 - Chlorine STN         | 9-Jun-15     | 0.0084        | 0.0005       | <0.01        | 0.00014       | 0.105        |
| 13600 Blk. Marine Drive        | 10-Jun-15    | 0.0059        | 0.0048       | <0.01        | 0.00047       | 0.023        |
| 15600 Blk. Moffat Lane         | 10-Jun-15    | 0.0079        | 0.0039       | <0.01        | 0.00017       | 0.103        |
| Well #2 Pump House             | 10-Jun-15    | 0.0047        | 0.0023       | 0.30         | <0.00005      | 0.004        |
| 14800 Blk. Marine Drive        | 10-Jun-15    | 0.0087        | 0.0159       | <0.01        | 0.00007       | 0.004        |
| 15500 Blk. North Bluff Road    | 16-Jun-15    | 0.0091        | 0.0266       | <0.01        | <0.00005      | 0.121        |
| Merklin & Thrift               | 16-Jun-15    | 0.0093        | 0.0056       | <0.01        | 0.00005       | 0.123        |
| Merklin Low Reservoir - 25%    | 16-Jun-15    | 0.0083        | <0.0005      | <0.01        | 0.00007       | 0.103        |
| Merklin Low Reservoir - 50%    | 16-Jun-15    | 0.0084        | 0.0007       | <0.01        | 0.00018       | 0.101        |
| Merklin Low Reservoir - 75%    | 16-Jun-15    | 0.0082        | 0.0012       | <0.01        | 0.00030       | 0.081        |
| Roper Reservoir - 25%          | 16-Jun-15    | N/A           | N/A          | N/A          | N/A           | N/A          |
| Roper Reservoir - 50%          | 16-Jun-15    | N/A           | N/A          | N/A          | N/A           | N/A          |
| Merklin High Reservoir         | 16-Jun-15    | 0.0091        | 0.0031       | <0.01        | 0.00008       | 0.122        |
| Malabar STN                    | 16-Jun-15    | 0.0032        | 0.0016       | <0.01        | 0.00054       | 0.142        |
| Well #5 - Buena Vista          | 24-Jun-15    | 0.0083        | 0.0089       | <0.01        | 0.00026       | 0.010        |
| Well #1 - Oxford               | 17-Jun-15    | 0.0072        | 0.0011       | 0.04         | 0.00067       | 0.062        |
| Kent Activity Centre           | 17-Jun-15    | 0.0090        | 0.0083       | <0.01        | 0.00008       | 0.121        |
| Mann Park STN                  | 17-Jun-15    | 0.0050        | 0.0093       | <0.01        | 0.00031       | 0.024        |
| Marine & Stayte STN            | 17-Jun-15    | 0.0072        | 0.0046       | <0.01        | 0.00031       | 0.047        |
| 15500 Blk. North Bluff Road    | 23-Jun-15    | 0.0090        | 0.0243       | <0.01        | <0.00005      | 0.120        |
| Merklin & Thrift               | 23-Jun-15    | 0.0092        | 0.0055       | <0.01        | 0.00005       | 0.124        |
| Merklin Low Reservoir - 25%    | 23-Jun-15    | 0.0082        | 0.0012       | 0.01         | 0.00016       | 0.099        |
| Merklin Low Reservoir - 50%    | 23-Jun-15    | 0.0084        | 0.0007       | <0.01        | 0.00018       | 0.099        |
| Merklin Low Reservoir - 75%    | 23-Jun-15    | 0.0081        | 0.0006       | <0.01        | 0.00014       | 0.100        |
| Roper Reservoir - 25%          | 23-Jun-15    | 0.0071        | 0.0010       | <0.01        | 0.00019       | 0.098        |
| Roper Reservoir - 50%          | 23-Jun-15    | 0.0070        | 0.0006       | 0.01         | 0.00024       | 0.097        |
| Merklin High Reservoir         | 23-Jun-15    | 0.0089        | 0.0028       | 0.02         | 0.00010       | 0.121        |
| Stevens STN                    | 23-Jun-15    | 0.0090        | 0.0030       | <0.01        | 0.00028       | 0.121        |
| Well #3 - Oxford               | 23-Jun-15    | 0.0064        | 0.0005       | <0.01        | <0.00005      | 0.189        |
| 15800 Blk. Pacific Avenue      | 24-Jun-15    | 0.0076        | 0.0041       | <0.01        | 0.00034       | 0.058        |
| Well #6 - Valve Chamber        | 24-Jun-15    | 0.0089        | 0.0008       | <0.01        | 0.00008       | 0.133        |
| Bergstrom Residence            | 24-Jun-15    | 0.0056        | 0.0139       | <0.01        | 0.00042       | 0.017        |
| WR Washroom                    | 24-Jun-15    | 0.0083        | 0.0279       | <0.01        | 0.00044       | 0.033        |
| Magdalen & Bishop              | 24-Jun-15    | 0.0060        | 0.0029       | <0.01        | 0.00017       | 0.033        |
| 15500 Blk. North Bluff Road    | 30-Jun-15    | 0.0091        | 0.0247       | <0.01        | <0.00005      | 0.114        |
| Merklin & Thrift               | 30-Jun-15    | 0.0091        | 0.0057       | <0.01        | 0.00006       | 0.114        |
| Merklin Low Reservoir (25%)    | 30-Jun-15    | 0.0088        | 0.0005       | <0.01        | 0.00009       | 0.096        |
| Merklin Low Reservoir (50%)    | 30-Jun-15    | 0.0086        | 0.0008       | <0.01        | 0.00030       | 0.094        |
| Merklin Low Reservoir (75%)    | 30-Jun-15    | 0.0086        | 0.0007       | <0.01        | 0.00017       | 0.098        |
| Roper Reservoir - 25%          | 30-Jun-15    | 0.0081        | 0.0011       | <0.01        | 0.00022       | 0.101        |
| Roper Reservoir - 50%          | 30-Jun-15    | 0.0080        | 0.0007       | <0.01        | 0.00016       | 0.099        |
| Merklin High Reservoir         | 30-Jun-15    | 0.0087        | 0.0030       | <0.01        | 0.00009       | 0.108        |
| 15300 Blk. Buena Vista Avenue  | 29-Jun-15    | 0.0083        | 0.0163       | <0.01        | 0.00007       | 0.112        |

