

2013 Drinking Water Quality Annual Report

FINAL REPORT

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EXECUTIVE SUMMARY

This report summarizes the District of West Vancouver's water quality program for 2013. Sampling has been carried out in accordance with the protocol developed with Metro Vancouver 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 2013 revealed source waters to have very low presence of *Escherichia coli* (*E. coli*), giardia, and cryptosporidium.

Water throughout the distribution system was tested for bacteriological, physical and chemical parameters. Samples for total coliforms and *E. coli* were all negative with the exception of one site that tested positive for total coliform for one sample. This was due to a faulty sample line which was subsequently replaced. Tests showed turbidities of greater than 5 NTU in only three distribution samples for the year. Tests showed turbidity less than 1 NTU in 98.3 % 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 one sample taken from a faulty sample site. Testing for the disinfection by-products, trihalomethanes and haloacetic acids, indicated levels were within Canadian guidelines for all sites.

1.0 INTRODUCTION

This report summarizes the District of West Vancouver's water quality program for 2013. 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 (DWPR). 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 two water supplies and a 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, east to 27th Street on the Mathers Avenue water main 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 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.

Once the water enters the treatment facility, it passes through an automatic self cleaning bar screen to remove any floating debris. The water is pH adjusted and coagulant added to optimize the membrane filtration process. The coagulated water is then pumped and filtered through 3 first stage submerged membrane filters. Once filtered, chemicals are added for disinfection and corrosion control. Fully treated water is stored in concrete reservoirs ready to be distributed.

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 during 2013 the plant was operated and maintained by a level 3 operator with support from level 2 (1) and level 1 (1) operators, the lower level operators will continue to work towards the higher levels of certification.

In 2014, the District will be recruiting a certified operator to replace a recently vacated position.

3.2.2 Eagle Lake Water Treatment Plant Bypass and Optimization

In the event of an operational emergency the Eagle Lake plant may need to be bypassed in order to keep supplying water to the District's residents and for fire demand. Although the filtration process will be bypassed, the water will continue to be disinfected with sodium hypochlorite but at a higher dose and longer contact time to compensate for the loss of filtration.

All EOCP certified staff is familiar with the details of the bypass procedure. The details of this procedure have been provided separately in the Eagle Lake Water Treatment Plant Emergency Response and Contingency plan to VCHA.

The Eagle Lake Treatment Plant was not bypassed during 2013.

The infrastructure needed to optimize the use of the Eagle Lake supply system was completed in June, 2010. The Eagle Lake optimization has allowed the District to increase 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 clear well level and system demand. During extended periods when a plant operator is expected to be unavailable, 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 operational 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 are notified should there be any changes to operational procedures.

3.3 Montizambert Treatment Plant

The EOCP Level 3 classified Pall Membrane Treatment Plant (Montizambert) was successfully commissioned in September 2011 and is compliant with the 4-3-2-1 multi-barrier approach as specified in the GCDWQ to ensure safe drinking water as mandated by the Health Authorities of British Columbia.

The introduction of the treatment plant has resulted in a reduction of maintenance (main flushing) hours required to maintain a minimum chlorine residual of 0.2mg/L within the Montizambert Creek distribution system.

The source water from Montizambert Creek passes through a gravel filtration intake and a settling tank before entering the Montizambert Treatment facility. Once the water enters the plant it is mixed with a coagulant and pumped and filtered through the membrane filters. After the filtration process, chlorine is added for disinfection and the water is stored in concrete reservoirs ready to be distributed.

3.3.1 Montizambert Water Treatment Plant Bypass

In the event of an operational emergency the Montizambert Water Treatment Plant may need to be bypassed to continue supplying water to residents and for fire demand. The Montizambert Water Treatment Plant is capable of two different types of bypass, one with cartridge filters and the second without. The use of cartridge filters will be determined on a case by case basis. Either way, the water will continue to be disinfected with sodium

hypochlorite but adjusted to an appropriate dosage rate and contact time depending on the bypass process.

All EOCP certified staff are familiar with the details of the bypass procedure. The details of this procedure have been provided separately in the Montizambert Creek Water Treatment Plant Emergency Response and Contingency plan to VCHA.

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 months, 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 2013 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 2013 was 610. 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.

Escherichia coli (*E. coli*) samples are taken 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 detected 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 coliforms are not used as indicators of potential health effects from pathogenic microorganisms; they are used as an operational tool to determine how well the drinking water treatment system is operating. When sampled in the distribution system the GCDWQ states that no consecutive samples contain total coliform and that no more than 10% of samples taken contain total coliform. Total coliform detected in the distribution system can be an indication of re-growth 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 Laboratories.

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 aesthetic purposes.

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 less than 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 (THMs), haloacetic acids (HAAs), and pH. Chlorine residual is measured at all sampling sites when bacteriological samples are collected; additionally there are several online chlorine analyzers for continuous monitoring through the distribution system.

4.3.1 Disinfection By-Products

Disinfection by-products are formed when chlorine reacts with natural organic matter. The two main categories of disinfection by-products are trihalomethanes (THMs) and haloacetic acids (HAAs) 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 suggest a potential maximum level of 80 ppb.

4.3.2 pH

The waters acidity or basicity is measured as pH. The GCDWQ recommends a pH in the range of 6.5-8.5 as a treatment objective. 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 as well as hinder the treatment process. West Vancouver pH adjusts to above 7.0 and injects a low level of zinc orthophosphate at its treatment facilities, both to optimize the treatment process and to reduce the corrosion of its metallic pipes in the distribution system.

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 37 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 – Source Water (untreated)

At Eagle Lake, 26 bi-weekly source water samples were tested. A very low presence of E.coli was detected; 22 samples showed a most probable number (MPN) of less than 1 per 100 mL and 2 samples indicated 1 MPN, 2 samples showed presence of E. coli ranging from 2 to 14 MPN/100mls. Testing for total coliforms showed results ranging from 2 – 800 MPN-/100mls in the raw, untreated source water.

Table 2A Eagle Lake Source Water Microbiological and Physical Parameters

Sample Name	No. Samples	Turbidity NTU			Temperature °C			Total Coliform MPN/100mLs			Ecoli MPN/100mLs			HPC CFU/mls		
		Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.
WEAG-LK1	26	0.21	0.39	1.2	3	8.81	18	2	148.19	800	<1	4.50	14	74	218.50	600

At Montizambert Creek, the 27 bi-weekly samples tested for E.coli with 18 samples yielding results of less than 1 MPN, 3 samples indicated 1 MPN and the remaining 6 samples showed presence of E. coli ranging from 2 to 16 MPN/100mLs. Total Coliform testing results ranged from less than 5 – 470 MPN/100mLs prior to treatment.

Table 2B Montizambert Creek Source Water Microbiological and Physical Parameters

Sample Name	No. Samples	Turbidity NTU			Temperature °C			Total Coliform MPN/100mLs			Ecoli MPN/100mLs			HPC CFU/mls		
		Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.
WMZ-CK1	27	0.2	0.98	2.4	3	8.00	14	5	101.78	470	<1	3.44	16	94	231.60	1300

Giardia and Cryptosporidium testing was conducted monthly for both sources. Eagle Lake showed one positive sample of 1 Giardia species per 100 L. Montizambert Creek showed 2 positive samples of 1 Giardia per 100 L and 1 positive sample of 1 Cryptosporidium per 100 L, all other samples were negative.

Source water chemistry testing is conducted at Eagle Lake and Montizambert on a semi-annual basis, 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 – 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, water can be provided from either Eagle Lake or Metro Vancouver.

Distribution system samples for E.coli were all negative except for one sample with two total coliform counts being detected at a Metro Vancouver sampling point. This false reading was caused by a faulty sampling line which was replaced.

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 (7) sites from all three distribution sources showed HPC counts that exceeded 500 CFU/100 mL; in no instance did a HPC exceedance correspond to the presence of E.coli. Elevated HPC is not an indication for water safety concerns but an operational indicator of possible stagnation and potential degradation of water quality. Where HPC results exceeded 500 CFU/100 mL water mains were flushed and turbidity readings and chlorine residuals checked.

All samples within the Eagle Lake, Montizambert and Metro Vancouver testing results met the guideline of greater than 0.2 ppm chlorine residual with the exception of one sample which was taken from a faulty sample site, additional samples were taken and the required level of disinfection was achieved. Turbidity results for the distribution system indicated 99.7% of all samples tested met the GCDWQ aesthetic objective of below 5 NTU with only three instances where a turbidity level of greater than 5 NTU was recorded, one from a Metro supply and two from the Montizambert supply. The District responded by alerting VCH 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 3 Distribution System Microbiological and Physical Parameters (WVR Sites)

Location ID	Chlorine Residual (ppm)			Turbidity (NTU)			Temperature (°C) (Aesthetic Objective)			HPC (CFU/ml)			Ecoli MPN/100mLs	Total Coliform MF/100mLs			
	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.		Min.	Avg.	Max.	
GCDWQ Guideline	Not Less than 0.2			Not More Than 5			Not More Than 15 °C			No Limit			None	None			
	No. Samples																
WVR-711	13	0.24	0.41	0.58	0.08	0.17	0.5	6	11	18	2	15.4	100	None	None	<1	2
WVR-764	13	0.48	0.66	0.87	0.09	0.24	0.47	4	9.2	16	<2	2	2	None	None		
WVR-790	26	0.06	0.62	0.93	0.09	0.55	5.20	5	10.0	18	2	22	180	None	None		
WVR-791	13	0.45	0.77	1.10	0.07	0.21	0.60	5	9.8	17	2	8	18	None	None		
WVR-761	13	0.20	0.30	0.62	0.13	0.89	4.00	6	10.8	19	2	519	4300	None	None		
WVR-796	26	0.31	0.74	1.10	0.06	0.18	0.41	5	10.0	18	2	12	44	None	None		
WVR-797	13	0.48	0.69	1.30	0.11	0.32	0.79	6	10.2	18	2	2	2	None	None		
WVR-712	13	0.20	0.38	0.69	0.12	0.25	0.45	6	11.0	17	2	244	1400	None	None		
WVR-793	13	0.20	0.42	0.80	0.10	0.21	0.74	5	10.8	17	6	82	260	None	None		
WVR-795	13	0.36	0.52	0.75	0.09	0.23	0.43	5	10.3	17	2	22	60	None	None		
WVR-794	13	0.25	0.42	0.71	0.09	0.21	0.67	5	10.8	18	2	59	340	None	None		
WVR-792	26	0.22	0.42	0.63	0.06	0.21	0.44	5	10.4	18	2	27	240	None	None		
WVR-718	14	0.23	0.54	0.71	0.07	0.20	0.44	6	11.2	19	2	87	290	None	None		

Table 4 Distribution System Microbiological and Physical Parameters (WEAG and WMZ Sites)

Location ID	Chlorine Residual (ppm)			Turbidity (NTU)			Temperature (°C) (Aesthetic Objective)			HPC (CFU/ml)			Ecoli MPN/100mLs	Total Coliform MF/100 mLs	
	Not Less than 0.2			Not More Than 5			Not More Than 15°C			No Limit			None	None	
GCDWQ Guideline	No. Samples	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.		
WEAG-786	13	0.41	0.69	1.2	0.09	0.22	0.43	5	10.2	17	4	31	200	None	None
WEAG-769	14	0.27	0.60	1.1	0.06	0.22	1.1	6	11.3	19	2	6	10	None	None
WEAG-779	13	0.42	0.63	1.1	0.06	0.14	0.29	5	10.4	17	2	3	6	None	None
WEAG-788	13	0.37	0.88	2	0.07	0.15	0.28	5	9.8	17	2	10	24	None	None
WEAG-768	13	0.29	0.73	1.2	0.06	0.14	0.34	5	10.5	19	2	6	14	None	None
WEAG-719	26	0.32	0.63	0.98	0.06	0.10	0.18	5	10.7	18	<2	19	52	None	None
WEAG-787	13	0.23	0.57	1.1	0.1	0.33	0.96	5	10.6	18	2	5	8	None	None
WEAG-776	14	0.2	0.42	0.84	0.06	0.12	0.2	5	11.2	20	2	19	70	None	None
WEAG-770	27	0.21	0.62	1.1	0.06	0.13	0.32	4	11.2	19	2	13	56	None	None
WEAG-783	14	0.36	0.71	1.1	0.06	0.10	0.2	5	10.8	20	2	8	24	None	None
WEAG-710	14	0.24	0.68	1.2	0.07	0.16	0.5	5	10.8	18	2	16	72	None	None
WEAG-785	13	0.3	0.51	0.68	0.06	0.30	0.93	4	11.8	17	4	26	86	None	None
WEAG-765	13	0.26	0.50	0.74	0.06	0.14	0.29	5	12.1	18	6	14	26	None	None
WEAG-780	13	0.33	0.65	0.88	0.06	0.15	0.65	6	11.7	18	2	4	8	None	None
WEAG-784	13	0.21	0.46	0.89	0.06	0.14	0.38	5	11.8	17	2	185	1400	None	None
WEAG-774	27	0.33	0.63	0.99	0.06	0.11	0.26	5	11.4	18	2	7	30	None	None
WEAG-778	27	0.44	0.74	1.2	0.06	0.21	1.4	5	11.0	18	2	3	4	None	None
WEAG-772	27	0.33	0.67	0.96	0.06	0.18	0.5	5	10.8	17	2	8	40	None	None
WEAG-771	27	0.2	0.47	0.71	0.07	0.15	0.29	6	11.4	19	2	57	240	None	None
WEAG-880	13	0.22	0.50	0.97	0.06	0.17	0.36	6	11.8	17	2	135	880	None	None
WEAG-716	27	0.2	0.44	0.78	0.06	0.16	0.55	6	11.6	19	2	7	20	None	None
WMZ-781	14	0.22	0.47	0.7	0.08	0.11	0.15	6	10.5	18	<2	<2	<2	None	None
WMZ-782	13	0.22	0.44	0.89	0.08	1.54	6.8	5	11.3	17	2	131	620	None	None

Testing for metals within the distribution system are summarized in Appendix C, all metals within the metals scan were well within GCDWQ guidelines with the exception of one slightly elevated Iron Total of 0.951 mg/L (Health Canada Guideline is <0.3 mg/L)

Disinfection by-products are formed when chlorine reacts with natural organic matters. The two main categories of disinfection by-products are trihalomethanes (THMs) and haloacetic acids (HAAs) which are monitored on a quarterly basis at a total of 10 sites. The test results are presented as a running quarterly average for both THMs and HAAs; reported results for quarterly averages of THMs and HAAs did not exceed the guideline levels within the distribution system.

The level of natural organic matters is typically characterized by measuring total organic carbon (TOC) in a laboratory. Organic carbons originate in water from partially dissolved organic materials from algae, leaves, bark, wood, soil and other similar materials which are also responsible for a significant portion of the colour found in natural water sources.

Optimization of the coagulation process and pH adjustment resulted in reduced TOC levels which lead to a reduction in disinfection byproducts.

A comparison of the yearly average results for disinfection by-products for THM and HAA monitored at 10 sites from 2012 to 2013 is presented in Table 5 below. 6 out of the 10 sites have decreased THM levels between 5 to 32 percent and 6 out of 7 sites have decreased HAA levels from 13 to 44 percent.

