



Public Works & Transportation Committee

Anderson Room, City Hall
6911 No. 3 Road

Wednesday, June 19, 2013
4:00 p.m.

Pg. # ITEM

MINUTES

PWT-4 *Motion to adopt the minutes of the meeting of the Public Works & Transportation Committee held on Thursday, May 23, 2013.*



NEXT COMMITTEE MEETING DATE

Wednesday, July 17, 2013, (tentative date) at 4:00 p.m. in the Anderson Room

DELEGATION

Paul Sellew, Chief Executive Officer, Harvest Power, to provide an update on Harvest Power's air quality and operations.

COUNCILLOR LINDA BARNES

1. **CLEAN ENERGY**

(File Ref. No.)

PWT-7

See Page **PWT-7** for full report

RECOMMENDATION

Whereas a comprehensive clean energy strategy could effectively prepare Canada for present and future energy needs and lay the foundation for a more diversified economy;

Whereas an overarching vision for a national clean energy strategy would signal to the world that Canada is prepared to be a global leader in a transition toward clean energy;

Whereas local governments face many energy challenges, including rising prices, increased pollution and aging infrastructure;

Whereas a significant number of local governments are also energy producers and providers, through locally owned electric and gas utilities and district heating systems, and also via renewable energy generation for public buildings;

Whereas FCM has called for a long-term, predictable infrastructure funding plan and federal-municipal collaboration on energy efficient building retrofits;

Be it resolved that, in order to remain globally competitive in a fast changing world, the federal government be requested to work with UBCM and FCM, to develop a new energy strategy prioritizing green-sector jobs and clean-energy innovation.



ENGINEERING AND PUBLIC WORKS DEPARTMENT

2. **2012 ANNUAL WATER QUALITY REPORT**

(File Ref. No. 10-6650-08-01) (REDMS No. 3867938)

PWT-26

See Page **PWT-26** for full report

Designated Speaker: Doug Anderson

STAFF RECOMMENDATION

That the 2012 Annual Water Quality Report dated May 28, 2013 be received for information.

☐

3. **ENERGY RESOURCE MANAGEMENT PLAN FOR CORPORATE BUILDINGS**

(File Ref. No.) (REDMS No. 3870326 v.8)

PWT-127

See Page PWT-127 for full report

Designated Speakers: Peter Russell & Levi Higgs

STAFF RECOMMENDATION

(1) *That the High Performance Building Policy No. 2306 be updated to include specific emphasis on corporate energy and GHG emissions targets and conservation priorities that reduce long term energy consumption and operational costs; and*

(2) *That staff report back with the updated High Performance Building Policy No. 2306.*

☐

4. **NATIONAL PUBLIC WORKS WEEK – UPDATE**

(File Ref. No. 10-6000-01) (REDMS No. 3883243 v.2)

PWT-133

See Page PWT-133 for full report

Designated Speaker: Derrick Lim

STAFF RECOMMENDATION

That the staff report titled National Public Works Week – Update dated June 3, 2013 from the Director, Public Works be received for information.

☐

5. **MANAGER’S REPORT**

ADJOURNMENT

☐



Public Works & Transportation Committee

Date: Thursday, May 23, 2013

Place: Anderson Room
Richmond City Hall

Present: Councillor Linda Barnes, Chair
Councillor Chak Au
Councillor Derek Dang
Councillor Linda McPhail
Councillor Harold Steves

Call to Order: The Chair called the meeting to order at 4:00 p.m.

MINUTES

It was moved and seconded

That the minutes of the meeting of the Public Works & Transportation Committee held on Wednesday, April 17, 2013, be adopted as circulated.

CARRIED

NEXT COMMITTEE MEETING DATE

Wednesday, June 19, 2013, (tentative date) at 4:00 p.m. in the Anderson Room

ENGINEERING AND PUBLIC WORKS DEPARTMENT

1. **LICENSE AGREEMENTS FOR CITY PUMP STATIONS**
(File Ref. No. 10-6340-20-P.11314) (REDMS No. 3840128 v.2)

Milton Chan, Manager, Engineering Design and Construction, advised that approximately 50% of the 31 perimeter pumping stations have been upgraded and that the City is undertaking to upgrade one major pumping station per year.

1.

Public Works & Transportation Committee
Thursday, May 23, 2013

It was moved and seconded

That the Chief Administrative Officer and the General Manager, Engineering and Public Works be authorized to negotiate and execute license agreements with Vancouver Fraser Port Authority (Port Metro Vancouver), or other applicable agencies having jurisdiction over Crown land beyond City dikes, for the construction and operation of No.1 Road North Drainage Pump Station and future City pump stations.

CARRIED

2. SERVICING AGREEMENT WITH ECOWASTE INDUSTRIES LTD.

(File Ref. No. 10-6060-01/2013) (REDMS No. 3844421 v.8)

John Irving, Director, Engineering, advised that this is a standalone Servicing Agreement for the preload along the Blundell corridor and does not involve any other infrastructure (i.e. roads, services). It is an opportunity to take advantage of receiving clean fill in this roadway with no cost to the City and will assist with the future development of the Ecowaste site conditional upon Council and provincial approvals.

Discussion ensued regarding concerns that Blundell Road not be opened between Savage Road and No. 6 Road and that an overpass through the Port Metro Vancouver lands adjacent to the Ecowaste lands not be supported.

It was moved and seconded

That the Chief Administrative Officer and the General Manager, Engineering and Public Works be authorized to negotiate and execute license agreements with Vancouver Fraser Port Authority (Port Metro Vancouver), or other applicable agencies having jurisdiction over Crown land beyond City dikes, for the construction and operation of No.1 Road North Drainage Pump Station and future City pump stations.

CARRIED

3. MANAGER'S REPORT

Robert Gonzalez, General Manager, Engineering and Public Works, introduced Peter Russell, Senior Manager, Sustainability and District Energy to the Committee and expressed that Mr. Russell brings a wealth of experience and will continue to build a Sustainability and District Energy work plan for the City. The Committee welcomed Mr. Russell to the City.

Public Works & Transportation Committee

Thursday, May 23, 2013

Tom Stewart, Director, Public Works, advised that the Public Works Open House is scheduled for Saturday, May 25, 2013 and extended an invitation for Council to attend. Mr. Stewart informed the Committee that 5 staff members have been recognized as Certified Utility Workers by the Industrial Trading Authority. Congratulations were extended to the employees and staff was directed to bring the matter to the next meeting of Council.

(a) ONNI – Dyke and Boardwalk

Mr. Irving noted that the dyke and boardwalk at the ONNI site have been opened. The City has completed the final inspections, received the final geotechnical report and staff is satisfied that the work has been completed accordingly. The security bond will be released shortly. There have been a few minor complaints or comments received with regard to minor cracking due to expected shrinkage. Staff was directed to place appropriate signage at the site expressing the satisfactory work completed.

(b) Nelson Road/Westminster Highway

Mr. Chan stated that preload work is currently taking place and that the main contracts for the road and drainage works have been awarded. Staff has applied to Transport Canada for an extension for the preload work to facilitate completing the work without loss of federal funding. Regular updates on the status of the project are provided on the City website and to Port Metro Vancouver.

ADJOURNMENT

It was moved and seconded

That the meeting adjourn (4:15 p.m.).

CARRIED

Certified a true and correct copy of the Minutes of the meeting of the Public Works & Transportation Committee of the Council of the City of Richmond held on Thursday, May 23, 2013.

Councillor Linda Barnes
Chair

Heather Howey
Committee Clerk

Resolution Title	Meeting	Resolution Status
Building Canada's Energy Value Chain Economy	Annual Conference - June 2013 - Vancouver, BC	Adopted
Resolution		
Sponsor(s)		
<p>WHEREAS, Canada is blessed with an abundance of energy resources; and</p> <p>WHEREAS, Development of these resources have a major impact and growing impact on the national economy; and</p> <p>WHEREAS, A report by the Canadian Chamber of Commerce recognizes these potential benefits and recommends that the entire energy-sector value chain must be considered when developing policies, including the development of an overall national strategy; and</p> <p>WHEREAS, These benefits are a major factor in the sustainability of communities in Canada;</p> <p>therefore be it</p> <p>RESOLVED, That the Federation of Canadian Municipalities urge the Government of Canada to affirm a commitment to developing national energy policies that support and expand the energy value chain industry; and be it further</p> <p>RESOLVED, That the Government of Canada work with Industry to address the potential constraints of skilled labour shortages and cost competitiveness that might inhibit major value added projects and economic prosperity for its citizens; and be it finally</p> <p>RESOLVED, That the Government of Canada work with all Provincial and Territorial governments to enshrine the value added agenda into any Canadian Energy that is developed.</p>		<p>City of Edmonton, AB</p> <p>Strathcona County, AB</p> <p>Lamont County, AB</p> <p>Sturgeon County, AB</p> <p>City of Fort Saskatchewan, AB</p>



A CANADIAN ENERGY STRATEGY

Why should local governments care?

by James Glave, John Chapman,
Robert Duffy and Charley Beresford

May 2013

A CANADIAN ENERGY STRATEGY: Why should local governments care?

by James Glave, John Chapman, Robert Duffy and Charley Beresford

May 2013

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Introduction

Municipalities can play an important role in ensuring that a Canadian energy strategy addresses the roles and interests of local communities across Canada.

