



2012 Drinking Water Quality Annual Report

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2012 DRINKING WATER QUALITY ANNUAL REPORT

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EXECUTIVE SUMMARY

This report summarizes the District of West Vancouver's water quality program for 2012. Sampling has been carried out in accordance with the protocol developed with Metro Vancouver (formerly Greater Vancouver Regional District) and member municipalities; where objectives exist, monitoring results are compared to the *Guidelines for Canadian Drinking Water Quality*.

The District operates a system that treats and distributes potable water supplied from two local sources, namely Eagle Lake and Montizambert Creek and from purchased, bulk, treated water from Metro Vancouver (Capilano or Seymour sources). Detailed information regarding the Metro Vancouver supply can be found through direct contact with the regional district.

Raw water from both Eagle Lake and Montizambert Creek sources is analyzed for bacteriological, physical and chemical parameters. Bacteriological testing in 2012 revealed source waters to have very low presence of *Escherichia coli* (*E. coli*), giardia, and cryptosporidium.

Water distributed throughout the system was tested for bacteriological, physical and chemical parameters. Samples for total coliforms and *E. coli* were all negative. Tests showed turbidities of greater than 5 NTU in only 3 distribution samples for the year. Tests showed turbidity less than 1 NTU in 96.6 % of all distribution system samples. In locations where samples were above the guideline, water mains were flushed until turbidity dropped to an acceptable level. Chlorine residual tests for all samples tested above the recommended minimum level of 0.2 ppm with the exception of four which ranged between .04 ppm and .19 ppm. Testing for the disinfection by-products, trihalomethanes and haloacetic acids, indicated levels were above Canadian guidelines for trihalomethanes at one site for the first two quarters and at several sites for haloacetic acids from both the Eagle Lake and Montizambert distribution systems. Levels were within guideline limits for Metro Vancouver sites.

The cooperation and support of the staff of the Vancouver Coastal Health Authority is acknowledged in maintaining high quality drinking water in the municipality.

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1.0 INTRODUCTION

This report summarizes the District of West Vancouver's water quality program for 2012. The purpose is to detail the municipality's efforts in maintaining high quality, drinking water and to provide residents with the results of the sampling and analysis program.

Water suppliers in British Columbia are regulated by the Drinking Water Protection Act and the Drinking Water Protection Regulation. This *Drinking Water Quality Annual Report* is a requirement of the Vancouver Coastal Health Authority (VCHA) in order to receive annual operating permits and is reviewed by the Medical Health Officer (MHO) for the North Shore. As requested by the MHO, this report shall be made public by a prominent web site posting at <http://www.westvancouver.ca>.

The District's water quality program has been carried out in accordance with the document entitled, *Water Quality Monitoring and Reporting Plan for the GVRD and Member Municipalities, May 2000*, which was developed under the authority and direction of the Regional MHOs

2.0 GENERAL DESCRIPTION

The District of West Vancouver operates a water supply and distribution system consisting of a network of intakes, chlorination stations, reservoirs, pressure reducing valve (PRV) stations, pumps and pipes. The system is required to adequately receive, store, and transport potable water to all users in West Vancouver. Key facilities are connected by a telemetry system (SCADA) to a central computer, which monitors the system, identifies faults and sends alarms to key personnel 24 hours a day.

3.0 SOURCE WATER WATERSHEDS

3.1 General

The municipality obtains water from three sources:

- Eagle Lake;
- Montizambert Creek; and
- Bulk, treated water purchased from Metro Vancouver.

From Horseshoe Bay to the eastern municipal boundary, residents are serviced by a water distribution system that is fed by both Eagle Lake and Metro source waters. While the distribution area for each source varies seasonally, in general, Eagle Lake water is received below the Upper Levels Highway (ULH), west of the McKechnie Reservoir and above the ULH, east to the Chartwell neighbourhood. The municipality continues to expand the use of the Eagle Lake source whenever supplies permit in order to reduce the purchase of bulk water from Metro Vancouver. North of Horseshoe Bay at the northern municipal boundary, the Sunset

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Highlands neighbourhood is serviced by the Montizambert Creek source, with the exception of the “Seascapes” multi-family development, which utilizes private wells.

3.2 Eagle Lake Treatment Plant

Located above Cypress Falls Park, Eagle Lake source waters flow through intake screens (with an opening size of 0.54 mm) before entering the treatment plant by gravity. When the lake level is below the elevation of the intake screens, floating pumps are required to pump water from the lower lake levels to the treatment plant. This occurs occasionally, typically during the late summer months.

3.2.1 Operation

According to Sec 9 (1) of the Drinking Water Protection Act (DWPA), subject to regulations, a person must not operate, maintain or repair a prescribed water supply system unless:

- (a) the person is qualified in accordance with the regulations to do this, or
- (b) is doing this under the supervision of a person who is qualified in accordance with the regulations

Eagle Lake Treatment Plant is classified as a Level 3 facility in accordance with the Environmental Operators Certification Program (EOCP) and is currently operated by a certified level 3 operator. In 2012, one current distribution operator achieved Water Treatment EOCP Level 1 certification and will continue to work towards Level 3 certification. Due to the time required to gather sufficient experience, this will likely require an additional 3 years to achieve.

In January 2013, the District will be hiring a Level 2 certified operator to assist in the plant operations.

3.2.2 Eagle Lake Water Treatment Plant Bypass and Optimization

In the event of a plant failure, a written bypass procedure is in place. All EOCP certified staff are familiar with the details of the procedure. The details of these procedures have been provided separately in the Eagle Lake Water Treatment Plant Emergency Response and Contingency plan to VCHA. Should the plant be placed in bypass mode for any reason, disinfection rates and minimum allowable chlorine contact time will be maintained.

The Eagle Lake Treatment Plant was not bypassed during 2012.

With the completion of the infrastructure required to optimize the use of the Eagle Lake supply system in June, 2010, the District has increased the supply of Eagle Lake water to the distribution system during non peak periods. The District SCADA system is used to automatically monitor and prompt any required changes to the system based on plant conditions such as clearwell level and system demand.

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During extended periods when the plant operator is expected to be unavailable (i.e.: vacation), a procedure is in place to allow the plant to function under a reduced demand scenario with some areas which are typically supplied by Eagle Lake transferred to the Metro supply. Should the plant experience any operating difficulties which affect production, the SCADA system will automatically take over and a Metro supply will be introduced to the Eagle Lake distribution system.

Standby personnel monitor the Eagle Lake Water Treatment Plant operation 24/7 and VCH will be notified immediately should there be any changes to operational procedures.

3.3 Montizambert Treatment Plant

With the completion of the Montizambert Treatment Plant in September 2011, residents North of Horseshoe Bay are now supplied with filtered water similar to the quality currently delivered from the West Vancouver Eagle Lake Membrane Filtration Facility.

This water treatment plant employs state-of-the-art Pall Membrane filtration technology, which removes fine particles and micro organisms and is compliant with the 4-3-2-1 multi-barrier approach as specified in the Guidelines for Canadian Drinking Water Quality to ensure safe drinking water as mandated by the Health Authorities of British Columbia.

Since filtered water maintains chlorine residual much longer than conventionally treated water, the introduction of the treatment plant has also resulted in a reduction of maintenance hours previously required to flush the mains in order to maintain a minimum chlorine residual of 0.2ppm within the distribution system.

Since the Montizambert Treatment Plant is also classified as an EOCP Level 3 facility, a bypass procedure has been established in the event of a plant failure, and during extended periods when the plant operator is expected to be unavailable. The Treatment Plant operation is also monitored 24/7 and VCH will be notified immediately should there be any changes to the operational procedures.

3.4 Metro Vancouver

Bulk treated water purchased by the District from Metro Vancouver for servicing is supplied from the Seymour and Capilano sources. This water enters the municipality's distribution system at five locations:

- Marine Drive and Capilano Road;
- Capilano Road and Welch Street;
- Glenmore Reservoir;
- Capilano Road and Upper Levels Highway; and
- 3105 Capilano Road.

3.5 Challenges

Challenges to the quality and quantity of the source water include:

- maintaining a balance between public access for recreation (e.g., portion of the Baden Powell Trail above Eagle Lake) and security of the watershed for protection of drinking water quality;
- physical disturbances in watersheds such as soil erosion into creeks, which lead to turbidity spikes;
- vulnerability of open water sources to contamination from animal and human activity;
- maintaining creek flow supplementation for fish habitat during the summer, when Eagle Lake level is low; and
- low flow conditions in Montizambert Creek during drier summer months.

4.0 REGULATIONS AND STANDARDS FOR SOURCE WATER AND THE DISTRIBUTION SYSTEM

Both source waters and water within the distribution system are tested for microbiological, chemical and physical parameters. For the purposes of the municipality's own water quality sampling program, locations monitoring Metro water are treated as "distribution," not "source" sites; however, some Metro sample points have been located close to the entry points to the municipal distribution system.

The Drinking Water Protection Regulation (DWPR) requires 1 sample / 1000 residents on a monthly basis for cities with a population between 5000 and 90,000 residents. During 2012 the District of West Vancouver had approximately 45,000 residents, which equates to 540 samples required annually. The total number of samples collected for the District during 2012 was 596. Therefore, the current number of stations and samples provide the number of tests as required by the DWPR.

Further to the information outlined below, full details outlining the health based guidelines for water quality in Canada, established on behalf of the Federal-Provincial-Territorial Committee on Drinking Water, can be found on Health Canada's website.

4.1 Microbiological Parameters

Under the Guidelines for Canadian Drinking Water Quality (GCDWQ) the most vital guidelines are those dealing with microbiological contaminants. The District of West Vancouver follows the guidelines by taking the required samples at the regulated times.

Samples are taken monthly at the source for *Cryptosporidium* and *Giardia*. The treatment goal for these two parameters is a minimum of 3 log removal or inactivation. By taking a monthly source sample for *Cryptosporidium* and *Giardia* the treatment requirements of the water

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treatment plant can be regularly assessed and adjusted. *Escherichia coli* (*E. coli*) is sampled bi-weekly at the source and weekly throughout the distribution system. *E. coli* is an indicator of microbiological safety, the GCDWQ maximum allowable concentration is none detectable per 100 mL sample. Heterotrophic Plate Count (HPC) is tested bi-weekly at the source as well as weekly throughout the distribution system. Although it is naturally occurring and has no limits under the guideline, it is a good monitoring tool for general bacteriological water quality. Total Coliform is sampled bi-weekly at the source and weekly throughout the distribution system. Total coliform is not an indicator of bacteria at the source, therefore, there is no limit for the parameter. When sampled in the distribution system the GCDWQ states that no consecutive samples taken contain total coliform and that no more than 10% of samples taken contain total coliform. Total coliform detected in the distribution system could be an indication of regrowth of bacteria in distribution biofilms or intrusion of untreated water.

The analysis for *Giardia* and *Cryptosporidium* was conducted by IG MicroMed Environmental Inc. Analysis for Total Coliform, *E. coli* and HPC were conducted by Metro Vancouver.

4.2 Physical Parameters

4.2.1 Turbidity

Turbidity describes the amount of suspended solids in water. It is measured in nephelometric turbidity units (NTU). The presence of turbidity can have significant effects on both the microbiological quality of water and the detection of the bacteria and viruses. The target turbidity for treated water from the Eagle Lake and Montizambert Water Treatment Plants is less than 0.1 NTU with the intent not to exceed 0.3 NTU at any time. The Guidelines for Canadian Drinking Water Quality supporting documentation states that the turbidity should not exceed 5.0 NTU within the distribution system especially at the point of consumption for aesthetics.

4.2.2 Temperature

The aesthetic guideline for temperature is 15°C. Typically, the temperature of drinking water for both the source water and the distribution system rises during summer months. District staff appreciate that higher temperatures in the distribution system can affect chlorine residuals and can contribute to bacterial re-growth. Tests completed on a regular basis throughout the distribution system are used to ensure acceptable water quality.

4.2.3 Colour and Residue

Physical parameters of colour and residue are tested together with chemical parameters for Eagle Lake and Montizambert source water. With respect to colour, the GCDWQ specifies an aesthetic objective of 15 true colour units (TCU).

4.3 Chemical Parameters

Testing of source waters for chemical parameters, including bromate, bromide, chlorate, chloride and sodium is conducted semi-annually at both Eagle Lake and Montizambert Creek.

In the distribution system, chemical parameters tested include chlorine residual, trihalomethanes (THM), haloacetic acids (HAA), and pH. Chlorine residual is measured at all sampling sites when bacteriological samples are collected; additionally, secondary chlorination is also performed at several sites throughout the District complete with online chlorine analyzers for continuous monitoring.

4.3.1 Disinfection By-Products

THMs and HAAs are disinfection by-products resulting from the chlorination process. THMs are included in the GCDWQ with an interim maximum acceptable concentration (IMAC) of 100 parts per billion (ppb). HAAs are not regulated in Canada; however, consultation concluded in late 2010 suggesting a potential maximum level of 80 ppb.

4.3.2 pH

Acidity of water is measured by pH, and the aesthetic objective is a reading of 6.5 to 8.5. Both Eagle Lake and Montizambert sources tend toward the lower bound of 6.5. It is recognized that acidic water will accelerate the corrosion of metal pipes, often causing blue-green staining in household fixtures. To address possible leaching of lead and copper, residents have been advised to run taps for at least one minute each morning or any time water has been left standing in pipes for a long period of time. Both the Metro and District water treatment plants have included pH adjustment and corrosion control in their treatment processes.

4.3.3 Metals

The District's water quality sampling and monitoring program includes semi-annual testing at four locations within the distribution system for a variety of metals.

5.0 TESTING, SAMPLE ANALYSIS AND RESULTS

Microbiological testing was conducted at a total of 36 sampling sites, not including Eagle Lake and Montizambert Creek source locations, but including sites near the entry point of Metro Vancouver water into the municipal distribution system. The monitoring protocol dictates that 12-13 sites per week are sampled according to a breakdown as follows: 10% source water, 10% low flow/dead end locations, 40% medium flow locations, and 40% high flow locations. Table 1 outlines the District's water sampling and testing calendar.

Table 1 Water and Sampling and Testing Calendar

Water Type	Parameter	Frequency
Sources Eagle Lake Montizambert Creek	Microbiological, Turbidity, Temperature	Bi-weekly
	Giardia, Cryptosporidium	Monthly
	Chemical, physical list	Semi-annually
Distribution System	Microbiological, Turbidity, Temperature	Weekly (not at every site)
	HAA's, THM's, pH	Quarterly
	Metals	Semi-annually

5.1 Sample Analysis Results – Source Water

At Eagle Lake, 25 bi-weekly source water samples were tested. A very low presence of E.coli was detected; 18 samples showed a most probable number (MPN) of less than 1 per 100 mL and 2 samples indicated 1 MPN, 5 samples showed presence of E. coli ranging from 2 to 200 MPN/100mls. Testing for coliforms showed results ranging from ≤1 – 1200 MPN-/100mls in the raw, untreated source water.

At Montizambert Creek, the 27 bi-weekly samples tested for E.coli with 25 samples yielding results of less than 1 MPN and the remaining 2 samples showing 27 and 3 MPN/100ml. Coliform testing results ranged from less than 5 – 670 MPN/100mls prior to treatment.

Giardia and Cryptosporidium testing was conducted monthly for both source waters. For both Eagle Lake and Montizambert Creek source waters all samples tested for Giardia and Cryptosporidium had negative results with less than 1 species per 100 L with the exception of two samples at Montizambert Creek which were recorded at 2 and 3 species.

Source water chemistry testing was conducted at Eagle Lake and Montizambert on two occasions during 2012, source water chemistry testing results are shown in Appendix B along with a full range of other chemicals parameters which are not included in the guidelines but are still monitored by the District.

5.2 Sample Analysis Results – Distribution System

A map of the District's water system and list of District sample sites for the distribution system with locations can be found in Appendix A. While the naming convention includes a reference to the predominant water source, in fact for some locations depending on the hydraulic conditions, the site can be fed by either Eagle Lake or Metro Vancouver water.

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Distribution system samples for E.coli were all negative and in no instance were total coliforms detected. In the event of detection of total coliforms in a sample, the municipality's water quality personnel and the MHO would be notified via the Metro Labs; procedures would be followed as outlined in section 8.1 of this report.

In a few instances sites from all three distribution sources had HPC counts exceeding 500 CFU/100 mL; in no instance did a HPC exceedance correspond to the presence of E.coli. The high results are attributable to contamination of taps and/or hose bibs.

All samples within the Eagle Lake, Montizambert and Metro Vancouver testing results met the guideline of greater than 0.2 ppm chlorine residual. Turbidity results for the distribution system indicated 99.5% of all samples tested met the GCDWQ aesthetic objective of 5 NTU. In only three instances a turbidity level of greater than 5 NTU was detected; one from Metro, one from Eagle Lake and one from Montizambert. The District responded by alerting VCHA and the corresponding sections of main were flushed until a satisfactory result was obtained. Testing results in their entirety can be found in Appendix C of this report.