Table 5 Comparison of Yearly Average for 2012 to 2013 Disinfection By-Products

Sample Location	Total THM				Total HAA		
	Yearly Average (2012)	Yearly Average (2013)	% Difference		Yearly Average (2012)	Yearly Average (2013)	% Difference
WEAG-772	64	51	-25%		62	48	-29%
WEAG-773	87	69	-25%		55	46	-19%
WEAG-776	55	52	-5%				
WEAG-778	67	51	-32%		65	46	-40%
WMZ-781	57	63	10%		72	64	-13%
WMZ-782	50	56	10%		44	53	17%
WVR-713	59	53	-11%				
WVR-716	58	49	-18%		49	43	-15%
WVR-717	21	31	32%				
WVR-764	17	23	27%		32	22	-44%

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

6.0 PUBLIC NOTIFICATION

6.1 Drinking Water Advisory/Boil Water Advisory

2013 was relatively free of significant turbidity events, with the exception of some minor elevated levels of turbidity from Metro Vancouver sources. As a result of these events 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 2013.

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 District's 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 five distribution operators, three treatment operators and one supervisor. Two treatment plant operators also hold EOCP distribution certification.

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

In 2013, District staff maintained the following certification levels:

Water distribution:

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

Water treatment:

- Level 3 – one
- Level 2 - one
- Level 1 - one

8.0 EMERGENCY RESPONSE PLANS

8.1 E. coli Positive Response

If a sample analyzed by Metro Vancouver Laboratories 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 a 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 boil water advisory will be evaluated and if deemed necessary by the MHO, the VCHA and the municipality will carry out various means to inform the public. Metro Vancouver will be informed of this public advisory.
8. The MHO and District staff shall determine the 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 District will provide the MHO with repeat sample results and continue to sample until three consecutive samples show no E.coli detectable per 100 mLs.

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. The approach understands the need to increase and maintain chlorine dosage rates and residuals during periods of elevated turbidity while minimizing the levels of disinfection by-products whenever possible.

The following actions will be taken regarding turbidity in 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 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.
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 VCH. Utility personnel carry out immediate 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, municipal crews will flush the affected area until the desired level is achieved.

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

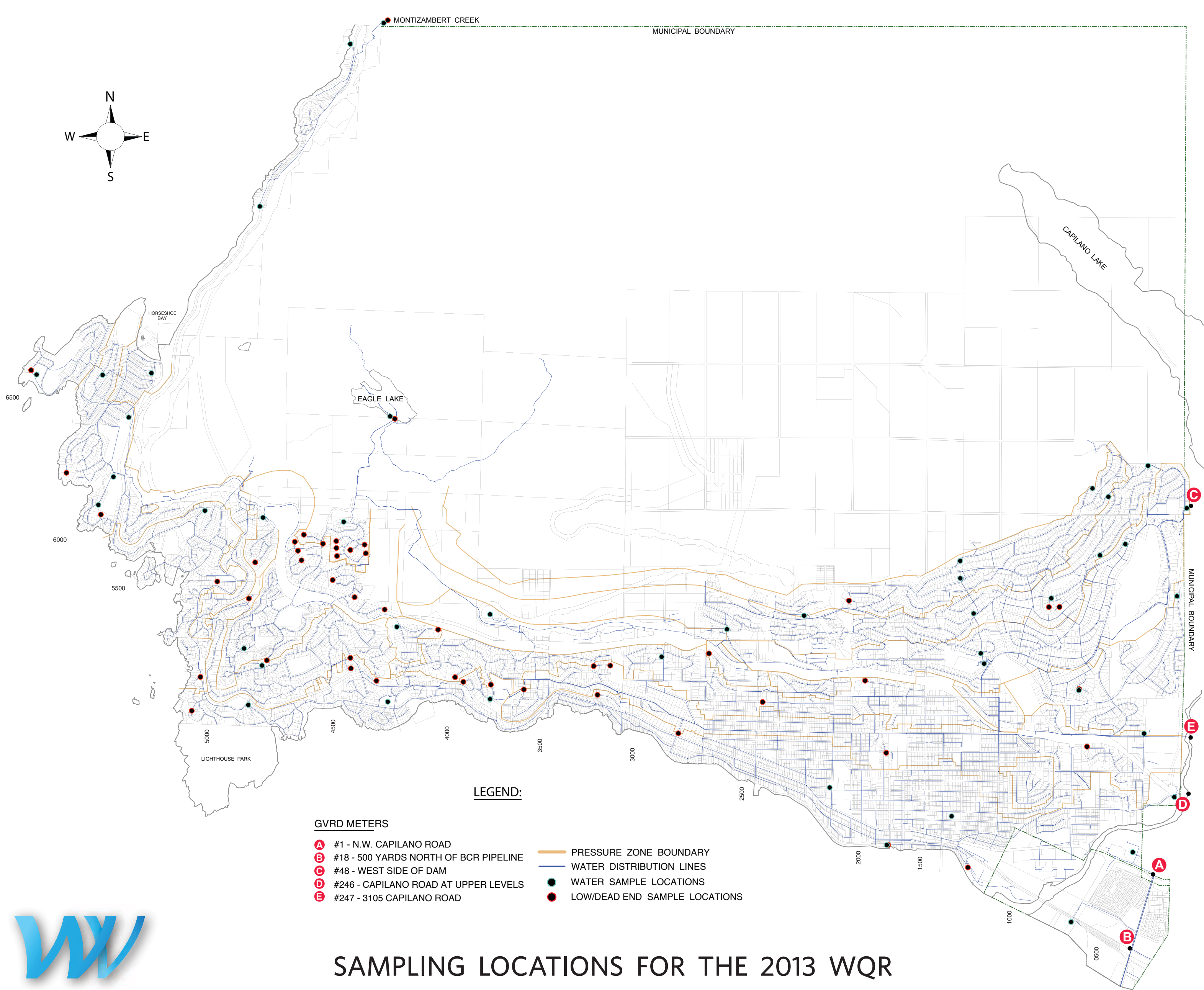
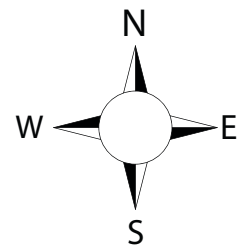
District staff continues to take a balanced approach and employ best management practices in the operation and maintenance of the water system to maintain high water quality.

In 2013 the District's distribution water supply met the requirements as outlined in the GCDWQ for THMs and HAAs, quarterly averages did not exceed the guideline levels during 2013.

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.

APPENDIX A





1. Map of water system sampling locations (doc 713378)
2. Location addresses for water sampling (doc 701084)



LEGEND:

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

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



SAMPLING LOCATIONS FOR THE 2013 WQR

District of West Vancouver Sample Locations

DISTRICT OF WEST VANCOUVER					
WATER SAMPLE LOCATIONS (2013)					
Supply Source	Address	Description	Flow Type	Sample #	Bottle #
METRO VANCOUVER	1020 Groveland Road	Sample Kiosk	High	DmWVR-711	G711
Require 12 samples	474 Craigmore Dr.	Pump 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	House	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
	6406 Bruce St.	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 Almondell 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	Pump House	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	Pump House	High	DmWVR-880	G880
	4778 Woodgreen Dr.	House	Low/Dead End	DmWVR-710	E710
Eagle Lake	4778 Woodgreen Dr.	House	Low/Dead End	DmWVR-710	E710
	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	House	Low	DmWEAG-765	E765
	2185 Gisby Street	Sample Kiosk	Medium	DmWEAG-768	E768
	4778 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
	6406 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 Almondell 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	Pump House	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	DmEAG-796	E796
	965 Cross Creek Road	Pump House	High	DmWEAG-880	E880
2 Source per Month	Eagle Lake ***	Source	Source	DmWEAG-LK1	E-LK1
Montizambert 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	Montizambert 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					

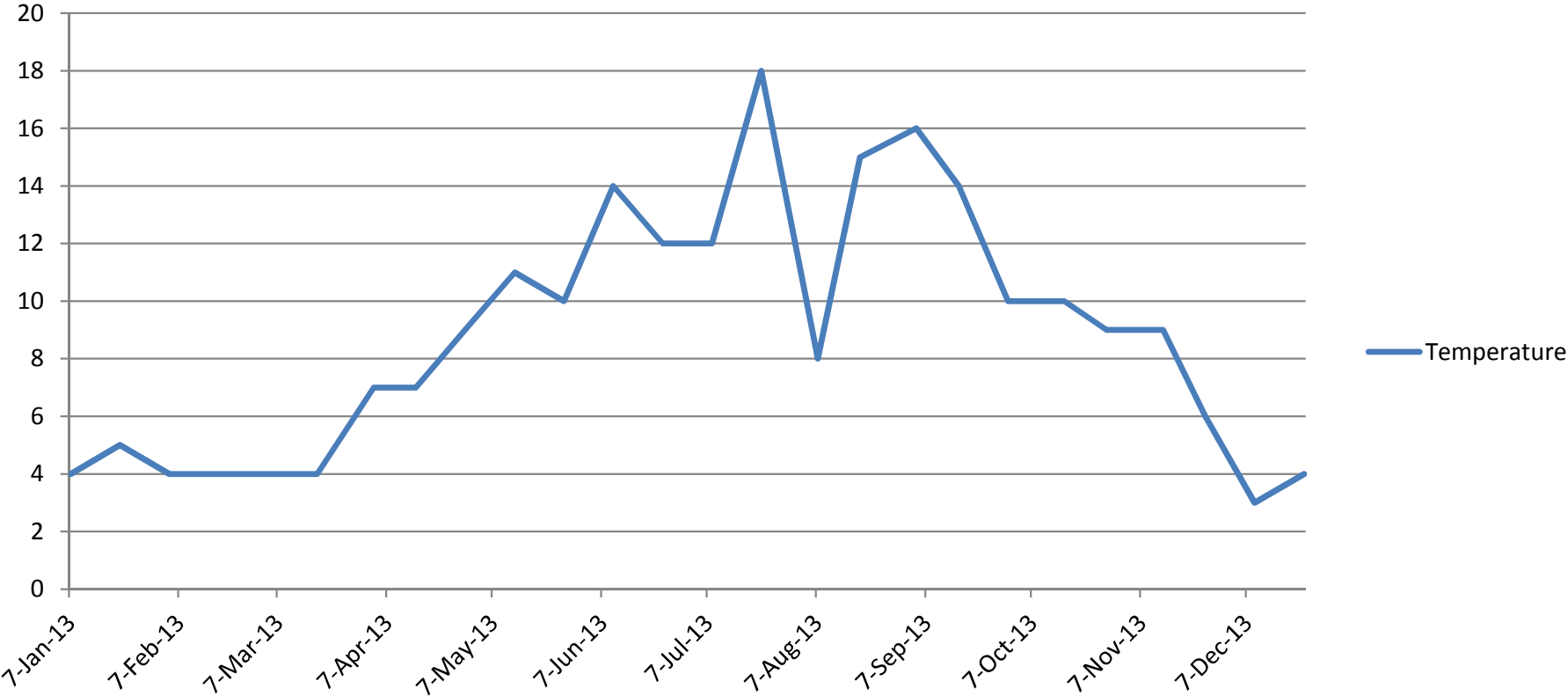
APPENDIX B

1. Source Water Quality – Eagle Lake (doc 701084)
2. Source Water Quality – Montizambert Creek (doc 701084)
3. Source Water Chemistry (doc 701084)

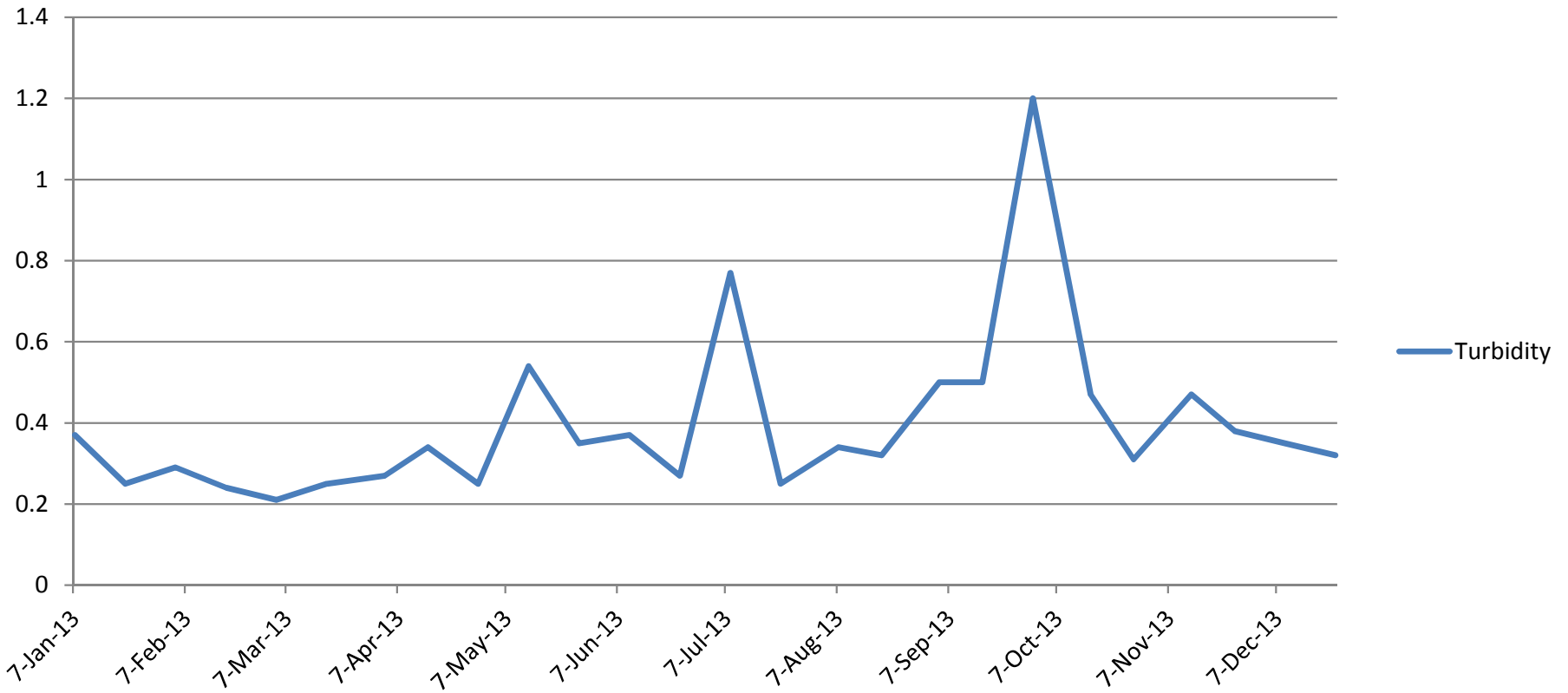
Eagle Lake Source Water Bacteriological Sample Results