Canada's federal and provincial governments are actively developing a national energy strategy, and there are compelling reasons for municipalities to become a bigger part of this conversation.

Municipalities can play an important role in ensuring that a Canadian energy strategy addresses the roles and interests of local communities across Canada.

Local governments have key stakes in ensuring stable, sustainable and affordable energy supplies, and have important roles to play in national energy discussions as energy producers and consumers, and also as representatives of community interests. They are well positioned to help develop, implement and benefit from better choices in the direction of Canada's energy policy.

It's no exaggeration to say that energy is a defining challenge for this century. The role of energy resources in our Canadian economy and

the ways we use energy are both areas of intense interest and policy debate.

Addressing climate change means addressing the way we use energy. Put another way, using less energy, using cleaner energy—or both—will mean fewer greenhouse gas emissions and reduce the rate at which the planet is warming and the climate changing. It could help us avoid catastrophic climate change.

Local economy concerns, rising public sector energy costs, community energy security problems and climate change related strain on local infrastructure put municipalities on the front lines.

A national energy strategy could be a powerful tool to signal long-term policy direction, and allow all levels of government (as well as the private sector) to move forward with clarity and certainty as we build a clean energy future and craft a response to the threat of climate change.

National energy strategy:

An overview

> Why Canada needs a national energy strategy

Canada's current approach to energy policy is fragmented, lacking coherence and driven primarily by individual provinces. There is a need for an overarching vision to encourage cooperation toward common goals.¹

A comprehensive national energy strategy could effectively prepare Canada for present and future energy needs and lay the foundation for a more diversified economy. It could include production, distribution and consumption, as well as provide a framework for renewable and clean energy. It would signal to the world that Canada is prepared to be a global leader in a transition toward clean energy.

Regulatory certainty could better enable action at all levels of government.

> Interprovincial negotiations: What's happened so far

Negotiations toward a Canadian energy strategy have been taking place through the Council of the Federation, an organization composed of Canada's provincial and territorial governments.

In 2007, Canada's premiers released *A Shared Vision for Energy in Canada*,² a policy document outlining a series of priorities for interprovincial cooperation on energy. It sets out an action plan to facilitate development of renewable and green energy, promote conservation and efficiency, accelerate research and development, and provide for secure and reliable energy transmission and distribution. Through 2012 and 2013, the premiers have updated and expanded the document, presenting it as the basis for a new Canadian energy strategy.

In late April 2013, the premiers of Manitoba, Alberta and Newfoundland and Labrador met with media to provide an overview of negotiations. Discussions were grouped around three broad areas, with three provinces taking a lead in each area. Grouped under the three broad categories is a 10-point plan (see *Canadian Energy Strategy: 10 Action Areas*), with each "action item" represented by a provincial working group.³

A comprehensive national energy strategy would signal to the world that Canada is prepared to be a global leader.

¹ Winnipeg Consensus, 2009, winnipegconsensus.org

² *A Shared Vision for Canada*, Council of the Federation, 2007, councilofthefederation.ca/pdfs/energystrategy_EN.pdf

³ "National energy strategy in works," Winnipeg Free Press, April 20, 2013; Canadian Energy Strategy Secretariat, Alberta Energy, "Canadian Energy Strategy – Action Areas," 2013.

87% of Canadians support a national energy strategy

Opinion polls show that Canadians want a national energy strategy that promotes energy efficiency and reduces greenhouse gas (GHG) emissions.

A July 2012 Harris-Decima poll found that **87%** of Canadians strongly or somewhat agree that “We need a Canadian energy strategy to plan our nation’s energy future.” A majority also indicated that the following should be “top” or “high” priorities for a national energy strategy:

- Reducing our reliance on fossil fuels like oil, gas, and coal – **66%**
- Creating more jobs in clean energy – **74%**
- Reducing Canada’s carbon pollution to slow down climate change – **67%**
- Improving energy efficiency – **82%**

Harris–Decima for Tides Canada, 2012, tidescanada.org/wp-content/uploads/files/energy/Tides%20Canada%20Polling_Results_Background.pdf

Most of the action items covered in the 10 points have direct or indirect implications for local governments and communities. The emphasis on energy infrastructure and new regulatory processes is of key interest to local governments.

Premiers charged with developing a path toward a Canadian energy plan say the next stage is to consult Canadians.⁴

Implementation of a national energy strategy will necessarily involve laws, policies, economic instruments and tools that have important local government implications.

⁴ Supra note 3, “National energy strategy in works.”

> Canadian energy strategy: 10 action areas

(Council of the Federation, 2013)

SUSTAINABILITY AND CONSERVATION

(Lead Manitoba)

1. Promote energy efficiency and conservation
2. Transition to a lower carbon economy
3. Enhance energy information and awareness

TECHNOLOGY AND INNOVATION

(Lead Newfoundland and Labrador)

4. Accelerate the development and deployment of energy research and technologies that advance more efficient production, transmission and use of clean and conventional energy sources
5. Develop and implement strategies to meet energy-sector human resource needs now and well into the 21st century
6. Facilitate the development of renewable, green and/or cleaner energy sources to meet future demand and contribute to environmental goals and priorities

DELIVERING ENERGY TO PEOPLE (Lead Alberta)

7. Develop and enhance a modern, reliable, environmentally safe, and efficient series of transmission and transportation networks for domestic and export/import sources of energy
8. Improve the timeliness and certainty of regulatory approval decision-making processes while maintaining rigorous protection of the environment and public interest
9. Promote market diversification
10. Pursue formalized participation of provinces and territories in international discussions and negotiations on energy

A changing global energy economy

The world is undergoing an energy transformation. There is a growing urgency to deal with energy policy and climate change by shifting away from fossil fuels and toward clean, renewable energy sources.

What is the low-carbon transition?

To avoid catastrophic climate warming, significant changes in energy production and energy policy are required. Canada is uniquely positioned to exploit emerging opportunities in clean energy technology with our large energy sector and abundant energy resources. Benefits of this approach will include the creation of new jobs and revenue sources, while realizing significant savings and creating healthier communities. Canadian local governments are already turning to a range of bylaws, regulations, and financial instruments to deliver low-carbon energy services, in turn saving money while improving health and quality of life.

What are the implications for competitiveness and prosperity?

The International Energy Agency is calling for global renewable-energy investments of \$430 billion by 2020 and \$1.2 trillion by 2030. This represents a huge opportunity for economic growth and new green jobs in Canada.

International Energy Agency, 2012, iea.org/newsroomandevents/pressreleases/2012/june/name,27474,en.html



ENGLISH BAY PHOTO COURTESY LISA/BEACH650 (FLICKR)

“Climate change poses serious threats to urban infrastructure, quality of life, and entire urban systems.”

— *Turn Down the Heat*, World Bank, November 2012

> Timelines: What happens next

The premiers present for the April 2013 announcement say they are working with provincial and territorial energy ministers to tell the Council of the Federation how to move forward on a shared energy policy in time for the Council’s July 24, 2013 meeting.⁵

After that, “the next stage is to go out and consult Canadians on what their thoughts and ideas are for a Canadian energy strategy.”⁶ This timeline suggests that local governments may have formal opportunities to provide input on a strategy as early as autumn 2013, though the process is likely to stretch at least into 2014.

⁵ “Premiers talk national energy strategy,” Peterborough Examiner, April 20, 2013, B6.

⁶ Supra note 3, “National energy strategy in works.”

Local government roles and opportunities

> Why municipalities should participate in the creation of a national energy strategy

Communities across the country face many energy challenges, including rising prices, increased pollution and aging infrastructure.

Through infrastructure choices, land use zoning, property development, transportation systems and tax mechanisms, municipalities have a great deal of influence over energy use.

A significant number of Canadian municipalities are also energy producers and providers, through locally owned electric and gas utilities and district heating systems, and also via renewable energy generation for public buildings.

There is also growing municipal interest in supporting energy efficiency retrofits and other conservation measures for local residents and businesses.

As the Federation of Canadian Municipalities noted in a 2011 submission to the Standing Senate Committee on Energy, the Environment and Natural Resources, “the more favourable the national policy environment, the more likely municipalities will be to maximize local policy levers at their disposal to reduce energy consumption in their communities and contribute to renewable energy production in Canada.”⁷

Local governments will bear much of the impact of fossil fuel related climate change on infrastructure. If supplied with adequate resources and coherent policy direction, local governments are well positioned to manage many of these impacts.

More broadly, local governments are the closest and most accessible level of government for many citizens, so participation by municipalities could be key to getting Canadians more engaged in the development of a national energy strategy.

Local governments will bear much of the impact of fossil fuel related climate change on infrastructure.

If supplied with adequate resources and coherent policy direction, local governments are well positioned to manage many of these impacts.

⁷ Shannon Joseph, Federation of Canadian Municipalities evidence before the Standing Senate Committee on Energy, the Environment and Natural Resources, Ottawa, October 27, 2011, parl.gc.ca/Content/SEN/Committee/411/enev/49132-e.htm?Language=E&Parl=41&Ses=1&comm_id=5

> Energy, climate change and municipal infrastructure

Energy use and production is intertwined with the issue of climate change. Local governments are especially vulnerable to the effects of climate change, and many are already beginning to examine the impacts of sea level rise and severe weather events on aging infrastructure.⁸ As the climate continues to warm, severe weather events are also projected to increase, with major consequences for Canadian municipalities and infrastructure.