Table 2 Distribution System Microbiological and Physical Parameters (WVR Sites)

Location ID		Chlorine Residual (ppm)			Turbidity (NTU)			Temperature (°C)			HPC (CFU/ml)			Ecoli MPN/100mLs	Total Coliform MF/100mLs
GCDWQ Guideline		Not less than 0.2			Not more than 5			Not more than 15			No limit			None	None
Eagle Lake	No. Samples	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.		
WVR-710	10	0.32	0.57	0.82	0.08	0.60	2.90	6.0	12.4	17.0	6	47.80	180.0	None	None
WVR-716	26	0.11	0.37	0.56	0.06	0.18	0.48	6.0	11.5	22.0	<2	11.15	42.0	None	None
WVR-711	13	0.28	0.57	1.00	0.10	0.26	0.65	5	10.4	16	<2	8.46	32	None	None
WVR-712	13	0.21	0.31	0.46	0.08	0.23	0.38	6	10.4	15	<2	1252.00	>11000	None	None
WVR-718	12	0.42	0.58	0.85	0.09	0.27	0.84	7	11.4	16	<2	129.00	790	None	None
WVR-761	13	0.21	0.27	0.53	0.23	1.00	4.60	5	10.2	17	<2	2932.67	>11000	None	None
WVR-764	13	0.51	0.76	1.20	0.10	0.33	0.72	5	8.5	14	<2	2.00	<2	None	None
WVR-790	26	0.42	0.62	1.10	0.11	0.33	0.82	5	9.3	14	<2	2.64	10	None	None
WVR-791	13	0.46	0.79	1.20	0.09	0.27	0.81	5	9.4	14	<2	10.92	70	None	None
WVR-792	26	0.23	0.38	0.64	0.11	0.25	0.69	5	10.0	15	<2	1008.64	>11000	None	None
WVR-793	13	0.21	0.42	0.82	0.08	0.28	1.30	5	10.5	16	<2	4.92	22	None	None
WVR-794	13	0.27	0.45	0.78	0.11	0.26	0.50	5	10.4	16	<2	12.46	58	None	None
WVR-795	13	0.28	0.53	1.00	0.13	0.27	0.52	6	10.4	16	<2	20.46	170	None	None
WVR-796	26	0.54	0.82	1.20	0.09	0.27	0.72	5	10.2	16	<2	8.40	46	None	None
WVR-797	13	0.20	0.61	0.95	0.10	1.87	20.00	5	9.6	15	<2	5.45	34	None	None

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Table 3 Distribution System Microbiological and Physical Parameters (WEAG and WMZ Sites)

Location ID	Chlorine Residual (ppm)			Turbidity (NTU)			Temperature (°C)			HPC (CFU/ml)			Ecoli MPN/100mLs	Total Coliform MF/100mLs	
GCDWQ Guideline	Not less than 0.2			Not more than 5			Not more than 15			No limit			None	None	
	No. Samples	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.		
WEAG-719	26	0.27	0.60	1.00	0.06	0.12	0.31	5	10.5	17	<2	2.32	6.0	None	None
WEAG-765	14	0.21	0.48	0.85	0.08	0.13	0.33	6	11.4	22	<2	14.00	94.0	None	None
WEAG-768	13	0.28	0.56	1.10	0.07	0.17	0.42	5	10.5	17	<2	2.50	4.0	None	None
WEAG-769	12	0.30	0.57	0.89	0.10	0.17	0.55	6	11.7	17	<2	11.67	50.0	None	None
WEAG-770	26	0.33	0.71	1.20	0.08	0.17	0.36	5	11.0	23	<2	16.08	270.0	None	None
WEAG-771	26	0.19	0.53	0.87	0.06	0.19	0.50	6	11.5	18	<2	24.38	180.0	None	None
WEAG-772	26	0.43	0.73	1.00	0.09	0.31	2.00	5	10.8	20	<2	2.72	14.0	None	None
WEAG-774	26	0.47	0.72	1.10	0.06	0.14	0.38	5	11.2	21	<2	5.00	14.0	None	None
WEAG-776	12	0.08	0.46	0.79	0.07	0.27	1.10	6	11.6	18	<2	17.83	84.0	None	None
WEAG-778	26	0.40	0.79	1.10	0.09	0.17	0.54	5	10.8	20	<2	2.38	8.0	None	None
WEAG-779	13	0.22	0.56	1.10	0.07	0.18	0.48	6	10.7	17	<2	4.15	16.0	None	None
WEAG-780	14	0.40	0.59	0.82	0.07	0.14	0.25	6	11.0	23	<2	4.43	22	None	None
WEAG-783	12	0.37	0.63	0.82	0.06	0.13	0.28	5	10.5	18	<2	16.33	40	None	None
WEAG-784	14	0.29	0.53	0.94	0.09	0.18	0.38	5	11.1	22	<2	6.57	44	None	None
WEAG-785	14	0.20	0.48	0.64	0.08	0.95	7.00	6	10.8	21	<2	824.86	>11000	None	None
WEAG-786	13	0.30	0.73	1.10	0.14	0.37	1.20	5	9.5	14	<2	8.83	34	None	None
WEAG-787	13	0.32	0.71	1.20	0.11	0.47	1.20	5	9.9	15	<2	15.00	48	None	None
WEAG-788	13	0.30	0.84	2.20	0.09	0.20	0.37	5	9.8	14	<2	2.50	8	None	None
WEAG-880	14	0.25	0.44	0.97	0.10	0.23	0.49	6	11.2	22	<2	50.57	640	None	None
WMZ-781	12	0.04	0.44	0.86	0.08	0.14	0.20	5	10.6	18	<2	130.00	1000	None	None
WMZ-782	14	0.23	0.45	0.75	0.16	1.02	6.00	6	10.7	17	<2	1099.00	>11000	None	None

Testing for metals within the distribution system are summarized in Appendix C, all metals within the metals scan were well within GCDWQ limits.

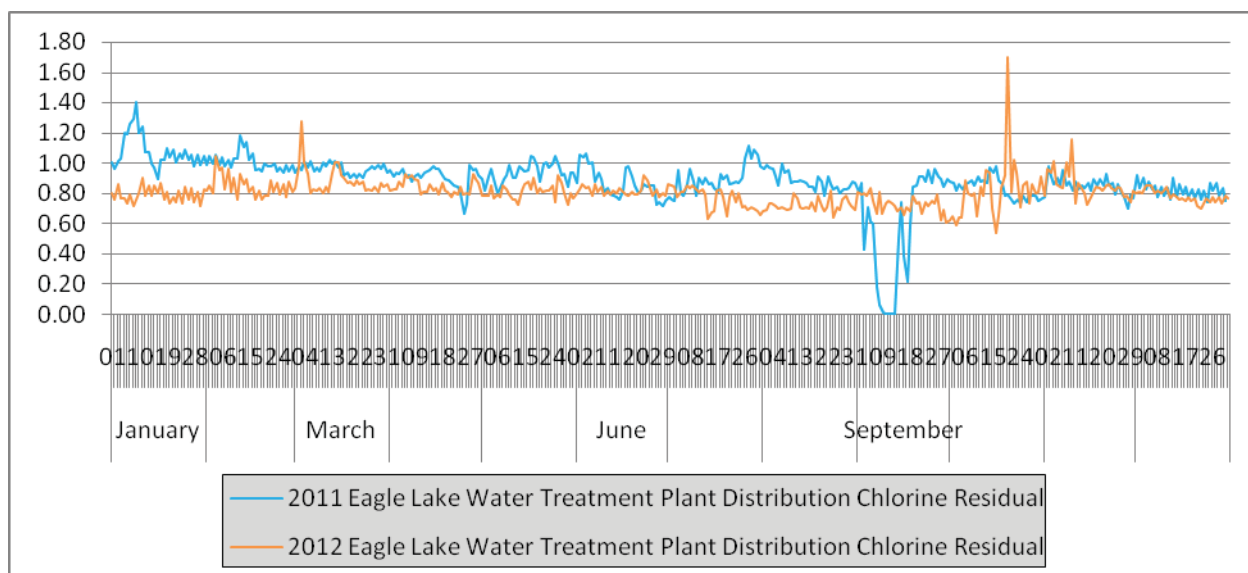
Disinfection by-products are monitored on a quarterly basis at a total of 10 sites covering service areas receiving Eagle Lake, Montizambert Creek and Metro Vancouver water. As both THMs and HAAs represent groups of compounds, the test result is a quarterly average of the total THMs or HAAs. Quarterly averages for THMs only exceeded the guideline level for one location (Whytecliff Park) for the first two quarters; all subsequent samples for that location were below the guideline. All other THM samples taken throughout West Vancouver were below the guideline. HAA's were slightly over the IMAC at various locations for both

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Montizambert and Eagle Lake in the first two quarters, all subsequent samples were below the guideline throughout the rest of West Vancouver's distribution system. Quarterly averages were met for both parameters at sites within the Metro Vancouver source water distribution systems.

Disinfection by-products levels are directly related to chlorine dosage rates. Lowering chlorine dosage rates will result in a decrease in disinfection by-product levels. With the implementation of the filtration systems at Eagle Lake and Montizambert Treatment plants, the amount of chlorine required to establish the required 0.2 PPM chlorine residual in the distribution system has decreased as compared to non-filtered water.

The District continued to lower chlorine dosage rates where and when possible. Data compiled and trended shows that as a direct result of lowering the chlorine dosage, an average decrease in chlorine residuals of approximately 10% was achieved within the distribution system as illustrated by the chart below.



Testing results for the Disinfection Byproducts are fully detailed in Appendix C.

6.0 PUBLIC NOTIFICATION

6.1 Drinking Water Advisory/Boil Water Advisory

2012 was relatively free of significant turbidity events, with the exception of three minor elevated levels of turbidity, one each from the Eagle Lake, Montizambert and Metro Vancouver supplies. Metro Vancouver took its Capilano source off line on several occasions, leaving the Seymour source in operation. The regional health officers did not issue any boil water advisories.

6.2 General Drinking Water Quality Advisory

No General Drinking Water Advisories were issued in 2012.

7.0 OPERATOR QUALIFICATIONS AND TRAINING

Further to the *Drinking Water Protection Act*, the Drinking Water Protection Regulation (DWPR) came into effect May 16, 2003. The regulation includes classification of distribution and treatment systems and qualification standards for persons operating these systems through the Environmental Operators Certification Program (EOCP).

The Districts water distribution system is classified as Level 4. However, the legislation is silent on the target deadline for minimum certification requirements for District staff operating, maintaining, or repairing the water system. Nevertheless, the District has been working in cooperation with the Health Authority and EOCP towards having operators certified to Level 4. Treatment plants are assessed separately, as mentioned in sections 3.2.1 and 3.3; both the Eagle Lake and Montizambert Treatment Plants are classified as Level 3 facilities.

7.1 Operator Qualifications

The municipality has a staff of four waterworks distribution operators and one supervisor. There are three classification levels for utility workers: basic, semi-skilled, and skilled. The District's EOCP Level 4 distribution system classification requirements have been incorporated into the Utility Worker job classification specifications. The District has EOCP Level 1 and 3 water treatment plant operators who manage the Eagle Lake and Montizambert Treatment Plants.

All staff are encouraged to take courses, which will enable them to advance to higher EOCP class levels.

In 2012, the District staff maintained the following certification levels:

Water distribution:

- Level 4 – one
- Level 3 – two
- Level 2 – two

Water treatment:

- Level 3 - one
- Level 1 - one

8.0 EMERGENCY RESPONSE PLANS

8.1 E. coli Positive Response

If a sample analyzed by Metro Labs is tested positive for E. coli, the following response plan will occur.

1. The municipality's water quality personnel and the MHO will be notified via the Metro laboratory.
2. Results of interim samples, if any, from the site will be examined. (Interim samples are any samples that may have been taken from the site in the period between when the E. coli positive sample was taken and when it was determined to be E. coli positive.)
3. Arrangements will be made for the immediate collection of repeat sample (including, where possible, samples from upstream and downstream of the E. coli positive sample location).
4. Water treatment personnel will be contacted to determine if an interruption of source water disinfection had occurred in the period before the E. coli positive sample was taken.
5. The chlorine residual for the sample noted on the sampler's Water Sample Data Sheet will be reviewed to determine if a localized loss of disinfectant residual has occurred.
6. All water utility personnel will be contacted to determine if there has been any loss of pressure or other unusual events that may have led to contaminants entering the water system.
7. The need for a boil water advisory will be evaluated and if deemed necessary, the municipality will carry out various means to inform the public. Metro and the MHO will be informed of this public advisory.
8. At the same time, an effort will be made to contact the MHO to coordinate the need for and extent of the boil water advisory.
9. Metro Labs will initiate procedures necessary for the identification of E. coli with standard biochemical tests.
10. The MHO will be contacted by the municipality with the repeat sample results and the results of the species identification on the E. coli positive sample when these tests are complete.

8.2 Chemical or Biological Contamination Response

In the event of chemical or biological contamination, in either the source waters (Eagle Lake, Montizambert Creek) or the distribution system, the MHO will be immediately notified. The chemical will be identified and any public health risk factors associated with the chemical presence in the potable water will be determined. Steps will be taken to isolate the contaminated zone area and the level of contamination will be determined through water testing and sampling. Through consultation with the MHO, a public advisory will be communicated. All steps to ensure public health and safety including, if necessary, banning of water usage will be undertaken.

8.3 Turbidity Response

In general, turbidity has not been known to be a persistent problem in the District's water supply (see Section 4.2.1), although on occasion, elevated levels can be experienced. Water quality has improved greatly with the introduction of the Eagle Lake and Montizambert Membrane Filtration Facilities, which produce treated water with turbidity of less than 0.1 NTU.

During periods of elevated turbidity, representatives from Metro Vancouver, the Health Authorities, and local municipalities will review communications protocols. Meanwhile, the District continues to follow an existing turbidity response plan, which was developed in cooperation with the VCHA. Given access to municipal sources, the protocol takes into consideration the District's responsibility for due diligence without unreasonably constraining the water utility's ability to operate the system during an elevated turbidity event. The approach also seeks to balance the need to maintain chlorine dosage while minimizing disinfection by-products.

The following actions will be taken regarding turbidity in distribution and source waters.

1. The District will conduct regular sampling of Eagle Lake and Montizambert sources to monitor turbidity.
2. The District will take into consideration the effectiveness of increased chlorine dosage, the chlorine contact time, the source of turbidity, and the quality of the Metro Vancouver supply in its response to minimizing the amount of turbidity entering the water system.
3. A turbidity level of >1 NTU in the distribution system will be the trigger for municipal operational actions.
4. During turbidity events >1 NTU, the level of primary chlorination at Eagle Lake and Montizambert sources and at any secondary chlorination points will be increased accordingly.
5. During turbidity events of >5 NTU, a rigorous sampling program for microbiological activity throughout the distribution system will be conducted.
6. During turbidity events of >5 NTU, a public communication may be issued in consultation with the Health Authority.
7. During turbidity events >2 NTU and <3 NTU, the District will consider switching to the Metro Vancouver supply, depending on the turbidity of that supply.
8. During turbidity events >3 NTU, the District will switch to the Metro Vancouver supply, if possible, should the turbidity of that supply be <1 NTU.
9. Two consecutive days of turbidity <1 NTU shall pass before lowering chlorine dosage to pre-event levels.

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10. During turbidity events of >5 NTU and while the Eagle Lake treatment plant is in bypass mode, the District may issue a boil water advisory in conjunction with the MHO to residents receiving such water.
11. After a turbidity event of >5 NTU, two consecutive days of turbidity <1 NTU shall pass before rescinding the water quality advisory.

8.4 Response to Interruption of Secondary Disinfection

The District's SCADA system constantly monitors the secondary chlorination stations. This system automatically alerts utility personnel of any disinfection failures, all of which are reported to the MHO. Utility personnel immediately carry out repairs to equipment and if necessary, manual disinfection is established. Chlorine residual samples are to be taken at various points in the distribution system to ensure adequate free chlorine residual is present. In cases where chlorine residual is less than 0.2 ppm or not present, municipal crews will flush the affected area until an acceptable level is achieved.

Upon notification by Metro Vancouver Operations that an interruption in disinfection has occurred, the municipality will immediately commence monitoring of chlorine residual at strategic locations in the Metro Vancouver supply area. The monitoring will continue until disinfection is resumed and adequate levels have been reached in the distribution system.

9.0 CONCLUSIONS

Overall, the residents of West Vancouver enjoy very high quality drinking water. Given the protected nature of the Eagle Lake and Montizambert Creek watersheds, very low levels of E. coli, giardia, and cryptosporidium exist in the raw source waters.

District staff continues to take a balanced approach and employ best management practices in the operation and maintenance of the water system to maintain high water quality.

In 2012 the District's distribution system and source water supply met the requirements as outlined in the GCDWQ with the following exceptions:

1. THM quarterly averages exceeded the guideline levels for one sites first two quarterly samples taken within Eagle Lake.