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Turbidity NTU	Temperature °C	Total Coliform MPN/100 mLs	Ecoli MPN/100 mLs	HPC CFU/mLs
WEAG-LK1	Grab	Eagle Lake Source	7-Jan-13	0.37	4	29	<1	190
WEAG-LK1	Grab	Eagle Lake Source	21-Jan-13	0.25	5	2	<1	130
WEAG-LK1	Grab	Eagle Lake Source	4-Feb-13	0.29	4	5	<1	84
WEAG-LK1	Grab	Eagle Lake Source	18-Feb-13	0.24	4	6	<1	86
WEAG-LK1	Grab	Eagle Lake Source	4-Mar-13	0.21	4	26	<1	360
WEAG-LK1	Grab	Eagle Lake Source	18-Mar-13	0.25	4	13	<1	190
WEAG-LK1	Grab	Eagle Lake Source	3-Apr-13	0.27	7	26	1	220
WEAG-LK1	Grab	Eagle Lake Source	15-Apr-13	0.34	7	56	<1	150
WEAG-LK1	Grab	Eagle Lake Source	29-Apr-13	0.25	9	66	<1	160
WEAG-LK1	Grab	Eagle Lake Source	13-May-13	0.54	11	220	<1	LA
WEAG-LK1	Grab	Eagle Lake Source	27-May-13	0.35	10	400	<1	260
WEAG-LK1	Grab	Eagle Lake Source	10-Jun-13	0.37	14	290	2	180
WEAG-LK1	Grab	Eagle Lake Source	24-Jun-13	0.27	12	360	<1	330
WEAG-LK1	Grab	Eagle Lake Source	8-Jul-13	0.77	12	170	<1	600
WEAG-LK1	Grab	Eagle Lake Source	22-Jul-13	0.25	18	800	<1	340
WEAG-LK1	Grab	Eagle Lake Source	7-Aug-13	0.34	8	140	<1	150
WEAG-LK1	Grab	Eagle Lake Source	19-Aug-13	0.32	15	240	<1	74
WEAG-LK1	Grab	Eagle Lake Source	4-Sep-13	0.5	16	120	1	230
WEAG-LK1	Grab	Eagle Lake Source	16-Sep-13	0.5	14	210	<1	110
WEAG-LK1	Grab	Eagle Lake Source	30-Sep-13	1.2	10	450	14	340
WEAG-LK1	Grab	Eagle Lake Source	16-Oct-13	0.47	10	33	<1	170
WEAG-LK1	Grab	Eagle Lake Source	28-Oct-13	0.31	9	31	<1	140
WEAG-LK1	Grab	Eagle Lake Source	13-Nov-13	0.47	9	65	<1	400
WEAG-LK1	Grab	Eagle Lake Source	25-Nov-13	0.38	6	36	<1	210
WEAG-LK1	Grab	Eagle Lake Source	9-Dec-13	0.35	3	38	<1	140
WEAG-LK1	Grab	Eagle Lake Source	23-Dec-13	0.32	4	21	<1	NA

Eagle Lake Source Water Temperature °C



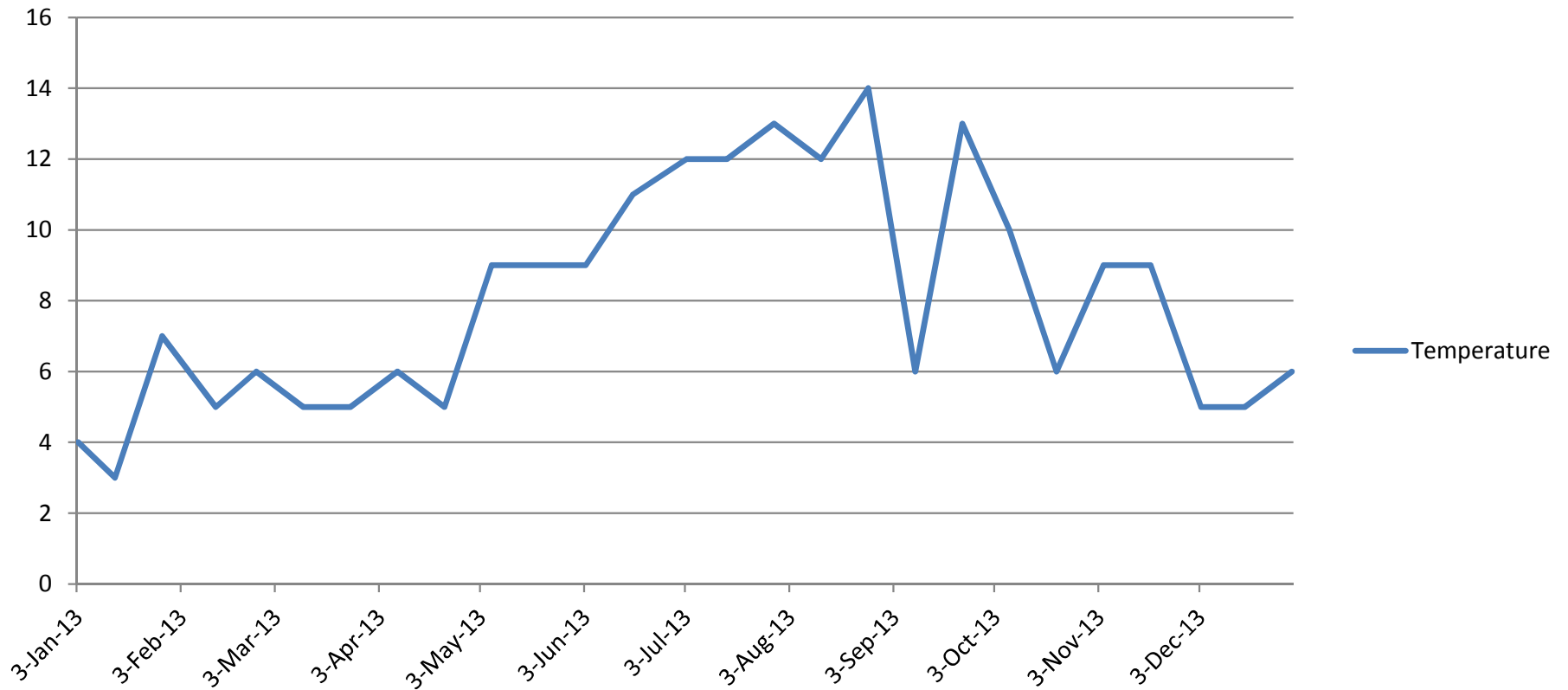
Eagle Lake Source Water Turbidity (ntu)



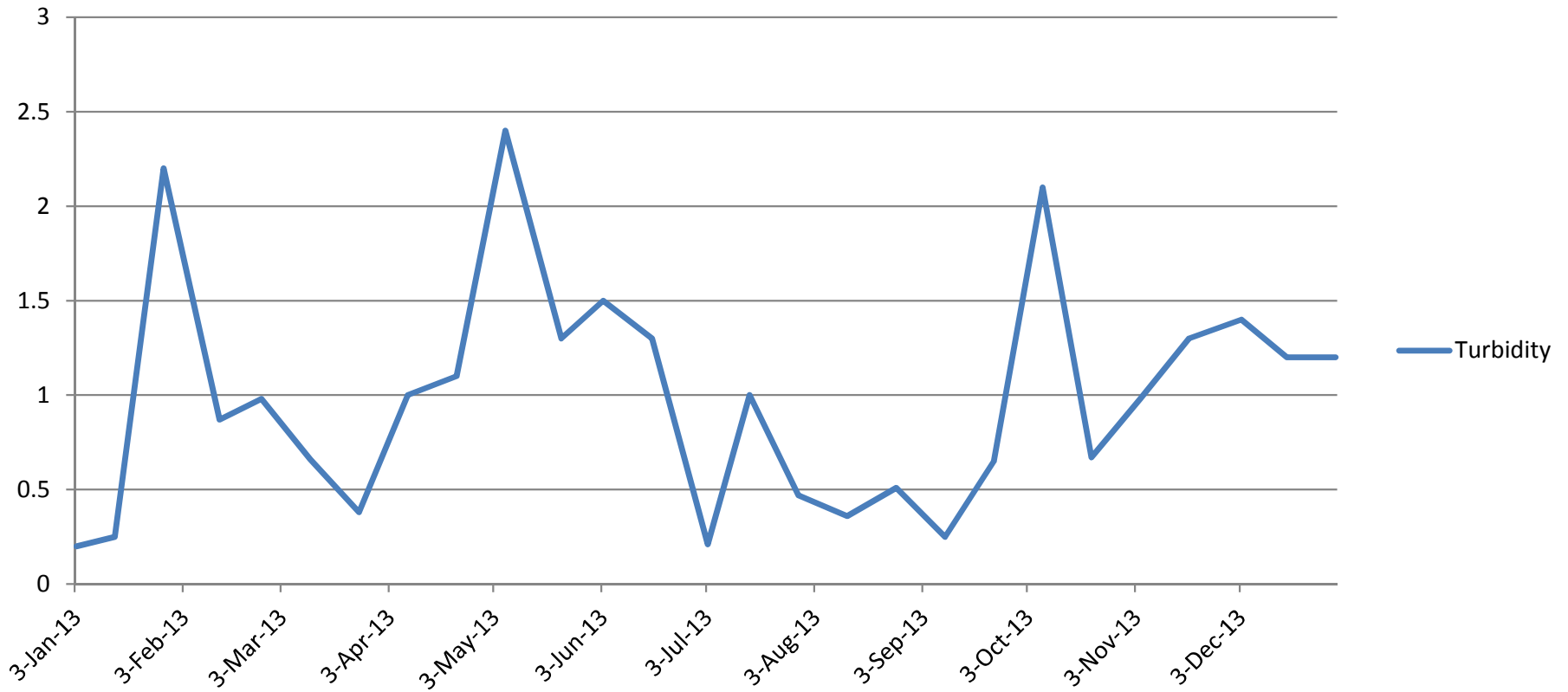
Montizambert Creek Source Water Bacteriological Results

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Turbidity NTU	Temperature °C	Total Coliform MPN/100 mLs	Ecoli MPN/100 mLs	HPC CFU/mls
WMZ-CK1	Grab	Montizambert Creek Source Water	3-Jan-13	0.2	4	19	1	180
WMZ-CK1	Grab	Montizambert Creek Source Water	14-Jan-13	0.25	3	14	<1	140
WMZ-CK1	Grab	Montizambert Creek Source Water	28-Jan-13	2.2	7	5	<1	110
WMZ-CK1	Grab	Montizambert Creek Source Water	13-Feb-13	0.87	5	27	1	210
WMZ-CK1	Grab	Montizambert Creek Source Water	25-Feb-13	0.98	6	18	<1	230
WMZ-CK1	Grab	Montizambert Creek Source Water	11-Mar-13	0.66	5	8	<1	240
WMZ-CK1	Grab	Montizambert Creek Source Water	25-Mar-13	0.38	5	6	<1	140
WMZ-CK1	Grab	Montizambert Creek Source Water	8-Apr-13	1	6	17	<1	220
WMZ-CK1	Grab	Montizambert Creek Source Water	22-Apr-13	1.1	5	12	<1	140
WMZ-CK1	Grab	Montizambert Creek Source Water	6-May-13	2.4	9	17	<1	200
WMZ-CK1	Grab	Montizambert Creek Source Water	22-May-13	1.3	9	33	<1	190
WMZ-CK1	Grab	Montizambert Creek Source Water	3-Jun-13	1.5	9	69	1	110
WMZ-CK1	Grab	Montizambert Creek Source Water	17-Jun-13	1.3	11	150	<1	180
WMZ-CK1	Grab	Montizambert Creek Source Water	3-Jul-13	0.21	12	230	<1	LA
WMZ-CK1	Grab	Montizambert Creek Source Water	15-Jul-13	1	12	310	<1	120
WMZ-CK1	Grab	Montizambert Creek Source Water	29-Jul-13	0.47	13	200	<1	250
WMZ-CK1	Grab	Montizambert Creek Source Water	12-Aug-13	0.36	12	320	2	300
WMZ-CK1	Grab	Montizambert Creek Source Water	26-Aug-13	0.51	14	140	2	96
WMZ-CK1	Grab	Montizambert Creek Source Water	9-Sep-13	0.25	6	330	4	420
WMZ-CK1	Grab	Montizambert Creek Source Water	23-Sep-13	0.65	13	470	16	1300
WMZ-CK1	Grab	Montizambert Creek Source Water	7-Oct-13	2.1	10	150	2	290
WMZ-CK1	Grab	Montizambert Creek Source Water	21-Oct-13	0.67	6	35	<1	100
WMZ-CK1	Grab	Montizambert Creek Source Water	4-Nov-13	0.98	9	40	<1	220
WMZ-CK1	Grab	Montizambert Creek Source Water	18-Nov-13	1.3	9	29	<1	110
WMZ-CK1	Grab	Montizambert Creek Source Water	3-Dec-13	1.4	5	50	<1	94
WMZ-CK1	Grab	Montizambert Creek Source Water	16-Dec-13	1.2	5	29	<1	200
WMZ-CK1	Grab	Montizambert Creek Source Water	30-Dec-13	1.2	6	20	2	NA

Montizambert Source Water Temperature °C



Montizambert Source Water Turbidity (ntu)



Source Water Chemistry

Sample Location	Sample Type	Sampled Date	Health Canada																																														
			Alkalinity as CaCO3 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 umhos/cm	Copper Total mg/L	Cyanide Total mg/L	Fluoride mg/L	Hardness as CaCO3 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	Phenol mg/L	Phosphorus Reactive mg/L	Phosphorus Total mg/L	Potassium Total mg/L	Residue Total Dissolved mg/L	Residue Total Fixed mg/L	Residue Total mg/L	Residue Total Volatile mg/L	Selenium Total mg/L	Silica as SiO2 mg/L	Silver Total mg/L	Sodium Total mg/L	Sulphate mg/L	UV Absorbance 254 nm Abs/cm	Zinc Total mg/L
Eagle Lake Source	GRAB	6/4/2012 9:10	2	0.087	0.098	<0.0005	<0.0005	0.003	<0.01	<0.0002	1.01	1.9	1.95	0.9	0.00005	15	13	11	0.001	<0.02	<0.05	3.26	0.029	0.038	<0.0005	0.178	0.0053	0.007	<0.00005	<0.0005	<0.02	<0.01	<0.01	6.2	<0.005	<0.005	<0.005	0.089	14	10	15	5	<0.0005	3.1	<0.0005	0.906	1.1	0.08	<0.003
Eagle Lake Source	GRAB	12/3/2012 8:00	1.8	0.086	0.114	<0.0005	<0.0005	0.003	<0.01	<0.0002	1.2	2.5	2.48	1	<0.00005	17	15	13	0.001	<0.02	<0.05	3.77	0.024	0.068	<0.0005	0.189	0.006	0.008	<0.00005	<0.0005	<0.02	0.05	<0.01	6.3	<0.005	<0.005	0.005	0.098	18	10	18	8	<0.0005	4.1	<0.0005	1.03	1.7	0.094	<0.003
Montizambert Creek Source	GRAB	6/4/2012 8:00	1.6	0.175	0.179	<0.0005	<0.0005	0.002	<0.01	<0.0002	1.06	3.1	3.1	0.5	0.00012	25	23	9	9E-04	<0.02	<0.05	3.23	0.036	0.042	<0.0005	0.143	<0.0005	9E-04	<0.00005	<0.0005	<0.02	0.03	<0.01	6.4	<0.005	<0.005	<0.005	0.079	15	9	17	7	<0.0005	3.3	<0.0005	0.615	1.2	0.141	<0.003
Montizambert Creek Source	GRAB	12/3/2012 9:00	1.8	0.147	0.177	<0.0005	<0.0005	0.002	<0.01	<0.0002	1.17	3.2	3.32	0.7	0.00008	24	22	11	8E-04	<0.02	<0.05	3.59	0.023	0.038	<0.0005	0.16	0.0008	0.002	<0.00005	<0.0005	<0.02	0.02	<0.01	6.3	<0.005	<0.005	<0.005	0.092	16	9	18	9	<0.0005	3.8	<0.0005	0.717	1.2	0.136	<0.003

APPENDIX C

1. By-station Municipal Drinking Water Summary Report – 2013 (doc 701084)
 - doc #701084 – WEAG data;
 - doc #701084 - WVR data;
 - doc #701084 - WMZ data;
2. Semi Annual Metals Monitoring Results – 2013 (doc 701084)
3. Disinfection byproducts Quarterly Averages – 2013 (doc 701084)