## Metal Results EPCOR 2015

| Sample Location                | Date Sampled | Arsenic       | Copper       | Iron         | Lead          | Manganese    |
|--------------------------------|--------------|---------------|--------------|--------------|---------------|--------------|
|                                |              | mg/L          | mg/L         | mg/L         | mg/L          | mg/L         |
| <b>Nominal Detection Limit</b> |              | <b>0.0002</b> | <b>0.001</b> | <b>0.005</b> | <b>0.0001</b> | <b>0.001</b> |
| <b>Guideline Limit</b>         |              | <b>0.010</b>  | <b>1</b>     | <b>0.3</b>   | <b>0.01</b>   | <b>0.05</b>  |
| Well #4 - Valve Chamber        | 29-Jun-15    | 0.0034        | 0.0012       | <0.01        | 0.00038       | 0.163        |
| Maple & Columbia               | 29-Jun-15    | 0.0089        | 0.0825       | <0.01        | 0.00094       | 0.034        |
| Centennial Arena               | 29-Jun-15    | 0.0059        | 0.0857       | <0.01        | 0.00028       | 0.056        |
| Penny Lane                     | 29-Jun-15    |               |              |              |               |              |
| 14000 Blk. North Bluff Road    | 29-Jun-15    | 0.0064        | 0.0629       | <0.01        | 0.00044       | 0.088        |
| 15500 Blk. North Bluff Road    | 8-Sep-15     | 0.0091        | 0.0236       | <0.01        | 0.00009       | 0.128        |
| Merklin & Thrift               | 8-Sep-15     | 0.0093        | 0.0054       | <0.01        | 0.00006       | 0.125        |
| Merklin Low Reservoir (25%)    | 8-Sep-15     | 0.0078        | <0.0005      | <0.01        | 0.0001        | 0.1020       |
| Merklin Low Reservoir (50%)    | 8-Sep-15     | 0.0086        | <0.0005      | <0.01        | 0.00016       | 0.1010       |
| Merklin Low Reservoir (75%)    | 8-Sep-15     | 0.0087        | <0.0005      | <0.01        | 0.0001        | 0.100        |
| Roper Reservoir - 25%          | 8-Sep-15     | 0.0074        | 0.0006       | <0.01        | 0.00015       | 0.111        |
| Roper Reservoir - 50%          | 8-Sep-15     | 0.0054        | <0.0005      | <0.01        | 0.00013       | 0.113        |
| Merklin High Reservoir         | 8-Jun-15     | 0.0093        | 0.0027       | <0.01        | 0.00008       | 0.128        |
| Malabar Station                | 8-Sep-15     | 0.0067        | 0.0013       | <0.01        | 0.00045       | 0.039        |
| Well #1                        | 9-Sep-15     | 0.0068        | 0.0008       | <0.01        | 0.00093       | 0.056        |
| Kent Activity Center           | 9-Sep-15     | 0.0085        | 0.0119       | <0.01        | 0.00009       | 0.126        |
| Mann Park Station              | 9-Sep-15     | 0.0063        | 0.0037       | <0.01        | 0.00025       | 0.048        |
| Marine & Stayte Station        | 9-Sep-15     | 0.0074        | 0.0033       | <0.01        | 0.00180       | 0.037        |
| 15500 Blk. North Bluff Road    | 15-Sep-15    | 0.0095        | 0.0335       | <0.01        | <0.00005      | 0.119        |
| Merklin & Thrift               | 15-Sep-15    | 0.0094        | 0.0063       | <0.01        | 0.00005       | 0.130        |
| Merklin Low Reservoir (25%)    | 15-Sep-15    | 0.0087        | <0.0005      | <0.01        | 0.00008       | 0.104        |
| Merklin Low Reservoir (50%)    | 15-Sep-15    | 0.0082        | 0.0006       | <0.01        | 0.00017       | 0.106        |
| Merklin Low Reservoir (75%)    | 15-Sep-15    | 0.0093        | 0.0007       | <0.01        | 0.00013       | 0.103        |
| Roper Reservoir - 25%          | 15-Sep-15    | 0.0078        | 0.0005       | <0.01        | 0.00012       | 0.122        |
| Roper Reservoir - 50%          | 15-Sep-15    | 0.0077        | 0.0006       | <0.01        | 0.00011       | 0.123        |
| Merklin High Reservoir         | 15-Sep-15    | 0.0090        | 0.0031       | 0.01         | 0.00016       | 0.137        |
| Stevens Station                | 15-Sep-15    | 0.0096        | 0.0032       | <0.01        | 0.00021       | 0.133        |
| Well #3 Oxford                 | 15-Sep-15    | 0.0067        | <0.0005      | <0.01        | <0.00005      | 0.186        |
| 15800 Blk. Pacific Avenue      | 16-Sep-15    | 0.0068        | 0.0038       | <0.01        | 0.00034       | 0.078        |
| Well #6 Valve Chamber          | 16-Sep-15    | 0.0093        | 0.0005       | <0.01        | 0.00008       | 0.138        |
| Bergstrom Residence            | 16-Sep-15    | 0.0054        | 0.0046       | <0.01        | 0.00020       | 0.009        |
| WR Washroom                    | 16-Sep-15    | 0.0083        | 0.0398       | <0.01        | 0.00047       | 0.063        |
| Magdalen & Bishop              | 16-Sep-15    | 0.0067        | 0.0029       | <0.01        | 0.00017       | 0.037        |
| 15500 Blk. North Bluff Road    | 22-Sep-15    | 0.0085        | 0.0268       | <0.01        | <0.00005      | 0.108        |
| Merklin & Thrift               | 22-Sep-15    | 0.0086        | 0.0061       | <0.01        | 0.00006       | 0.103        |
| Merklin Low Reservoir (25%)    | 22-Sep-15    | 0.0087        | <0.0005      | <0.01        | 0.00016       | 0.105        |
| Merklin Low Reservoir (50%)    | 22-Sep-15    | 0.0087        | 0.0006       | <0.01        | 0.00020       | 0.106        |
| Merklin Low Reservoir (75%)    | 22-Sep-15    | 0.0089        | 0.0006       | <0.01        | 0.00012       | 0.106        |
| Merklin High Reservoir         | 22-Sep-15    | 0.0090        | 0.0031       | 0.11         | 0.00105       | 0.1370       |
| Roper Reservoir - 25%          | 22-Sep-15    | 0.0071        | 0.0007       | <0.01        | 0.00015       | 0.1070       |
| Roper Reservoir - 50%          | 22-Sep-15    | 0.0069        | 0.0006       | <0.01        | 0.00017       | 0.112        |
| 15300 Blk. Buena Vista Avenue  | 22-Sep-15    | 0.0075        | 0.0127       | <0.01        | 0.00029       | 0.106        |
| Well #4 - Valve Chamber        | 22-Sep-15    | 0.0027        | 0.0011       | 0.02         | 0.00026       | 0.182        |