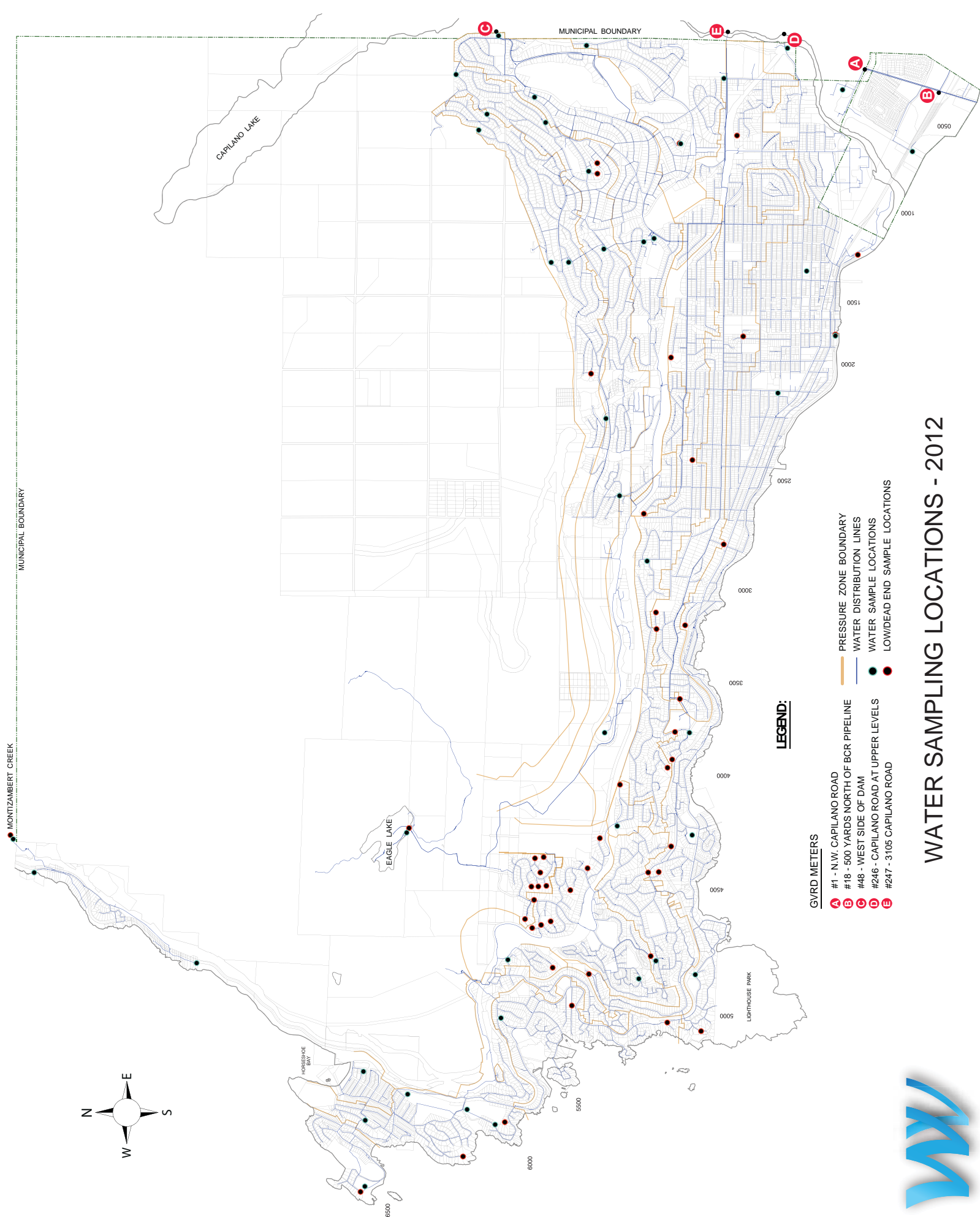
2. HAA quarterly averages exceeded the guideline level for samples taken at sites within the Eagle Lake and Montizambert Creek source water distribution systems.

In closing, it is noted that the District appreciates the good working relationship with public health staff and acknowledges the Health Authority as a partner in maintaining high quality drinking water in the municipality.

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APPENDIX A

1. Map of water system sampling locations (PC Docs #613444)
2. Location addresses for water sampling (PC Docs #613444)



GVRD METERS

- A** #1 - N.W. CAPILANO ROAD
- B** #18 - 500 YARDS NORTH OF BCR PIPELINE
- C** #48 - WEST SIDE OF DAM
- D** #246 - CAPILANO ROAD AT UPPER LEVELS
- E** #247 - 3105 CAPILANO ROAD

LEGEND:

- PRESSURE ZONE BOUNDARY
- WATER DISTRIBUTION LINES
- WATER SAMPLE LOCATIONS
- LOW/DEAD END SAMPLE LOCATIONS

WATER SAMPLING LOCATIONS - 2012



DISTRICT OF WEST VANCOUVER					
WATER SAMPLE LOCATIONS (2012)					
Supply Source	Address	Description	Flow Type	Sample #	Bottle #
METRO VANCOUVER	1020 Groveland Road	Sample Kiosk	High	DmWVR-711	G711
Require 12 samples	510 Ballantree Road	House	Medium	DmWVR-712	G712
Bi-weekly	670 Holmbury Place (DBP Sample Only)	House	Low/Dead End	DmWVR-713	G713
	The Dale & Marine	Sample Kiosk	High	DmWVR-716	G716
No Source on this system	111 - 18th Street (DBP Sample Only)	Hydrant	Low/Dead End	DmWVR-717	G717
	885 - 22nd Street	Church	High	DmWVR-718	G718
	2600 Chelsea Court	Pump House	Medium	DmWVR-719	G719
	243 Rabbit Lane	Sample Kiosk	Low/Dead End	DmWVR-761	G761
	111 Bridge Road	Sample Kiosk	Medium	DmWVR-764	G764
	5459 West Vista Court	Sample Kiosk	Low/Dead End	DmWVR-765	G765
	2185 Gisby Street	Sample Kiosk	Medium	DmWVR-768	G768
	1210 Chartwell Drive	Sample Kiosk	High	DmWVR-769	G769
	3828 Bayridge Avenue	Sample Kiosk	High	DmWVR-770	G770
	6252 Bruce Street	House	Medium	DmWVR-771	G771
	6470 Madrona Crescent	Reservoir	Medium	DmWVR-772	G772
	Whytcliffe Park (DBP Sample Only)	Utility Room	Low/Dead End	DmWVR-773	G773
	6117 Glen Eagles Drive	House	High	DmWVR-774	G774
	3755 Cypress Bowl Road	Sample Kiosk	Medium	DmWVR-776	G776
	6190 Marine Drive	Sample Kiosk	Medium	DmWVR-778	G778
	1370 Burnside Road	Pump House	High	DmWVR-779	G779
	5634 Westhaven Road	Sample Kiosk	Medium	DmWVR-780	G780
	4520 Almond Place	PRV Station	Medium	DmWVR-783	G783
	5759 Primrose Place	Sample Kiosk	Medium	DmWVR-784	G784
	4820 Headland Drive	Hydrant	High	DmWVR-785	G785
	1158 Millstream Road	Sample Kiosk	High	DmWVR-786	G786
	2711 Willoughby Road	Sample Kiosk	High	DmWVR-787	G787
	1551 Vinson Creek Road	Reservoir	High	DmWVR-788	G788
	19 Glenmore Drive	Pump House	High	DmWVR-790	G790
	200 Keith Road	Klee Wyck Nursery	High	DmWVR-791	G791
	76 Bonnymuir Drive	Pump House	Medium	DmWVR-792	G792
	559 Kildonan Road	Sample Kiosk	Low/Dead End	DmWVR-793	G793
	702 Barnham Road	Sample Kiosk	Medium	DmWVR-794	G794
	620 Kenwood Road	Sample Kiosk	Medium	DmWVR-795	G795
	315 Mathers Avenue	House	High	DmWVR-796	G796
	395 Klahanie Court	Apartment Complex	Medium	DmWVR-797	G797
	965 Cross Creek Road	Reservoir	High	DmWVR-880	G880
Eagle Lake	1020 Groveland Road	Sample Kiosk	High	DmWEAG-711	E711
	510 Ballantree Road	House	Medium	DmWEAG-712	E712
Require 12/13 samples	670 Holmbury Place (DBP Sample Only)	House	Low/Dead End	DmWEAG-713	E713
Bi - Weekly	The Dale & Marine	Sample Kiosk	High	DmWEAG-716	E716
	2600 Chelsea Court	Pump House	Medium	DmWEAG-719	E719
	243 Rabbit Lane	Sample Kiosk	Low/Dead End	DmWEAG-761	E761
	5459 West Vista Court	Sample Kiosk	Low	DmWEAG-765	E765
	2185 Gisby Street	Sample Kiosk	Medium	DmWEAG-768	E768
	4782 Woodgreen Drive	House	High	DmWEAG-710	E710
	1210 Chartwell Drive	Sample Kiosk	High	DmWEAG-769	E769
	3828 Bayridge Avenue	Sample Kiosk	High	DmWEAG-770	E770
	6352 Bruce Street	House	Medium	DmWEAG-771	E771
	6470 Madrona Crescent	Reservoir	Medium	DmWEAG-772	E772
	Whytcliffe Park (DBP Sample Only)	Utility Room	Low/Dead End	DmWEAG-773	E773
	6117 Gleneagles Drive	House	High	DmWEAG-774	E774
	3755 Cypress Bowl Road	Sample Kiosk	Medium	DmWEAG-776	E776
	6190 Marine Drive	Sample Kiosk	Medium	DmWEAG-778	E778
	1370 Burnside Road	Pump House	High	DmWEAG-779	E779
	5634 Westhaven Road	Sample Kiosk	Medium	DmWEAG-780	E780
	4520 Almond Place	PRV Station	Medium	DmWEAG-783	E783
	5759 Primrose Place	Sample Kiosk	Medium	DmWEAG-784	E784
	4820 Headland Drive	Hydrant	High	DmWEAG-785	E785
	1158 Millstream Road	Sample Kiosk	High	DmWEAG-786	E786
	2711 Willoughby Road	Sample Kiosk	High	DmWEAG-787	E787
	1551 Vinson Creek Road	Reservoir	High	DmWEAG-788	E788
	19 Glenmore Drive	Pump House	High	DmWEAG-790	E790
	76 Bonnymuir Drive	Pump House	Medium	DmWEAG-792	E792
	559 Kildonan Road	Sample Kiosk	Low/Dead End	DmWEAG-793	E793
	702 Barnham Road	Sample Kiosk	Medium	DmWEAG-794	E794
	620 Kenwood Road	Sample Kiosk	Medium	DmWEAG-795	E795
	315 Mathers Avenue	House	High	DmWEAG-796	E796
	965 Cross Creek Road	Reservoir	High	DmWEAG-880	E880
2 Source per Month	Eagle Lake ***	Source	Source	DmWEAG-LK1	E-LK1
Montzambert Creek	8005 Pasco Road	Sample Kiosk	Dead End	DmWMTZ-781	MZ-781
2 Samples per Month	8995 Lawrence Way	Sample Kiosk	Dead End	DmWMTZ-782	MZ-782
2 Source per Month	Montzambert Creek ***	Source	Source	DmWMZ-CK1	MZ-CK1
Metals Analysis					
Semi - annual	8995 Lawrence Way	Marina - Hose Bib		DmWMZ-782	MZ-782
	Gleneagles Elementary School	Internal Faucet		DmWEAG/WVR-789	E/G-789
	Cypress Park Elementary School	Internal Faucet		DmWEAG/WVR-798	E/G-798
	Hollyburn Elementary School	Internal Faucet		DmWVR-799	G-799
Sample locations may deviate slightly if sampling point is not accessible.					
*** Denotes site sampled semi-annually for detailed analysis.					
Flow % Determination	Source 10%	Low/Dead End 10%	Medium 40%	High 40%	
Sample Site numbers available to DWV: 711 - 719, 761 - 799 & 880 - 899					

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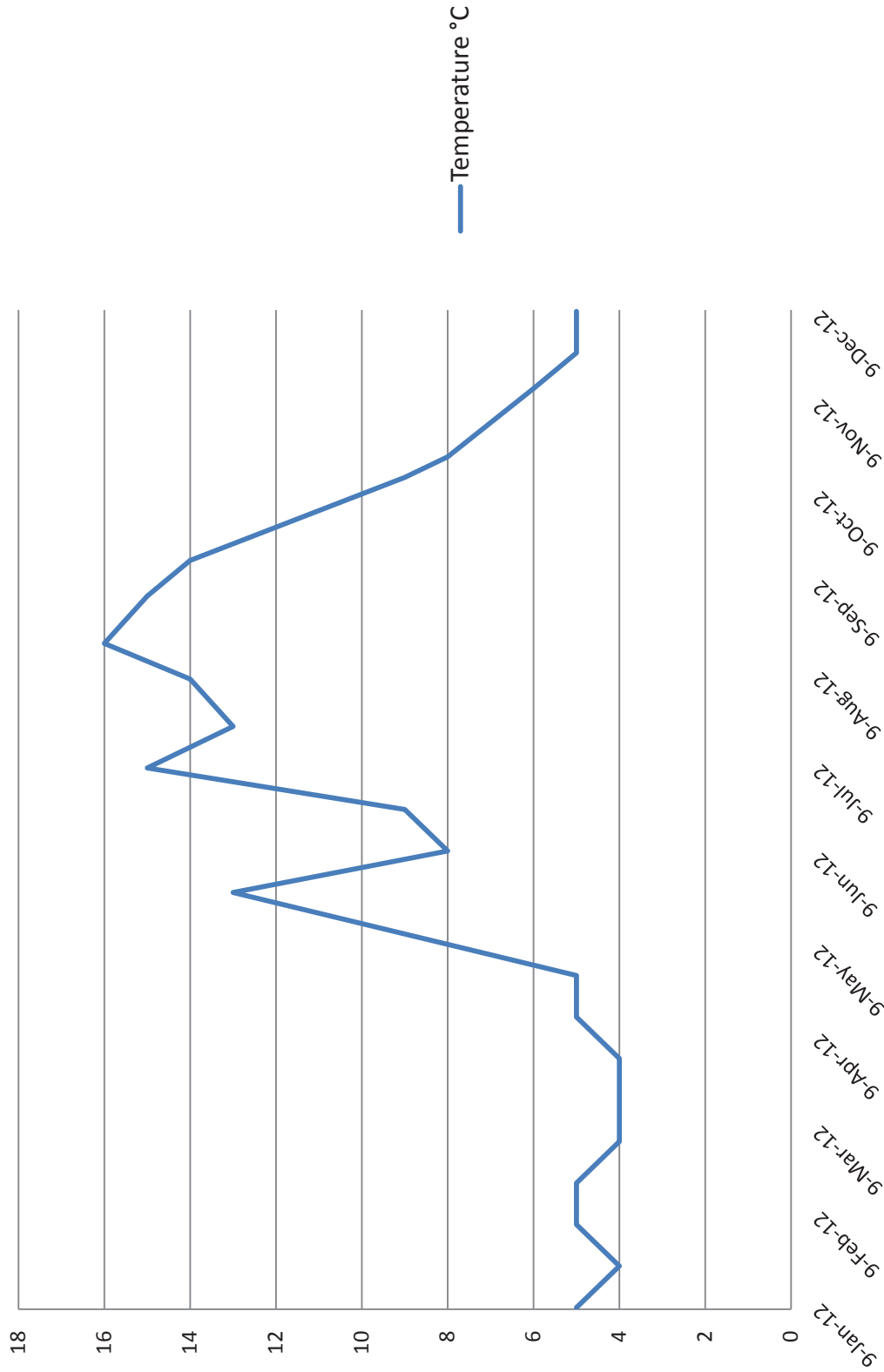
APPENDIX B

1. Source Water Quality – Eagle Lake (PC Docs #613444)
2. Source Water Quality – Montizambert Creek (PC Docs #613444)
3. Source Water Chemistry (PC Docs #613444)

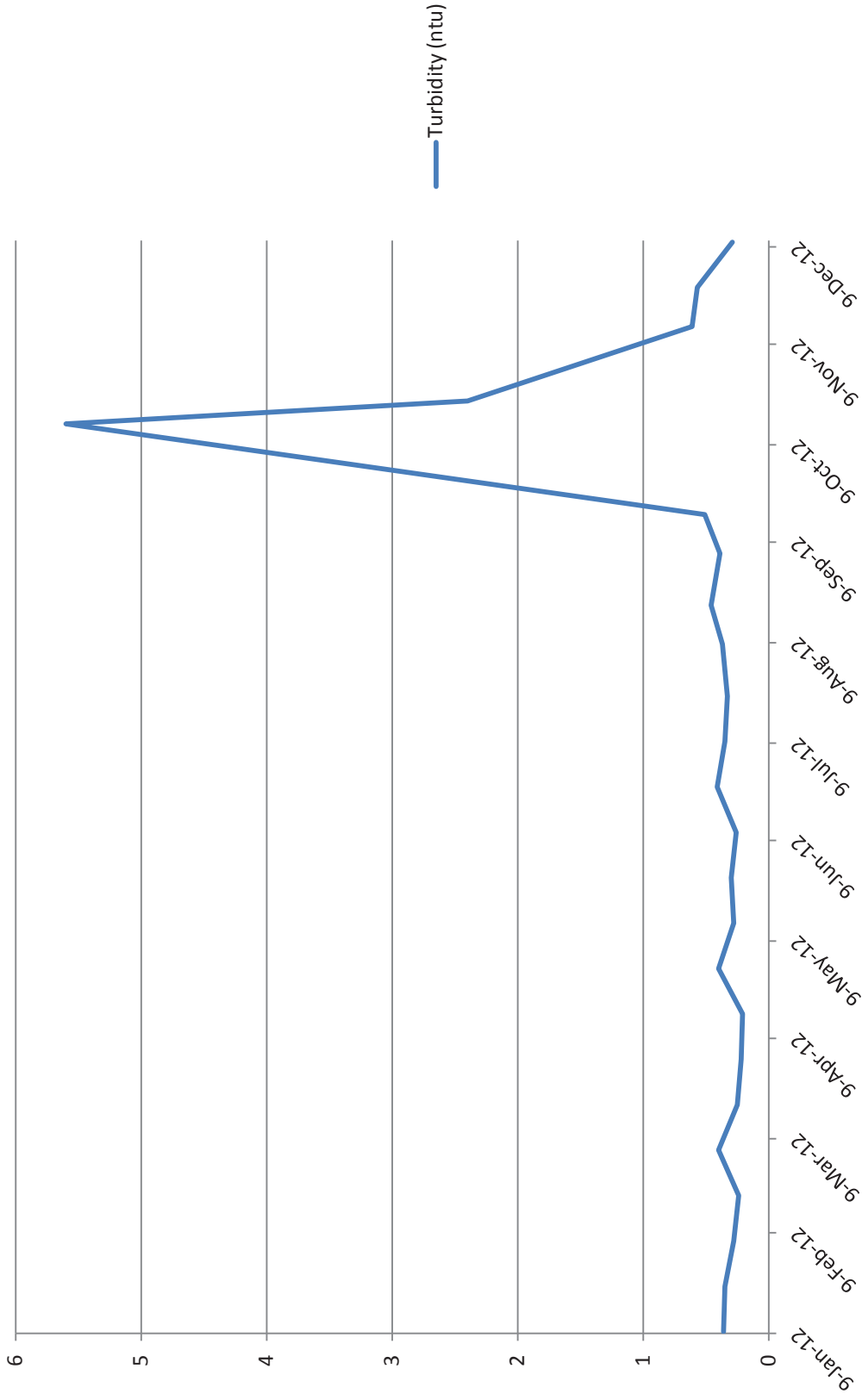
Eagle Lake Source Water Bacteriological Sample Results