A national energy strategy needs to take unavoidable impacts into account and help municipalities meet infrastructural and other costs associated with climate change adaptation.

In Canada and around the world, the insurance industry is calling for action on these issues. Extreme weather events cost Canadians \$1.6 billion in 2011, and these costs are expected to increase as the climate changes.⁹ Globally, the frequency and severity of weather-related catastrophes have increased over at least a 25-year period. Scientists strongly correlate these events to the rapid increase in carbon and other greenhouse gases in the atmosphere.

By 2020, the National Roundtable on the Environment and the Economy estimates the annual economic impact of climate change will be \$5 billion, and by 2050 could be more than \$40 billion.¹⁰

Climate change is costing Canadian municipalities — costs that are projected to increase. Communities are dealing with growing infrastructure costs, including inadequate storm drainage, old electricity grids, and underfunded transportation networks.

⁸ *Telling the Weather Story*, Insurance Bureau of Canada, June 2012, ibc.ca/en/natural_disasters/documents/mcbean_report.pdf

⁹ Ibid.

¹⁰ *Paying the Price: The Economic Impacts of Climate Change for Canada*, National Roundtable on the Environment and the Economy, 2011, <http://nrtee-trnee.ca/climate/climate-prosperity/the-economic-impacts-of-climate-change-for-canada/paying-the-price>



Extreme weather

Hurricane Katrina and Superstorm Sandy provide recent examples of municipalities' exposure to climate change.

Recovery work from Sandy will cost New York State US\$32.8 billion, with another US\$9.1 billion in prevention expenses. Katrina was the costliest natural disaster in United States history, devastating sections of New Orleans and causing nearly 2,000 deaths. Property damage is estimated at over \$80 billion.

Though Canadian communities are less vulnerable to hurricanes, we need to be concerned about the impacts of climate change related sea level rise and severe weather events on our aging infrastructure.

Other climate-driven impacts, such as wildfires, can prove equally devastating. The Okanagan Mountain fire in 2003 caused thousands of evacuations and cost British Columbia at least \$33 million.

In a 2011 publication, The National Round Table on the Environment and the Economy suggested that the economic impact of climate change may be as high as \$5 billion per year by 2020, and \$21 to \$43 billion per year by 2050. Action today on these issues can cause significant future savings.

The window to act is now. Preparing for future natural disasters and climate change by building resilient communities can provide significant cost savings and protect and allow communities to minimize damage to property and life.

PHOTOS COURTESY TRAN BC/Flickr

Dependence on imported oil leaves public sector organizations, businesses and residents susceptible to fluctuating prices and concerns about supply security.



Nelson Hydro

The City of Nelson owns and operates its own hydroelectric utility, supplying energy and managing energy transmission infrastructure for Nelson and surrounding regions. Just under half of the electricity is purchased from FortisBC, a large energy provider, while the balance is generated by Nelson Hydro's own Bonnington dam. Many benefits flow from Nelson Hydro. Consumers are protected from rate changes: electricity in Nelson is approximately 10 per cent less than in similar nearby communities. Dividends from the utility supply the city with an annual revenue source. Nelson Hydro is a local initiative that is increasing community resilience, self-reliance and energy security.

NELSON PHOTO COURTESY PRETELOS/FICKR

Climate change affects all regions of the country. On the coasts, hurricanes, sea level rise, and storm surges require immediate attention. Northern Canada faces the most rapid warming, a trend that is projected to accelerate. Precipitation will increase, in the form of severe rain and snowstorms. Across the country, unpredictable and severe weather events are adding to the burden carried by municipalities and revealing the inadequacies of existing infrastructure.¹¹

¹¹ "Telling the Weather Story," Insurance Bureau of Canada, 2012.

> Energy security and communities

Energy security is another area of concern for local governments and Canadian communities. Dependence on imported oil leaves public sector organizations, businesses and residents susceptible to fluctuating prices and concerns about supply security. And energy poverty—when households spend over 10 per cent of income on energy costs—is of concern to a growing number of Canadians.¹²

Globally, many countries are already in the process of planned transitions to more sustainable, locally-based—and ultimately more secure—national energy systems. Germany, for example, has an extensive plan underway to expand renewable energy from 20 per cent of its electricity in 2011 to 80 per cent by 2050, and cut the country's overall energy consumption 50 per cent by 2050.¹³ Renewable and district energy projects by municipalities are an important component of the Germany energy transition.¹⁴

Strong policy direction also helped Denmark produce 28 per cent of its electricity through wind in 2012, and the government has announced targets of 50 per cent of its electricity from wind by 2020.¹⁵ Danish municipalities have played an important role in this transition, both through a nationwide process of "heat planning" and development of district energy systems carried out by local authorities, as well as through municipal leadership in wind and other renewable electricity generation.¹⁶

¹² "Current and Future State of Oil and Gas Pipelines and Refining Capacity in Canada," Standing Committee on Natural Resources, 2012, publications.gc.ca/collections/collection_2012/parl/XC49-1-411-02-eng.pdf

¹³ Damien Carrington, "Germany's renewable energy revolution leaves UK in the shade," *The Guardian*, May 30, 2012, guardian.co.uk/environment/2012/may/30/germany-renewable-energy-revolution

¹⁴ See Lettemieke Mulder, "German Environmental Group Praises Municipal Utilities as the Pioneers of the German Energy Transition," firstsolar.com/En/Press-Center/First-Solar-Blog?Post=Duhmunicipal&Blog=Lettemieke+Mulder&Edit=True

¹⁵ "Renewables share of Denmark's power tops 40 pct," *Reuters*, September 24, 2012, reuters.com/article/2012/09/24/denmark-renewables-idUSL5E8KO8CV20120924

¹⁶ "Energy Policy in Denmark," *Danish Energy Agency*, December 2012, http://ens.omega.oitudv.dk/files/dokumenter/publikationer/downloads/energy_policy_in_denmark_-_web.pdf

> Reducing local government and community GHG emissions

Municipalities are on the front lines of climate change mitigation and adaptation.

Local governments have direct or indirect control of 45 per cent of national greenhouse gas emissions, most of which are driven by energy consumption, and in some jurisdictions are expected to meet mandated or voluntary GHG reduction targets.¹⁷

When citizens can live, work and play in complete, walkable communities, social capital is improved and less energy is used in transportation. Strengthening building codes, capturing waste heat from landfill and sewage infrastructure, establishing deconstruction incentives, setting targets for energy efficiency in municipal operations, greening vehicle fleets and using land use decisions and official community plans for more complete communities increases resiliency and reduces energy consumption along with GHGs.

Municipalities and community energy conservation: Residential energy retrofit financing

Energy-efficiency retrofits in residential buildings offer a fast and potentially affordable way to cut GHG emissions, conserve energy and save consumers money on their utility bills. Retrofitting is also good for the local economy and creates a lot of jobs.

However, the up-front cost of retrofitting is a deterrent for many homeowners. One potential solution is residential retrofit financing programs offered by municipalities. Under these programs, municipalities provide low-cost financing to cover the up-front cost of energy-efficient retrofits and property owners use money saved on energy to repay the financing over time, either as a charge on their local property taxes or on local utility bills. These programs can operate on a full cost recovery basis, at no net-cost to municipalities.

Similar programs are up and running in the U.S. and other countries, but are just getting off the ground in Canada. A municipal “on-utility bill” (or pay as you save) financing pilot was launched in Nelson, B.C. in 2012 through the city’s municipally-owned electric utility (see page 10). Halifax has the first property tax based repayment pilot project for energy retrofits in Canada, and a first round of solar hot water system installations began there in March 2013.

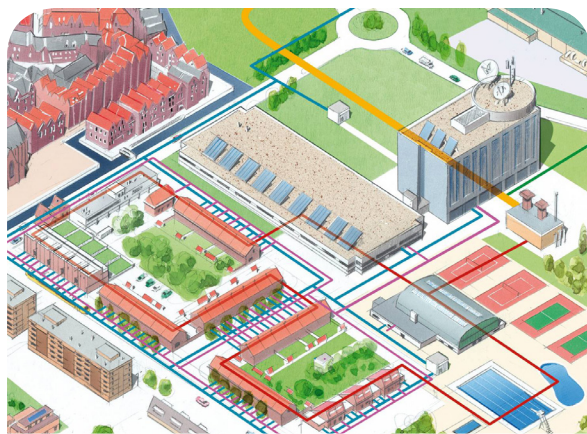
Provincial and federal governments could support the growth of this model through key legislative changes and the establishment of capital funds to backstop retrofit financing. Both Ontario (2012) and Nova Scotia (in 2010 for Halifax) have already implemented important legislation allowing municipal governments to use local improvement charges as a mechanism for financing energy efficiency and renewable energy retrofits on private property, and B.C. passed legislation enabling utilities to implement financing programs in 2012.

For more information on residential energy retrofit financing in Canada, see the Centre for Civic Governance report “This Green House” at civicgovernance.ca



¹⁷ *Act Locally*, Federation of Canadian Municipalities, 2009.