Epcor Water Quality Testing January to October 2015

[illegible]

## Non Routine Water Quality Results for Source and Distribution Water

| Sampling Point Name         | Date Sampled | TC           | E-coli       | Comments                            |
|-----------------------------|--------------|--------------|--------------|-------------------------------------|
|                             |              | MPN / 100 ml | MPN / 100 ml |                                     |
| 1300 Blk. Merklin Street    | 20-Jan-15    | <1           | <1           | Due to customer concern             |
| Well #6 - Merklin           | 20-Feb-15    | <1           | <1           | 1st set – Well #6 is not in service |
| Well #6 - Merklin           | 23-Feb-15    | <1           | <1           | 2nd set – Well #6 is not in service |
| 1400 Blk. Best Street       | 26-Feb-15    | <1           | <1           | Due to customer concern             |
| 1400 Blk. Foster Project    | 31-Mar-15    | <1           | <1           | New water main project – 1st set    |
| Well #6 - Merklin           | 1-Apr-15     | <1           | <1           | Well is under redevelopment         |
| Foster & Thrift Avenue      | 1-Apr-15     | <1           | <1           | 2nd set – Water main                |
| Marine Drive and Finlay     | 15-Apr-15    | <1           | <1           | Due to main break                   |
| 15000 Blk. Buena Vista Ave. | 22-Apr-15    | <1           | <1           | New 4" service line                 |
| 1100 Blk. Lee Street        | 22-May-15    | <1           | <1           | Water main repair - NIS             |