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Turbidity NTU	Temperature °C	Total Coliform MPN/100mLs	E. coli MPN/100 mLs	HPC CFU/mls
WEAG-LK1	GRAB	Eagle Lake Source	9-Jan-12	0.36	5	33	<1	290
WEAG-LK1	GRAB	Eagle Lake Source	23-Jan-12	0.35	4	14	1	280
WEAG-LK1	GRAB	Eagle Lake Source	6-Feb-12	0.28	5	18	<1	110
WEAG-LK1	GRAB	Eagle Lake Source	20-Feb-12	0.24	5	12	<1	160
WEAG-LK1	GRAB	Eagle Lake Source	5-Mar-12	0.4	4	<1	<1	190
WEAG-LK1	GRAB	Eagle Lake Source	19-Mar-12	0.25	4	12	<1	140
WEAG-LK1	GRAB	Eagle Lake Source	2-Apr-12	0.22	4	24	2	150
WEAG-LK1	GRAB	Eagle Lake Source	16-Apr-12	0.21	5	110	<1	130
WEAG-LK1	GRAB	Eagle Lake Source	30-Apr-12	0.4	5	50	1	210
WEAG-LK1	GRAB	Eagle Lake Source	14-May-12	0.28	9	54	<1	260
WEAG-LK1	GRAB	Eagle Lake Source	28-May-12	0.3	13	90	<1	290
WEAG-LK1	GRAB	Eagle Lake Source	11-Jun-12	0.26	8	290	<1	260
WEAG-LK1	GRAB	Eagle Lake Source	25-Jun-12	0.41	9	160	2	280
WEAG-LK1	GRAB	Eagle Lake Source	9-Jul-12	0.35	15	120	<1	240
WEAG-LK1	GRAB	Eagle Lake Source	23-Jul-12	0.33	13	130	4	270
WEAG-LK1	GRAB	Eagle Lake Source	8-Aug-12	0.37	14	85	<1	340
WEAG-LK1	GRAB	Eagle Lake Source	20-Aug-12	0.46	16	55	<1	340
WEAG-LK1	GRAB	Eagle Lake Source	5-Sep-12	0.39	15	90	<1	150
WEAG-LK1	GRAB	Eagle Lake Source	17-Sep-12	0.51	14	51	<1	84
WEAG-LK1	GRAB	Eagle Lake Source	15-Oct-12	5.6	9	1200	200	990
WEAG-LK1	GRAB	Eagle Lake Source	22-Oct-12	2.4	8	400	34	620
WEAG-LK1	GRAB	Eagle Lake Source	14-Nov-12	0.61	6	59	<1	160
WEAG-LK1	GRAB	Eagle Lake Source	26-Nov-12	0.57	5	58	<1	190
WEAG-LK1	GRAB	Eagle Lake Source	10-Dec-12	0.29	5	59	<1	220

Eagle Lake Source Water Temperature °C

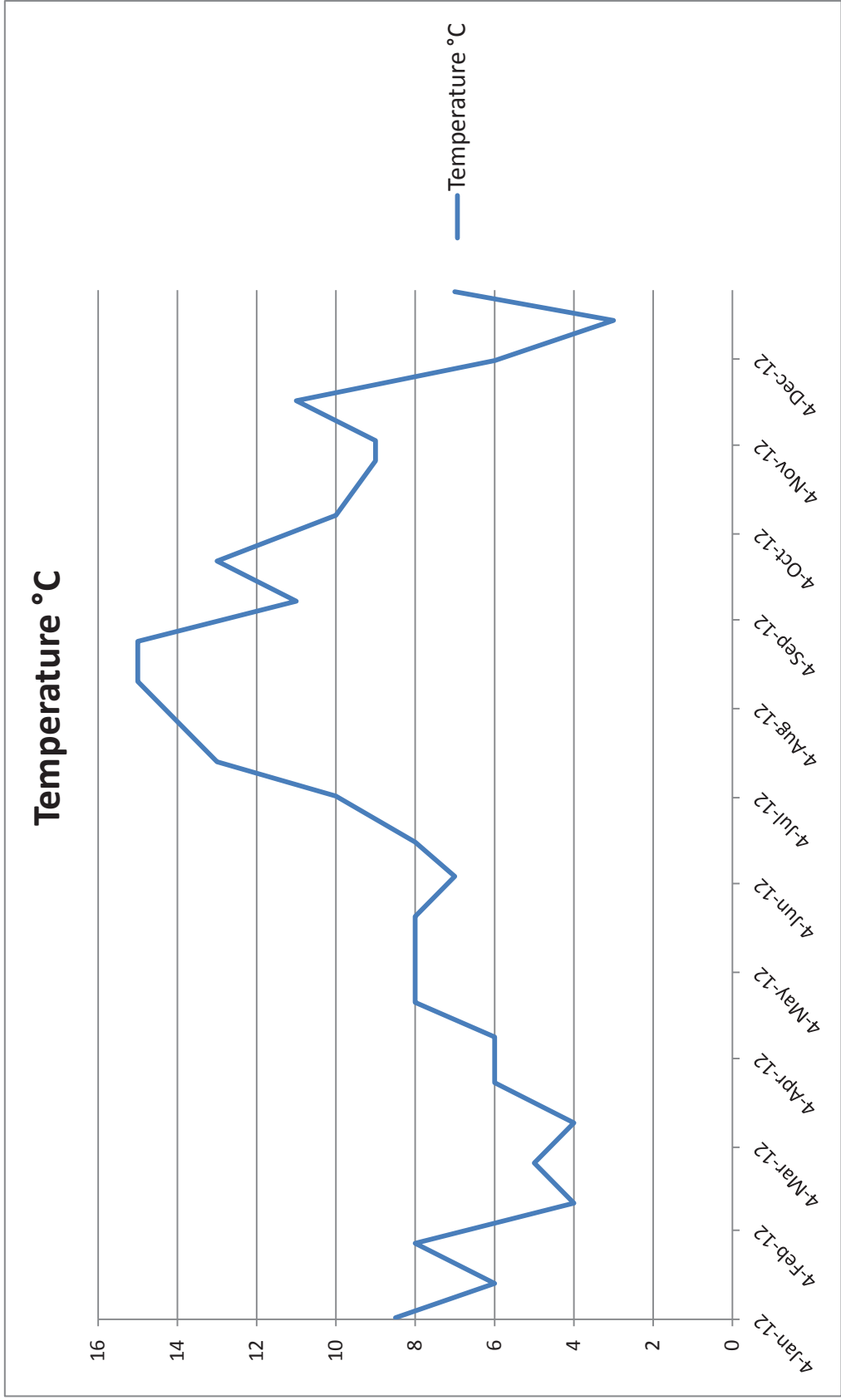


Eagle Lake Source Water Turbidity (ntu)

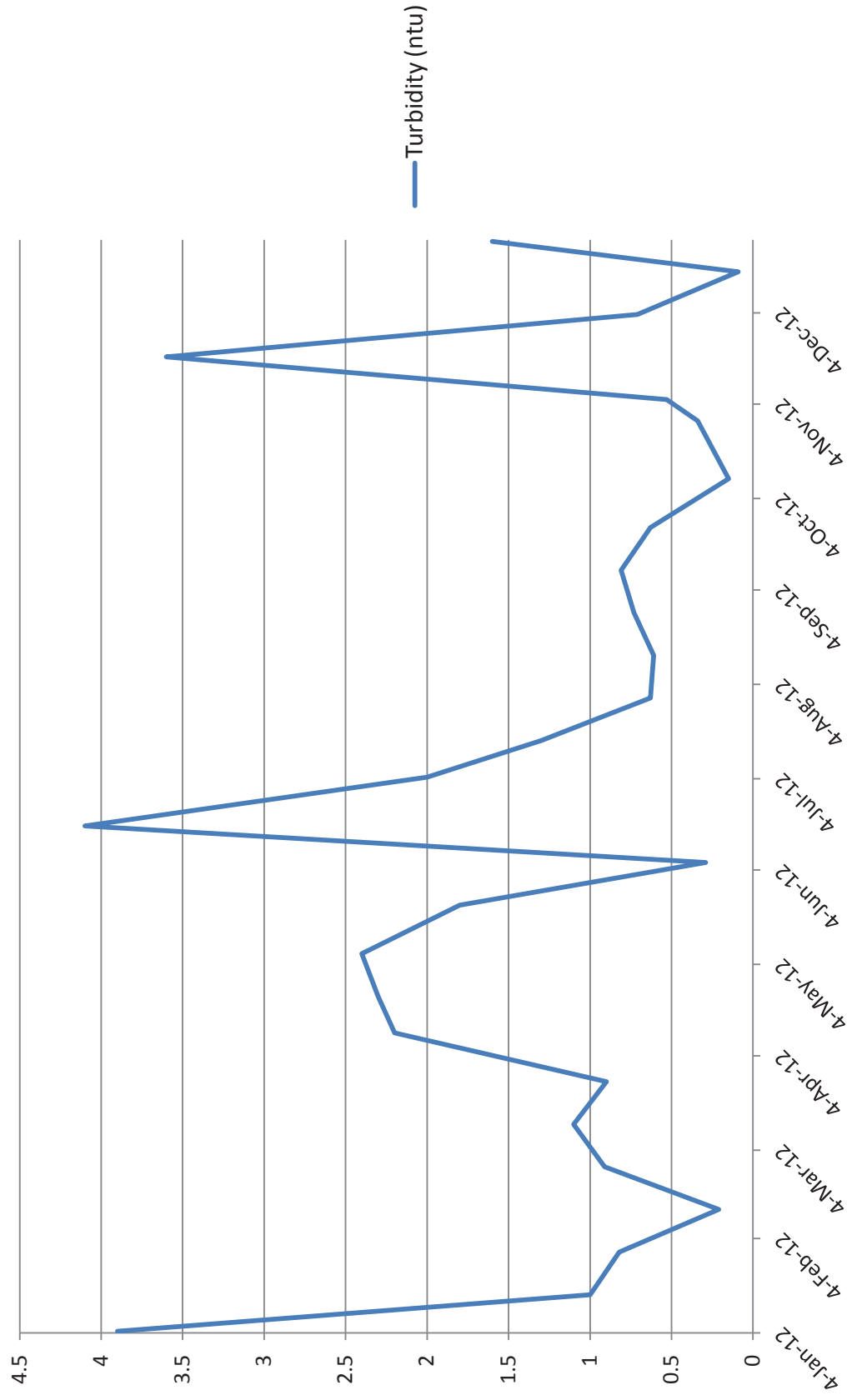


Montizambert Creek Source Water Bacteriological Results

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Turbidity NTU	Temperature °C	Total Coliform MPN/100mLs	E. coli MPN/100 mLs	HPC CFU/mLs
WMZ-CK1	GRAB	Montizambert Creek Source Water	4-Jan-12	3.9	8.5	40	3	930
WMZ-CK1	GRAB	Montizambert Creek Source Water	16-Jan-12	1	6	6	<1	88
WMZ-CK1	GRAB	Montizambert Creek Source Water	30-Jan-12	0.82	8	12	<1	230
WMZ-CK1	GRAB	Montizambert Creek Source Water	13-Feb-12	0.21	4	47	27	150
WMZ-CK1	GRAB	Montizambert Creek Source Water	27-Feb-12	0.91	5	5	<1	420
WMZ-CK1	GRAB	Montizambert Creek Source Water	12-Mar-12	1.1	4	10	<1	460
WMZ-CK1	GRAB	Montizambert Creek Source Water	26-Mar-12	0.9	6	18	<1	620
WMZ-CK1	GRAB	Montizambert Creek Source Water	11-Apr-12	2.2	6	26	<1	130
WMZ-CK1	GRAB	Montizambert Creek Source Water	23-Apr-12	2.3	8	15	<1	190
WMZ-CK1	GRAB	Montizambert Creek Source Water	7-May-12	2.4	8	11	<1	430
WMZ-CK1	GRAB	Montizambert Creek Source Water	23-May-12	1.8	8	14	<1	1000
WMZ-CK1	GRAB	Montizambert Creek Source Water	6-Jun-12	0.29	7	56	1	470
WMZ-CK1	GRAB	Montizambert Creek Source Water	18-Jun-12	4.1	8	29	1	480
WMZ-CK1	GRAB	Montizambert Creek Source Water	4-Jul-12	2	10	26	<1	160
WMZ-CK1	GRAB	Montizambert Creek Source Water	16-Jul-12	1.3	13	24	<1	>11000
WMZ-CK1	GRAB	Montizambert Creek Source Water	30-Jul-12	0.63	14	59	<1	180
WMZ-CK1	GRAB	Montizambert Creek Source Water	13-Aug-12	0.61	15	76	<1	240
WMZ-CK1	GRAB	Montizambert Creek Source Water	27-Aug-12	0.73	15	83	<1	360
WMZ-CK1	GRAB	Montizambert Creek Source Water	10-Sep-12	0.81	11	670	<1	1200
WMZ-CK1	GRAB	Montizambert Creek Source Water	24-Sep-12	0.63	13	100	1	340
WMZ-CK1	GRAB	Montizambert Creek Source Water	10-Oct-12	0.15	10	280	<1	230
WMZ-CK1	GRAB	Montizambert Creek Source Water	29-Oct-12	0.34	9	140	<1	540
WMZ-CK1	GRAB	Montizambert Creek Source Water	5-Nov-12	0.53	9	70	1	530
WMZ-CK1	GRAB	Montizambert Creek Source Water	19-Nov-12	3.6	11	47	<1	1400
WMZ-CK1	GRAB	Montizambert Creek Source Water	3-Dec-12	0.71	6	23	<1	260
WMZ-CK1	GRAB	Montizambert Creek Source Water	17-Dec-12	0.09	3	20	<1	190
WMZ-CK1	GRAB	Montizambert Creek Source Water	27-Dec-12	1.6	7	16	<1	NA



Montizambert Source Water Turbidity (ntu)