The Federation of Canadian Municipalities has called for a long-term, predictable infrastructure funding plan and federal-municipal collaboration on energy efficient building retrofits.



District heating

District heating is a system for distributing heat generated in a centralized location for use in residential, commercial and public sector space and water heating. Already widely used across Europe, the number of district heating systems in Canada is growing. Often run by municipalities, district heating projects have been implemented in most major cities, including Montreal, Toronto, Calgary and Vancouver, and in numerous smaller communities across the country. These systems provide high heating efficiency, reducing municipalities' energy costs and GHG emissions.

One example of district heating in action is in Yellowknife, NT, a city of 20,000 just south of the Arctic Circle. Long, cold winters mean serious heating costs. A 2004 study showed that heating accounted for over two thirds of Yellowknife's GHG emissions. In 2007, Yellowknife committed to installing a biomass boiler to heat several municipal buildings. The project has led to annual savings of \$200,000, a payback period of three years, and reduced annual GHG emissions by 800 tonnes.¹⁸

Better support for effective local energy solutions like district heating could play an important role in a national energy strategy.

ILLUSTRATION SMARTENERGYCOLLECTIVE.COM

¹⁸ "Partners for Climate Protection," Federation of Canadian Municipalities, 2013, fcm.ca/Documents/case-studies/PCP/2013/Yellowknifes_Biomass_Boiler_District_Energy_System_EN.pdf

While municipalities can develop community energy, climate action, and adaptation plans, they are often constrained by cost downloading and inadequate funding and support from other orders of government.¹⁹ Better tools and more resources to help municipalities reduce GHG emissions are crucial to any national climate change strategy.²⁰

A more integrated approach to climate policy, embedded within a Canadian energy strategy endorsed by all provinces, could potentially provide some policy certainty and also a framework for allocating much needed resources. Federal subsidies could be streamlined to support low-emissions options and encourage green and renewable options. For example, the Federation of Canadian Municipalities has called for a "long-term, predictable infrastructure funding plan that makes sustainable transportation a priority, and federal-municipal collaboration on energy efficient building retrofits."²¹

Today's municipal energy, transportation and other infrastructure decisions will have long-lasting associated costs and therefore must be made carefully. Choosing low-emission or carbon-neutral options may increase local resiliency and decrease future costs, while facilitating the energy transition. A national strategy could help to streamline and better support these efforts.

¹⁹ *The Road To Jobs And Growth: Solving Canada's Municipal Infrastructure Challenge*, Federation of Canadian Municipalities, November 2012, fcm.ca/Documents/backgrounders/The_Road_to_Jobs_and_Growth_Solving_Canadas_Municipal_Infrastructure_Challenge_-_Submission_EN.pdf

²⁰ *Act Locally: The Municipal Role in Fighting Climate Change*, Federation of Canadian Municipalities, December 2009, fcm.ca/Documents/reports/Act_Locally_The_Municipal_Role_in_Fighting_Climate_Change_EN.pdf

²¹ David Thompson and Shannon A. Joseph, *Building Canada's Green Economy: The Municipal Role*, Federation of Canadian Municipalities (FCM, 2011), fcm.ca/Documents/reports/Building_Canadas_green_economy_the_municipal_role_EN.pdf

> Promoting green economic opportunities in communities

Municipalities stand to benefit from a policy framework that encourages clean energy development, green technologies and energy conservation.

Canada has abundant renewable and hydrocarbon resources, and energy exports are a large part of our economy. However, the ways we produce and use energy are changing. Alternative, renewable and low-carbon energy production is rapidly growing.²² This is a global transformation, and without concerted action, Canada risks being left behind.

Jobs and economic activity in the clean energy sector are increasing, and a comprehensive national energy strategy will allow municipalities to capitalize on these new opportunities. Beyond opening up new markets for Canada's raw natural resources, a strategy supporting clean energy production and technologies could enable communities to capture a larger share of the growing global market for low-carbon goods and services, such as wind turbines, solar panels, biofuels production, and efficient vehicles, industrial processes and buildings.

A 2012 report by the National Round Table on the Environment and the Economy assesses the current value of Canada's green low-carbon goods and services market at about \$8 billion, and notes it could grow to \$60 billion by 2050.²³ In the United Kingdom, low-carbon industries (the green jobs sector) have been the only sector showing consistent growth since 2008, and now account for 8 per cent of GDP.²⁴

²² *Medium-Term Renewable Energy Market Report*, International Energy Agency, 2012, iea.org/w/bookshop/add.aspx?id=432

²³ "More Bang for our Buck: How Canada can create more energy jobs and less pollution," Blue Green Canada, 2012, <http://bluegreencanada.ca/Canadian%20Energy%20Strategy>

²⁴ Mary Creagh, "Strength of the green economy points to future success" (Business Green, 2012), businessgreen.com/bg/opinion/2203730/strength-of-the-green-economy-points-to-future-success; "Green Economy: a UK success story" (Green Alliance, 2012), green-alliance.org.uk/uploadedFiles/Publications/reports/British_success_story_Issuu.pdf

Globally, the market for low-carbon goods and services is already \$339 billion annually, and could reach as high as \$8.3 trillion annually by 2050 if concerted efforts are made to address climate change.²⁵

Clean-energy and high-technology jobs tend to be less vulnerable to the boom-and-bust cycles that have historically characterized resource economies. Diversifying Canada's economy into these sectors could help reduce our country's vulnerability to the cyclical ups and downs of global commodities markets, and reduce the incidence of hardship in our communities.



Clean-energy and high-technology jobs tend to be less vulnerable to the boom-and-bust cycles that have historically characterized resource economies.

Acceptable risk?

There are many reasons that municipalities may wish to accelerate Canada's clean-energy transition. Beyond the threat posed by climate change, Canada's presently expanding petroleum export sector presents additional risk to tourism-oriented economies, or those that depend on healthy ecosystems for resources such as fisheries. For example, the City of Vancouver recently passed a motion declaring that a major oil spill would unleash "enormous" impacts on tourism, development, fisheries and reputational capital. For smaller coastal communities that similarly depend on healthy and abundant ecosystems for employment, revenue and tourism, such an incident could prove irrecoverable.

VANCOUVER PHOTO COURTESY ECSTATICIST/FICKR

²⁵ Supra note 23, "More Bang for our Buck."



Taking action

In October 2012, Prince Rupert city council chose to position their city for a clean energy future by endorsing *Towards a Clean Energy Accord*, a set of energy strategy recommendations developed by Clean Energy Canada.

Municipalities, First Nations, industry, labour, academic and non-profit groups are coming together to call on Canada to develop a new energy strategy prioritizing green-sector jobs and clean-energy innovation, to remain globally competitive in the 21st century.

"We believe...

that Canada should bet on a 21st century energy model, and accelerate its transition to a clean and renewable energy future to remain competitive in a fast-changing world.

our leaders should work with industry and civil society organizations to leverage the economy we have today to create the new energy economy we want and need tomorrow.

any Canadian energy strategy must have a framework that prioritizes jobs and low carbon prosperity, eliminates energy waste, unleashes new energy innovation, fosters more livable communities, moves the nation forward on transportation, enables funding for the energy transition, and cleans up our existing energy supply."

PRINCE RUPERT PHOTO COURTESY LISA/BEACH650 (FLICKR)

> Reforming municipal revenue to meet energy and climate challenges

At present, half of every tax dollar collected goes to the federal government while 42 cents goes to provincial and territorial governments, leaving local governments with just 8 cents per tax dollar. As a result, there is an estimated \$60 billion municipal infrastructure deficit.²⁶

Municipalities raise 80 per cent of their own revenues, primarily through property taxes and user fees, receiving only 20 per cent through transfers. For several decades, municipal expenditures have been increasing, but the limited revenue-raising tools available to local governments remain unchanged. There is a large and growing imbalance; energy and climate-change expenditures are increasingly expensive for municipalities. Infrastructure, emergency response, and environmental-related costs are growing, without adequate funding resources.²⁷

Intergovernmental transfers have declined at the same time as service provision is downloaded to municipalities, and municipalities are surviving by deferring needed upgrades to infrastructure and service delivery.²⁸

Municipalities clearly need more resources for the roles they will play in the transition to a cleaner, more energy efficient economy in Canada and also for upgrading local infrastructure to cope with a more chaotic climate.

²⁶ "Building Prosperity From the Ground Up: Restoring Municipal Fiscal Balance," Federation of Canadian Municipalities, 2006.

²⁷ "The Canadian Infrastructure Report Card," 2012, canadainfrastructure.ca

²⁸ "Evidence: Standing Committee on energy, the environment and natural resources," 2011, parl.gc.ca/Content/SEN/Committee/411/enev/49132-e.htm?Language=E&Parl=41&Ses=1&comm_id=5

Conclusion:

An opportunity to engage

"The more favourable the national policy environment, the more likely municipalities will be to maximize local policy levers at their disposal to reduce energy consumption in their communities and contribute to renewable energy production in Canada."

— FCM testimony to the Standing Senate Committee on Energy, the Environment and Natural Resources, 2011

A national energy strategy that reduces dependence on fossil fuels and accelerates Canada's prosperity in the new global clean energy economy will also advance the concerns of municipalities. Canada can have a bright energy future if all orders of government collaborate.