BY STATION WATER SUMMARY REPORT - 2013

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WEAG-710	GRAB	4782 Woodgreen Drive	3-Jan-13	0.29	<1	<2	5	<1	0.12
WEAG-710	GRAB	4782 Woodgreen Drive	28-Jan-13	0.66	<1	2	6	<1	0.3
WEAG-710	GRAB	4782 Woodgreen Drive	25-Feb-13	0.7	<1	2	6	<1	<0.06
WEAG-710	GRAB	4782 Woodgreen Drive	25-Mar-13	0.24	<1	2	7	<1	0.1
WEAG-710	GRAB	4782 Woodgreen Drive	22-Apr-13	0.26	<1	4	8	<1	0.09
WEAG-710	GRAB	4782 Woodgreen Drive	22-May-13	0.85	<1	<2	14	<1	0.21
WEAG-710	GRAB	4782 Woodgreen Drive	17-Jun-13	0.72	<1	<2	16	<1	0.09
WEAG-710	GRAB	4782 Woodgreen Drive	15-Jul-13	0.89	<1	2	16	<1	0.5
WEAG-710	GRAB	4782 Woodgreen Drive	12-Aug-13	0.55	<1	48	15	<1	0.14
WEAG-710	GRAB	4782 Woodgreen Drive	9-Sep-13	0.72	<1	<2	18	<1	0.12
WEAG-710	GRAB	4782 Woodgreen Drive	7-Oct-13	0.8	<1	72	12	<1	0.14
WEAG-710	GRAB	4782 Woodgreen Drive	4-Nov-13	1.2	<1	4	13	<1	0.09
WEAG-710	GRAB	4782 Woodgreen Drive	3-Dec-13	0.72	<1	4	8	<1	0.11
WEAG-710	GRAB	4782 Woodgreen Drive	30-Dec-13	0.89	<1	NA	7	<1	0.07
WEAG-716	GRAB	The Dale & Marine	3-Jan-13	0.21	<1	8	6	<1	0.11
WEAG-716	GRAB	The Dale & Marine	14-Jan-13	0.45	<1	<2	6	<1	0.17
WEAG-716	GRAB	The Dale & Marine	28-Jan-13	0.48	<1	<2	6	<1	0.1
WEAG-716	GRAB	The Dale & Marine	13-Feb-13	0.49	<1	2	6.5	<1	0.38
WEAG-716	GRAB	The Dale & Marine	25-Feb-13	0.39	<1	<2	7	<1	<0.06
WEAG-716	GRAB	The Dale & Marine	11-Mar-13	0.22	<1	<2	8	<1	0.13
WEAG-716	GRAB	The Dale & Marine	25-Mar-13	0.31	<1	2	8	<1	0.1
WEAG-716	GRAB	The Dale & Marine	8-Apr-13	0.37	<1	<2	11	<1	0.09
WEAG-716	GRAB	The Dale & Marine	22-Apr-13	0.2	<1	<2	9	<1	0.1
WEAG-716	GRAB	The Dale & Marine	6-May-13	0.34	<1	2	13	<1	0.07
WEAG-716	GRAB	The Dale & Marine	22-May-13	0.26	<1	6	14	<1	0.06
WEAG-716	GRAB	The Dale & Marine	3-Jun-13	0.34	<1	10	15	<1	0.09
WEAG-716	GRAB	The Dale & Marine	17-Jun-13	0.37	<1	8	15	<1	0.24
WEAG-716	GRAB	The Dale & Marine	3-Jul-13	0.68	<1	<2	17	<1	0.11
WEAG-716	GRAB	The Dale & Marine	15-Jul-13	0.57	<1	10	16	<1	0.13
WEAG-716	GRAB	The Dale & Marine	29-Jul-13	0.78	<1	2	15	<1	0.28
WEAG-716	GRAB	The Dale & Marine	12-Aug-13	0.34	<1	16	19	<1	0.13
WEAG-716	GRAB	The Dale & Marine	26-Aug-13	0.22	<1	20	18	<1	0.55
WEAG-716	GRAB	The Dale & Marine	9-Sep-13	0.4	<1	10	17	<1	0.1
WEAG-716	GRAB	The Dale & Marine	23-Sep-13	0.29	<1	4	17	<1	0.16
WEAG-716	GRAB	The Dale & Marine	7-Oct-13	0.63	<1	6	13	<1	0.17
WEAG-716	GRAB	The Dale & Marine	21-Oct-13	0.41	<1	8	13	<1	0.08
WEAG-716	GRAB	The Dale & Marine	4-Nov-13	0.54	<1	4	12	<1	0.1
WEAG-716	GRAB	The Dale & Marine	18-Nov-13	0.64	<1	4	10	<1	0.08
WEAG-716	GRAB	The Dale & Marine	3-Dec-13	0.51	<1	2	8	<1	0.19
WEAG-716	GRAB	The Dale & Marine	16-Dec-13	0.63	<1	<2	7	<1	0.3
WEAG-716	GRAB	The Dale & Marine	30-Dec-13	0.72	<1	NA	7	<1	0.12
WEAG-719	GRAB	2600 Chelsea Court	7-Jan-13	0.47	<1	<2	7	<1	0.09
WEAG-719	GRAB	2600 Chelsea Court	21-Jan-13	0.71	<1	<2	5	<1	0.14
WEAG-719	GRAB	2600 Chelsea Court	4-Feb-13	0.56	<1	<2	6	<1	0.06
WEAG-719	GRAB	2600 Chelsea Court	18-Feb-13	0.8	<1	<2	6	<1	0.1
WEAG-719	GRAB	2600 Chelsea Court	4-Mar-13	0.39	<1	<2	8.5	<1	0.06
WEAG-719	GRAB	2600 Chelsea Court	18-Mar-13	0.39	<1	<2	7	<1	0.11
WEAG-719	GRAB	2600 Chelsea Court	3-Apr-13	0.59	<1	<2	10	<1	0.06
WEAG-719	GRAB	2600 Chelsea Court	15-Apr-13	0.68	<1	2	9	<1	0.07

BY STATION WATER SUMMARY REPORT - 2013

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WEAG-719	GRAB	2600 Chelsea Court	29-Apr-13	0.67	<1	52	11	<1	0.14
WEAG-719	GRAB	2600 Chelsea Court	13-May-13	0.7	<1	<2	10	<1	0.09
WEAG-719	GRAB	2600 Chelsea Court	27-May-13	0.58	<1	2	13	<1	<0.06
WEAG-719	GRAB	2600 Chelsea Court	10-Jun-13	0.65	<1	<2	15	<1	0.17
WEAG-719	GRAB	2600 Chelsea Court	24-Jun-13	0.71	<1	<2	13	<1	<0.06
WEAG-719	GRAB	2600 Chelsea Court	8-Jul-13	0.92	<1	<2	12	<1	0.08
WEAG-719	GRAB	2600 Chelsea Court	22-Jul-13	0.68	<1	<2	12	<1	0.18
WEAG-719	GRAB	2600 Chelsea Court	7-Aug-13	0.53	<1	<2	12	<1	0.12
WEAG-719	GRAB	2600 Chelsea Court	19-Aug-13	0.44	<1	<2	15	<1	0.09
WEAG-719	GRAB	2600 Chelsea Court	4-Sep-13	0.58	<1	<2	18	<1	0.08
WEAG-719	GRAB	2600 Chelsea Court	16-Sep-13	0.58	<1	<2	17	<1	0.09
WEAG-719	GRAB	2600 Chelsea Court	30-Sep-13	0.73	<1	<2	12	<1	0.08
WEAG-719	GRAB	2600 Chelsea Court	16-Oct-13	0.32	<1	<2	14	<1	0.13
WEAG-719	GRAB	2600 Chelsea Court	28-Oct-13	0.78	<1	<2	13	<1	0.08
WEAG-719	GRAB	2600 Chelsea Court	13-Nov-13	0.39	<1	<2	11	<1	0.1
WEAG-719	GRAB	2600 Chelsea Court	25-Nov-13	0.98	<1	<2	9	<1	0.11
WEAG-719	GRAB	2600 Chelsea Court	9-Dec-13	0.77	<1	<2	6	<1	0.14
WEAG-719	GRAB	2600 Chelsea Court	23-Dec-13	0.68	<1	NA	7	<1	0.1
WEAG-765	GRAB	5459 West Vista Court	14-Jan-13	0.47	<1	<2	5	<1	0.29
WEAG-765	GRAB	5459 West Vista Court	13-Feb-13	0.53	<1	8	7	<1	0.09
WEAG-765	GRAB	5459 West Vista Court	11-Mar-13	0.45	<1	24	8	<1	0.08
WEAG-765	GRAB	5459 West Vista Court	8-Apr-13	0.48	<1	<2	10	<1	0.06
WEAG-765	GRAB	5459 West Vista Court	6-May-13	0.51	<1	<2	13	<1	0.07
WEAG-765	GRAB	5459 West Vista Court	3-Jun-13	0.38	<1	6	14	<1	0.21
WEAG-765	GRAB	5459 West Vista Court	3-Jul-13	0.58	<1	<2	17	<1	0.11
WEAG-765	GRAB	5459 West Vista Court	29-Jul-13	0.74	<1	14	16	<1	0.09
WEAG-765	GRAB	5459 West Vista Court	26-Aug-13	0.26	<1	26	18	<1	0.15
WEAG-765	GRAB	5459 West Vista Court	23-Sep-13	0.35	<1	12	17	<1	0.24
WEAG-765	GRAB	5459 West Vista Court	21-Oct-13	0.39	<1	10	15	<1	0.12
WEAG-765	GRAB	5459 West Vista Court	18-Nov-13	0.71	<1	14	10	<1	0.16
WEAG-765	GRAB	5459 West Vista Court	16-Dec-13	0.68	<1	<2	7	<1	0.15
WEAG-768	GRAB	2185 Gisby Street	21-Jan-13	0.81	<1	<2	5	<1	0.07
WEAG-768	GRAB	2185 Gisby Street	18-Feb-13	0.77	<1	<2	6	<1	0.09
WEAG-768	GRAB	2185 Gisby Street	18-Mar-13	0.44	<1	<2	7	<1	0.06
WEAG-768	GRAB	2185 Gisby Street	15-Apr-13	0.54	<1	<2	10	<1	0.08
WEAG-768	GRAB	2185 Gisby Street	13-May-13	0.29	<1	<2	9	<1	0.14
WEAG-768	GRAB	2185 Gisby Street	10-Jun-13	0.6	<1	<2	13	<1	0.34
WEAG-768	GRAB	2185 Gisby Street	8-Jul-13	0.95	<1	2	12	<1	0.2
WEAG-768	GRAB	2185 Gisby Street	7-Aug-13	0.7	<1	4	12	<1	0.28
WEAG-768	GRAB	2185 Gisby Street	4-Sep-13	0.85	<1	<2	19	<1	0.12
WEAG-768	GRAB	2185 Gisby Street	30-Sep-13	0.36	<1	14	16	<1	0.13
WEAG-768	GRAB	2185 Gisby Street	28-Oct-13	0.86	<1	2	12	<1	0.08
WEAG-768	GRAB	2185 Gisby Street	25-Nov-13	1.2	<1	<2	10	<1	0.12
WEAG-768	GRAB	2185 Gisby Street	23-Dec-13	1.1	<1	NA	6	<1	0.1
WEAG-769	GRAB	1210 Chartwell Drive	3-Jan-13	0.34	<1	<2	7	<1	0.15
WEAG-769	GRAB	1210 Chartwell Drive	28-Jan-13	0.42	<1	2	6	<1	0.1
WEAG-769	GRAB	1210 Chartwell Drive	25-Feb-13	0.6	<1	6	7	<1	0.06
WEAG-769	GRAB	1210 Chartwell Drive	25-Mar-13	0.43	<1	<2	8	<1	0.09
WEAG-769	GRAB	1210 Chartwell Drive	22-Apr-13	0.27	<1	2	8	<1	0.1

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WEAG-769	GRAB	1210 Chartwell Drive	22-May-13	0.67	<1	<2	13	<1	0.34
WEAG-769	GRAB	1210 Chartwell Drive	17-Jun-13	0.74	<1	8	15	<1	0.25
WEAG-769	GRAB	1210 Chartwell Drive	15-Jul-13	1.1	<1	<2	15	<1	1.1
WEAG-769	GRAB	1210 Chartwell Drive	12-Aug-13	0.46	<1	10	19	<1	0.26
WEAG-769	GRAB	1210 Chartwell Drive	9-Sep-13	0.49	<1	6	18	<1	0.13
WEAG-769	GRAB	1210 Chartwell Drive	7-Oct-13	0.58	<1	6	14	<1	0.14
WEAG-769	GRAB	1210 Chartwell Drive	4-Nov-13	0.74	<1	<2	12	<1	0.13
WEAG-769	GRAB	1210 Chartwell Drive	3-Dec-13	0.75	<1	<2	8	<1	0.12
WEAG-769	GRAB	1210 Chartwell Drive	30-Dec-13	0.78	<1	NA	8	<1	0.06
WEAG-770	GRAB	3828 Bayridge Avenue	3-Jan-13	0.87	<1	<2	5	<1	0.09
WEAG-770	GRAB	3828 Bayridge Avenue	14-Jan-13	0.95	<1	<2	4	<1	0.07
WEAG-770	GRAB	3828 Bayridge Avenue	28-Jan-13	0.73	<1	<2	6	<1	0.1
WEAG-770	GRAB	3828 Bayridge Avenue	13-Feb-13	0.75	<1	<2	6	<1	0.06
WEAG-770	GRAB	3828 Bayridge Avenue	25-Feb-13	1.1	<1	<2	5.5	<1	<0.06
WEAG-770	GRAB	3828 Bayridge Avenue	11-Mar-13	0.63	<1	<2	8	<1	0.11
WEAG-770	GRAB	3828 Bayridge Avenue	25-Mar-13	0.79	<1	<2	7	<1	0.11
WEAG-770	GRAB	3828 Bayridge Avenue	8-Apr-13	0.57	<1	<2	10	<1	0.06
WEAG-770	GRAB	3828 Bayridge Avenue	22-Apr-13	0.3	<1	<2	8	<1	0.07
WEAG-770	GRAB	3828 Bayridge Avenue	6-May-13	0.56	<1	<2	14	<1	0.1
WEAG-770	GRAB	3828 Bayridge Avenue	22-May-13	0.35	<1	<2	13	<1	0.32
WEAG-770	GRAB	3828 Bayridge Avenue	3-Jun-13	0.29	<1	2	14	<1	0.26
WEAG-770	GRAB	3828 Bayridge Avenue	17-Jun-13	0.58	<1	<2	14	<1	0.23
WEAG-770	GRAB	3828 Bayridge Avenue	3-Jul-13	0.79	<1	2	16	<1	0.1
WEAG-770	GRAB	3828 Bayridge Avenue	15-Jul-13	0.9	<1	4	15	<1	0.11
WEAG-770	GRAB	3828 Bayridge Avenue	29-Jul-13	0.89	<1	2	16	<1	0.17
WEAG-770	GRAB	3828 Bayridge Avenue	12-Aug-13	0.69	<1	<2	19	<1	0.15
WEAG-770	GRAB	3828 Bayridge Avenue	26-Aug-13	0.79	<1	4	18	<1	0.16
WEAG-770	GRAB	3828 Bayridge Avenue	9-Sep-13	0.23	<1	<2	18	<1	0.08
WEAG-770	GRAB	3828 Bayridge Avenue	23-Sep-13	0.48	<1	42	17	<1	0.18
WEAG-770	GRAB	3828 Bayridge Avenue	7-Oct-13	0.26	<1	56	14	<1	0.1
WEAG-770	GRAB	3828 Bayridge Avenue	21-Oct-13	0.21	<1	10	13	<1	0.17
WEAG-770	GRAB	3828 Bayridge Avenue	4-Nov-13	0.25	<1	2	12	<1	0.12
WEAG-770	GRAB	3828 Bayridge Avenue	18-Nov-13	0.35	<1	<2	10	<1	0.07
WEAG-770	GRAB	3828 Bayridge Avenue	3-Dec-13	1.1	<1	2	8	<1	0.09
WEAG-770	GRAB	3828 Bayridge Avenue	16-Dec-13	0.77	<1	<2	6	<1	0.13
WEAG-770	GRAB	3828 Bayridge Avenue	30-Dec-13	0.46	<1	NA	7	<1	0.11
WEAG-771	GRAB	6588 Royal Ave.	3-Jan-13	0.56	<1	10	6	<1	0.16
WEAG-771	GRAB	6588 Royal Ave.	14-Jan-13	0.68	<1	24	8	<1	0.08
WEAG-771	GRAB	6588 Royal Ave.	28-Jan-13	0.68	<1	<2	7	<1	0.11
WEAG-771	GRAB	6588 Royal Ave.	13-Feb-13	0.55	<1	<2	7	<1	0.09
WEAG-771	GRAB	6588 Royal Ave.	25-Feb-13	0.55	<1	<2	7	<1	0.08
WEAG-771	GRAB	6588 Royal Ave.	11-Mar-13	0.22	<1	10	7	<1	0.17
WEAG-771	GRAB	6588 Royal Ave.	25-Mar-13	0.27	<1	40	8	<1	0.14
WEAG-771	GRAB	6588 Royal Ave.	8-Apr-13	0.43	<1	12	10	<1	0.14
WEAG-771	GRAB	6588 Royal Ave.	22-Apr-13	0.6	<1	140	6	<1	0.07
WEAG-771	GRAB	6588 Royal Ave.	6-May-13	0.43	<1	2	12	<1	0.11
WEAG-771	GRAB	6588 Royal Ave.	22-May-13	0.48	<1	12	14	<1	0.15
WEAG-771	GRAB	6588 Royal Ave.	3-Jun-13	0.48	<1	<2	14	<1	0.1
WEAG-771	GRAB	6588 Royal Ave.	17-Jun-13	0.47	<1	4	16	<1	0.28