Source Water Chemistry

Sample Location	Sample Type	Sampled date	Alkalinity as CaCO ₃ mg/L	Aluminum Dissolved mg/L	Aluminum Total mg/L	Antimony Total mg/L	Arsenic Total mg/L	Barium Total mg/L	Boron Total mg/L	Cadmium Total mg/L	Calcium Total mg/L	Carbon Organic - Dissolved mg/L	Carbon Organic - Total mg/L	Chloride mg/L	Chromium Total mg/L	Color - Apparent ACU	Color - True TCU	Conductivity µmhos/cm	Copper Total mg/L	Cyanide Total mg/L	Fluoride mg/L	Hardness as CaCO ₃ mg/L	Iron Dissolved mg/L	Iron Total mg/L	Lead Total mg/L	Magnesium Total mg/L	Manganese Dissolved mg/L	Manganese Total mg/L	Mercury Total µg/L	Nickel Total mg/L	Nitrogen - Ammonia as N mg/L	Nitrogen - Nitrate as N mg/L	Nitrogen - Nitrite as N mg/L	pH pH units	Phenol mg/L	Phosphorus Dissolved Reactive mg/L	Phosphorus Total mg/L	Potassium Total mg/L	Residue Total Dissolved mg/L	Residue Total Fixed mg/L	Residue Total Volatile mg/L	Selenium Total mg/L	Silica as SiO ₂ mg/L	Silver Total mg/L	Sodium Total mg/L	Sulphate mg/L	UV Absorbance 254 nm Abs/cm	Zinc Total mg/L		
Health Canada Health Based and Aesthetic Guidelines																																																		
Apple Lake Source	GRAB	4-Jun-12	2,000	0.087		<0.0005	<0.0005	0.003	<0.01	<0.0002	1.0	1.9	1.95	0.9	0.00005	15	13	11	0.0014	<0.02	<0.05	3.26	0.029	0.0380	<0.0005	0.178	0.0053	0.007	<0.00005	<0.0005	<0.01	<0.02	<0.01	<0.01	6.2	<0.005	<0.0005	0.089	14	10	15	5	<0.0005	3.1	<0.0005	0.906	1.1	0.080	<0.003	
Apple Lake Source	GRAB	3-Dec-12	1,800	0.086		<0.0005	<0.0005	0.003	<0.01	<0.0002	1.2	2.5	2.48	1.0	<0.00005	17	15	13	0.0012	<0.02	<0.05	3.77	0.024	0.0680	<0.0005	0.189	0.0060	0.0084	<0.00005	<0.0005	<0.02	0.050	<0.01	6.3	<0.005	<0.0005	0.098	18	10	18	8	<0.0005	4.1	<0.0005	1.030	1.7	0.094	<0.003		
Montzambert Creek Source	Grnb	19-Apr-12		0.110																																														
Montzambert Creek Source	GRAB	4-Jun-12	1,600	0.175		<0.0005	<0.0005	0.002	<0.01	<0.0002	1.1	3.1	3.10	0.5	0.00012	25	23	9	0.0009	<0.02	<0.05	3.23	0.036	0.0420	<0.0005	0.143	<0.0005	0.0009	<0.00005	<0.0005	<0.02	0.030	<0.01	6.4	<0.005	<0.0005	0.079	15	9	17	7	<0.0005	3.3	<0.0005	0.615	1.2	0.141	<0.003		
Montzambert Creek Source	GRAB	3-Dec-12	1,800	0.147		<0.0005	<0.0005	0.0016	<0.01	<0.0002	1.2	3.2	3.24	0.7	0.00008	24	22	11	0.0008	<0.02	<0.05	3.39	0.023	0.038	<0.0005	0.160	0.001	0.0015	<0.00005	<0.0005	<0.02	0.020	<0.01	6.3	<0.005	<0.0005	0.092	16	9	18	9	<0.0005	3.8	<0.0005	0.717	1.2	0.136	<0.003		

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APPENDIX C

1. By-station Municipal Drinking Water Summary Report – 2012 (PC Docs #613444)
2. Semi Annual Metals Monitoring Results – 2012 (PC Docs #613444)
3. Disinfection byproducts Quarterly Averages – 2012 (PC Docs #613444)

METRO VANCOUVER BYSTATION WATER SUMMARY REPORT - 2012

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-710	GRAB	4782 Woodgreen Drive	11-Apr-12	0.82	0.52	6	<1		<1		26
WEAG-710	GRAB	4782 Woodgreen Drive	7-May-12	0.66	0.21	11	<1		<1		6
WEAG-710	GRAB	4782 Woodgreen Drive	6-Jun-12	0.74	0.41	14	<1		<1		20
WEAG-710	GRAB	4782 Woodgreen Drive	4-Jul-12	0.62	0.43	15	<1		<1		16
WEAG-710	GRAB	4782 Woodgreen Drive	30-Jul-12	0.35	0.29	15	<1		<1		110
WEAG-710	GRAB	4782 Woodgreen Drive	27-Aug-12	0.32	0.21	17	<1		<1		8
WEAG-710	GRAB	4782 Woodgreen Drive	24-Sep-12	0.7	2.9	14	<1		<1		28
WEAG-710	GRAB	4782 Woodgreen Drive	29-Oct-12	0.49	0.87	10	[CG (Confluent Growth) - Invalid; compromised by too much bacterial growth.] CG	[CG (Confluent Growth) - Invalid; compromised by too much bacterial growth.] CG	[CG (Confluent Growth) - Invalid; compromised by too much bacterial growth.] CG		180
WEAG-710	GRAB	4782 Woodgreen Drive	31-Oct-12	0.62	0.08	11	<1		<1		76
WEAG-710	GRAB	4782 Woodgreen Drive	3-Dec-12	0.39	0.09	11	<1		<1		8
WEAG-716	GRAB	The Dale & Marine	4-Jan-12	0.36	0.14	8	<1		<1		18
WEAG-716	GRAB	The Dale & Marine	16-Jan-12	0.46	0.17	7	<1		<1		20
WEAG-716	GRAB	The Dale & Marine	30-Jan-12	0.35	0.06	8	<1		<1		14
WEAG-716	GRAB	The Dale & Marine	13-Feb-12	0.38	0.11	7	<1		<1		<2
WEAG-716	GRAB	The Dale & Marine	27-Feb-12	0.34	0.11	6	<1		<1		42
WEAG-716	GRAB	The Dale & Marine	12-Mar-12	0.38	0.23	7	<1		<1		2
WEAG-716	GRAB	The Dale & Marine	26-Mar-12	0.52	0.1	6	<1		<1		<2
WEAG-716	GRAB	The Dale & Marine	11-Apr-12	0.46	0.11	9	<1		<1		<2
WEAG-716	GRAB	The Dale & Marine	23-Apr-12	0.25	0.18	10	<1		<1		4
WEAG-716	GRAB	The Dale & Marine	7-May-12	0.52	0.12	11	<1		<1		2
WEAG-716	GRAB	The Dale & Marine	23-May-12	0.43	0.25	12	<1		<1		4
WEAG-716	GRAB	The Dale & Marine	6-Jun-12	0.56	0.18	14	<1		<1		2
WEAG-716	GRAB	The Dale & Marine	18-Jun-12	0.54	0.16	14	<1		<1		4
WEAG-716	GRAB	The Dale & Marine	4-Jul-12	0.43	0.13	14	<1		<1		4

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-716	GRAB	The Dale & Marine	16-Jul-12	0.34	0.12	17	<1		<1		18
WEAG-716	GRAB	The Dale & Marine	30-Jul-12	0.21	0.21	15	<1		<1		2
WEAG-716	GRAB	The Dale & Marine	13-Aug-12	0.27	0.48	22	<1		<1		6
WEAG-716	GRAB	The Dale & Marine	27-Aug-12	0.25	0.37	18	<1		<1		4
WEAG-716	GRAB	The Dale & Marine	10-Sep-12	0.21	0.25	15	<1		<1		<2
WEAG-716	GRAB	The Dale & Marine	24-Sep-12	0.34	0.09	15	<1		<1		4
WEAG-716	GRAB	The Dale & Marine	10-Oct-12	0.31	0.28	13	<1		<1		24
WEAG-716	GRAB	The Dale & Marine	29-Oct-12	0.32	0.19	12	<1		<1		16
WEAG-716	GRAB	The Dale & Marine	5-Nov-12	0.54	0.17	12	<1		<1		28
WEAG-716	GRAB	The Dale & Marine	19-Nov-12	0.38	0.14	10	<1		<1		22
WEAG-716	GRAB	The Dale & Marine	3-Dec-12	0.11	0.12	10	<1		<1		14
WEAG-716	GRAB	The Dale & Marine	17-Dec-12	0.3	0.09	8	<1		<1		28
WEAG-719	GRAB	2600 Chelsea Court	9-Jan-12	0.47	0.07	7	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	23-Jan-12	0.62	0.26	6	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	6-Feb-12	0.61	0.09	7	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	20-Feb-12	0.41	0.07	7	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	5-Mar-12	0.63	0.1	5	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	19-Mar-12	0.39	0.08	5	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	2-Apr-12	0.44	0.08	6	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	16-Apr-12	0.72	0.08	7	<1		<1		2
WEAG-719	GRAB	2600 Chelsea Court	30-Apr-12	0.72	0.08	11	<1		<1		2
WEAG-719	GRAB	2600 Chelsea Court	14-May-12	0.61	0.08	11	<1		<1		4
WEAG-719	GRAB	2600 Chelsea Court	28-May-12	1	0.09	13	<1		<1		2
WEAG-719	GRAB	2600 Chelsea Court	11-Jun-12	0.76	0.15	13	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	25-Jun-12	0.75	0.08	14	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	9-Jul-12	0.72	0.09	16	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	23-Jul-12	0.6	0.08	17	<1		<1		6
WEAG-719	GRAB	2600 Chelsea Court	8-Aug-12	0.5	0.1	12	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	20-Aug-12	0.51	0.12	15	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-719	GRAB	2600 Chelsea Court	5-Sep-12	0.52	0.08	16	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	17-Sep-12	0.81	0.31	14	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	1-Oct-12	0.95	0.3	14	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	15-Oct-12	0.68	0.13	13	<1		<1		<2
WEAG-719	GRAB	2600 Chelsea Court	22-Oct-12	0.42	0.17	11	<1		<1		2
WEAG-719	GRAB	2600 Chelsea Court	14-Nov-12	0.27	0.06	9	<1		<1		4
WEAG-719	GRAB	2600 Chelsea Court	26-Nov-12	0.54	0.07	9	<1		<1		2
WEAG-719	GRAB	2600 Chelsea Court	10-Dec-12	0.47	<0.06	8	<1		<1		2
WEAG-719	GRAB	2600 Chelsea Court	27-Dec-12	0.48	<0.06	8	<1		<1		NA
WEAG-765	GRAB	5459 West Vista Court	4-Jan-12	0.47	0.11	7	<1		<1		4
WEAG-765	GRAB	5459 West Vista Court	30-Jan-12	0.53	<0.06	8	<1		<1		94
WEAG-765	GRAB	5459 West Vista Court	27-Feb-12	0.66	0.1	7	<1		<1		2
WEAG-765	GRAB	5459 West Vista Court	26-Mar-12	0.58	0.09	6	<1		<1		<2
WEAG-765	GRAB	5459 West Vista Court	23-Apr-12	0.32	0.1	10	<1		<1		<2
WEAG-765	GRAB	5459 West Vista Court	23-May-12	0.39	0.11	12	<1		<1		30
WEAG-765	GRAB	5459 West Vista Court	18-Jun-12	0.58	0.12	14	<1		<1		6
WEAG-765	GRAB	5459 West Vista Court	16-Jul-12	0.58	0.09	17	<1		<1		22
WEAG-765	GRAB	5459 West Vista Court	13-Aug-12	0.28	0.08	22	<1		<1		<2
WEAG-765	GRAB	5459 West Vista Court	10-Sep-12	0.21	0.18	15	<1		<1		8
WEAG-765	GRAB	5459 West Vista Court	10-Oct-12	0.53	0.15	13	<1		<1		4
WEAG-765	GRAB	5459 West Vista Court	5-Nov-12	0.46	0.09	11	<1		<1		6
WEAG-765	GRAB	5459 West Vista Court	19-Nov-12	0.31	0.33	10	<1		<1		12
WEAG-765	GRAB	5459 West Vista Court	17-Dec-12	0.85	0.08	7	<1		<1		2
WEAG-768	GRAB	2185 Gisby Street	23-Jan-12	0.28	0.28	5	<1		<1		4
WEAG-768	GRAB	2185 Gisby Street	20-Feb-12	0.45	0.08	7	<1		<1		2
WEAG-768	GRAB	2185 Gisby Street	19-Mar-12	0.56	0.08	5	<1		<1		<2
WEAG-768	GRAB	2185 Gisby Street	16-Apr-12	0.61	0.1	7	<1		<1		4
WEAG-768	GRAB	2185 Gisby Street	14-May-12	0.44	0.07	13	<1		<1		<2
WEAG-768	GRAB	2185 Gisby Street	11-Jun-12	0.6	0.1	13	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-768	GRAB	2185 Gisby Street	9-Jul-12	1.1	0.11	17	<1		<1		<2
WEAG-768	GRAB	2185 Gisby Street	8-Aug-12	0.38	0.29	12	<1		<1		<2
WEAG-768	GRAB	2185 Gisby Street	5-Sep-12	0.54	0.29	15	<1		<1		<2
WEAG-768	GRAB	2185 Gisby Street	1-Oct-12	0.92	0.42	15	<1		<1		2
WEAG-768	GRAB	2185 Gisby Street	22-Oct-12	0.45	0.14	11	<1		<1		4
WEAG-768	GRAB	2185 Gisby Street	26-Nov-12	0.59	<0.06	7	<1		<1		<2
WEAG-768	GRAB	2185 Gisby Street	27-Dec-12	0.35	0.08	9	<1		<1		NA
WEAG-769	GRAB	1210 Chartwell Drive	16-Jan-12	0.81	0.12	7	<1		<1		50
WEAG-769	GRAB	1210 Chartwell Drive	13-Feb-12	0.66	0.15	8	<1		<1		34
WEAG-769	GRAB	1210 Chartwell Drive	12-Mar-12	0.51	0.1	6	<1		<1		<2
WEAG-769	GRAB	1210 Chartwell Drive	11-Apr-12	0.58	0.11	9	<1		<1		14
WEAG-769	GRAB	1210 Chartwell Drive	7-May-12	0.57	0.12	11	<1		<1		8
WEAG-769	GRAB	1210 Chartwell Drive	6-Jun-12	0.64	0.13	14	<1		<1		2
WEAG-769	GRAB	1210 Chartwell Drive	4-Jul-12	0.66	0.13	14	<1		<1		2
WEAG-769	GRAB	1210 Chartwell Drive	30-Jul-12	0.4	0.11	15	<1		<1		4
WEAG-769	GRAB	1210 Chartwell Drive	27-Aug-12	0.3	0.17	17	<1		<1		8
WEAG-769	GRAB	1210 Chartwell Drive	24-Sep-12	0.89	0.55	15	<1		<1		4
WEAG-769	GRAB	1210 Chartwell Drive	29-Oct-12	0.48	0.22	14	<1		<1		2
WEAG-769	GRAB	1210 Chartwell Drive	3-Dec-12	0.34	0.12	10	<1		<1		10
WEAG-770	GRAB	3828 Bayridge Avenue	4-Jan-12	0.98	0.23	7	<1		<1		4
WEAG-770	GRAB	3828 Bayridge Avenue	16-Jan-12	0.67	0.2	6	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	30-Jan-12	1	0.08	8	<1		<1		6
WEAG-770	GRAB	3828 Bayridge Avenue	13-Feb-12	0.9	0.22	7	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	27-Feb-12	0.82	0.12	7	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	12-Mar-12	0.51	0.15	6	<1		<1		2
WEAG-770	GRAB	3828 Bayridge Avenue	26-Mar-12	0.88	0.17	5	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	11-Apr-12	0.68	0.12	9	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	23-Apr-12	0.71	0.15	9	<1		<1		2
WEAG-770	GRAB	3828 Bayridge Avenue	7-May-12	0.79	0.13	10	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-770	GRAB	3828 Bayridge Avenue	23-May-12	0.63	0.08	12	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	6-Jun-12	0.68	0.16	13	<1		<1		6
WEAG-770	GRAB	3828 Bayridge Avenue	18-Jun-12	0.7	0.15	13	<1		<1		2
WEAG-770	GRAB	3828 Bayridge Avenue	4-Jul-12	0.72	0.13	14	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	16-Jul-12	0.37	0.12	17	<1		<1		6
WEAG-770	GRAB	3828 Bayridge Avenue	30-Jul-12	0.4	0.1	15	<1		<1		270
WEAG-770	GRAB	3828 Bayridge Avenue	13-Aug-12	0.38	0.3	23	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	27-Aug-12	0.62	0.24	17	<1		<1		2
WEAG-770	GRAB	3828 Bayridge Avenue	10-Sep-12	0.63	0.18	15	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	24-Sep-12	0.84	0.36	14	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	10-Oct-12	0.71	0.18	12	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	29-Oct-12	1.2	0.2	12	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	5-Nov-12	1	0.27	11	<1		<1		2
WEAG-770	GRAB	3828 Bayridge Avenue	19-Nov-12	0.45	0.3	9	<1		<1		86
WEAG-770	GRAB	3828 Bayridge Avenue	3-Dec-12	0.86	0.09	9	<1		<1		<2
WEAG-770	GRAB	3828 Bayridge Avenue	17-Dec-12	0.33	0.09	7	<1		<1		<2
WEAG-771	GRAB	6588 Royal Ave.	4-Jan-12	0.87	0.11	9	<1		<1		8
WEAG-771	GRAB	6588 Royal Ave.	16-Jan-12	0.72	0.12	9	<1		<1		52
WEAG-771	GRAB	6588 Royal Ave.	30-Jan-12	0.74	0.06	8	<1		<1		<2
WEAG-771	GRAB	6588 Royal Ave.	13-Feb-12	0.52	0.11	8	<1		<1		2
WEAG-771	GRAB	6588 Royal Ave.	27-Feb-12	0.64	0.22	6	<1		<1		12
WEAG-771	GRAB	6588 Royal Ave.	12-Mar-12	0.45	0.23	6	<1		<1		<2
WEAG-771	GRAB	6588 Royal Ave.	26-Mar-12	0.8	0.17	6	<1		<1		2
WEAG-771	GRAB	6588 Royal Ave.	11-Apr-12	0.64	0.5	9	<1		<1		36
WEAG-771	GRAB	6588 Royal Ave.	23-Apr-12	0.41	0.48	10	<1		<1		54
WEAG-771	GRAB	6588 Royal Ave.	7-May-12	0.47	0.17	12	<1		<1		10
WEAG-771	GRAB	6588 Royal Ave.	23-May-12	0.48	0.21	13	<1		<1		16
WEAG-771	GRAB	6588 Royal Ave.	6-Jun-12	0.48	0.16	14	<1		<1		<2
WEAG-771	GRAB	6588 Royal Ave.	18-Jun-12	0.61	0.26	14	<1		<1		12