There are high stakes and a wide range of roles local governments could play in a national energy strategy. Key issues from a local government perspective include the rising cost of damage to community infrastructure from climate change related natural disasters such as flooding, forest fires and sea level rise, the relationship between energy use and community

planning, local energy security, participating effectively in a low-carbon economy, and GHG emissions reductions by municipalities.

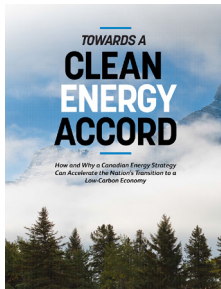
From financial and economic perspectives, a national energy strategy could open up important opportunities to address fiscal imbalances between local and senior levels of government, as well as stimulate green economic activity and job creation while diversifying Canada's economy.

Municipalities have both an interest in the outcome of the Council of the Federation consultation with Canadians on a national energy strategy and expertise to bring to the table.

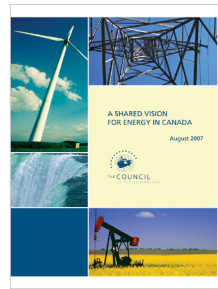
There are high stakes and a wide range of roles local governments could play in a national energy strategy.

> Additional reading

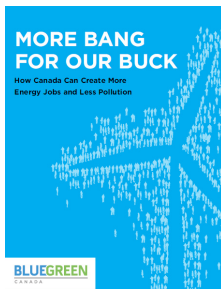
A substantial amount of information has been compiled on Canada's energy policies.
Here are some resources:



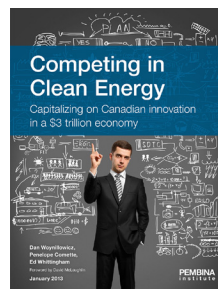
Tides Canada: *Towards a Clean Energy Accord.*
tidescanada.org/
wp-content/uploads/
Towards-a-Clean-
Energy-Accord.pdf



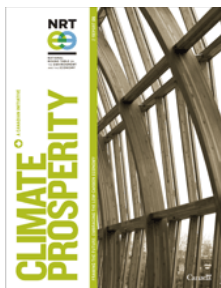
The Council of the Federation. *A Shared Energy Vision for Canada.*
councilofthefederation.ca/
pdfs/energystrategy_EN.pdf



BlueGreen Canada:
More Bang for our Buck: How Canada Can Create More Energy Jobs and Less Pollution.
bluegreencanada.ca/
more-bang-for-our-buck



Pembina Institute.
Competing in Clean Energy.
pembina.org/pub/2406



National Round Table on the Environment and the Economy. *Climate Prosperity.*
nrtee-trnee.ca/wp-content/
uploads/2012/10/framing-
the-future-report-eng.pdf



Insurance Bureau of Canada.
Telling the Weather Story.
ibc.ca/en/natural_disasters/
documents/mcbean_report.pdf



Clean Energy Canada:
tidescanada.org/energy/

An important way Canadian local governments can share knowledge and best practices is through Partners for Climate Protection, the Canadian part of a global campaign led by ICLEI (the International Council for Local Environmental Initiatives) and the Federation of Canadian Municipalities. Through this program, Canadian municipalities are part of a network of more than 900 communities worldwide that are committed to reducing greenhouse gases and taking action on climate change. www.iclei.org

ICLEI Local Governments for Sustainability

> About the authors

James Glave writes on a wide range of climate change solutions, with a particular interest in green buildings and neighbourhoods. He works with Clean Energy Canada at Tides Canada.

John Chapman has a particular interest in risk management and strategic planning. He is a graduate of the School of Community and Regional Planning at UBC, where he specialized in development and urban planning.

Robert Duffy, Columbia Institute Research Analyst, holds a Masters in Communications from Simon Fraser University. He writes widely on topics of interest to local governments.

Charley Beresford is Executive Director of the Columbia Institute. Climate change and social equity challenges are at the forefront of her work with the Institute.



The Columbia Institute fosters individual and organizational leadership for inclusive, sustainable communities. We nurture strong local leadership, and support community leaders with cutting-edge research on emerging issues through our Centre for Civic Governance.

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CENTRE FOR CIVIC GOVERNANCE



City of Richmond

Report to Committee

To: Public Works and Transportation Committee

Date: May 28, 2013

From: Tom Stewart
Director, Public Works

File: 10-6650-08-01/2013-
Vol 01

Re: 2012 Annual Water Quality Report

Staff Recommendation

That the 2012 Annual Water Quality Report dated May 28, 2013 be received for information.

Tom Stewart
Director, Public Works
(604-233-3301)

Att. 2

REPORT CONCURRENCE	
CONCURRENCE OF GENERAL MANAGER 	
REVIEWED BY DIRECTORS	INITIALS: DW
REVIEWED BY CAO	INITIALS:

Staff Report

Origin

In 2001, the Province of British Columbia enacted the Drinking Water Protection Act, which provided the Minister of Health with the authority to implement and enforce standards for water supply systems in British Columbia. In May 2003, regulations to be implemented under the Drinking Water Protection Act were adopted by the legislature as the Drinking Water Protection Regulation.

Analysis

The Drinking Water Protection Regulation requires water purveyors in BC to possess an Operating Permit, which in effect, confirms that the Drinking Water Officer (DWO) for the area has approved the water supply. The DWO is given the authority to monitor water purveyors to ensure they are providing safe drinking water through compliance with the British Columbia Drinking Water Protection Regulation (BCDWPR), and any other conditions of the Operating Permit.

Under the BCDWPR, the City of Richmond is required to:

- Develop and maintain a process to notify the Medical Health Officer (MHO) and the Drinking Water Officer (DWO) of situations or conditions that render or could render the water unfit to drink;
- Implement and maintain a plan for collecting, shipping and analyzing water samples in compliance with the direction set by the DWO and;
- Implement and maintain a plan for reporting monitoring results to the DWO and to water users

The foregoing requirements are satisfied by the attached 2012 Annual Water Quality Report.

Highlights of the 2012 Annual Water Quality Report include:

- Richmond residents enjoyed high-quality, reliable drinking water.
- 1,957 water samples were collected to ensure water quality. All samples passed with outstanding results.
- Test results confirm the high quality of the water and our continuous improvement over previous years, primarily due to additional water utility funding, resulting in additional proactive water main replacement prior to actual failure.
- 37.7M cubic metres of water were purchased in 2012.
- Water maintenance programs and capital improvements projects that were funded through Water Utility rates.

- Richmond's two mobile water supply units and ten smaller units used in many community events providing potable water to the public and promoting tap water usage.
- Water education: The educational programs, Project WET and "H2Whoa!" represent the partnership between Richmond School Board and Public Works where elementary school students learn about the benefits of water awareness and conservation.

These and many other initiatives are detailed in the attached "2012 Annual Water Quality Report".

Financial Impact

None

Conclusion

This plan has been reviewed and endorsed by the MHO (Medical Health Officer of Vancouver Coastal Health Authority) for the City of Richmond and satisfies Provincial requirements under the Drinking Water Protection Act.



Doug Anderson
Manager, Water Services
(604-233-3334)

2012 Annual Water Quality Report Summary



Water Services staff collected 1,957 water samples from 39 sampling sites to ensure water quality is maintained. The province has designated the City of Richmond as a Level III water distribution facility. To ensure water quality is maintained to its highest standard, staff must be certified operators to work within the distribution system.

Richmond is dedicated to promoting the value of municipal tap water, maximizing opportunities for use of tap water in municipal facilities and developing strategies for making tap water the “water of choice” in our community.

How does Richmond provide high quality tap water?

- Test results confirm high quality water and demonstrate continuous improvement. For example, of 1,957 samples submitted for testing, zero coliforms were detected.
- Continuous preventative maintenance and monitoring.
- Richmond’s Water Services staff provides the water system with the highest degree of care to ensure that it’s an inhospitable environment for any harmful bacteria or toxins. Staff are trained and certified to a Level III with the Environmental Operators Certificate Program (EOCP) of BC as mandated by the BC Drinking Water Protection Act.
- Proactive water main replacement projects. Water maintenance programs and capital improvements projects are funded through Water Utility rates.

Multi-Barrier Approach

- Richmond recognizes that in order to provide the highest quality water, several methods must be used to ensure its superiority—hence the “Multi-Barrier Approach”.

The “Multi-Barrier Approach” includes:

- Disinfection of the water at the source
- Water quality monitoring capabilities at six PRV sites
- Weekly microbiological testing
- System operators that are certified by the Environmental Operators Certification Program of BC
- Employment of maintenance practices that are of the highest standard

Heterotrophic Plate Count (HPC)

- The HPC indicates the presence of nutrients that could facilitate the growth of harmful bacteria such as Ecoli.
- HPCs indicate the presence of nutrients in the water system.
- By reducing the HPC levels, the possibility of bacteriological re-growth is essentially reduced.

- Several studies support the presence of high HPC levels in some bottled water products.
- The minimal positive chlorine residual in our water also disinfects and eliminates harmful substances within our distribution system.