## APPENDIX B

City of White Rock Water Quality Testing November - December 2015

**In-House Water Testing Results Novemebr 2015**

| Week 1                      |                      | Nov. 2-6   |      |                 |       |                       |                    |
|-----------------------------|----------------------|------------|------|-----------------|-------|-----------------------|--------------------|
| SAMPLE LOCATION             | Conductivity (µS/cm) | pH         | NTU  | Chlorine (mg/L) |       | Temp. Collected (° C) | Temp. Tested (° C) |
|                             |                      |            |      | Free            | Total |                       |                    |
| Merklin Low Reservoir - 25% | 313                  | 8.06       | 0.26 | 0.00            | 0.03  | 11.7                  | 20.9               |
| Merklin Low Reservoir - 50% | 310                  | 8.05       | 0.24 | 0.03            | 0.03  | 11.5                  | 22.4               |
| Merklin Low Reservoir - 75% | 319                  | 8.08       | 0.24 | 0.03            | 0.02  | 11.9                  | 21.2               |
| Roper Reservoir - 25%       | 309                  | 8.11       | 0.13 | 0.02            | 0.28  | 10.6                  | 20.7               |
| Roper Reservoir - 50%       | 326                  | 8.06       | 0.15 | 0.02            | 0.24  | 10.8                  | 20.7               |
| Merklin High Standpipe      | 289                  | 7.91       | 0.16 | 0.03            | 0.56  | 11.3                  | 21.0               |
| Main Shop (Buena Vista)     | 310                  | 8.02       | 0.11 | 0.01            | 0.01  | 12.2                  | 22.1               |
| Stayte Sampling Station     | 306                  | 8.04       | 0.09 | 0.03            | 0.01  | 14.1                  | 22.3               |
| City Washroom               | 296                  | 7.92       | 0.13 | 0.01            | 0.03  | 13.9                  | 22.4               |
| Malabar Sample Station      | 352                  | 8.03       | 0.13 | 0.06            | 0.05  | 14.0                  | 22.0               |
| Stevens Sample Station      | 341                  | 8.13       | 0.11 | 0.13            | 0.79  | 11.9                  | 21.6               |
| Marine Dr Sample Station    | 360                  | 8.05       | 0.19 | 0.01            | 0.01  | 13.1                  | 21.5               |
| Week 2                      |                      | Nov. 9-15  |      |                 |       |                       |                    |
| SAMPLE LOCATION             | Conductivity (µS/cm) | pH         | NTU  | Chlorine (mg/L) |       | Temp. Collected (° C) | Temp. Tested (° C) |
|                             |                      |            |      | Free            | Total |                       |                    |
| Merklin Low Reservoir - 25% | 302                  | 8.14       | 0.24 | 0.02            | 0.04  | 10.4                  | 19.8               |
| Merklin Low Reservoir - 50% | 312                  | 8.17       | 0.26 | 0.02            | 0.02  | 10.7                  | 19.4               |
| Merklin Low Reservoir - 75% | 314                  | 8.20       | 0.24 | 0.02            | 0.04  | 10.1                  | 19.9               |
| Roper Reservoir - 25%       | 392                  | 8.10       | 0.15 | 0.01            | 0.01  | 11.2                  | 20.6               |
| Roper Reservoir - 50%       | 387                  | 8.08       | 0.22 | 0.02            | 0.05  | 11.8                  | 20.2               |
| Merklin High Standpipe      | 282                  | 8.01       | 0.32 | 0.04            | 0.49  | 10.5                  | 21.9               |
| Main Shop (Buena Vista)     | 540                  | 7.85       | 0.10 | 0.01            | 0.01  | 15.3                  | 21.9               |