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-771	GRAB	6588 Royal Ave.	4-Jul-12	0.44	0.24	14	<1		<1		24
WEAG-771	GRAB	6588 Royal Ave.	16-Jul-12	0.51	0.11	18	<1		<1		6
WEAG-771	GRAB	6588 Royal Ave.	30-Jul-12	0.45	0.14	12	<1		<1		180
WEAG-771	GRAB	6588 Royal Ave.	13-Aug-12	0.25	0.15	18	<1		<1		42
WEAG-771	GRAB	6588 Royal Ave.	27-Aug-12	0.27	0.22	18	<1		<1		46
WEAG-771	GRAB	6588 Royal Ave.	10-Sep-12	0.49	0.09	14	<1		<1		4
WEAG-771	GRAB	6588 Royal Ave.	24-Sep-12	0.74	0.1	14	<1		<1		2
WEAG-771	GRAB	6588 Royal Ave.	10-Oct-12	0.32	0.31	14	<1		<1		6
WEAG-771	GRAB	6588 Royal Ave.	29-Oct-12	0.55	0.29	13	<1		<1		2
WEAG-771	GRAB	6588 Royal Ave.	5-Nov-12	0.5	0.16	12	<1		<1		16
WEAG-771	GRAB	6588 Royal Ave.	19-Nov-12	0.36	0.11	10	<1		<1		10
WEAG-771	GRAB	6588 Royal Ave.	3-Dec-12	0.19	0.07	10	<1		<1		60
WEAG-771	GRAB	6588 Royal Ave.	17-Dec-12	0.81	0.07	8	<1		<1		26
WEAG-772	GRAB	6470 Madrona Crescent	4-Jan-12	1	0.55	7	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	16-Jan-12	0.89	2	5	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	30-Jan-12	0.79	0.1	8	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	13-Feb-12	0.43	0.14	7	<1		<1		4
WEAG-772	GRAB	6470 Madrona Crescent	27-Feb-12	0.89	0.15	7	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	12-Mar-12	0.72	0.19	5	<1		<1		2
WEAG-772	GRAB	6470 Madrona Crescent	26-Mar-12	0.98	0.09	6	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	11-Apr-12	0.76	0.17	8	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	23-Apr-12	0.44	0.14	9	<1		<1		2
WEAG-772	GRAB	6470 Madrona Crescent	7-May-12	0.71	0.17	11	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	23-May-12	0.65	1.1	12	<1		<1		14
WEAG-772	GRAB	6470 Madrona Crescent	6-Jun-12	0.63	0.14	13	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	18-Jun-12	0.89	0.22	13	<1		<1		4
WEAG-772	GRAB	6470 Madrona Crescent	4-Jul-12	0.67	0.69	13	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	16-Jul-12	0.56	0.24	17	<1		<1		4
WEAG-772	GRAB	6470 Madrona Crescent	30-Jul-12	0.65	0.18	13	<1		<1		2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-772	GRAB	6470 Madrona Crescent	13-Aug-12	0.75	0.11	20	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	27-Aug-12	0.98	0.12	17	<1		<1		2
WEAG-772	GRAB	6470 Madrona Crescent	10-Sep-12	0.69	0.15	14	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	24-Sep-12	1	0.11	14	<1		<1		2
WEAG-772	GRAB	6470 Madrona Crescent	10-Oct-12	0.59	0.27	12	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	29-Oct-12	0.73	0.12	12	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	5-Nov-12	0.59	0.17	12	<1		<1		<2
WEAG-772	GRAB	6470 Madrona Crescent	19-Nov-12	0.58	0.11	9	<1		<1		[Missing plate] LA
WEAG-772	GRAB	6470 Madrona Crescent	3-Dec-12	0.67	0.1	9	<1		<1		2
WEAG-772	GRAB	6470 Madrona Crescent	17-Dec-12	0.82	0.47	7	<1		<1		<2
WEAG-774	GRAB	6117 Gleneagles Drive	4-Jan-12	1.1	0.14	7	<1		<1		2
WEAG-774	GRAB	6117 Gleneagles Drive	16-Jan-12	0.92	0.18	6	<1		<1		6
WEAG-774	GRAB	6117 Gleneagles Drive	30-Jan-12	0.84	<0.06	8	<1		<1		<2
WEAG-774	GRAB	6117 Gleneagles Drive	13-Feb-12	0.61	0.15	7	<1		<1		6
WEAG-774	GRAB	6117 Gleneagles Drive	27-Feb-12	0.72	0.18	6	<1		<1		2
WEAG-774	GRAB	6117 Gleneagles Drive	12-Mar-12	0.69	0.12	6	<1		<1		12
WEAG-774	GRAB	6117 Gleneagles Drive	26-Mar-12	0.92	0.1	5	<1		<1		4
WEAG-774	GRAB	6117 Gleneagles Drive	11-Apr-12	0.72	0.14	9	<1		<1		14
WEAG-774	GRAB	6117 Gleneagles Drive	23-Apr-12	0.56	0.19	9	<1		<1		10
WEAG-774	GRAB	6117 Gleneagles Drive	7-May-12	0.53	0.09	11	<1		<1		12
WEAG-774	GRAB	6117 Gleneagles Drive	23-May-12	0.52	0.38	12	<1		<1		<2
WEAG-774	GRAB	6117 Gleneagles Drive	6-Jun-12	0.52	0.15	14	<1		<1		<2
WEAG-774	GRAB	6117 Gleneagles Drive	18-Jun-12	0.72	0.25	13	<1		<1		2
WEAG-774	GRAB	6117 Gleneagles Drive	4-Jul-12	0.64	0.11	14	<1		<1		<2
WEAG-774	GRAB	6117 Gleneagles Drive	16-Jul-12	0.58	0.11	18	<1		<1		<2
WEAG-774	GRAB	6117 Gleneagles Drive	30-Jul-12	0.66	0.1	14	<1		<1		10
WEAG-774	GRAB	6117 Gleneagles Drive	13-Aug-12	0.84	0.13	21	<1		<1		4
WEAG-774	GRAB	6117 Gleneagles Drive	27-Aug-12	0.71	0.12	17	<1		<1		12
WEAG-774	GRAB	6117 Gleneagles Drive	10-Sep-12	0.78	0.09	15	<1		<1		6

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-774	GRAB	6117 Gleneagles Drive	24-Sep-12	0.9	0.13	15	<1		<1		2
WEAG-774	GRAB	6117 Gleneagles Drive	10-Oct-12	0.68	0.21	13	<1		<1		2
WEAG-774	GRAB	6117 Gleneagles Drive	29-Oct-12	0.67	0.14	12	<1		<1		4
WEAG-774	GRAB	6117 Gleneagles Drive	5-Nov-12	0.9	0.16	12	<1		<1		<2
WEAG-774	GRAB	6117 Gleneagles Drive	19-Nov-12	0.47	0.12	9	<1		<1		2
WEAG-774	GRAB	6117 Gleneagles Drive	3-Dec-12	0.68	0.07	10	<1		<1		4
WEAG-774	GRAB	6117 Gleneagles Drive	17-Dec-12	0.71	0.06	7	<1		<1		2
WEAG-776	GRAB	3755 Cypress Bowl Road	16-Jan-12	0.74	0.18	7	<1		<1		84
WEAG-776	GRAB	3755 Cypress Bowl Road	13-Feb-12	0.7	0.2	6	<1		<1		18
WEAG-776	GRAB	3755 Cypress Bowl Road	12-Mar-12	0.47	0.11	6	<1		<1		8
WEAG-776	GRAB	3755 Cypress Bowl Road	11-Apr-12	0.49	0.12	9	<1		<1		12
WEAG-776	GRAB	3755 Cypress Bowl Road	7-May-12	0.44	0.07	11	<1		<1		12
WEAG-776	GRAB	3755 Cypress Bowl Road	6-Jun-12	0.47	0.16	14	<1		<1		12
WEAG-776	GRAB	3755 Cypress Bowl Road	4-Jul-12	0.79	0.5	14	<1		<1		24
WEAG-776	GRAB	3755 Cypress Bowl Road	30-Jul-12	0.08	0.11	15	<1		<1		8
WEAG-776	GRAB	3755 Cypress Bowl Road	27-Aug-12	0.34	1.1	18	<1		<1		<2
WEAG-776	GRAB	3755 Cypress Bowl Road	24-Sep-12	0.51	0.45	15	<1		<1		10
WEAG-776	GRAB	3755 Cypress Bowl Road	29-Oct-12	0.23	0.14	14	<1		<1		22
WEAG-776	GRAB	3755 Cypress Bowl Road	3-Dec-12	0.2	0.09	10	<1		<1		2
WEAG-778	GRAB	6190 Marine Drive	4-Jan-12	1	0.54	7	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	16-Jan-12	0.92	0.22	6	<1		<1		2
WEAG-778	GRAB	6190 Marine Drive	30-Jan-12	0.49	0.11	8	<1		<1		2
WEAG-778	GRAB	6190 Marine Drive	13-Feb-12	0.59	0.18	7	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	27-Feb-12	0.91	0.11	5	<1		<1		4
WEAG-778	GRAB	6190 Marine Drive	12-Mar-12	0.74	0.11	6	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	26-Mar-12	1.1	0.14	5	<1		<1		2
WEAG-778	GRAB	6190 Marine Drive	11-Apr-12	0.8	0.26	8	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	23-Apr-12	0.61	0.1	9	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	7-May-12	0.82	0.11	10	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-778	GRAB	6190 Marine Drive	23-May-12	0.68	0.2	12	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	6-Jun-12	0.81	0.14	13	<1		<1		4
WEAG-778	GRAB	6190 Marine Drive	18-Jun-12	0.91	0.13	13	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	4-Jul-12	0.89	0.1	14	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	16-Jul-12	0.7	0.14	17	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	30-Jul-12	0.4	0.18	13	<1		<1		2
WEAG-778	GRAB	6190 Marine Drive	13-Aug-12	0.94	0.11	20	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	27-Aug-12	0.68	0.22	17	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	10-Sep-12	0.81	0.13	14	<1		<1		8
WEAG-778	GRAB	6190 Marine Drive	24-Sep-12	1.1	0.12	15	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	10-Oct-12	0.72	0.18	13	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	29-Oct-12	0.81	0.12	11	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	5-Nov-12	0.72	0.2	12	<1		<1		2
WEAG-778	GRAB	6190 Marine Drive	19-Nov-12	0.63	0.1	9	<1		<1		<2
WEAG-778	GRAB	6190 Marine Drive	3-Dec-12	0.77	0.09	9	<1		<1		2
WEAG-778	GRAB	6190 Marine Drive	17-Dec-12	0.91	0.32	7	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	9-Jan-12	0.59	0.08	7	<1		<1		6
WEAG-779	GRAB	1370 Burnside Road	6-Feb-12	0.81	0.07	7	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	5-Mar-12	0.31	0.24	6	<1		<1		12
WEAG-779	GRAB	1370 Burnside Road	2-Apr-12	0.51	0.12	7	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	30-Apr-12	0.61	0.07	11	<1		<1		16
WEAG-779	GRAB	1370 Burnside Road	28-May-12	0.29	0.48	13	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	25-Jun-12	0.48	0.23	13	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	23-Jul-12	0.63	0.1	17	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	20-Aug-12	0.51	0.19	15	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	17-Sep-12	1.1	0.33	13	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	15-Oct-12	0.89	0.12	12	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	14-Nov-12	0.22	0.08	9	<1		<1		<2
WEAG-779	GRAB	1370 Burnside Road	10-Dec-12	0.28	<0.06	9	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-780	GRAB	5634 Westhaven Road	4-Jan-12	0.69	0.25	7	<1		<1		2
WEAG-780	GRAB	5634 Westhaven Road	30-Jan-12	0.54	0.07	8	<1		<1		<2
WEAG-780	GRAB	5634 Westhaven Road	27-Feb-12	0.5	0.11	6	<1		<1		<2
WEAG-780	GRAB	5634 Westhaven Road	26-Mar-12	0.66	0.1	6	<1		<1		<2
WEAG-780	GRAB	5634 Westhaven Road	23-Apr-12	0.52	0.14	9	<1		<1		2
WEAG-780	GRAB	5634 Westhaven Road	23-May-12	0.65	0.13	11	<1		<1		2
WEAG-780	GRAB	5634 Westhaven Road	18-Jun-12	0.82	0.11	13	<1		<1		<2
WEAG-780	GRAB	5634 Westhaven Road	16-Jul-12	0.56	0.17	16	<1		<1		<2
WEAG-780	GRAB	5634 Westhaven Road	13-Aug-12	0.4	0.07	23	<1		<1		8
WEAG-780	GRAB	5634 Westhaven Road	10-Sep-12	0.58	0.11	15	<1		<1		<2
WEAG-780	GRAB	5634 Westhaven Road	10-Oct-12	0.63	0.22	13	<1		<1		<2
WEAG-780	GRAB	5634 Westhaven Road	5-Nov-12	0.63	0.25	11	<1		<1		22
WEAG-780	GRAB	5634 Westhaven Road	19-Nov-12	0.59	0.11	9	<1		<1		6
WEAG-780	GRAB	5634 Westhaven Road	17-Dec-12	0.43	0.11	7	<1		<1		6
WEAG-783	GRAB	4520 Almondel Place	16-Jan-12	0.8	0.16	5	<1		<1		<2
WEAG-783	GRAB	4520 Almondel Place	13-Feb-12	0.72	0.16	5	<1		<1		4
WEAG-783	GRAB	4520 Almondel Place	12-Mar-12	0.56	0.08	6	<1		<1		30
WEAG-783	GRAB	4520 Almondel Place	11-Apr-12	0.63	0.14	8	<1		<1		28
WEAG-783	GRAB	4520 Almondel Place	7-May-12	0.67	0.1	10	<1		<1		26
WEAG-783	GRAB	4520 Almondel Place	6-Jun-12	0.73	0.12	13	<1		<1		2
WEAG-783	GRAB	4520 Almondel Place	4-Jul-12	0.82	0.15	13	<1		<1		12
WEAG-783	GRAB	4520 Almondel Place	30-Jul-12	0.37	0.15	16	<1		<1		10
WEAG-783	GRAB	4520 Almondel Place	27-Aug-12	0.48	0.08	18	<1		<1		<2
WEAG-783	GRAB	4520 Almondel Place	24-Sep-12	0.76	0.13	14	<1		<1		4
WEAG-783	GRAB	4520 Almondel Place	29-Oct-12	0.47	0.28	10	<1		<1		40
WEAG-783	GRAB	4520 Almondel Place	3-Dec-12	0.58	0.06	8	<1		<1		36
WEAG-784	GRAB	5759 Primrose Place	4-Jan-12	0.94	0.28	6	<1		<1		<2
WEAG-784	GRAB	5759 Primrose Place	30-Jan-12	0.74	0.17	8	<1		<1		2
WEAG-784	GRAB	5759 Primrose Place	27-Feb-12	0.61	0.1	6	<1		<1		2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-784	GRAB	5759 Primrose Place	26-Mar-12	0.7	0.09	5	<1		<1		<2
WEAG-784	GRAB	5759 Primrose Place	23-Apr-12	0.29	0.13	10	<1		<1		4
WEAG-784	GRAB	5759 Primrose Place	23-May-12	0.37	0.24	12	<1		<1		4
WEAG-784	GRAB	5759 Primrose Place	18-Jun-12	0.68	0.14	14	<1		<1		4
WEAG-784	GRAB	5759 Primrose Place	16-Jul-12	0.47	0.38	17	<1		<1		6
WEAG-784	GRAB	5759 Primrose Place	13-Aug-12	0.49	0.09	22	<1		<1		2
WEAG-784	GRAB	5759 Primrose Place	10-Sep-12	0.58	0.14	15	<1		<1		44
WEAG-784	GRAB	5759 Primrose Place	10-Oct-12	0.51	0.29	13	<1		<1		4
WEAG-784	GRAB	5759 Primrose Place	5-Nov-12	0.35	0.11	12	<1		<1		4
WEAG-784	GRAB	5759 Primrose Place	19-Nov-12	0.32	0.11	9	<1		<1		10
WEAG-784	GRAB	5759 Primrose Place	17-Dec-12	0.31	0.2	7	<1		<1		2
WEAG-785	GRAB	4820 Headland Drive	4-Jan-12	0.64	2.8	6	<1		<1		10
WEAG-785	GRAB	4820 Headland Drive	30-Jan-12	0.2	7	8	<1	<1		<1	>11000
WEAG-785	GRAB	4820 Headland Drive	27-Feb-12	0.59	0.08	6	<1		<1		44
WEAG-785	GRAB	4820 Headland Drive	26-Mar-12	0.42	0.17	6	<1		<1		2
WEAG-785	GRAB	4820 Headland Drive	23-Apr-12	0.59	0.13	9	<1		<1		<2
WEAG-785	GRAB	4820 Headland Drive	23-May-12	0.54	0.1	12	<1		<1		38
WEAG-785	GRAB	4820 Headland Drive	18-Jun-12	0.59	0.51	13	<1		<1		66
WEAG-785	GRAB	4820 Headland Drive	16-Jul-12	0.48	0.24	17	<1		<1		22
WEAG-785	GRAB	4820 Headland Drive	13-Aug-12	0.49	0.88	21	<1		<1		68
WEAG-785	GRAB	4820 Headland Drive	10-Sep-12	0.27	0.12	15	<1		<1		40
WEAG-785	GRAB	4820 Headland Drive	10-Oct-12	0.58	0.19	13	<1		<1		18
WEAG-785	GRAB	4820 Headland Drive	5-Nov-12	0.49	0.14	10	<1		<1		22
WEAG-785	GRAB	4820 Headland Drive	19-Nov-12	0.51	0.13	9	<1		<1		16
WEAG-785	GRAB	4820 Headland Drive	17-Dec-12	0.33	0.76	6	<1		<1		200
WEAG-786	GRAB	1158 Millstream Road	23-Jan-12	0.54	0.29	5	<1		<1		12
WEAG-786	GRAB	1158 Millstream Road	20-Feb-12	0.48	0.14	6	<1		<1		8
WEAG-786	GRAB	1158 Millstream Road	19-Mar-12	0.79	0.18	5	<1		<1		12
WEAG-786	GRAB	1158 Millstream Road	16-Apr-12	1	0.26	7	<1		<1		6