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WEAG-771	GRAB	6588 Royal Ave.	3-Jul-13	0.45	<1	240	17	<1	0.29
WEAG-771	GRAB	6588 Royal Ave.	15-Jul-13	0.23	<1	58	13	<1	0.15
WEAG-771	GRAB	6588 Royal Ave.	29-Jul-13	0.38	<1	86	16	<1	0.09
WEAG-771	GRAB	6588 Royal Ave.	12-Aug-13	0.2	<1	100	16	<1	0.15
WEAG-771	GRAB	6588 Royal Ave.	26-Aug-13	0.24	<1	58	16	<1	0.09
WEAG-771	GRAB	6588 Royal Ave.	9-Sep-13	0.38	<1	<2	19	<1	0.13
WEAG-771	GRAB	6588 Royal Ave.	23-Sep-13	0.46	<1	<2	17	<1	0.15
WEAG-771	GRAB	6588 Royal Ave.	7-Oct-13	0.69	<1	210	13	<1	0.15
WEAG-771	GRAB	6588 Royal Ave.	21-Oct-13	0.3	<1	6	14	<1	0.1
WEAG-771	GRAB	6588 Royal Ave.	4-Nov-13	0.48	<1	<2	12	<1	0.13
WEAG-771	GRAB	6588 Royal Ave.	18-Nov-13	0.71	<1	4	11	<1	0.16
WEAG-771	GRAB	6588 Royal Ave.	3-Dec-13	0.62	<1	4	8	<1	0.25
WEAG-771	GRAB	6588 Royal Ave.	16-Dec-13	0.61	<1	<2	8	<1	0.14
WEAG-771	GRAB	6588 Royal Ave.	30-Dec-13	0.48	<1	NA	7	<1	0.29
WEAG-772	GRAB	6470 Madrona Crescent	3-Jan-13	0.7	<1	<2	5	<1	0.09
WEAG-772	GRAB	6470 Madrona Crescent	14-Jan-13	0.87	<1	<2	5	<1	0.09
WEAG-772	GRAB	6470 Madrona Crescent	28-Jan-13	0.78	<1	<2	7	<1	0.5
WEAG-772	GRAB	6470 Madrona Crescent	13-Feb-13	0.72	<1	2	6	<1	0.22
WEAG-772	GRAB	6470 Madrona Crescent	25-Feb-13	0.96	<1	<2	7	<1	0.06
WEAG-772	GRAB	6470 Madrona Crescent	11-Mar-13	0.66	<1	2	7	<1	0.17
WEAG-772	GRAB	6470 Madrona Crescent	25-Mar-13	0.55	<1	<2	7	<1	0.11
WEAG-772	GRAB	6470 Madrona Crescent	8-Apr-13	0.55	<1	<2	10	<1	0.08
WEAG-772	GRAB	6470 Madrona Crescent	22-Apr-13	0.36	<1	<2	8	<1	0.13
WEAG-772	GRAB	6470 Madrona Crescent	6-May-13	0.62	<1	<2	12	<1	0.08
WEAG-772	GRAB	6470 Madrona Crescent	22-May-13	0.56	<1	2	13	<1	0.08
WEAG-772	GRAB	6470 Madrona Crescent	3-Jun-13	0.61	<1	40	13	<1	0.18
WEAG-772	GRAB	6470 Madrona Crescent	17-Jun-13	0.61	<1	4	15	<1	0.16
WEAG-772	GRAB	6470 Madrona Crescent	3-Jul-13	0.72	<1	<2	17	<1	0.2
WEAG-772	GRAB	6470 Madrona Crescent	15-Jul-13	0.35	<1	<2	15	<1	0.16
WEAG-772	GRAB	6470 Madrona Crescent	29-Jul-13	0.84	<1	<2	15	<1	0.27
WEAG-772	GRAB	6470 Madrona Crescent	12-Aug-13	0.36	<1	<2	15	<1	0.16
WEAG-772	GRAB	6470 Madrona Crescent	26-Aug-13	0.33	<1	6	15	<1	0.13
WEAG-772	GRAB	6470 Madrona Crescent	9-Sep-13	0.58	<1	2	17	<1	0.19
WEAG-772	GRAB	6470 Madrona Crescent	23-Sep-13	0.64	<1	2	16	<1	0.45
WEAG-772	GRAB	6470 Madrona Crescent	7-Oct-13	0.94	<1	<2	12	<1	0.14
WEAG-772	GRAB	6470 Madrona Crescent	21-Oct-13	0.89	<1	<2	13	<1	0.31
WEAG-772	GRAB	6470 Madrona Crescent	4-Nov-13	0.73	<1	<2	11	<1	0.1
WEAG-772	GRAB	6470 Madrona Crescent	18-Nov-13	0.78	<1	<2	10	<1	0.14
WEAG-772	GRAB	6470 Madrona Crescent	3-Dec-13	0.81	<1	<2	7	<1	0.11
WEAG-772	GRAB	6470 Madrona Crescent	16-Dec-13	0.75	<1	<2	7	<1	0.17
WEAG-772	GRAB	6470 Madrona Crescent	30-Dec-13	0.81	<1	NA	7	<1	0.25
WEAG-774	GRAB	6117 Gleneagles Drive	3-Jan-13	0.72	<1	<2	6	<1	0.14
WEAG-774	GRAB	6117 Gleneagles Drive	14-Jan-13	0.73	<1	6	5	<1	0.09
WEAG-774	GRAB	6117 Gleneagles Drive	28-Jan-13	0.74	<1	4	6	<1	0.12
WEAG-774	GRAB	6117 Gleneagles Drive	13-Feb-13	0.75	<1	<2	6	<1	0.07
WEAG-774	GRAB	6117 Gleneagles Drive	25-Feb-13	0.67	<1	<2	6.5	<1	<0.06
WEAG-774	GRAB	6117 Gleneagles Drive	11-Mar-13	0.61	<1	<2	7	<1	0.06
WEAG-774	GRAB	6117 Gleneagles Drive	25-Mar-13	0.57	<1	<2	8	<1	0.07
WEAG-774	GRAB	6117 Gleneagles Drive	8-Apr-13	0.58	<1	<2	10	<1	0.11

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WEAG-774	GRAB	6117 Gleneagles Drive	22-Apr-13	0.35	<1	2	8	<1	0.08
WEAG-774	GRAB	6117 Gleneagles Drive	6-May-13	0.57	<1	<2	13	<1	0.09
WEAG-774	GRAB	6117 Gleneagles Drive	22-May-13	0.42	<1	<2	14	<1	0.1
WEAG-774	GRAB	6117 Gleneagles Drive	3-Jun-13	0.52	<1	2	14	<1	0.09
WEAG-774	GRAB	6117 Gleneagles Drive	17-Jun-13	0.54	<1	<2	15	<1	0.1
WEAG-774	GRAB	6117 Gleneagles Drive	3-Jul-13	0.52	<1	10	17	<1	0.26
WEAG-774	GRAB	6117 Gleneagles Drive	15-Jul-13	0.8	<1	<2	16	<1	0.13
WEAG-774	GRAB	6117 Gleneagles Drive	29-Jul-13	0.68	<1	2	16	<1	0.1
WEAG-774	GRAB	6117 Gleneagles Drive	12-Aug-13	0.47	<1	<2	18	<1	0.1
WEAG-774	GRAB	6117 Gleneagles Drive	26-Aug-13	0.33	<1	8	17	<1	0.1
WEAG-774	GRAB	6117 Gleneagles Drive	9-Sep-13	0.53	<1	<2	18	<1	0.1
WEAG-774	GRAB	6117 Gleneagles Drive	23-Sep-13	0.52	<1	8	17	<1	0.1
WEAG-774	GRAB	6117 Gleneagles Drive	7-Oct-13	0.99	<1	<2	13	<1	0.18
WEAG-774	GRAB	6117 Gleneagles Drive	21-Oct-13	0.89	<1	2	13	<1	0.08
WEAG-774	GRAB	6117 Gleneagles Drive	4-Nov-13	0.69	<1	<2	12	<1	0.12
WEAG-774	GRAB	6117 Gleneagles Drive	18-Nov-13	0.72	<1	30	10	<1	0.12
WEAG-774	GRAB	6117 Gleneagles Drive	3-Dec-13	0.74	<1	<2	8	<1	0.07
WEAG-774	GRAB	6117 Gleneagles Drive	16-Dec-13	0.68	<1	<2	7	<1	0.17
WEAG-774	GRAB	6117 Gleneagles Drive	30-Dec-13	0.69	<1	NA	7	<1	0.19
WEAG-776	GRAB	3755 Cypress Bowl Road	3-Jan-13	0.29	<1	<2	5	<1	0.2
WEAG-776	GRAB	3755 Cypress Bowl Road	28-Jan-13	0.49	<1	<2	6	<1	0.09
WEAG-776	GRAB	3755 Cypress Bowl Road	25-Feb-13	0.63	<1	<2	6.5	<1	<0.06
WEAG-776	GRAB	3755 Cypress Bowl Road	25-Mar-13	0.4	<1	2	8	<1	0.08
WEAG-776	GRAB	3755 Cypress Bowl Road	22-Apr-13	0.2	<1	2	8	<1	0.08
WEAG-776	GRAB	3755 Cypress Bowl Road	22-May-13	0.39	<1	2	14	<1	0.08
WEAG-776	GRAB	3755 Cypress Bowl Road	17-Jun-13	0.32	<1	<2	16	<1	0.1
WEAG-776	GRAB	3755 Cypress Bowl Road	15-Jul-13	0.36	<1	6	14	<1	0.12
WEAG-776	GRAB	3755 Cypress Bowl Road	12-Aug-13	0.2	<1	30	20	<1	0.1
WEAG-776	GRAB	3755 Cypress Bowl Road	9-Sep-13	0.24	<1	<2	19	<1	0.15
WEAG-776	GRAB	3755 Cypress Bowl Road	7-Oct-13	0.2	<1	70	13	<1	0.16
WEAG-776	GRAB	3755 Cypress Bowl Road	4-Nov-13	0.71	<1	<2	12	<1	0.18
WEAG-776	GRAB	3755 Cypress Bowl Road	3-Dec-13	0.84	<1	<2	8	<1	0.12
WEAG-776	GRAB	3755 Cypress Bowl Road	30-Dec-13	0.67	<1	NA	7	<1	0.06
WEAG-778	GRAB	6190 Marine Drive	3-Jan-13	0.84	<1	<2	5	<1	0.27
WEAG-778	GRAB	6190 Marine Drive	14-Jan-13	0.85	<1	<2	5	<1	0.09
WEAG-778	GRAB	6190 Marine Drive	28-Jan-13	0.74	<1	<2	5	<1	0.24
WEAG-778	GRAB	6190 Marine Drive	13-Feb-13	0.69	<1	<2	6	<1	0.07
WEAG-778	GRAB	6190 Marine Drive	25-Feb-13	0.83	<1	<2	6	<1	1.1
WEAG-778	GRAB	6190 Marine Drive	11-Mar-13	0.78	<1	<2	7	<1	0.21
WEAG-778	GRAB	6190 Marine Drive	25-Mar-13	0.54	<1	<2	7	<1	0.14
WEAG-778	GRAB	6190 Marine Drive	8-Apr-13	0.61	<1	<2	9	<1	0.06
WEAG-778	GRAB	6190 Marine Drive	22-Apr-13	0.44	<1	<2	7	<1	0.12
WEAG-778	GRAB	6190 Marine Drive	6-May-13	0.71	<1	<2	13	<1	0.09
WEAG-778	GRAB	6190 Marine Drive	22-May-13	0.61	<1	<2	14	<1	0.1
WEAG-778	GRAB	6190 Marine Drive	3-Jun-13	0.64	<1	2	14	<1	0.07
WEAG-778	GRAB	6190 Marine Drive	17-Jun-13	0.72	<1	<2	15	<1	0.08
WEAG-778	GRAB	6190 Marine Drive	3-Jul-13	0.78	<1	<2	17	<1	0.12
WEAG-778	GRAB	6190 Marine Drive	15-Jul-13	0.93	<1	<2	15	<1	0.16
WEAG-778	GRAB	6190 Marine Drive	29-Jul-13	0.63	<1	<2	16	<1	0.15