2012 Results

- Provided approximately 37.7 million cubic metres of the highest quality drinking water to Richmond residents.
- There was no detected fecal coliform.
- Typically, our HPC ranges remain below 2 CFU/mls (CFU: Colony Forming Unit). While other water purveyors obtain results demonstrating HPC levels well over 1,000 CFU/mls on a regular basis, Richmond measured one occurrence of 430 CFU/mls and immediate steps were taken by operators to correct this issue.
- Through the Leak Detection program, 36 non-visible leaks were discovered and repaired.
- All of 4,641 fire hydrants are regularly maintained to ensure functionality in the event of an emergency or for water quality assurance measures such as flushing.
- Without compromising the integrity of the water distribution system, 18 water main breaks were repaired.
- To provide for increased fire flows and longer service life, 6,590 meters of water mains were replaced.

Summary

Richmond residents will continue to enjoy drinking water that is fresh, reliable and of high quality. It is without a doubt that the City of Richmond consistently excels at providing tap water of excellent quality!



City of Richmond 2012 Annual Water Quality Report



Richmond is dedicated to promoting the value of municipal tap water, maximizing opportunities for use of tap water in municipal facilities and developing strategies for making tap water the “water of choice” in our community.

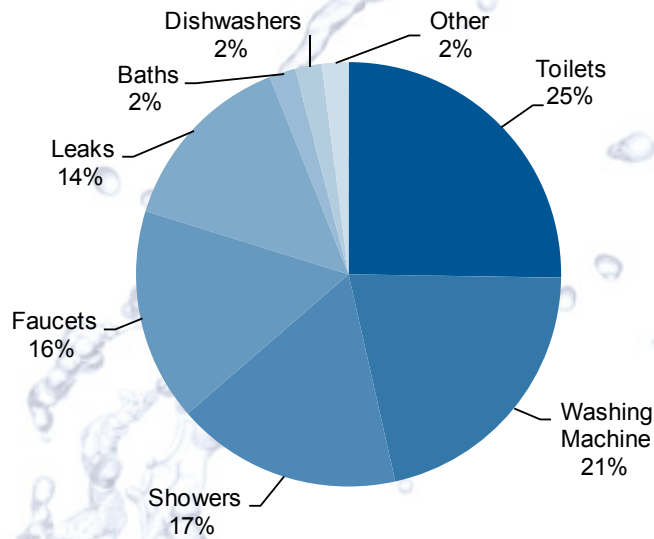
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Typical Household Water Usage

Fixture/Appliance	Litres Used
Fast drips	750 litres used per week
Steady stream	3785 litres per week
Toilet flush	4.8 to 30 litres per flush
Fraction of leaking toilets	up to 30%
Showering	5.7-18.9 litres per minute
Bathtub	115 to 190 litres per full tub
Washing machine	170 to 190 litres per cycle
Dishwasher	40 to 55 litres per minute
Kitchen faucet	7.6 to 11.3 litres per minute
Bathroom faucet	7.6 to 11.3 litres per minute
Slow & steady drips	280 litres per week
Car washing	Approximately 400 litres per car
Lawn watering	10 to 35 litres per minute

Table from Metro Vancouver 2012 www.metrovancouver.org



Executive Summary

The purpose of this report is to fulfill the requirements set out in the Drinking Water Protection Act by giving an overview of the water distribution system, describing the maintenance conducted, detailing some of the unique features of the system and, providing the results of Richmond's water quality testing program.

Test results confirm high quality water and demonstrate continuous improvement. Richmond's water system is provided with the highest degree of care to ensure that it's an inhospitable environment for any harmful bacteria or toxins. Also, Water Utility funding results in proactive water main replacement projects that will ensure the overall health of the system well into the future.

In 2012, the City of Richmond's Water Services staff undertook the following:

- provided approximately 37.7 million cubic metres of the highest quality drinking water to Richmond residents and businesses. The 37.7 million cubic metres represents a 7% increase in water purchases over 2011
- conducted 1,957 microbiological tests
- detected no fecal coliform in any test
- maintained 14 pressure reducing valve (PRV) stations
- replaced 6,590 meters of water main to provide for increased fire flows and longer service life
- maintained 4,641 fire hydrants to ensure water is available during an emergency
- repaired 18 water main breaks without compromising the integrity of the water distribution system
- discovered and repaired 36 non-visible underground leaks through Richmond's leak detection program
- hosted over 200 students from Richmond elementary schools as part of the annual educational program: Project WET
- organized the "H2Whoa!" theatrical presentations at 16 Richmond elementary schools, teaching students in grades K-7 all about water, the water cycle and water conservation. This program will run in Spring 2013

The City of Richmond's Water Services section takes their role as water purveyor very seriously and is proud to be the guardian of such a precious resource.



Introduction

In 2002, the City of Richmond implemented a Drinking Water Quality Monitoring Program. This monitoring program was developed in accordance with the British Columbia Drinking Water Protection Act (BCDWPA), the Water Quality Monitoring and Reporting Plan for Metro Vancouver and Member Municipalities, the Guidelines for Canadian Drinking Water Quality (GCDWQ), with input from the Vancouver Coastal Health Authority.

The Vancouver Coastal Health Authority requires the City of Richmond provide the *Annual Drinking Water Quality Report* so that we can maintain our operating permit. Richmond's Medical Health Officer (MHO) has reviewed the report. As requested, this report will be made public. It provides important information concerning Richmond's water distribution system and water quality for Richmond residents.

The conditions set out in the Drinking Water Protection Act, require that all water systems in BC be classified as a Level I through IV facility. As our system has been classified as a Level III facility all staff responsible for the maintenance and operation of it must have a valid Level III Operator's Certificate and be in good standing with the Environmental Operators Certification Program of BC. To obtain and maintain a Level III Certificate staff must successfully complete yearly training that includes some very technical courses. This is done to ensure they can respond appropriately to problems before they become a risk to health or property. We take a great deal of pride in the way we operate our system which shows in the results of the provincially mandated, microbiological testing program.

Some of the requirements of the Drinking Water Protection Act include:

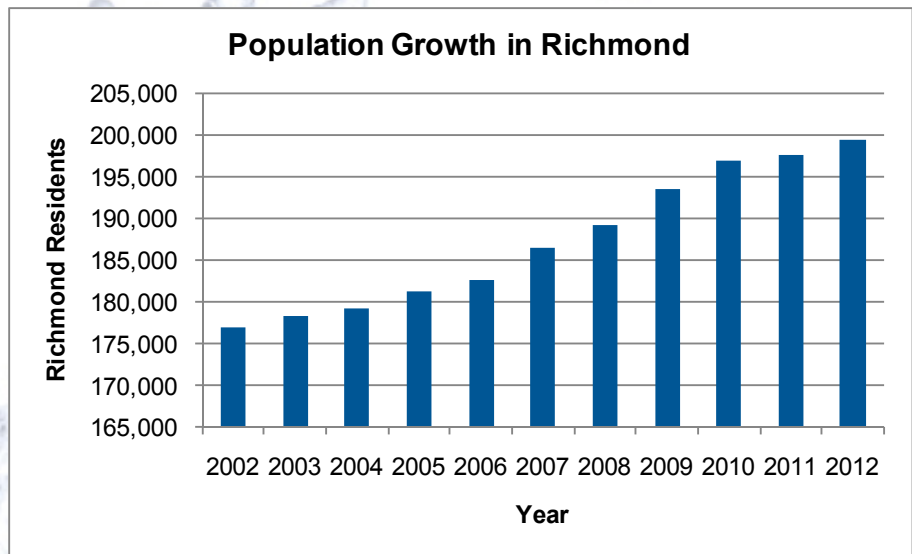
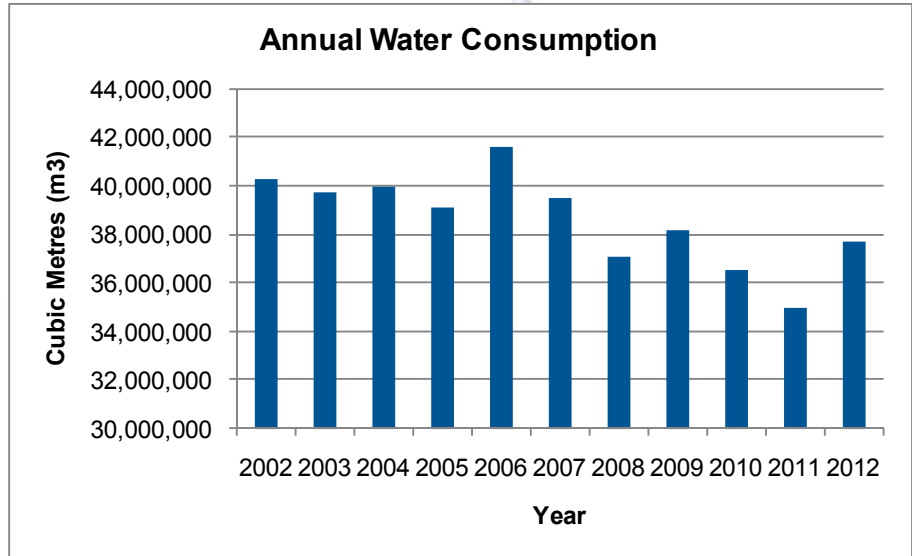
- Ensure the City's water distribution system is classified under the criteria for the Environmental Operators Certification Program and that Water Services staff are certified to the same level as the distribution system.
- Develop a process to notify the MHO of any condition that could render drinking water unsafe.
- Implement a sampling program that adequately represents all areas within the City.
- Meet the requirements of the BCDWPRA, and ensure test results are immediately available to the MHO.
- Receive an annual construction permit for the construction, installation and extension of the water distribution system.
- Produce an annual public report detailing the results of the City's water quality monitoring program.