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-786	GRAB	1158 Millstream Road	14-May-12	0.68	0.49	11	<1		<1		<2
WEAG-786	GRAB	1158 Millstream Road	11-Jun-12	0.61	0.27	13	<1		<1		2
WEAG-786	GRAB	1158 Millstream Road	9-Jul-12	0.95	0.45	13	<1		<1		6
WEAG-786	GRAB	1158 Millstream Road	8-Aug-12	0.99	0.39	10	<1		<1		2
WEAG-786	GRAB	1158 Millstream Road	5-Sep-12	0.78	0.41	14	<1		<1		4
WEAG-786	GRAB	1158 Millstream Road	1-Oct-12	1.1	0.32	13	<1		<1		10
WEAG-786	GRAB	1158 Millstream Road	22-Oct-12	0.64	0.2	11	<1		<1		34
WEAG-786	GRAB	1158 Millstream Road	26-Nov-12	0.67	0.18	8	<1		<1		8
WEAG-786	GRAB	1158 Millstream Road	27-Dec-12	0.3	1.2	8	<1		<1		NA
WEAG-787	GRAB	2711 Willoughby Road	23-Jan-12	0.45	0.19	5	<1		<1		18
WEAG-787	GRAB	2711 Willoughby Road	20-Feb-12	0.32	0.27	7	<1		<1		8
WEAG-787	GRAB	2711 Willoughby Road	19-Mar-12	0.82	1	5	<1		<1		48
WEAG-787	GRAB	2711 Willoughby Road	16-Apr-12	0.78	0.49	7	<1		<1		26
WEAG-787	GRAB	2711 Willoughby Road	14-May-12	0.72	0.4	11	<1		<1		20
WEAG-787	GRAB	2711 Willoughby Road	11-Jun-12	0.68	0.33	14	<1		<1		<2
WEAG-787	GRAB	2711 Willoughby Road	9-Jul-12	1.2	0.76	15	<1		<1		4
WEAG-787	GRAB	2711 Willoughby Road	8-Aug-12	0.93	0.5	10	<1		<1		<2
WEAG-787	GRAB	2711 Willoughby Road	5-Sep-12	0.71	1.2	14	<1		<1		8
WEAG-787	GRAB	2711 Willoughby Road	1-Oct-12	0.86	0.32	14	<1		<1		<2
WEAG-787	GRAB	2711 Willoughby Road	22-Oct-12	0.7	0.33	11	<1		<1		32
WEAG-787	GRAB	2711 Willoughby Road	26-Nov-12	0.61	0.16	8	<1		<1		10
WEAG-787	GRAB	2711 Willoughby Road	27-Dec-12	0.44	0.11	8	<1		<1		NA
WEAG-788	GRAB	1551 Vinson Creek Road	23-Jan-12	0.3	0.25	5	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	20-Feb-12	0.37	0.09	7	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	19-Mar-12	0.77	0.09	6	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	16-Apr-12	0.57	0.1	8	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	14-May-12	0.59	0.14	11	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	11-Jun-12	0.74	0.14	12	<1		<1		8
WEAG-788	GRAB	1551 Vinson Creek Road	9-Jul-12	2.2	0.28	14	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WEAG-788	GRAB	1551 Vinson Creek Road	8-Aug-12	0.94	0.34	10	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	5-Sep-12	0.71	0.37	13	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	1-Oct-12	1	0.36	14	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	22-Oct-12	1.4	0.3	10	<1		<1		<2
WEAG-788	GRAB	1551 Vinson Creek Road	26-Nov-12	0.76	0.1	9	<1		<1		2
WEAG-788	GRAB	1551 Vinson Creek Road	27-Dec-12	0.57	0.1	8	<1		<1		NA
WEAG-880	GRAB	965 Cross Creek Road	4-Jan-12	0.45	0.49	8	<1		<1		<2
WEAG-880	GRAB	965 Cross Creek Road	30-Jan-12	0.39	0.27	8	<1		<1		<2
WEAG-880	GRAB	965 Cross Creek Road	27-Feb-12	0.35	0.27	7	<1		<1		10
WEAG-880	GRAB	965 Cross Creek Road	26-Mar-12	0.34	0.12	6	<1		<1		<2
WEAG-880	GRAB	965 Cross Creek Road	23-Apr-12	0.31	0.2	9	<1		<1		24
WEAG-880	GRAB	965 Cross Creek Road	23-May-12	0.48	0.12	12	<1		<1		12
WEAG-880	GRAB	965 Cross Creek Road	18-Jun-12	0.42	0.35	12	<1		<1		2
WEAG-880	GRAB	965 Cross Creek Road	16-Jul-12	0.29	0.2	16	<1		<1		4
WEAG-880	GRAB	965 Cross Creek Road	13-Aug-12	0.48	0.25	22	<1		<1		2
WEAG-880	GRAB	965 Cross Creek Road	10-Sep-12	0.39	0.2	15	<1		<1		<2
WEAG-880	GRAB	965 Cross Creek Road	10-Oct-12	0.97	0.36	12	<1		<1		<2
WEAG-880	GRAB	965 Cross Creek Road	5-Nov-12	0.62	0.13	12	<1		<1		<2
WEAG-880	GRAB	965 Cross Creek Road	19-Nov-12	0.39	0.1	10	<1		<1		2
WEAG-880	GRAB	965 Cross Creek Road	17-Dec-12	0.25	0.17	8	<1		<1		640
WVR-711	GRAB	1020 Groveland Road	9-Jan-12	0.47	0.11	7	<1		<1		6
WVR-711	GRAB	1020 Groveland Road	6-Feb-12	0.51	0.13	6	<1		<1		18
WVR-711	GRAB	1020 Groveland Road	5-Mar-12	0.54	0.1	5	<1		<1		<2
WVR-711	GRAB	1020 Groveland Road	2-Apr-12	0.44	0.26	6	<1		<1		12
WVR-711	GRAB	1020 Groveland Road	30-Apr-12	0.52	0.14	11	<1		<1		32
WVR-711	GRAB	1020 Groveland Road	28-May-12	1	0.65	14	<1		<1		<2
WVR-711	GRAB	1020 Groveland Road	25-Jun-12	0.5	0.43	13	<1		<1		4
WVR-711	GRAB	1020 Groveland Road	23-Jul-12	0.52	0.16	16	<1		<1		<2
WVR-711	GRAB	1020 Groveland Road	20-Aug-12	0.79	0.36	14	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WVR-711	GRAB	1020 Groveland Road	17-Sep-12	0.92	0.45	13	<1		<1		<2
WVR-711	GRAB	1020 Groveland Road	15-Oct-12	0.61	0.16	12	<1		<1		<2
WVR-711	GRAB	1020 Groveland Road	14-Nov-12	0.28	0.18	9	<1		<1		22
WVR-711	GRAB	1020 Groveland Road	10-Dec-12	0.31	0.29	9	<1		<1		4
WVR-712	GRAB	510 Ballantree Road	9-Jan-12	0.4	0.08	7	<1		<1		<2
WVR-712	GRAB	510 Ballantree Road	6-Feb-12	0.46	0.13	6	<1		<1		<2
WVR-712	GRAB	510 Ballantree Road	5-Mar-12	0.44	0.13	6	<1		<1		<2
WVR-712	GRAB	510 Ballantree Road	2-Apr-12	0.29	0.18	6	<1		<1		2
WVR-712	GRAB	510 Ballantree Road	30-Apr-12	0.25	0.18	11	<1		<1		4000
WVR-712	GRAB	510 Ballantree Road	28-May-12	0.36	0.33	14	<1		<1		2
WVR-712	GRAB	510 Ballantree Road	25-Jun-12	0.24	0.36	12	<1		<1		1200
WVR-712	GRAB	510 Ballantree Road	23-Jul-12	0.23	0.24	15	<1		<1		>11000
WVR-712	GRAB	510 Ballantree Road	20-Aug-12	0.21	0.24	14	<1		<1		2
WVR-712	GRAB	510 Ballantree Road	17-Sep-12	0.23	0.3	13	<1		<1		48
WVR-712	GRAB	510 Ballantree Road	15-Oct-12	0.31	0.38	13	<1		<1		10
WVR-712	GRAB	510 Ballantree Road	14-Nov-12	0.31	0.21	9	<1		<1		4
WVR-712	GRAB	510 Ballantree Road	10-Dec-12	0.25	0.22	9	<1		<1		<2
WVR-718	GRAB	885 - 22nd Street	16-Jan-12	0.48	0.21	7	<1		<1		<2
WVR-718	GRAB	885 - 22nd Street	13-Feb-12	0.76	0.14	9	<1		<1		2
WVR-718	GRAB	885 - 22nd Street	12-Mar-12	0.42	0.1	7	<1		<1		<2
WVR-718	GRAB	885 - 22nd Street	11-Apr-12	0.46	0.1	9	<1		<1		2
WVR-718	GRAB	885 - 22nd Street	7-May-12	0.51	0.14	11	<1		<1		<2
WVR-718	GRAB	885 - 22nd Street	6-Jun-12	0.61	0.84	15	<1		<1		6
WVR-718	GRAB	885 - 22nd Street	4-Jul-12	0.45	0.49	15	<1		<1		790
WVR-718	GRAB	885 - 22nd Street	30-Jul-12	0.85	0.37	10	<1		<1		700
WVR-718	GRAB	885 - 22nd Street	27-Aug-12	0.72	0.28	16	<1		<1		18
WVR-718	GRAB	885 - 22nd Street	24-Sep-12	0.73	0.36	13	<1		<1		10
WVR-718	GRAB	885 - 22nd Street	29-Oct-12	0.46	0.12	13	<1		<1		12
WVR-718	GRAB	885 - 22nd Street	3-Dec-12	0.49	0.09	12	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WVR-761	GRAB	243 Rabbit Lane	23-Jan-12	0.32	0.23	6	<1		<1		10
WVR-761	GRAB	243 Rabbit Lane	20-Feb-12	0.23	0.37	7	<1		<1		24
WVR-761	GRAB	243 Rabbit Lane	19-Mar-12	0.26	0.64	5	<1		<1		380
WVR-761	GRAB	243 Rabbit Lane	16-Apr-12	0.34	0.26	8	<1		<1		40
WVR-761	GRAB	243 Rabbit Lane	14-May-12	0.24	0.33	13	<1		<1		740
WVR-761	GRAB	243 Rabbit Lane	11-Jun-12	0.25	0.3	13	<1		<1		>11000
WVR-761	GRAB	243 Rabbit Lane	9-Jul-12	0.53	0.24	15	<1		<1		<2
WVR-761	GRAB	243 Rabbit Lane	8-Aug-12	0.21	0.26	10	<1		<1		6
WVR-761	GRAB	243 Rabbit Lane	5-Sep-12	0.22	0.58	17	<1		<1		>11000
WVR-761	GRAB	243 Rabbit Lane	1-Oct-12	0.24	0.81	13	<1		<1		>11000
WVR-761	GRAB	243 Rabbit Lane	22-Oct-12	0.26	0.78	8	<1		<1		280
WVR-761	GRAB	243 Rabbit Lane	26-Nov-12	0.22	3.6	9	<1		<1		710
WVR-761	GRAB	243 Rabbit Lane	27-Dec-12	0.23	4.6	8	<1		<1		NA
WVR-764	GRAB	111 Bridge Road	23-Jan-12	0.58	0.15	5	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	20-Feb-12	0.51	0.72	5	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	19-Mar-12	0.67	0.1	5	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	16-Apr-12	0.74	0.14	6	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	14-May-12	0.85	0.48	9	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	11-Jun-12	0.91	0.59	10	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	9-Jul-12	1.2	0.5	10	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	8-Aug-12	0.78	0.3	10	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	5-Sep-12	0.88	0.33	14	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	1-Oct-12	0.63	0.4	14	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	22-Oct-12	0.94	0.2	9	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	26-Nov-12	0.57	0.29	7	<1		<1		<2
WVR-764	GRAB	111 Bridge Road	27-Dec-12	0.64	0.1	7	<1		<1		NA
WVR-790	GRAB	19 Glenmore Drive	9-Jan-12	0.51	0.27	9	<1		<1		2
WVR-790	GRAB	19 Glenmore Drive	23-Jan-12	0.46	0.34	6	<1		<1		6
WVR-790	GRAB	19 Glenmore Drive	6-Feb-12	0.7	0.14	6	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WVR-790	GRAB	19 Glenmore Drive	20-Feb-12	0.47	0.22	7	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	5-Mar-12	0.56	0.19	6	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	19-Mar-12	0.42	0.58	5	<1		<1		10
WVR-790	GRAB	19 Glenmore Drive	2-Apr-12	0.47	0.28	7	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	16-Apr-12	0.61	0.22	7	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	30-Apr-12	0.66	0.82	11	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	14-May-12	0.63	0.35	9	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	28-May-12	0.52	0.53	13	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	11-Jun-12	0.67	0.53	11	<1		<1		4
WVR-790	GRAB	19 Glenmore Drive	25-Jun-12	0.52	0.43	12	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	9-Jul-12	0.65	0.32	11	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	23-Jul-12	1	0.28	8	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	8-Aug-12	0.48	0.36	9	<1		<1		4
WVR-790	GRAB	19 Glenmore Drive	20-Aug-12	1.1	0.29	10	<1		<1		2
WVR-790	GRAB	19 Glenmore Drive	5-Sep-12	0.74	0.33	14	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	17-Sep-12	0.73	0.42	13	<1		<1		2
WVR-790	GRAB	19 Glenmore Drive	1-Oct-12	0.69	0.43	14	<1		<1		2
WVR-790	GRAB	19 Glenmore Drive	15-Oct-12	0.93	0.15	12	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	22-Oct-12	0.55	0.36	10	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	14-Nov-12	0.42	0.12	8	<1		<1		2
WVR-790	GRAB	19 Glenmore Drive	26-Nov-12	0.6	0.11	7	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	10-Dec-12	0.56	0.18	8	<1		<1		<2
WVR-790	GRAB	19 Glenmore Drive	27-Dec-12	0.52	0.31	8	<1		<1		NA
WVR-791	GRAB	200 Keith Road	9-Jan-12	0.59	0.31	6	<1		<1		12
WVR-791	GRAB	200 Keith Road	6-Feb-12	0.64	0.1	5	<1		<1		4
WVR-791	GRAB	200 Keith Road	5-Mar-12	0.82	0.12	6	<1		<1		<2
WVR-791	GRAB	200 Keith Road	2-Apr-12	0.73	0.09	6	<1		<1		38
WVR-791	GRAB	200 Keith Road	30-Apr-12	0.79	0.13	9	<1		<1		<2
WVR-791	GRAB	200 Keith Road	28-May-12	0.46	0.81	14	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WVR-791	GRAB	200 Keith Road	25-Jun-12	0.74	0.56	12	<1		<1		2
WVR-791	GRAB	200 Keith Road	23-Jul-12	0.78	0.3	12	<1		<1		70
WVR-791	GRAB	200 Keith Road	20-Aug-12	0.87	0.32	12	<1		<1		<2
WVR-791	GRAB	200 Keith Road	17-Sep-12	0.95	0.38	14	<1		<1		<2
WVR-791	GRAB	200 Keith Road	15-Oct-12	1.2	0.16	11	<1		<1		<2
WVR-791	GRAB	200 Keith Road	14-Nov-12	0.81	0.09	8	<1		<1		2
WVR-791	GRAB	200 Keith Road	10-Dec-12	0.87	0.1	7	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	9-Jan-12	0.51	0.19	9	<1		<1		2
WVR-792	GRAB	76 Bonnymuir Drive	23-Jan-12	0.51	0.28	5	<1		<1		10
WVR-792	GRAB	76 Bonnymuir Drive	6-Feb-12	0.63	0.12	6	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	20-Feb-12	0.42	0.16	7	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	5-Mar-12	0.38	0.13	5	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	19-Mar-12	0.31	0.11	6	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	2-Apr-12	0.33	0.13	7	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	16-Apr-12	0.29	0.16	7	<1		<1		20
WVR-792	GRAB	76 Bonnymuir Drive	30-Apr-12	0.28	0.24	11	<1		<1		3100
WVR-792	GRAB	76 Bonnymuir Drive	14-May-12	0.23	0.12	13	<1		<1		>11000
WVR-792	GRAB	76 Bonnymuir Drive	28-May-12	0.36	0.49	13	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	11-Jun-12	0.29	0.4	13	<1		<1		6
WVR-792	GRAB	76 Bonnymuir Drive	25-Jun-12	0.28	0.32	12	<1		<1		>11000
WVR-792	GRAB	76 Bonnymuir Drive	9-Jul-12	0.35	0.69	12	<1		<1		28
WVR-792	GRAB	76 Bonnymuir Drive	23-Jul-12	0.64	0.29	12	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	8-Aug-12	0.29	0.3	9	<1		<1		10
WVR-792	GRAB	76 Bonnymuir Drive	20-Aug-12	0.34	0.35	12	<1		<1		2
WVR-792	GRAB	76 Bonnymuir Drive	5-Sep-12	0.42	0.29	15	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	17-Sep-12	0.42	0.36	13	<1		<1		2
WVR-792	GRAB	76 Bonnymuir Drive	1-Oct-12	0.28	0.33	15	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	15-Oct-12	0.55	0.27	13	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	22-Oct-12	0.44	0.27	10	<1		<1		4