| Stayte Sampling Station     | 432                  | 7.99       | 0.11 | 0.01            | 0.02  | 12.9                  | 19.1               |
| City Washroom               | 480                  | 7.91       | 0.17 | 0.02            | 0.02  | 14.0                  | 19.3               |
| Malabar Sample Station      | 262                  | 8.07       | 0.10 | 0.02            | 0.02  | 11.1                  | 17.8               |
| Stevens Sample Station      | 286                  | 8.12       | 0.18 | 0.02            | 0.54  | 10.7                  | 17.4               |
| Marine Dr Sample Station    | 265                  | 8.04       | 0.10 | 0.00            | 0.01  | 13.1                  | 17.6               |
| Week 3                      |                      | Nov. 16-20 |      |                 |       |                       |                    |
| SAMPLE LOCATION             | Conductivity (µS/cm) | pH         | NTU  | Chlorine (mg/L) |       | Temp. Collected (° C) | Temp. Tested (° C) |
|                             |                      |            |      | Free            | Total |                       |                    |
| Merklin Low Reservoir - 25% | 316                  | 8.05       | 0.29 | 0.04            | 0.13  | 10.0                  | 21.4               |
| Merklin Low Reservoir - 50% | 320                  | 8.06       | 0.26 | 0.05            | 0.12  | 9.9                   | 21.2               |
| Merklin Low Reservoir - 75% | 320                  | 8.04       | 0.29 | 0.05            | 0.13  | 9.9                   | 21.4               |
| Merklin High Standpipe      | 316                  | 8.12       | 0.35 | 0.04            | 0.05  | 9.9                   | 18.5               |
| Main Shop (Buena Vista)     | 534                  | 7.81       | 0.10 | 0.05            | 0.01  | 13.1                  | 20.0               |
| Roper PRV - Low Zone        | 327                  | 7.91       | 0.18 | 0.05            | 0.52  | 10.9                  | 18.8               |
| Roper PRV - High Zone       | 331                  | 8.04       | 0.28 | 0.08            | 0.57  | 11.1                  | 18.8               |
| Stayte Sampling Station     | 492                  | 7.81       | 0.10 | 0.02            | 0.01  | 12.7                  | 22.0               |
| City Washroom               | 331                  | 8.05       | 0.19 | 0.03            | 0.02  | 12.5                  | 21.3               |
| Malabar Sample Station      | 260                  | 8.09       | 0.17 | 0.05            | 0.05  | 11.2                  | 18.8               |
| Stevens Sample Station      | 333                  | 8.10       | 0.15 | 0.06            | 0.68  | 11.0                  | 20.9               |
| Week 4                      |                      | Nov. 23-27 |      |                 |       |                       |                    |
| SAMPLE LOCATION             | Conductivity (µS/cm) | pH         | NTU  | Chlorine (mg/L) |       | Temp. Collected (° C) | Temp. Tested (° C) |
|                             |                      |            |      | Free            | Total |                       |                    |
| Merklin Low Reservoir - 25% | 308                  | 8.08       | 0.31 | 0.04            | 0.07  | 9.6                   | 18.2               |
| Merklin Low Reservoir - 50% | 309                  | 8.15       | 0.31 | 0.04            | 0.05  | 7.4                   | 17.2               |
| Merklin Low Reservoir - 75% | 314                  | 8.17       | 0.31 | 0.04            | 0.12  | 8.2                   | 17.3               |
| Roper PRV - Low Zone        | 285                  | 7.91       | 0.23 | 0.01            | 0.68  | 10.4                  | 19.6               |