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WEAG-778	GRAB	6190 Marine Drive	12-Aug-13	0.5	<1	<2	18	<1	0.11
WEAG-778	GRAB	6190 Marine Drive	26-Aug-13	0.44	<1	4	17	<1	0.14
WEAG-778	GRAB	6190 Marine Drive	9-Sep-13	0.48	<1	<2	17	<1	0.11
WEAG-778	GRAB	6190 Marine Drive	23-Sep-13	0.58	<1	<2	16	<1	1.4
WEAG-778	GRAB	6190 Marine Drive	7-Oct-13	1.1	<1	<2	12	<1	0.21
WEAG-778	GRAB	6190 Marine Drive	21-Oct-13	1.2	<1	2	14	<1	0.12
WEAG-778	GRAB	6190 Marine Drive	4-Nov-13	0.81	<1	4	11	<1	0.1
WEAG-778	GRAB	6190 Marine Drive	18-Nov-13	0.91	<1	<2	10	<1	0.08
WEAG-778	GRAB	6190 Marine Drive	3-Dec-13	0.86	<1	<2	8	<1	0.08
WEAG-778	GRAB	6190 Marine Drive	16-Dec-13	0.9	<1	<2	6	<1	0.2
WEAG-778	GRAB	6190 Marine Drive	30-Dec-13	0.97	<1	NA	7	<1	0.15
WEAG-779	GRAB	1370 Burnside Road	7-Jan-13	0.59	<1	4	5	<1	0.11
WEAG-779	GRAB	1370 Burnside Road	4-Feb-13	0.56	<1	4	6	<1	0.09
WEAG-779	GRAB	1370 Burnside Road	4-Mar-13	0.42	<1	<2	6	<1	<0.06
WEAG-779	GRAB	1370 Burnside Road	3-Apr-13	0.47	<1	<2	9	<1	0.1
WEAG-779	GRAB	1370 Burnside Road	29-Apr-13	0.61	<1	<2	11	<1	0.06
WEAG-779	GRAB	1370 Burnside Road	27-May-13	0.57	<1	2	13	<1	0.12
WEAG-779	GRAB	1370 Burnside Road	24-Jun-13	0.52	<1	<2	13	<1	0.12
WEAG-779	GRAB	1370 Burnside Road	22-Jul-13	1.1	<1	6	12	<1	0.24
WEAG-779	GRAB	1370 Burnside Road	19-Aug-13	0.77	<1	<2	12	<1	0.29
WEAG-779	GRAB	1370 Burnside Road	16-Sep-13	0.57	<1	4	17	<1	0.11
WEAG-779	GRAB	1370 Burnside Road	16-Oct-13	0.61	<1	2	14	<1	0.13
WEAG-779	GRAB	1370 Burnside Road	13-Nov-13	0.63	<1	2	10	<1	0.1
WEAG-779	GRAB	1370 Burnside Road	9-Dec-13	0.78	<1	<2	7	<1	0.18
WEAG-780	GRAB	5634 Westhaven Road	14-Jan-13	0.63	<1	8	6	<1	0.07
WEAG-780	GRAB	5634 Westhaven Road	13-Feb-13	0.63	<1	2	7	<1	0.1
WEAG-780	GRAB	5634 Westhaven Road	11-Mar-13	0.59	<1	<2	7	<1	0.13
WEAG-780	GRAB	5634 Westhaven Road	8-Apr-13	0.54	<1	4	10	<1	0.06
WEAG-780	GRAB	5634 Westhaven Road	6-May-13	0.66	<1	4	12	<1	0.12
WEAG-780	GRAB	5634 Westhaven Road	3-Jun-13	0.68	<1	<2	14	<1	0.14
WEAG-780	GRAB	5634 Westhaven Road	3-Jul-13	0.81	<1	4	16	<1	0.11
WEAG-780	GRAB	5634 Westhaven Road	29-Jul-13	0.77	<1	<2	15	<1	0.17
WEAG-780	GRAB	5634 Westhaven Road	26-Aug-13	0.33	<1	<2	18	<1	0.1
WEAG-780	GRAB	5634 Westhaven Road	23-Sep-13	0.56	<1	<2	16	<1	0.65
WEAG-780	GRAB	5634 Westhaven Road	21-Oct-13	0.52	<1	4	14	<1	0.07
WEAG-780	GRAB	5634 Westhaven Road	18-Nov-13	0.88	<1	<2	10	<1	0.1
WEAG-780	GRAB	5634 Westhaven Road	16-Dec-13	0.81	<1	4	7	<1	0.12
WEAG-783	GRAB	4520 Almondel Place	3-Jan-13	0.68	<1	<2	5	<1	0.06
WEAG-783	GRAB	4520 Almondel Place	28-Jan-13	0.7	<1	<2	5	<1	0.2
WEAG-783	GRAB	4520 Almondel Place	25-Feb-13	0.62	<1	<2	5.5	<1	0.13
WEAG-783	GRAB	4520 Almondel Place	25-Mar-13	0.53	<1	2	8	<1	0.06
WEAG-783	GRAB	4520 Almondel Place	22-Apr-13	0.36	<1	4	8	<1	0.08
WEAG-783	GRAB	4520 Almondel Place	22-May-13	0.58	<1	6	13	<1	0.08
WEAG-783	GRAB	4520 Almondel Place	17-Jun-13	0.64	<1	<2	15	<1	0.08
WEAG-783	GRAB	4520 Almondel Place	15-Jul-13	1.1	<1	<2	16	<1	0.1
WEAG-783	GRAB	4520 Almondel Place	12-Aug-13	0.59	<1	6	20	<1	0.2
WEAG-783	GRAB	4520 Almondel Place	9-Sep-13	0.71	<1	<2	16	<1	0.11
WEAG-783	GRAB	4520 Almondel Place	7-Oct-13	0.81	<1	<2	13	<1	0.1
WEAG-783	GRAB	4520 Almondel Place	4-Nov-13	0.77	<1	<2	11	<1	0.09

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WEAG-783	GRAB	4520 Almondel Place	3-Dec-13	0.9	<1	24	8	<1	0.09
WEAG-783	GRAB	4520 Almondel Place	30-Dec-13	0.92	<1	NA	7	<1	0.07
WEAG-784	GRAB	5759 Primrose Place	14-Jan-13	0.47	<1	6	5	<1	0.23
WEAG-784	GRAB	5759 Primrose Place	13-Feb-13	0.47	<1	2	6	<1	0.07
WEAG-784	GRAB	5759 Primrose Place	11-Mar-13	0.21	<1	1400	7	<1	0.14
WEAG-784	GRAB	5759 Primrose Place	8-Apr-13	0.32	<1	<2	11	<1	0.06
WEAG-784	GRAB	5759 Primrose Place	6-May-13	0.41	<1	2	13	<1	0.09
WEAG-784	GRAB	5759 Primrose Place	3-Jun-13	0.39	<1	4	14	<1	0.11
WEAG-784	GRAB	5759 Primrose Place	3-Jul-13	0.56	<1	4	17	<1	0.12
WEAG-784	GRAB	5759 Primrose Place	29-Jul-13	0.89	<1	<2	15	<1	0.09
WEAG-784	GRAB	5759 Primrose Place	26-Aug-13	0.21	<1	56	17	<1	0.11
WEAG-784	GRAB	5759 Primrose Place	23-Sep-13	0.31	<1	2	17	<1	0.38
WEAG-784	GRAB	5759 Primrose Place	21-Oct-13	0.42	<1	<2	14	<1	0.07
WEAG-784	GRAB	5759 Primrose Place	18-Nov-13	0.64	<1	<2	10	<1	0.24
WEAG-784	GRAB	5759 Primrose Place	16-Dec-13	0.72	<1	<2	7	<1	0.1
WEAG-785	GRAB	4820 Headland Drive	14-Jan-13	0.68	<1	4	4	<1	0.06
WEAG-785	GRAB	4820 Headland Drive	13-Feb-13	0.6	<1	<2	6	<1	0.78
WEAG-785	GRAB	4820 Headland Drive	11-Mar-13	0.44	<1	4	8	<1	0.18
WEAG-785	GRAB	4820 Headland Drive	8-Apr-13	0.42	<1	74	11	<1	0.93
WEAG-785	GRAB	4820 Headland Drive	6-May-13	0.48	<1	8	13	<1	0.11
WEAG-785	GRAB	4820 Headland Drive	3-Jun-13	0.46	<1	30	14	<1	0.12
WEAG-785	GRAB	4820 Headland Drive	3-Jul-13	0.52	<1	22	17	<1	0.29
WEAG-785	GRAB	4820 Headland Drive	29-Jul-13	0.54	<1	12	16	<1	0.6
WEAG-785	GRAB	4820 Headland Drive	26-Aug-13	0.3	<1	16	17	<1	0.11
WEAG-785	GRAB	4820 Headland Drive	23-Sep-13	0.41	<1	26	17	<1	0.11
WEAG-785	GRAB	4820 Headland Drive	21-Oct-13	0.49	<1	86	13	<1	0.11
WEAG-785	GRAB	4820 Headland Drive	18-Nov-13	0.67	<1	4	10	<1	0.15
WEAG-785	GRAB	4820 Headland Drive	16-Dec-13	0.58	<1	<2	7	<1	0.33
WEAG-786	GRAB	1158 Millstream Road	21-Jan-13	0.6	<1	200	5	<1	0.36
WEAG-786	GRAB	1158 Millstream Road	18-Feb-13	0.6	<1	6	6	<1	0.14
WEAG-786	GRAB	1158 Millstream Road	18-Mar-13	0.69	<1	8	7	<1	0.12
WEAG-786	GRAB	1158 Millstream Road	15-Apr-13	0.48	<1	8	10	<1	0.09
WEAG-786	GRAB	1158 Millstream Road	13-May-13	0.45	<1	8	10	<1	0.17
WEAG-786	GRAB	1158 Millstream Road	10-Jun-13	0.41	<1	<2	12	<1	0.42
WEAG-786	GRAB	1158 Millstream Road	8-Jul-13	1.2	<1	4	12	<1	0.43
WEAG-786	GRAB	1158 Millstream Road	7-Aug-13	0.85	<1	<2	12	<1	0.37
WEAG-786	GRAB	1158 Millstream Road	4-Sep-13	0.46	<1	8	17	<1	0.17
WEAG-786	GRAB	1158 Millstream Road	30-Sep-13	0.86	<1	<2	14	<1	0.18
WEAG-786	GRAB	1158 Millstream Road	28-Oct-13	0.72	<1	6	12	<1	0.12
WEAG-786	GRAB	1158 Millstream Road	25-Nov-13	0.79	<1	<2	9	<1	0.2
WEAG-786	GRAB	1158 Millstream Road	23-Dec-13	0.81	<1	NA	6	<1	0.09
WEAG-787	GRAB	2711 Willoughby Road	21-Jan-13	0.71	<1	2	5	<1	0.22
WEAG-787	GRAB	2711 Willoughby Road	18-Feb-13	0.39	<1	<2	6	<1	0.12
WEAG-787	GRAB	2711 Willoughby Road	18-Mar-13	0.66	<1	2	7	<1	0.11
WEAG-787	GRAB	2711 Willoughby Road	15-Apr-13	0.38	<1	8	10	<1	0.29
WEAG-787	GRAB	2711 Willoughby Road	13-May-13	0.23	<1	<2	12	<1	0.1
WEAG-787	GRAB	2711 Willoughby Road	10-Jun-13	0.6	<1	<2	13	<1	0.31
WEAG-787	GRAB	2711 Willoughby Road	8-Jul-13	1.1	<1	<2	12	<1	0.96
WEAG-787	GRAB	2711 Willoughby Road	7-Aug-13	0.8	<1	<2	12	<1	0.77

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WEAG-787	GRAB	2711 Willoughby Road	4-Sep-13	0.45	<1	<2	18	<1	0.14
WEAG-787	GRAB	2711 Willoughby Road	30-Sep-13	0.62	<1	8	15	<1	0.89
WEAG-787	GRAB	2711 Willoughby Road	28-Oct-13	0.3	<1	<2	13	<1	0.11
WEAG-787	GRAB	2711 Willoughby Road	25-Nov-13	0.44	<1	4	9	<1	0.12
WEAG-787	GRAB	2711 Willoughby Road	23-Dec-13	0.75	<1	NA	6	<1	0.12
WEAG-788	GRAB	1551 Vinson Creek Road	21-Jan-13	0.6	<1	<2	5	<1	0.08
WEAG-788	GRAB	1551 Vinson Creek Road	18-Feb-13	0.46	<1	24	6	<1	0.12
WEAG-788	GRAB	1551 Vinson Creek Road	18-Mar-13	1.3	<1	<2	7	<1	0.12
WEAG-788	GRAB	1551 Vinson Creek Road	15-Apr-13	0.52	<1	4	10	<1	0.07
WEAG-788	GRAB	1551 Vinson Creek Road	13-May-13	0.37	<1	<2	9	<1	0.09
WEAG-788	GRAB	1551 Vinson Creek Road	10-Jun-13	0.72	<1	8	10	<1	0.28
WEAG-788	GRAB	1551 Vinson Creek Road	8-Jul-13	0.98	<1	<2	11	<1	0.22
WEAG-788	GRAB	1551 Vinson Creek Road	7-Aug-13	0.59	<1	2	10	<1	0.22
WEAG-788	GRAB	1551 Vinson Creek Road	4-Sep-13	2	<1	<2	17	<1	0.14
WEAG-788	GRAB	1551 Vinson Creek Road	30-Sep-13	1.2	<1	<2	14	<1	0.14
WEAG-788	GRAB	1551 Vinson Creek Road	28-Oct-13	0.98	<1	<2	12	<1	0.11
WEAG-788	GRAB	1551 Vinson Creek Road	25-Nov-13	0.81	<1	<2	10	<1	0.11
WEAG-788	GRAB	1551 Vinson Creek Road	23-Dec-13	0.89	<1	NA	7	<1	0.22
WEAG-880	GRAB	965 Cross Creek Road	14-Jan-13	0.31	<1	2	6	<1	0.15
WEAG-880	GRAB	965 Cross Creek Road	13-Feb-13	0.37	<1	880	7	<1	0.19
WEAG-880	GRAB	965 Cross Creek Road	11-Mar-13	0.28	<1	32	7	<1	0.12
WEAG-880	GRAB	965 Cross Creek Road	8-Apr-13	0.31	<1	2	10	<1	0.1
WEAG-880	GRAB	965 Cross Creek Road	6-May-13	0.36	<1	4	14	<1	0.06
WEAG-880	GRAB	965 Cross Creek Road	3-Jun-13	0.32	<1	Sample contaminated	15	<1	0.09
WEAG-880	GRAB	965 Cross Creek Road	3-Jul-13	0.97	<1	<2	16	<1	0.21
WEAG-880	GRAB	965 Cross Creek Road	29-Jul-13	0.9	<1	<2	13	<1	0.28
WEAG-880	GRAB	965 Cross Creek Road	26-Aug-13	0.4	<1	22	17	<1	0.36
WEAG-880	GRAB	965 Cross Creek Road	24-Sep-13	0.37	<1	6	17	<1	0.2
WEAG-880	GRAB	965 Cross Creek Road	21-Oct-13	0.22	<1	<2	13	<1	0.21
WEAG-880	GRAB	965 Cross Creek Road	18-Nov-13	0.92	<1	<2	11	<1	0.08
WEAG-880	GRAB	965 Cross Creek Road	16-Dec-13	0.72	<1	<2	7	<1	0.12
WVR-711	GRAB	1020 Groveland Road	7-Jan-13	0.24	<1	2	6	<1	0.12
WVR-711	GRAB	1020 Groveland Road	4-Feb-13	0.35	<1	10	6	<1	0.1
WVR-711	GRAB	1020 Groveland Road	4-Mar-13	0.24	<1	24	7	<1	0.11
WVR-711	GRAB	1020 Groveland Road	3-Apr-13	0.29	<1	100	10	<1	0.1
WVR-711	GRAB	1020 Groveland Road	29-Apr-13	0.42	<1	2	11	<1	0.16
WVR-711	GRAB	1020 Groveland Road	27-May-13	0.48	<1	<2	13	<1	0.23
WVR-711	GRAB	1020 Groveland Road	24-Jun-13	0.38	<1	2	12	<1	0.12
WVR-711	GRAB	1020 Groveland Road	22-Jul-13	0.55	<1	2	15	<1	0.5
WVR-711	GRAB	1020 Groveland Road	19-Aug-13	0.48	<1	4	14	<1	0.31
WVR-711	GRAB	1020 Groveland Road	16-Sep-13	0.38	<1	<2	18	<1	0.11
WVR-711	GRAB	1020 Groveland Road	16-Oct-13	0.49	<1	6	14	<1	0.08
WVR-711	GRAB	1020 Groveland Road	13-Nov-13	0.43	<1	<2	11	<1	0.12
WVR-711	GRAB	1020 Groveland Road	9-Dec-13	0.58	<1	2	6	<1	0.09
WVR-712	GRAB	510 Ballantree Road	7-Jan-13	0.6	<1	<2	6	<1	0.23
WVR-712	GRAB	510 Ballantree Road	4-Feb-13	0.48	<1	<2	7	<1	0.32
WVR-712	GRAB	510 Ballantree Road	4-Mar-13	0.69	<1	<2	6.5	<1	0.12
WVR-712	GRAB	510 Ballantree Road	3-Apr-13	0.37	<1	4	10	<1	0.25
WVR-712	GRAB	510 Ballantree Road	29-Apr-13	0.4	<1	<2	11	<1	0.2