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WVR-792	GRAB	76 Bonnymuir Drive	14-Nov-12	0.38	0.11	9	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	26-Nov-12	0.34	0.17	9	<1		<1		<2
WVR-792	GRAB	76 Bonnymuir Drive	10-Dec-12	0.36	0.12	9	<1		<1		8
WVR-792	GRAB	76 Bonnymuir Drive	27-Dec-12	0.35	0.16	9	<1		<1		NA
WVR-793	GRAB	559 Kildonan Road	9-Jan-12	0.36	0.11	7	<1		<1		12
WVR-793	GRAB	559 Kildonan Road	6-Feb-12	0.4	0.15	6	<1		<1		<2
WVR-793	GRAB	559 Kildonan Road	5-Mar-12	0.82	0.19	5	<1		<1		<2
WVR-793	GRAB	559 Kildonan Road	2-Apr-12	0.62	0.08	6	<1		<1		2
WVR-793	GRAB	559 Kildonan Road	30-Apr-12	0.63	0.11	11	<1		<1		<2
WVR-793	GRAB	559 Kildonan Road	28-May-12	0.28	0.25	13	<1		<1		2
WVR-793	GRAB	559 Kildonan Road	25-Jun-12	0.36	0.14	13	<1		<1		4
WVR-793	GRAB	559 Kildonan Road	23-Jul-12	0.26	0.16	16	<1		<1		22
WVR-793	GRAB	559 Kildonan Road	20-Aug-12	0.21	1.3	14	<1		<1		6
WVR-793	GRAB	559 Kildonan Road	17-Sep-12	0.22	0.31	15	<1		<1		4
WVR-793	GRAB	559 Kildonan Road	15-Oct-12	0.34	0.29	12	<1		<1		2
WVR-793	GRAB	559 Kildonan Road	14-Nov-12	0.37	0.13	9	<1		<1		<2
WVR-793	GRAB	559 Kildonan Road	10-Dec-12	0.54	0.4	9	<1		<1		<2
WVR-794	GRAB	702 Barnham Road	9-Jan-12	0.55	0.5	7	<1		<1		24
WVR-794	GRAB	702 Barnham Road	6-Feb-12	0.52	0.22	6	<1		<1		6
WVR-794	GRAB	702 Barnham Road	5-Mar-12	0.5	0.23	5	<1		<1		<2
WVR-794	GRAB	702 Barnham Road	2-Apr-12	0.37	0.11	6	<1		<1		4
WVR-794	GRAB	702 Barnham Road	30-Apr-12	0.5	0.11	11	<1		<1		16
WVR-794	GRAB	702 Barnham Road	28-May-12	0.78	0.42	13	<1		<1		<2
WVR-794	GRAB	702 Barnham Road	25-Jun-12	0.47	0.21	13	<1		<1		18
WVR-794	GRAB	702 Barnham Road	23-Jul-12	0.41	0.22	16	<1		<1		58
WVR-794	GRAB	702 Barnham Road	20-Aug-12	0.27	0.35	14	<1		<1		22
WVR-794	GRAB	702 Barnham Road	17-Sep-12	0.35	0.43	15	<1		<1		4
WVR-794	GRAB	702 Barnham Road	15-Oct-12	0.4	0.34	12	<1		<1		2
WVR-794	GRAB	702 Barnham Road	14-Nov-12	0.34	0.13	9	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WVR-794	GRAB	702 Barnham Road	10-Dec-12	0.44	0.15	8	<1		<1		2
WVR-795	GRAB	620 Kenwood Road	9-Jan-12	0.65	0.14	7	<1		<1		2
WVR-795	GRAB	620 Kenwood Road	6-Feb-12	0.54	0.13	6	<1		<1		4
WVR-795	GRAB	620 Kenwood Road	5-Mar-12	0.34	0.21	6	<1		<1		40
WVR-795	GRAB	620 Kenwood Road	2-Apr-12	0.45	0.15	6	<1		<1		14
WVR-795	GRAB	620 Kenwood Road	30-Apr-12	0.39	0.29	11	<1		<1		12
WVR-795	GRAB	620 Kenwood Road	28-May-12	0.32	0.52	13	<1		<1		<2
WVR-795	GRAB	620 Kenwood Road	25-Jun-12	0.28	0.43	13	<1		<1		170
WVR-795	GRAB	620 Kenwood Road	23-Jul-12	0.48	0.35	16	<1		<1		4
WVR-795	GRAB	620 Kenwood Road	20-Aug-12	0.87	0.31	14	<1		<1		8
WVR-795	GRAB	620 Kenwood Road	17-Sep-12	1	0.46	14	<1		<1		2
WVR-795	GRAB	620 Kenwood Road	15-Oct-12	0.74	0.24	12	<1		<1		4
WVR-795	GRAB	620 Kenwood Road	14-Nov-12	0.3	0.16	9	<1		<1		<2
WVR-795	GRAB	620 Kenwood Road	10-Dec-12	0.49	0.14	8	<1		<1		2
WVR-796	GRAB	315 Mathers Avenue	9-Jan-12	0.76	0.16	8	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	23-Jan-12	0.6	0.12	5	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	6-Feb-12	0.59	0.13	5	<1		<1		2
WVR-796	GRAB	315 Mathers Avenue	20-Feb-12	0.89	0.16	7	<1		<1		2
WVR-796	GRAB	315 Mathers Avenue	5-Mar-12	0.74	0.13	7	<1		<1		8
WVR-796	GRAB	315 Mathers Avenue	19-Mar-12	0.74	0.09	6	<1		<1		46
WVR-796	GRAB	315 Mathers Avenue	2-Apr-12	0.65	0.24	7	<1		<1		26
WVR-796	GRAB	315 Mathers Avenue	16-Apr-12	0.62	0.35	8	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	30-Apr-12	0.85	0.13	10	<1		<1		2
WVR-796	GRAB	315 Mathers Avenue	14-May-12	0.71	0.65	10	<1		<1		4
WVR-796	GRAB	315 Mathers Avenue	28-May-12	1.1	0.72	14	<1		<1		10
WVR-796	GRAB	315 Mathers Avenue	11-Jun-12	0.72	0.45	12	<1		<1		12
WVR-796	GRAB	315 Mathers Avenue	25-Jun-12	0.81	0.44	14	<1		<1		6
WVR-796	GRAB	315 Mathers Avenue	9-Jul-12	1.1	0.41	15	<1		<1		2
WVR-796	GRAB	315 Mathers Avenue	23-Jul-12	0.71	0.39	13	<1		<1		24

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WVR-796	GRAB	315 Mathers Avenue	8-Aug-12	0.87	0.37	10	<1		<1		20
WVR-796	GRAB	315 Mathers Avenue	20-Aug-12	1	0.26	11	<1		<1		10
WVR-796	GRAB	315 Mathers Avenue	5-Sep-12	0.76	0.3	16	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	17-Sep-12	0.99	0.33	15	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	1-Oct-12	1	0.38	14	<1		<1		4
WVR-796	GRAB	315 Mathers Avenue	15-Oct-12	1.2	0.22	13	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	22-Oct-12	0.97	0.21	9	<1		<1		14
WVR-796	GRAB	315 Mathers Avenue	14-Nov-12	0.77	0.11	9	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	26-Nov-12	0.63	0.15	9	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	10-Dec-12	0.89	0.11	8	<1		<1		<2
WVR-796	GRAB	315 Mathers Avenue	27-Dec-12	0.54	0.13	9	<1		<1		NA
WVR-797	GRAB	395 Klahanie Court	23-Jan-12	0.2	0.39	5	<1		<1		34
WVR-797	GRAB	395 Klahanie Court	20-Feb-12	0.57	0.23	6	<1		<1		<2
WVR-797	GRAB	395 Klahanie Court	19-Mar-12	0.59	0.24	5	<1		<1		[Contamination] LA
WVR-797	GRAB	395 Klahanie Court	16-Apr-12	0.68	0.92	7	<1		<1		<2
WVR-797	GRAB	395 Klahanie Court	14-May-12	0.74	0.58	11	<1		<1		2
WVR-797	GRAB	395 Klahanie Court	11-Jun-12	0.56	0.58	12	<1		<1		<2
WVR-797	GRAB	395 Klahanie Court	9-Jul-12	0.79	0.28	14	<1		<1		<2
WVR-797	GRAB	395 Klahanie Court	8-Aug-12	0.95	20	11	<1	<1		<1	6
WVR-797	GRAB	395 Klahanie Court	5-Sep-12	0.68	0.26	14	<1		<1		<2
WVR-797	GRAB	395 Klahanie Court	1-Oct-12	0.81	0.3	15	<1		<1		<2
WVR-797	GRAB	395 Klahanie Court	22-Oct-12	0.53	0.18	9	<1		<1		4
WVR-797	GRAB	395 Klahanie Court	26-Nov-12	0.38	0.31	8	<1		<1		<2
WVR-797	GRAB	395 Klahanie Court	27-Dec-12	0.51	0.1	8	<1		<1		NA
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	16-Jan-12	0.63	0.17	6	<1		<1		<2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	13-Feb-12	0.28	0.13	7	<1		<1		<2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	12-Mar-12	0.6	0.11	5	<1		<1		<2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	11-Apr-12	0.68	0.11	7	<1		<1		<2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	7-May-12	0.32	0.1	10	<1		<1		<2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Turbidity NTU	Temperature °C	Total Coliform MF/100mLs	Total Coliform MPN/100 mLs	Ecoli MF/100mLs	Ecoli MPN/10 OmLs	HPC CFU/mLs
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	6-Jun-12	0.28	0.2	12	<1		<1		540
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	4-Jul-12	0.31	0.1	13	<1		<1		<2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	30-Jul-12	0.33	0.14	12	<1		<1		2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	27-Aug-12	0.86	0.19	18	<1		<1		<2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	24-Sep-12	0.85	0.2	15	<1		<1		<2
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	29-Oct-12	0.15	0.09	12	<1		<1		1000
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	3-Dec-12	0.04	0.08	10	<1		<1		2
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	4-Jan-12	0.75	6	8		<1		<1	100
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	30-Jan-12	0.27	0.36	8	<1		<1		2000
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	27-Feb-12	0.23	0.8	6	<1		<1		>11000
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	26-Mar-12	0.65	0.36	6	<1		<1		2
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	23-Apr-12	0.56	0.28	9	<1		<1		<2
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	23-May-12	0.24	0.2	10	<1		<1		130
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	18-Jun-12	0.28	0.44	12	<1		<1		1700
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	16-Jul-12	0.25	1.1	15	<1		<1		260
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	13-Aug-12	0.75	0.63	17	<1		<1		<2
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	10-Sep-12	0.61	0.49	13	<1		<1		<2
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	10-Oct-12	0.46	2.5	14	<1		<1		4
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	5-Nov-12	0.52	0.36	12	<1		<1		150
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	19-Nov-12	0.27	0.16	12	<1		<1		32
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	17-Dec-12	0.46	0.55	8	<1		<1		<2

Semi Annual Metals Monitoring Results

Sample Name	Sample Description	Sampled Date	Sample Type	Aluminum Total	Antimony Total	Barium Total	Boron Total	Cadmium Total	Calcium Total	Chromium Total	Cobalt Total	Copper Total	Iron Total	Lead Total	Magnesium Total	Manganese Total	Mercury Total	Molybdenum Total	Nickel Total	Potassium Total	Selenium Total	Silver Total	Sodium Total	Zinc Total
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Health Canada Health Based and Aesthetic Guidelines			0.1/0.2	0.006	1	5	0.005	n/a	0.05	n/a	≤1.0	≤0.3	0.01	n/a	≤0.05	0.001	n/a	n/a	n/a	0.01	n/a	≤200	≤5.0
WEAG-789	Gleneagles Elementary	24/04/2012	GRAB	0.062	<0.0005	0.0024	<0.010	<0.0002	1.08	<0.00005	<0.0005	0.0301	0.006	<0.0005	0.227	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	4.72	0.232
WEAG-789	Gleneagles Elementary	01/11/2012	GRAB	0.056	<0.0005	0.0042	<0.010	<0.0002	2.05	0.00006	<0.0005	0.0637	0.0011	<0.0005	0.264	0.0057	<0.0005	0.0016	<0.0005	0.156	<0.0005	<0.0005	5.63	0.56
WVR-796	315 Mathers Avenue	24/04/2012	GRAB	0.079	<0.0005	0.0027	<0.010	<0.0002	1.35	0.00008	<0.0005	0.0356	0.0043	0.0022	0.19	0.0025	<0.0005	<0.0005	<0.0005	0.157	<0.0005	<0.0005	1.95	0.0088
WVR-796	315 Mathers Avenue	01/11/2012	GRAB	0.028	<0.0005	0.0035	<0.010	<0.0002	4.01	<0.00005	<0.0005	0.0089	<0.005	0.0007	0.185	0.003	<0.0005	<0.0005	<0.0005	0.216	<0.0005	<0.0005	1.42	0.0038
WVR-798	Cypress Park Elementary	24/04/2012	GRAB	0.065	<0.0005	0.0018	<0.010	<0.0002	1.62	0.00005	<0.0005	0.0749	0.0076	<0.0005	0.176	0.0027	<0.0005	<0.0005	<0.0005	0.118	<0.0005	<0.0005	4.41	0.0103
WVR-798	Cypress Park Elementary	01/11/2012	GRAB	0.021	<0.0005	0.0034	<0.010	<0.0002	3.52	<0.00005	<0.0005	0.0564	0.0014	<0.0005	0.169	0.0018	<0.0005	<0.0005	<0.0005	0.224	<0.0005	<0.0005	1.8	0.0755
WVR-799	Hollyburn Elementary	24/04/2012	GRAB	0.071	<0.0005	0.0025	<0.010	<0.0002	1.51	0.00008	<0.0005	0.0668	0.0064	<0.0005	0.188	0.0022	<0.0005	<0.0005	<0.0005	0.157	<0.0005	<0.0005	2	<0.0003
WVR-799	Hollyburn Elementary	01/11/2012	GRAB	0.025	<0.0005	0.0027	<0.010	<0.0002	3.68	0.00005	<0.0005	0.155	0.0088	0.0001	0.202	0.0036	<0.0005	<0.0005	<0.0005	0.214	<0.0005	<0.0005	1.45	0.0086

DISINFECTION BYPRODUCTS

Sample	Date Sample	Total THM Quarterly Average	Total HAA Quarterly Average
Health Canada Recommended Guidelines		100 ppb	80 ppb
WEAG-772	01/03/2012	86	97
WEAG-772	09/05/2012	84	86
WEAG-772	28/08/2012	69	61
WEAG-772	27/11/2012	64	62
WEAG-773	01/03/2012	110	77
WEAG-773	09/05/2012	109	80
WEAG-773	28/08/2012	96	47
WEAG-773	27/11/2012	87	55
WEAG-776	01/03/2012	46	
WEAG-776	09/05/2012	49	
WEAG-776	28/08/2012	57	
WEAG-776	27/11/2012	55	
WEAG-778	01/03/2012	77	95
WEAG-778	09/05/2012	77	88
WEAG-778	28/08/2012	69	61
WEAG-778	27/11/2012	67	65
WMZ-781	01/03/2012	76	108
WMZ-781	09/05/2012	63	89
WMZ-781	28/08/2012	50	70
WMZ-781	27/11/2012	57	72
WMZ-782	01/03/2012	82	110
WMZ-782	09/05/2012	70	85
WMZ-782	28/08/2012	54	66
WMZ-782	27/11/2012	50	44
WVR-713	01/03/2012	59	
WVR-713	09/05/2012	61	
WVR-713	28/08/2012	60	
WVR-713	27/11/2012	59	
WVR-716	01/03/2012	69	56
WVR-716	09/05/2012	67	54
WVR-716	28/08/2012	62	45
WVR-716	27/11/2012	58	49
WVR-717	01/03/2012	32	
WVR-717	09/05/2012	22	
WVR-717	28/08/2012	21	
WVR-717	27/11/2012	21	
WVR-764	01/03/2012	21	34
WVR-764	09/05/2012	18	32
WVR-764	28/08/2012	17	34
WVR-764	27/11/2012	17	32