## City of White Rock Water Quality Testing November - December 2015

|                          |     |      |      |      |      |      |      |
|--------------------------|-----|------|------|------|------|------|------|
| Roper PRV - High Zone    | 287 | 7.96 | 0.25 | 0.05 | 0.47 | 9.7  | 19.0 |
| Merklin High Standpipe   | 287 | 8.07 | 0.50 | 0.04 | 0.60 | 9.9  | 17.3 |
| Main Shop (Buena Vista)  | 535 | 7.88 | 0.11 | 0.04 | 0.02 | 9.9  | 19.5 |
| Stayte Sampling Station  | 466 | 7.71 | 0.16 | 0.01 | 0.01 | 10.8 | 19.7 |
| City Washroom            | 530 | 7.92 | 0.13 | 0.03 | 0.09 | 11.9 | 17.4 |
| Malabar Sample Station   | 251 | 7.93 | 0.16 | 0.20 | 0.01 | 9.6  | 19.3 |
| Stevens Sample Station   | 279 | 7.75 | 0.20 | 0.03 | 0.59 | 9.7  | 18.8 |
| Marine Dr Sample Station | 472 | 7.55 | 0.16 | 0.02 | 0.05 | 9.6  | 19.4 |

## In-House Water Testing Results December 2015

| Week 1                      |                      | Nov. 30 - Dec. 4 |      |                 |       |                       |                    |
|-----------------------------|----------------------|------------------|------|-----------------|-------|-----------------------|--------------------|
| SAMPLE LOCATION             | Conductivity (µS/cm) | pH               | NTU  | Chlorine (mg/L) |       | Temp. Collected (° C) | Temp. Tested (° C) |
|                             |                      |                  |      | Free            | Total |                       |                    |
| Merklin Low Reservoir - 25% | 315                  | 7.97             | 0.35 | 0.04            | 0.04  | 8.6                   | 20.9               |
| Merklin Low Reservoir - 50% | 310                  | 8.04             | 0.32 | 0.04            | 0.05  | 8.6                   | 20.7               |
| Merklin Low Reservoir - 75% | 317                  | 8.06             | 0.32 | 0.04            | 0.04  | 8.6                   | 20.4               |
| Roper Reservoir - Low Zone  | 312                  | 7.81             | 0.21 | 0.17            | 0.38  | 9.4                   | 20.5               |
| Roper Reservoir - High Zone | 306                  | 7.84             | 0.17 | 0.35            | 0.37  | 9.3                   | 20.9               |
| Merklin High Standpipe      | 293                  | 8.10             | 0.30 | 0.38            | 0.53  | 8.1                   | 21.2               |
| Main Shop (Buena Vista)     | 528                  | 7.87             | 0.21 | 0.00            | 0.00  | 11.6                  | 20.8               |
| Stayte Sampling Station     | 594                  | 7.86             | 0.13 | 0.00            | 0.04  | 9.2                   | 20.5               |
| City Washroom               | 337                  | 7.93             | 0.20 | 0.00            | 0.03  | 9.7                   | 21.2               |
| Malabar Sample Station      | 270                  | 7.99             | 0.08 | 0.04            | 0.01  | 9.2                   | 20.9               |
| Stevens Sample Station      | 266                  | 7.97             | 0.19 | 0.00            | 0.02  | 9.5                   | 21.2               |
| Marine Dr Sample Station    | 329                  | 7.99             | 0.13 | 0.07            | 0.66  | 9.1                   | 20.1               |
| Week 2                      |                      | Dec. 7-11        |      |                 |       |                       |                    |
| SAMPLE LOCATION             | Conductivity (µS/cm) | pH               | NTU  | Chlorine (mg/L) |       | Temp. Collected (° C) | Temp. Tested (° C) |
|                             |                      |                  |      | Free            | Total |                       |                    |
| Merklin Low Reservoir - 25% | 318                  | 8.42             | 0.34 | 0.05            | 0.14  | 8.7                   | 18.1               |
| Merklin Low Reservoir - 50% | 371                  | 8.63             | 0.40 | 0.10            | 0.14  | 8.7                   | 18.3               |
| Merklin Low Reservoir - 75% | 328                  | 8.49             | 0.34 | 0.07            | 0.14  | 8.6                   | 18.3               |
| Roper PRV - Low Zone        | 307                  | 8.40             | 0.11 | 0.03            | 0.51  | 9.7                   | 18.3               |
| Roper PRV - High Zone       | 308                  | 8.38             | 0.15 | 0.07            | 0.48  | 9.7                   | 18.4               |
| Merklin High Standpipe      | 325                  | 8.39             | 0.20 | 0.05            | 0.82  | 9.5                   | 18.4               |
| Main Shop (Buena Vista)     | 516                  | 7.60             | 0.40 | 0.04            | 0.02  | 12.1                  | 21.3               |
| Stayte Sampling Station     | 491                  | 7.57             | 0.23 | 0.01            | 0.02  | 10.1                  | 21.7               |
| City Washroom               | 523                  | 7.73             | 0.31 | 0.04            | 0.31  | 15.2                  | 21.1               |
| Mann Park Sample Station    | 265                  | 7.76             | 0.21 | 0.01            | 0.00  | 9.4                   | 20.4               |
| Stevens Sample Station      | 328                  | 7.99             | 0.18 | 0.09            | 0.69  | 10.2                  | 20.9               |
| Marine Dr Sample Station    | 275                  | 7.79             | 0.19 | 0.01            | 0.09  | 9.7                   | 20.6               |
| Week 3                      |                      | Dec. 14-18       |      |                 |       |                       |                    |
| SAMPLE LOCATION             | Conductivity (µS/cm) | pH               | NTU  | Chlorine (mg/L) |       | Temp. Collected (° C) | Temp. Tested (° C) |
|                             |                      |                  |      | Free            | Total |                       |                    |
| Merklin Low Reservoir - 25% | 322                  | 8.03             | 0.36 | 0.06            | 0.23  | 8.3                   | 19.5               |
| Merklin Low Reservoir - 50% | 327                  | 8.04             | 0.28 | 0.05            | 0.15  | 8.0                   | 17.8               |
| Merklin Low Reservoir - 75% | 317                  | 8.05             | 0.33 | 0.04            | 0.09  | 8.0                   | 15.8               |
| Roper PRV - Low Zone        | 300                  | 7.85             | 0.09 | 0.18            | 0.82  | 9.5                   | 17.3               |
| Merklin High Standpipe      | 295                  | 7.93             | 0.27 | 0.11            | 0.59  | 9.5                   | 16.4               |
| Main Shop (Buena Vista)     | 530                  | 7.61             | 0.09 | 0.08            | 0.01  | 12.5                  | 18.5               |
| Stayte Sampling Station     | 275                  | 7.53             | 0.08 | 0.00            | 0.00  | 9.6                   | 17.7               |
| City Washroom               | 325                  | 8.01             | 0.15 | 0.04            | 0.04  | 12.3                  | 16.9               |
| Malabar Sample Station      | 270                  | 7.62             | 0.05 | 0.01            | 0.02  | 8.7                   | 16.8               |