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WVR-712	GRAB	510 Ballantree Road	27-May-13	0.27	<1	1400	13	<1	0.45
WVR-712	GRAB	510 Ballantree Road	24-Jun-13	0.29	<1	24	12	<1	0.33
WVR-712	GRAB	510 Ballantree Road	22-Jul-13	0.33	<1	<2	15	<1	0.31
WVR-712	GRAB	510 Ballantree Road	19-Aug-13	0.2	<1	2	15	<1	0.29
WVR-712	GRAB	510 Ballantree Road	16-Sep-13	0.34	<1	<2	17	<1	0.13
WVR-712	GRAB	510 Ballantree Road	16-Oct-13	0.29	<1	30	14	<1	0.19
WVR-712	GRAB	510 Ballantree Road	13-Nov-13	0.4	<1	<2	11	<1	0.16
WVR-712	GRAB	510 Ballantree Road	9-Dec-13	0.27	<1	4	6	<1	0.24
WVR-718	GRAB	885 - 22nd Street	3-Jan-13	0.43	<1	<2	8	<1	0.14
WVR-718	GRAB	885 - 22nd Street	28-Jan-13	0.51	<1	<2	6	<1	0.21
WVR-718	GRAB	885 - 22nd Street	25-Feb-13	0.49	<1	<2	7	<1	0.07
WVR-718	GRAB	885 - 22nd Street	25-Mar-13	0.48	<1	<2	8	<1	0.14
WVR-718	GRAB	885 - 22nd Street	22-Apr-13	0.53	<1	16	9	<1	0.12
WVR-718	GRAB	885 - 22nd Street	22-May-13	0.54	<1	<2	15	<1	0.44
WVR-718	GRAB	885 - 22nd Street	17-Jun-13	0.71	<1	2	13	<1	0.3
WVR-718	GRAB	885 - 22nd Street	15-Jul-13	0.66	<1	76	14	<1	0.28
WVR-718	GRAB	885 - 22nd Street	12-Aug-13	0.46	<1	170	15	<1	0.31
WVR-718	GRAB	885 - 22nd Street	9-Sep-13	0.23	<1	52	19	<1	0.17
WVR-718	GRAB	885 - 22nd Street	7-Oct-13	0.56	<1	290	14	<1	0.2
WVR-718	GRAB	885 - 22nd Street	4-Nov-13	0.65	<1	2	12	<1	0.14
WVR-718	GRAB	885 - 22nd Street	3-Dec-13	0.64	<1	<2	9	<1	0.14
WVR-718	GRAB	885 - 22nd Street	30-Dec-13	0.63	<1	NA	8	<1	0.08
WVR-761	GRAB	243 Rabbit Lane	21-Jan-13	0.2	<1	2	6	<1	0.38
WVR-761	GRAB	243 Rabbit Lane	18-Feb-13	0.21	<1	910	7	<1	0.26
WVR-761	GRAB	243 Rabbit Lane	18-Mar-13	0.33	<1	4	7	<1	0.13
WVR-761	GRAB	243 Rabbit Lane	15-Apr-13	0.22	<1	710	9	<1	0.34
WVR-761	GRAB	243 Rabbit Lane	13-May-13	0.23	<1	190	14	<1	0.74
WVR-761	GRAB	243 Rabbit Lane	10-Jun-13	0.26	<1	10	12	<1	0.5
WVR-761	GRAB	243 Rabbit Lane	8-Jul-13	0.55	<1	24	12	<1	0.21
WVR-761	GRAB	243 Rabbit Lane	7-Aug-13	0.21	<1	22	12	<1	0.35
WVR-761	GRAB	243 Rabbit Lane	4-Sep-13	0.34	<1	12	19	<1	0.35
WVR-761	GRAB	243 Rabbit Lane	30-Sep-13	0.62	<1	2	15	<1	4
WVR-761	GRAB	243 Rabbit Lane	28-Oct-13	0.22	<1	4300	13	<1	1.8
WVR-761	GRAB	243 Rabbit Lane	25-Nov-13	0.25	<1	42	9	<1	0.37
WVR-761	GRAB	243 Rabbit Lane	23-Dec-13	0.22	<1	NA	6	<1	2.1
WVR-764	GRAB	111 Bridge Road	21-Jan-13	0.76	<1	<2	4	<1	0.33
WVR-764	GRAB	111 Bridge Road	18-Feb-13	0.68	<1	<2	5	<1	0.14
WVR-764	GRAB	111 Bridge Road	18-Mar-13	0.5	<1	<2	6	<1	0.11
WVR-764	GRAB	111 Bridge Road	15-Apr-13	0.66	<1	<2	8	<1	0.19
WVR-764	GRAB	111 Bridge Road	13-May-13	0.74	<1	<2	9	<1	0.38
WVR-764	GRAB	111 Bridge Road	10-Jun-13	0.87	<1	2	9	<1	0.47
WVR-764	GRAB	111 Bridge Road	8-Jul-13	0.64	<1	<2	12	<1	0.23
WVR-764	GRAB	111 Bridge Road	7-Aug-13	0.84	<1	<2	11	<1	0.26
WVR-764	GRAB	111 Bridge Road	4-Sep-13	0.48	<1	<2	16	<1	0.15
WVR-764	GRAB	111 Bridge Road	30-Sep-13	0.51	<1	<2	14	<1	0.17
WVR-764	GRAB	111 Bridge Road	28-Oct-13	0.62	<1	<2	11	<1	0.09
WVR-764	GRAB	111 Bridge Road	25-Nov-13	0.64	<1	<2	9	<1	0.34
WVR-764	GRAB	111 Bridge Road	23-Dec-13	0.7	<1	NA	5	<1	0.26
WVR-790	GRAB	19 Glenmore Drive	7-Jan-13	0.66	<1	<2	5	<1	0.37

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WVR-790	GRAB	19 Glenmore Drive	21-Jan-13	0.67	<1	<2	5	<1	0.34
WVR-790	GRAB	19 Glenmore Drive	4-Feb-13	0.59	<1	<2	6	<1	0.2
WVR-790	GRAB	19 Glenmore Drive	18-Feb-13	0.57	<1	<2	6	<1	0.57
WVR-790	GRAB	19 Glenmore Drive	4-Mar-13	0.58	<1	2	9	<1	0.38
WVR-790	GRAB	19 Glenmore Drive	18-Mar-13	0.51	<1	<2	7	<1	0.43
WVR-790	GRAB	19 Glenmore Drive	3-Apr-13	0.06	<1	<2	10	<1	0.44
WVR-790	GRAB	19 Glenmore Drive	15-Apr-13	0.48	<1	6	10	<1	0.45
WVR-790	GRAB	19 Glenmore Drive	29-Apr-13	0.58	<1	2	10	<1	0.42
WVR-790	GRAB	19 Glenmore Drive	13-May-13	0.34	<1	<2	8	<1	0.36
WVR-790	GRAB	19 Glenmore Drive	27-May-13	0.67	<1	4	10	<1	0.52
WVR-790	GRAB	19 Glenmore Drive	10-Jun-13	0.73	<1	2	10	<1	5.2
WVR-790	GRAB	19 Glenmore Drive	24-Jun-13	0.87	<1	180	11	<1	0.34
WVR-790	GRAB	19 Glenmore Drive	8-Jul-13	0.51	<1	<2	10	<1	0.53
WVR-790	GRAB	19 Glenmore Drive	22-Jul-13	0.75	<1	<2	13	<1	0.28
WVR-790	GRAB	19 Glenmore Drive	7-Aug-13	0.65	<1	<2	11	2	0.39
WVR-790	GRAB	19 Glenmore Drive	19-Aug-13	0.93	<1	2	14	<1	0.3
WVR-790	GRAB	19 Glenmore Drive	4-Sep-13	0.55	<1	<2	18	<1	0.14
WVR-790	GRAB	19 Glenmore Drive	16-Sep-13	0.71	<1	2	18	<1	0.09
WVR-790	GRAB	19 Glenmore Drive	30-Sep-13	0.89	<1	<2	15	<1	0.16
WVR-790	GRAB	19 Glenmore Drive	16-Oct-13	0.78	<1	20	13	<1	0.13
WVR-790	GRAB	19 Glenmore Drive	28-Oct-13	0.67	<1	<2	12	<1	0.1
WVR-790	GRAB	19 Glenmore Drive	13-Nov-13	0.58	<1	<2	10	<1	0.21
WVR-790	GRAB	19 Glenmore Drive	25-Nov-13	0.61	<1	<2	9	<1	0.49
WVR-790	GRAB	19 Glenmore Drive	9-Dec-13	0.63	<1	4	5	<1	0.55
WVR-790	GRAB	19 Glenmore Drive	23-Dec-13	0.57	<1	NA	6	<1	0.97
WVR-791	GRAB	200 Keith Road	7-Jan-13	0.87	<1	<2	5	<1	0.34
WVR-791	GRAB	200 Keith Road	4-Feb-13	0.58	<1	<2	6	<1	0.08
WVR-791	GRAB	200 Keith Road	4-Mar-13	0.46	<1	8	7	<1	0.07
WVR-791	GRAB	200 Keith Road	3-Apr-13	0.71	<1	2	9	<1	0.13
WVR-791	GRAB	200 Keith Road	29-Apr-13	0.45	<1	<2	10	<1	0.11
WVR-791	GRAB	200 Keith Road	27-May-13	0.81	<1	4	12	<1	0.34
WVR-791	GRAB	200 Keith Road	24-Jun-13	0.94	<1	16	11	<1	0.27
WVR-791	GRAB	200 Keith Road	22-Jul-13	1.1	<1	2	9	<1	0.32
WVR-791	GRAB	200 Keith Road	19-Aug-13	1	<1	4	14	<1	0.6
WVR-791	GRAB	200 Keith Road	16-Sep-13	0.81	<1	18	17	<1	0.1
WVR-791	GRAB	200 Keith Road	16-Oct-13	0.81	<1	<2	12	<1	0.12
WVR-791	GRAB	200 Keith Road	13-Nov-13	0.68	<1	10	10	<1	0.13
WVR-791	GRAB	200 Keith Road	9-Dec-13	0.79	<1	<2	6	<1	0.1
WVR-792	GRAB	76 Bonnymuir Drive	7-Jan-13	0.59	<1	<2	5	<1	0.19
WVR-792	GRAB	76 Bonnymuir Drive	21-Jan-13	0.56	<1	<2	7	<1	0.26
WVR-792	GRAB	76 Bonnymuir Drive	4-Feb-13	0.56	<1	<2	5	<1	0.12
WVR-792	GRAB	76 Bonnymuir Drive	18-Feb-13	0.53	<1	<2	6	<1	0.33
WVR-792	GRAB	76 Bonnymuir Drive	4-Mar-13	0.41	<1	2	9	<1	0.12
WVR-792	GRAB	76 Bonnymuir Drive	18-Mar-13	0.44	<1	2	7	<1	0.36
WVR-792	GRAB	76 Bonnymuir Drive	3-Apr-13	0.43	<1	2	10	<1	0.13
WVR-792	GRAB	76 Bonnymuir Drive	15-Apr-13	0.42	<1	<2	11	<1	0.17
WVR-792	GRAB	76 Bonnymuir Drive	29-Apr-13	0.31	<1	<2	11	<1	0.06
WVR-792	GRAB	76 Bonnymuir Drive	13-May-13	0.23	<1	240	9	<1	0.44
WVR-792	GRAB	76 Bonnymuir Drive	27-May-13	0.34	<1	2	11	<1	0.36