Quality standards for bottled water and tap water are similar. Both bottled water and municipally distributed tap water that meet or exceed their required health and safety standards, are considered to be safe.

Metro Vancouver Water District

In 2012, the City of Richmond purchased approximately 37.7 million cubic meters of drinking water from the Metro Vancouver Water District (formerly GVWD). This represents a 7.0% increase over the 2011 water purchase. This method of supply is similar for all other jurisdictions within the Regional District. The increase in consumption for 2012 is mostly due to residents moving into a number of the new residential developments and additional consumption due to a drier year.



*BC Stats estimate of total population for each year

Three watersheds supply regional water: The Capilano Reservoir, the Seymour Reservoir, and the Coquitlam Reservoir. The Capilano and Seymour Reservoirs combined, supply 70% of the water for the region. The Coquitlam Reservoir supplies the remaining 30%. Richmond receives the majority of its water from the Capilano and Seymour reservoir.

Water from these reservoirs can be directed through a series of valves and transmission water mains to any city or municipality within the Metro Vancouver region.

During periods of turbidity (cloudy water), a reservoir may be taken out of service if turbidity levels become elevated. Water is then supplied by the remaining reservoirs. This was the situation in October 2012, when the turbidity levels at the Capilano Reservoir became elevated due to a series of mudslides caused by heavy rainfall. The Capilano supply was taken out of service and Richmond's water was supplied from the Seymour Reservoir. The Capilano supply remained out of service until early March of 2013 and consequently Richmond received filtered water supplied through the Seymour-Capilano Water Filtration Plant. The plant has the capacity to filter up to 1.8 billion liters of water per day.

• **Source Water Quality**

Source water is provided directly from the watersheds by Metro Vancouver. Source water is tested for a number of microbiological, chemical, and physical parameters. For information related to source water, refer to *The Greater Vancouver Water District Quality Control Annual Report, 2011*, available from the Metro Vancouver's website (this is the most recent information available at this time).

www.metrovancouver.org/about/publications/Publications/2011WaterQualityAnnualReportVolume1.pdf

www.metrovancouver.org/about/publications/Publications/2011WaterQualityAnnualReportVolume2.pdf



The average Canadian uses 329 litres of fresh water on a daily basis. However in a recent study just 4% of Canadians were able to properly identify that Canadians use, on average, 329 litres of water a day. Most guessed that a significantly lower amount of water was used.



One hour of lawn sprinkling uses as much water as 25 toilet flushes, five loads of laundry and five dishwasher loads combined.

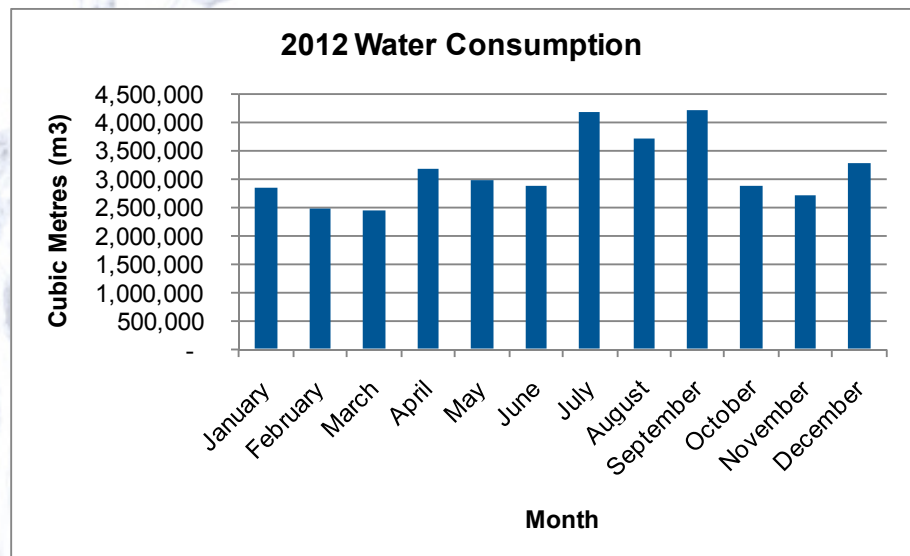
Water Distribution System Overview

The City of Richmond's water distribution system begins at 14 separate connections points along Metro Vancouver's transmission mains. At each connection point there is a City owned pressure reducing valve chamber. The City's responsibility for water quality begins at this chamber and ends at the residential/commercial property line. An outline of the City's water supply and distribution system is provided below:

Table 1 – Overview of Richmond's Water Distribution Network

Water Assets	2012 Count
Water Works Valves	10,352
Water Works Hydrants	4,643
Water Works PRV Chambers	14
Water Works Piggling Chambers	7
Water Works Caps	501
Water Mains	648.60 km
Water Connections Total	29,589

The City maintains 14 pressure-reducing valve stations (PRV's). These stations decrease the transmission pressure of Metro Vancouver's mains to Richmond's operating pressure. Ten of these facilities are connected to a remote telemetry system (S.C.A.D.A.) that provides real time data on water quality, pressure, and volume. It also allows certified Water Services staff to react to problems quickly and effectively, 24 hours a day, seven days a week. The S.C.A.D.A. monitoring equipment will eventually be installed in the four remaining PRV stations to ensure early detection and prompt response to any problems with the water distribution system. In early 2011, the City's Engineering and Public Works staff embarked on a project to install meters at all 14 PRV stations so that the City would have an accurate way of measuring the amount of water it receives from the Metro Vancouver Transmission System. These meters were primarily installed as the first step in implementing a new Water Loss Management Program.



The graph indicates the monthly water consumption in Richmond. It is presumed that most municipalities in North America lose anywhere from 12% to 15% of their potable water to undiscovered, underground leakage. The Water Loss Management Program will allow City Engineering and Water Services staff to determine the total amount of water consumed through normal operational programs and practices such as single family residential, multi-family residential and commercial metering programs. While combining these programs with water main flushing, parks and median irrigation, and Richmond Fire Rescue water usage for fire fighting and training purposes, it is reasonable to assume that the unidentified portion of the annual water consumption may well be attributed to water loss within the distribution system. In the past, the City of Richmond had no way of confirming that the amount of water billed for by Metro Vancouver annually matched the amount of water received by Richmond's distribution system.



A leaking service line or pipe in your home can add up to serious water waste. A small hole in a pipe (1.5 mm) wastes 280,000 litres of water in a three-month period. That is enough water to do about 900 loads of laundry.



Nelson Road PRV Station

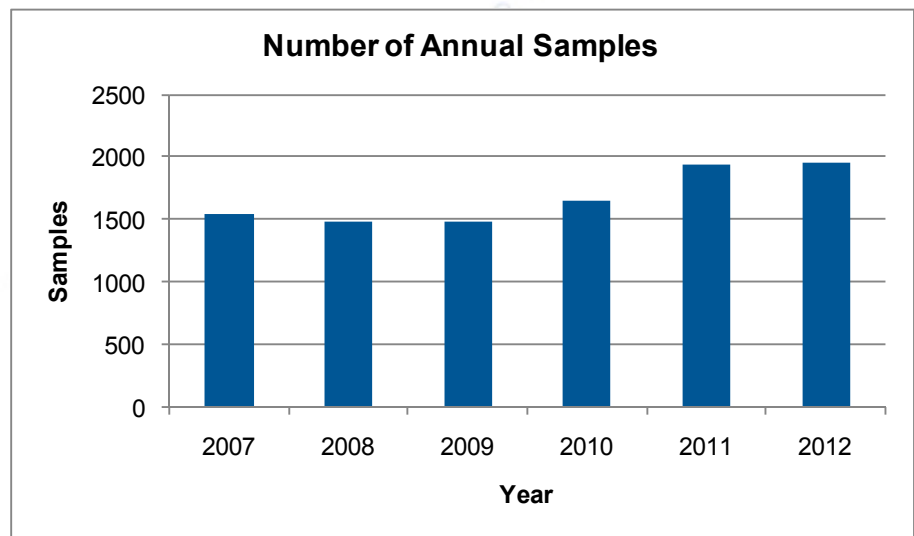


Lawns need only 25 millimetres (1 inch) of water per week, including rain. Longer, infrequent watering will help to develop deeper, healthier roots. Keep your grass two to two and half inches high and you will help the soil retain moisture and reduce evaporation from sunlight and wind.



Water Quality Monitoring

In 2012, the City of Richmond collected samples on a weekly basis at 39 dedicated sampling sites. These sites are strategically located throughout the City to give a good representation of the City's water quality across the distribution network. In 2012, 1,957 water samples were collected by Richmond Water Services staff and sent for analysis at Metro Vancouver Laboratories. These sample results were reviewed by the Vancouver/Richmond Coastal Health Authority to ensure the drinking water met the standards outlined in the BCDWPR.