## City of White Rock Water Quality Testing November - December 2015

| Stevens Sample Station      | 327                           | 7.70 | 0.07 | 0.04            | 0.67  | 9.1                      | 16.7                  |
|-----------------------------|-------------------------------|------|------|-----------------|-------|--------------------------|-----------------------|
| Marine Dr Sample Station    | 484                           | 7.83 | 0.10 | 0.04            | 0.01  | 9.2                      | 17.2                  |
| <b>Week 4</b>               | <b>Dec. 21-25</b>             |      |      |                 |       |                          |                       |
| SAMPLE LOCATION             | Conductivity<br>( $\mu$ S/cm) | pH   | NTU  | Chlorine (mg/L) |       | Temp.<br>Collected (° C) | Temp. Tested (°<br>C) |
|                             |                               |      |      | Free            | Total |                          |                       |
| Merklin Low Reservoir - 25% | 297                           | 7.79 | 0.39 | 0.08            | 0.36  | 8.5                      | 22.3                  |
| Merklin Low Reservoir - 50% | 306                           | 7.84 | 0.33 | 0.02            | 0.36  | 8.5                      | 22.2                  |
| Merklin Low Reservoir - 75% | 299                           | 7.81 | 0.33 | 0.04            | 0.27  | 8.3                      | 22.6                  |
| Roper PRV - High Zone       | 307                           | 7.76 | 0.09 | 0.10            | 1.14  | 9.2                      | 22.0                  |
| Merklin High Standpipe      | 299                           | 7.85 | 0.40 | 0.06            | 0.45  | 10.0                     | 22.8                  |
| Main Shop (Buena Vista)     | 513                           | 7.83 | 0.08 | 0.01            | 0.02  | 11.9                     | 24.6                  |
| Stayte Sampling Station     | 446                           | 8.02 | 0.11 | 0.03            | 0.03  | 9.2                      | 25.1                  |
| City Washroom               | 452                           | 8.07 | 0.20 | 0.02            | 0.03  | 9.4                      | 25.1                  |
| Mann Park Sample Station    | 276                           | 8.08 | 0.09 | 0.02            | 0.04  | 8.5                      | 23.1                  |
| Stevens Sample Station      | 280                           | 8.01 | 0.22 | 0.04            | 0.62  | 9.5                      | 22.6                  |
| Marine Dr Sample Station    | 285                           | 7.88 | 0.18 | 0.00            | 0.02  | 9.0                      | 24.5                  |
| <b>Week 5</b>               | <b>Dec. 28 - Jan. 1/16</b>    |      |      |                 |       |                          |                       |
| SAMPLE LOCATION             | Conductivity<br>( $\mu$ S/cm) | pH   | NTU  | Chlorine (mg/L) |       | Temp.<br>Collected (° C) | Temp. Tested (°<br>C) |
|                             |                               |      |      | Free            | Total |                          |                       |
| Merklin Low Reservoir - 25% | 285                           | 8.14 | 0.32 | 0.06            | 0.22  | 7.9                      | 24.3                  |
| Merklin Low Reservoir - 50% | 307                           | 8.12 | 0.28 | 0.07            | 0.22  | 7.3                      | 25.0                  |
| Merklin Low Reservoir - 75% | 298                           | 8.18 | 0.31 | 0.06            | 0.21  | 6.7                      | 25.4                  |
| Roper PRV - Low Zone        | 274                           | 8.17 | 0.10 | 0.04            | 0.35  | 8.9                      | 24.1                  |
| Merklin High Standpipe      | 296                           | 8.03 | 0.20 | 0.00            | 0.56  | 8.7                      | 25.2                  |
| Main Shop (Buena Vista)     | 522                           | 7.76 | 0.06 | 0.04            | 0.08  | 11.7                     | 26.6                  |
| Roper PRV - Low Zone        | 294                           | 7.99 | 0.15 | 0.05            | 0.49  | 8.7                      | 27.2                  |
| City Washroom               | 369                           | 7.92 | 0.12 | 0.04            | 0.04  | 10.3                     | 27.3                  |
| Malabar Sample Station      | 273                           | 7.94 | 0.06 | 0.04            | 0.01  | 9.5                      | 25.5                  |

City of White Rock Water Quality Testing November - December 2015

**Bacterial Results**

| Microbiological Analysis | # of Samples | Pass | Fail | Date            | Guideline Comments |
|--------------------------|--------------|------|------|-----------------|--------------------|
| Total Coliforms          | 12           | 12   | 0    | Nov 9 - 13      | Below MAC          |
| Escherichia Coli         | 12           | 12   | 0    | Nov 9 - 13      | Below MAC          |
| Total Coliforms          | 11           | 11   | 0    | Nov 16 - 20     | Below MAC          |
| Escherichia Coli         | 11           | 11   | 0    | Nov 16 - 20     | Below MAC          |
| Total Coliforms          | 12           | 12   | 0    | Nov 23 - 27     | Below MAC          |
| Escherichia Coli         | 12           | 12   | 0    | Nov 23 - 27     | Below MAC          |
| Total Coliforms          | 12           | 12   | 0    | Nov 30 - Dec 04 | Below MAC          |
| Escherichia Coli         | 12           | 12   | 0    | Nov 30 - Dec 04 | Below MAC          |
| Total Coliforms          | 12           | 12   | 0    | Dec 07 - 11     | Below MAC          |
| Escherichia Coli         | 12           | 12   | 0    | Dec 07 - 11     | Below MAC          |
| Total Coliforms          | 11           | 11   | 0    | Dec 14 - 18     | Below MAC          |
| Escherichia Coli         | 11           | 11   | 0    | Dec 14 - 18     | Below MAC          |
| Total Coliforms          | 11           | 11   | 0    | Dec 21 - 25     | Below MAC          |
| Escherichia Coli         | 11           | 11   | 0    | Dec 21 - 25     | Below MAC          |