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WVR-792	GRAB	76 Bonnymuir Drive	10-Jun-13	0.3	<1	<2	10	<1	0.38
WVR-792	GRAB	76 Bonnymuir Drive	24-Jun-13	0.63	<1	10	11	<1	0.27
WVR-792	GRAB	76 Bonnymuir Drive	8-Jul-13	0.3	<1	2	12	<1	0.22
WVR-792	GRAB	76 Bonnymuir Drive	22-Jul-13	0.28	<1	<2	14	<1	0.24
WVR-792	GRAB	76 Bonnymuir Drive	7-Aug-13	0.61	<1	<2	10	<1	0.34
WVR-792	GRAB	76 Bonnymuir Drive	19-Aug-13	0.22	<1	<2	12	<1	0.29
WVR-792	GRAB	76 Bonnymuir Drive	4-Sep-13	0.34	<1	2	16	<1	0.15
WVR-792	GRAB	76 Bonnymuir Drive	16-Sep-13	0.46	<1	4	18	<1	0.11
WVR-792	GRAB	76 Bonnymuir Drive	30-Sep-13	0.42	<1	<2	14	<1	0.19
WVR-792	GRAB	76 Bonnymuir Drive	16-Oct-13	0.36	<1	Sample Contaminated	14	<1	0.15
WVR-792	GRAB	76 Bonnymuir Drive	28-Oct-13	0.38	<1	<2	13	<1	0.13
WVR-792	GRAB	76 Bonnymuir Drive	13-Nov-13	0.41	<1	<2	11	<1	0.12
WVR-792	GRAB	76 Bonnymuir Drive	25-Nov-13	0.39	<1	2	10	<1	0.14
WVR-792	GRAB	76 Bonnymuir Drive	9-Dec-13	0.56	<1	<2	8	<1	0.19
WVR-792	GRAB	76 Bonnymuir Drive	23-Dec-13	0.48	<1	NA	6	<1	0.11
WVR-793	GRAB	559 Kildonan Road	7-Jan-13	0.54	<1	<2	5	<1	0.23
WVR-793	GRAB	559 Kildonan Road	4-Feb-13	0.8	<1	<2	5	<1	0.16
WVR-793	GRAB	559 Kildonan Road	4-Mar-13	0.79	<1	<2	6	<1	0.12
WVR-793	GRAB	559 Kildonan Road	3-Apr-13	0.6	<1	<2	10	<1	0.14
WVR-793	GRAB	559 Kildonan Road	29-Apr-13	0.38	<1	<2	11	<1	0.1
WVR-793	GRAB	559 Kildonan Road	27-May-13	0.38	<1	<2	13	<1	0.16
WVR-793	GRAB	559 Kildonan Road	24-Jun-13	0.24	<1	260	12	<1	0.2
WVR-793	GRAB	559 Kildonan Road	22-Jul-13	0.31	<1	130	15	<1	0.24
WVR-793	GRAB	559 Kildonan Road	19-Aug-13	0.44	<1	10	16	<1	0.74
WVR-793	GRAB	559 Kildonan Road	16-Sep-13	0.28	<1	6	17	<1	0.14
WVR-793	GRAB	559 Kildonan Road	16-Oct-13	0.31	<1	<2	14	<1	0.15
WVR-793	GRAB	559 Kildonan Road	13-Nov-13	0.2	<1	<2	11	<1	0.13
WVR-793	GRAB	559 Kildonan Road	9-Dec-13	0.24	<1	6	6	<1	0.24
WVR-794	GRAB	702 Barnham Road	7-Jan-13	0.56	<1	14	6	<1	0.12
WVR-794	GRAB	702 Barnham Road	4-Feb-13	0.52	<1	<2	5	<1	0.11
WVR-794	GRAB	702 Barnham Road	4-Mar-13	0.4	<1	4	7	<1	0.09
WVR-794	GRAB	702 Barnham Road	3-Apr-13	0.52	<1	<2	10	<1	0.15
WVR-794	GRAB	702 Barnham Road	29-Apr-13	0.38	<1	<2	10	<1	0.18
WVR-794	GRAB	702 Barnham Road	27-May-13	0.42	<1	340	13	<1	0.67
WVR-794	GRAB	702 Barnham Road	24-Jun-13	0.31	<1	36	12	<1	0.28
WVR-794	GRAB	702 Barnham Road	22-Jul-13	0.28	<1	<2	14	<1	0.23
WVR-794	GRAB	702 Barnham Road	19-Aug-13	0.25	<1	<2	14	<1	0.29
WVR-794	GRAB	702 Barnham Road	16-Sep-13	0.37	<1	<2	18	<1	0.16
WVR-794	GRAB	702 Barnham Road	16-Oct-13	0.44	<1	10	14	<1	0.17
WVR-794	GRAB	702 Barnham Road	13-Nov-13	0.27	<1	4	11	<1	0.16
WVR-794	GRAB	702 Barnham Road	9-Dec-13	0.71	<1	2	6	<1	0.09
WVR-795	GRAB	620 Kenwood Road	7-Jan-13	0.5	<1	4	5	<1	0.2
WVR-795	GRAB	620 Kenwood Road	4-Feb-13	0.38	<1	26	5	<1	0.43
WVR-795	GRAB	620 Kenwood Road	4-Mar-13	0.53	<1	56	6	<1	0.1
WVR-795	GRAB	620 Kenwood Road	3-Apr-13	0.55	<1	12	9	<1	0.15
WVR-795	GRAB	620 Kenwood Road	29-Apr-13	0.44	<1	22	11	<1	0.14
WVR-795	GRAB	620 Kenwood Road	27-May-13	0.46	<1	<2	12	<1	0.43
WVR-795	GRAB	620 Kenwood Road	24-Jun-13	0.48	<1	6	12	<1	0.29
WVR-795	GRAB	620 Kenwood Road	22-Jul-13	0.75	<1	<2	11	<1	0.29

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WVR-795	GRAB	620 Kenwood Road	19-Aug-13	0.55	<1	60	14	<1	0.42
WVR-795	GRAB	620 Kenwood Road	16-Sep-13	0.52	<1	12	17	<1	0.15
WVR-795	GRAB	620 Kenwood Road	16-Oct-13	0.57	<1	<2	14	<1	0.13
WVR-795	GRAB	620 Kenwood Road	13-Nov-13	0.36	<1	2	12	<1	0.17
WVR-795	GRAB	620 Kenwood Road	9-Dec-13	0.64	<1	<2	6	<1	0.09
WVR-796	GRAB	315 Mathers Avenue	7-Jan-13	0.69	<1	<2	7	<1	0.12
WVR-796	GRAB	315 Mathers Avenue	21-Jan-13	0.77	<1	2	7	<1	0.1
WVR-796	GRAB	315 Mathers Avenue	4-Feb-13	0.68	<1	<2	5	<1	0.13
WVR-796	GRAB	315 Mathers Avenue	18-Feb-13	0.71	<1	<2	5	<1	0.08
WVR-796	GRAB	315 Mathers Avenue	4-Mar-13	0.5	<1	<2	8	<1	0.09
WVR-796	GRAB	315 Mathers Avenue	18-Mar-13	0.52	<1	2	7	<1	0.14
WVR-796	GRAB	315 Mathers Avenue	3-Apr-13	0.74	<1	<2	8	<1	0.12
WVR-796	GRAB	315 Mathers Avenue	15-Apr-13	0.61	<1	2	10	<1	0.12
WVR-796	GRAB	315 Mathers Avenue	29-Apr-13	0.48	<1	<2	11	<1	0.06
WVR-796	GRAB	315 Mathers Avenue	13-May-13	1.1	<1	4	8	<1	0.41
WVR-796	GRAB	315 Mathers Avenue	27-May-13	0.78	<1	4	13	<1	0.33
WVR-796	GRAB	315 Mathers Avenue	10-Jun-13	0.95	<1	<2	10	<1	0.36
WVR-796	GRAB	315 Mathers Avenue	24-Jun-13	1	<1	38	12	<1	0.25
WVR-796	GRAB	315 Mathers Avenue	8-Jul-13	0.98	<1	<2	11	<1	0.23
WVR-796	GRAB	315 Mathers Avenue	22-Jul-13	1.1	<1	<2	10	<1	0.24
WVR-796	GRAB	315 Mathers Avenue	7-Aug-13	0.91	<1	<2	12	<1	0.28
WVR-796	GRAB	315 Mathers Avenue	19-Aug-13	0.83	<1	<2	12	<1	0.27
WVR-796	GRAB	315 Mathers Avenue	4-Sep-13	0.31	<1	<2	17	<1	0.16
WVR-796	GRAB	315 Mathers Avenue	16-Sep-13	0.74	<1	2	18	<1	0.13
WVR-796	GRAB	315 Mathers Avenue	30-Sep-13	0.62	<1	<2	15	<1	0.25
WVR-796	GRAB	315 Mathers Avenue	16-Oct-13	0.76	<1	2	12	<1	0.13
WVR-796	GRAB	315 Mathers Avenue	28-Oct-13	0.74	<1	<2	12	<1	0.12
WVR-796	GRAB	315 Mathers Avenue	13-Nov-13	0.52	<1	<2	10	<1	0.1
WVR-796	GRAB	315 Mathers Avenue	25-Nov-13	0.68	<1	20	9	<1	0.13
WVR-796	GRAB	315 Mathers Avenue	9-Dec-13	0.71	<1	44	6	<1	0.12
WVR-796	GRAB	315 Mathers Avenue	23-Dec-13	0.79	<1	NA	6	<1	0.33
WVR-797	GRAB	395 Klahanie Court	21-Jan-13	0.7	<1	<2	6	<1	0.11
WVR-797	GRAB	395 Klahanie Court	18-Feb-13	0.87	<1	<2	6	<1	0.11
WVR-797	GRAB	395 Klahanie Court	18-Mar-13	1.3	<1	<2	6	<1	0.12
WVR-797	GRAB	395 Klahanie Court	15-Apr-13	0.54	<1	<2	9	<1	0.76
WVR-797	GRAB	395 Klahanie Court	13-May-13	0.54	<1	<2	10	<1	0.3
WVR-797	GRAB	395 Klahanie Court	10-Jun-13	0.58	<1	2	11	<1	0.3
WVR-797	GRAB	395 Klahanie Court	8-Jul-13	0.66	<1	<2	12	<1	0.2
WVR-797	GRAB	395 Klahanie Court	7-Aug-13	0.48	<1	<2	12	<1	0.24
WVR-797	GRAB	395 Klahanie Court	4-Sep-13	0.54	<1	<2	18	<1	0.18
WVR-797	GRAB	395 Klahanie Court	30-Sep-13	0.54	<1	<2	15	<1	0.19
WVR-797	GRAB	395 Klahanie Court	28-Oct-13	0.71	<1	<2	12	<1	0.15
WVR-797	GRAB	395 Klahanie Court	25-Nov-13	0.71	<1	<2	10	<1	0.79
WVR-797	GRAB	395 Klahanie Court	23-Dec-13	0.74	<1	NA	6	<1	0.68
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	3-Jan-13	0.65	<1	<2	6	<1	0.14
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	28-Jan-13	0.26	<1	<2	6	<1	0.12
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	25-Feb-13	0.52	<1	<2	6.5	<1	<0.06
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	25-Mar-13	0.22	<1	<2	7	<1	0.08
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	22-Apr-13	0.46	<1	<2	6	<1	0.08

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Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100m Ls	HPC CFU/mls	Temperature °C	Total Coliform MF/100m Ls	Turbidity NTU
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	22-May-13	0.27	<1	<2	13	<1	0.13
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	17-Jun-13	0.23	<1	<2	14	<1	0.1
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	15-Jul-13	0.55	<1	<2	16	<1	0.15
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	12-Aug-13	0.62	<1	<2	16	<1	0.12
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	9-Sep-13	0.37	<1	<2	18	<1	0.14
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	7-Oct-13	0.7	<1	<2	13	<1	0.1
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	4-Nov-13	0.46	<1	<2	11	<1	0.13
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	3-Dec-13	0.68	<1	<2	8	<1	0.11
WMZ-781	GRAB	8005 Pasco Road, Mtzb Creek	30-Dec-13	0.65	<1	NA	7	<1	0.08
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	14-Jan-13	0.48	<1	<2	5	<1	6.8
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	13-Feb-13	0.26	<1	2	7	<1	0.41
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	11-Mar-13	0.66	<1	<2	6	<1	0.22
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	8-Apr-13	0.25	<1	2	10	<1	0.08
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	6-May-13	0.25	<1	620	12	<1	2
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	3-Jun-13	0.34	<1	<2	13	<1	0.27
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	3-Jul-13	0.29	<1	62	16	<1	0.35
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	29-Jul-13	0.69	<1	<2	13	<1	0.58
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	26-Aug-13	0.44	<1	<2	16	<1	0.36
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	23-Sep-13	0.22	<1	160	17	<1	0.73
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	21-Oct-13	0.89	<1	22	13	<1	0.26
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	18-Nov-13	0.56	<1	46	11	<1	2.3
WMZ-782	GRAB	8995 Lawrence Way, Mtzb Creek	16-Dec-13	0.37	<1	<2	8	<1	5.6

Semi Annual Metals Monitoring Results

Sample Name	Sample Description	Sampled Date	Sample Type	Aluminium Total	Antimony Total	Arsenic 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
Health Canada Guideline				0.1/0.2	0.006	0.01	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 - 6350 Marine Drive	09/05/2013	GRAB	0.091	<0.0005	<0.0005	0.002	<0.01	<0.0002	0.87	<0.00005	<0.0005	0.03	<0.005	<0.0005	0.16	<0.0005	<0.00005	<0.0005	<0.0005	0.1	<0.0005	<0.0005	4.2	0.812
WEAG-789	Gleneagles Elementary - 6350 Marine Drive	13/11/2013	GRAB	0.028	<0.0005	<0.0005	0.003	<0.01	<0.0002	1.35	<0.00005	<0.0005	0.03	0.011	<0.0005	0.21	0.0011	<0.00005	0.001	<0.0005	0.12	<0.0005	<0.0005	4.58	0.357
WMZ-796	Sunset Marina	09/05/2013	GRAB	0.144	<0.0005	<0.0005	0.002	<0.01	<0.0002	1.04	0.00008	<0.0005	0.01	0.125	<0.0005	0.12	0.0013	<0.00005	<0.0005	<0.0005	0.08	<0.0005	<0.0005	2.71	0.003
WMZ-796	Sunset Marina	13/11/2013	GRAB	0.028	<0.0005	<0.0005	0.007	<0.01	<0.0002	1.82	<0.00005	<0.0005	0.02	0.951	<0.0005	0.22	0.0063	<0.00005	<0.0005	<0.0005	0.14	<0.0005	<0.0005	3.12	0.006
WVR-798	Cypress Park Elementary	09/05/2013	GRAB	0.081	<0.0005	<0.0005	0.002	<0.01	<0.0002	1.02	<0.00005	<0.0005	0.1	0.013	<0.0005	0.16	0.001	<0.00005	<0.0005	<0.0005	0.11	<0.0005	<0.0005	5.04	0.606
WVR-798	Cypress Park Elementary	13/11/2013	GRAB	0.037	<0.0005	<0.0005	0.003	<0.01	<0.0002	1.56	<0.00005	<0.0005	0.07	0.029	<0.0005	0.19	0.0031	<0.00005	0.0009	<0.0005	0.13	<0.0005	<0.0005	4.4	0.365
WVR-799	Hollyburn Elementary	09/05/2013	GRAB	0.096	<0.0005	<0.0005	0.002	<0.01	<0.0002	1.28	0.00007	<0.0005	0.12	0.11	0.0005	0.14	0.0028	<0.00005	<0.0005	<0.0005	0.14	<0.0005	<0.0005	1.9	<0.003
WVR-799	Hollyburn Elementary	13/11/2013	GRAB	0.02	<0.0005	<0.0005	0.003	<0.01	<0.0002	3.22	<0.00005	<0.0005	0.06	0.04	<0.0005	0.16	0.0023	<0.00005	<0.0005	<0.0005	0.2	<0.0005	<0.0005	1.44	<0.003

DISINFECTION BYPRODUCTS

Sample	Date Sampled	Total THM Quarterly Average	Total HAA Quarterly Average
Health Canada Recommended Guidelines		100 ppb	80 ppb
WEAG-772	2/21/2013 8:55	63	60
WEAG-772	5/16/2013 9:52	61	57
WEAG-772	9/17/2013 9:45	54	57
WEAG-772	11/26/2013 9:30	51	48
WEAG-773	2/21/2013 9:05	82	55
WEAG-773	5/16/2013 10:15	82	56
WEAG-773	9/17/2013 10:00	72	60
WEAG-773	11/26/2013 9:50	69	46
WEAG-776	2/21/2013 9:55	59	
WEAG-776	5/16/2013 11:20	60	
WEAG-776	9/17/2013 11:45	53	
WEAG-776	11/26/2013 11:20	52	
WEAG-778	2/21/2013 9:15	65	64
WEAG-778	5/16/2013 10:30	63	58
WEAG-778	9/17/2013 10:15	55	50
WEAG-778	11/26/2013 10:00	51	46
WMZ-781	2/21/2013 8:42	62	68
WMZ-781	5/16/2013 9:30	71	73
WMZ-781	9/17/2013 9:20	78	80
WMZ-781	11/26/2013 9:15	63	64
WMZ-782	2/21/2013 8:30	50	48
WMZ-782	5/16/2013 9:00	57	47
WMZ-782	9/17/2013 9:00	63	51
WMZ-782	11/26/2013 9:00	56	53
WVR-713	2/21/2013 11:05	55	
WVR-713	5/16/2013 12:45	53	
WVR-713	9/17/2013 11:30	52	
WVR-713	11/26/2013 11:05	53	
WVR-716	2/21/2013 9:30	58	49
WVR-716	5/16/2013 9:50	58	46
WVR-716	9/17/2013 10:30	52	43
WVR-716	11/26/2013 10:15	49	43
WVR-717	2/21/2013 10:30	22	
WVR-717	5/16/2013 12:10	30	
WVR-717	9/17/2013 10:55	29	
WVR-717	11/26/2013 10:30	31	
WVR-764	2/21/2013 10:50	17	26
WVR-764	5/16/2013 12:35	21	28
WVR-764	9/17/2013 11:15	22	20
WVR-764	11/26/2013 10:50	23	22