**Metal Results**

| Sample Location          | Date      | Metals    | Units | Result | Nominal Detection Limit | Guideline Limit | Guideline Comments | Pass/ Fail |
|--------------------------|-----------|-----------|-------|--------|-------------------------|-----------------|--------------------|------------|
| Well #1 Oxford Street    | 17-Nov-15 | Arsenic   | mg/L  | 0.0040 | 0.0002                  | 0.010           | Below MAC          | Pass       |
|                          | 17-Nov-15 | Copper    | mg/L  | 0.005  | 0.001                   | 1.0             | Below AO           | Pass       |
|                          | 17-Nov-15 | Lead      | mg/L  | 0.0046 | 0.0001                  | 0.01            | Below MAC          | Pass       |
|                          | 17-Nov-15 | Iron      | mg/L  | 0.006  | 0.005                   | 0.3             | Below AO           | Pass       |
|                          | 17-Nov-15 | Manganese | mg/L  | 0.043  | 0.001                   | 0.05            | Below AO           | Pass       |
| Well #2 Oxford Street    | 17-Nov-15 | Arsenic   | mg/L  | 0.0045 | 0.0002                  | 0.010           | Below MAC          | Pass       |
|                          | 17-Nov-15 | Copper    | mg/L  | 0.005  | 0.001                   | 1.0             | Below AO           | Pass       |
|                          | 17-Nov-15 | Lead      | mg/L  | 0.0001 | 0.0001                  | 0.01            | Below MAC          | Pass       |
|                          | 17-Nov-15 | Iron      | mg/L  | 0.085  | 0.005                   | 0.3             | Below AO           | Pass       |
|                          | 17-Nov-15 | Manganese | mg/L  | 0.003  | 0.001                   | 0.05            | Below AO           | Pass       |
| Well #3 Oxford Street    | 17-Nov-15 | Arsenic   | mg/L  | 0.0043 | 0.0002                  | 0.010           | Below MAC          | Pass       |
|                          | 17-Nov-15 | Copper    | mg/L  | 0.009  | 0.001                   | 1               | Below AO           | Pass       |
|                          | 17-Nov-15 | Lead      | mg/L  | 0.0003 | 0.0001                  | 0.01            | Below MAC          | Pass       |
|                          | 17-Nov-15 | Iron      | mg/L  | 0.612  | 0.005                   | 0.3             | Above AO           | Fail       |
|                          | 17-Nov-15 | Manganese | mg/L  | 0.014  | 0.001                   | 0.05            | Below AO           | Pass       |
| Well #4 High Street      | 18-Nov-15 | Arsenic   | mg/L  | 0.0027 | 0.0002                  | 0.010           | Below MAC          | Pass       |
|                          | 18-Nov-15 | Copper    | mg/L  | 0.007  | 0.001                   | 1.0             | Below AO           | Pass       |
|                          | 18-Nov-15 | Lead      | mg/L  | 0.0128 | 0.0001                  | 0.01            | Above MAC          | Fail       |
|                          | 18-Nov-15 | Iron      | mg/L  | 0.258  | 0.005                   | 0.3             | Below AO           | Pass       |
|                          | 18-Nov-15 | Manganese | mg/L  | 0.020  | 0.001                   | 0.05            | Below AO           | Pass       |
| Well #4 High Street      | 30-Nov-15 | Arsenic   | mg/L  | 0.0038 | 0.0002                  | 0.010           | Below MAC          | Pass       |
| Retest from Nov 18, 2015 | 30-Nov-15 | Copper    | mg/L  | 0.001  | 0.001                   | 1.00            | Below AO           | Pass       |
|                          | 30-Nov-15 | Lead      | mg/L  | 0.0006 | 0.0001                  | 0.01            | Below MAC          | Pass       |
|                          | 30-Nov-15 | Iron      | mg/L  | 0.636  | 0.005                   | 0.3             | Above AO           | Fail       |
|                          | 30-Nov-15 | Manganese | mg/L  | 0.170  | 0.001                   | 0.05            | Above AO           | Fail       |
| Well #5 Buena Vista Ave  | 17-Nov-15 | Arsenic   | mg/L  | 0.0083 | 0.0002                  | 0.010           | Below MAC          | Pass       |
|                          | 17-Nov-15 | Copper    | mg/L  | 0.012  | 0.001                   | 1.0             | Below AO           | Pass       |
|                          | 17-Nov-15 | Lead      | mg/L  | 0.0003 | 0.0001                  | 0.01            | Below MAC          | Pass       |
|                          | 17-Nov-15 | Iron      | mg/L  | <0.005 | 0.005                   | 0.3             | Below AO           | Pass       |
|                          | 17-Nov-15 | Manganese | mg/L  | 0.004  | 0.001                   | 0.05            | Below AO           | Pass       |
| Well #6 Merklin Street   | 17-Nov-15 | Arsenic   | mg/L  | 0.0091 | 0.0002                  | 0.010           | Below MAC          | Pass       |
|                          | 17-Nov-15 | Copper    | mg/L  | 0.005  | 0.001                   | 1.0             | Below AO           | Pass       |
|                          | 17-Nov-15 | Lead      | mg/L  | 0.0009 | 0.0001                  | 0.01            | Below MAC          | Pass       |
|                          | 17-Nov-15 | Iron      | mg/L  | 0.010  | 0.005                   | 0.3             | Below AO           | Pass       |
|                          | 17-Nov-15 | Manganese | mg/L  | 0.138  | 0.001                   | 0.05            | Above AO           | Fail       |
| Well #7 Merklin Street   | 17-Nov-15 | Arsenic   | mg/L  | 0.0083 | 0.0002                  | 0.010           | Below MAC          | Pass       |
|                          | 17-Nov-15 | Copper    | mg/L  | <0.001 | 0.001                   | 1.0             | Below AO           | Pass       |
|                          | 17-Nov-15 | Lead      | mg/L  | 0.0004 | 0.0001                  | 0.01            | Below MAC          | Pass       |
|                          | 17-Nov-15 | Iron      | mg/L  | <0.005 | 0.005                   | 0.3             | Below AO           | Pass       |
|                          | 17-Nov-15 | Manganese | mg/L  | 0.109  | 0.001                   | 0.05            | Above AO           | Fail       |