Bacteriological Tests

The City of Richmond and Metro Vancouver conduct bacteriological tests for total coliform, fecal coliform and heterotrophic plate counts (HPC). The presence of these organisms in drinking water indicates that the water may be contaminated and may contain potentially harmful bacteria, viruses or parasites. Beginning on April 1, 2006, the BC Drinking Water Protection Regulations required additional monitoring for *Escherichia coli* (E. coli).

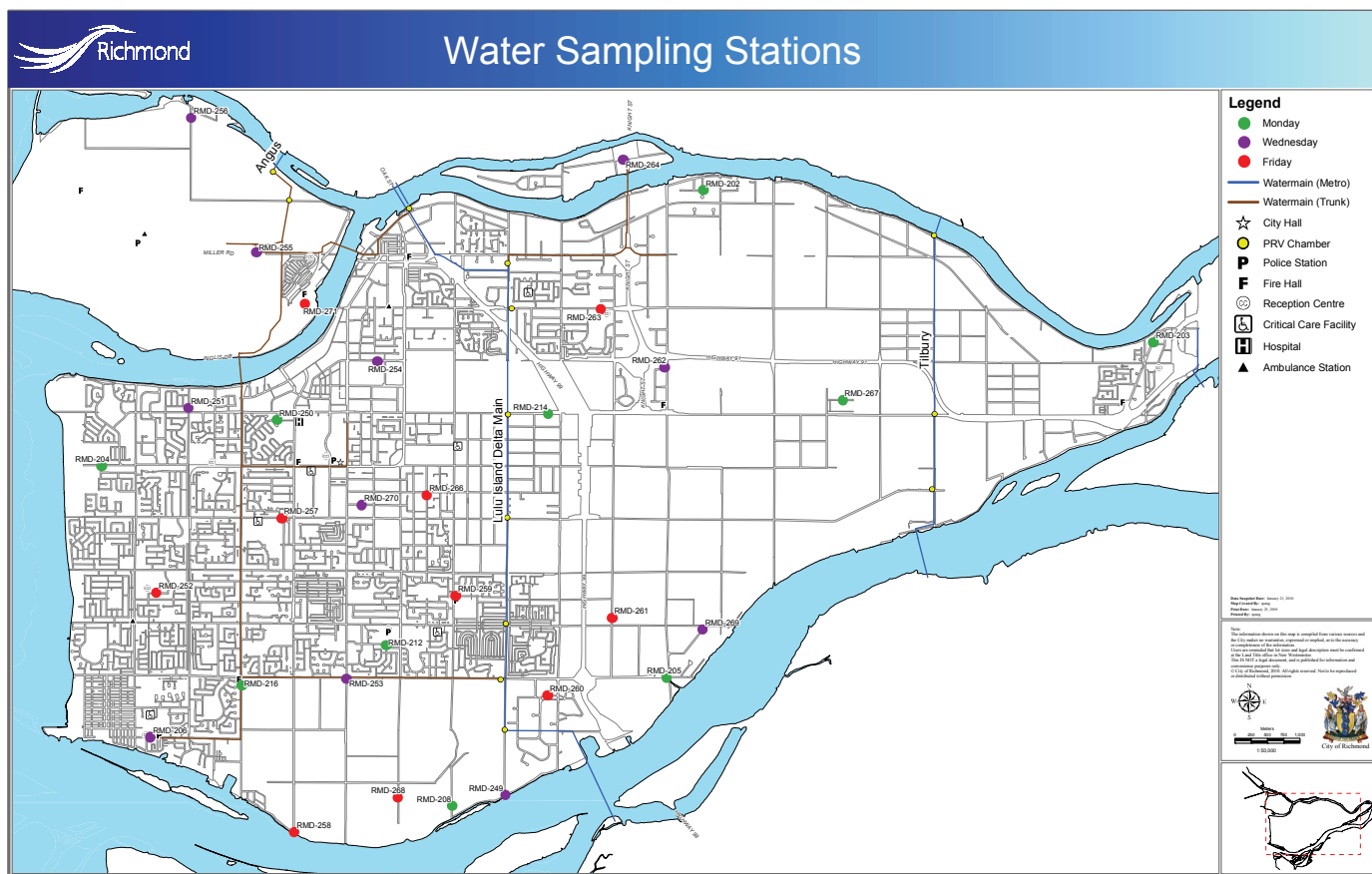
Total Coliforms

Total coliform bacteria reproduce in water, soil, or the digestive systems of animals. The presence of total coliforms indicates water may have been contaminated and that the disinfection process is inadequate.

In distribution systems where more than 10 samples are collected in a given sampling period, as is the case in Richmond, no consecutive samples from the same site or no more than 10% of samples should show the presence of total coliform bacteria.

Testing for total coliforms should be carried out in all drinking water systems. The number, frequency, and location of samples for total coliform testing will vary according to the type and size of the system and jurisdictional requirements.

Provincial standards state that no sample can contain more than 10 total coliforms per 100 milliliters, and that 90% of samples in a 30-day period must have zero coliform organisms.



Fecal Coliforms

Fecal coliforms are present in large numbers in the feces and intestinal tracts of humans and other warm-blooded animals, and can enter water bodies from human and animal waste. They are key indicators of sewerage contamination. Due to diseases and parasites, which are spread through sewerage, provincial standard state there can be no detectable fecal coliforms per 100ml sample.

Results


In 2012, 1,957 water samples were collected by City staff and analyzed by Metro Vancouver Laboratory staff. All samples met drinking water requirements for fecal and total coliforms. The City of Richmond was in compliance with BCDWPR for bacteria in 2012.

Failed Samples

The standard response to a failed water sample, should there be one, is to:

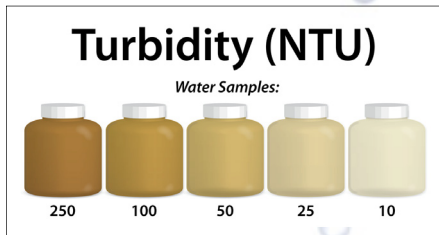
1. Re-sample at the site
2. Flush the water main extensively
3. Re-sample

The water main is then isolated to one feed until test results confirm compliance with BCDWPR regulation.

 *Leave grass clippings on your lawn. They'll help trap moisture to reduce evaporation and break down to feed your lawn naturally.*



Water plants early in the morning to avoid evaporation from the sun and wind. Watering in the middle of the day increases the amount of water lost to evaporation by as much as 40%. Conversely, watering in late evening lets droplets remain on leaves, which can promote plant diseases.



Turbidity Demonstration

Heterotrophic Plate Count

HPC tests measure aerobic heterotrophic bacteria. This test is useful in monitoring the effectiveness of disinfection and in determining changes in water quality during treatment and distribution. HPC tests indicate the onset of bacterial re-growth within the distribution system commonly due to stagnant water contained in dead end and low flow water mains. In 2012, 2 of 1,957 (32 samples of the total of 1957 samples were not tested for HPC levels) exceeded regulated levels for HPC's at >500 CFU/mls. Water Services staff flushed the corresponding section of water main until a satisfactory result was obtained and verified through additional sampling procedure. No results indicated increased levels of fecal or total coliform bacteria in any samples collected and analyzed.

Physical Parameters

Water in Richmond's distribution system is tested for the physical parameters of turbidity and temperature at the same time as bacteriological testing. Information is also collected on the taste and odour of Richmond's water by actively tracking water quality complaints.

Turbidity

Metro Vancouver is responsible for the quality of Richmond's source water. Turbidity, a measure of water clarity, was monitored on a regular basis in 2012. Turbidity is measured in Nephelometric Turbidity Units (NTU). In 2001, the Chief Medical Health Officer (CMHO) made it a requirement that the Metro Vancouver Water District must meet the British Columbia Drinking Water Protection Regulation's (BCDWPR) criteria for drinking water quality. The guideline for turbidity (cloudiness) was established at ≤ 1 NTU. Early in 2006, Health Canada published a new guideline for turbidity, which includes requirements for unfiltered water sources. The new guideline allows for turbidity levels up to 5 NTUs providing source water protection, monitoring, and water treatment requirements are met including increased levels of residual chlorine. We are concerned about turbidity because studies have shown that as turbidity increases, the risk of gastrointestinal illness increases. Increased turbidity compromises the drinking water disinfection process.

In general, sites with elevated turbidity are located in sections of the distribution network where there is low demand on the water system or where dead end water mains exist. During the year, when sampling indicates a turbidity level greater than >5 NTU's, affected water mains in the test area are flushed, and re-tested until a satisfactory result is obtained.

In 2012, all but one of the 1,957 samples collected from the City's water distribution system met the aesthetic objective of ≤ 5 NTU at the tap. Water Services staff flushed the water main at that location until a more satisfactory result was recorded. Further sampling results confirmed that the condition of the water at the site was back within required parameters.

The original BCDWPR requirement that turbidity levels are ≤ 1 NTU was not met for 33 of 1,957 samples tested in 2012. This number is up compared to 2011 when there were 6 instances of >1 NTU recorded.

Year	HPC CFU/mls > 5NTUs
2007	6 of 1,543
2008	1 of 1,483
2009	3 of 1,489
2010	0 of 1,649
2011	1 of 1,936
2012	33 of 1,957

The majority of elevated results in 2012 were only slightly higher than 1 NTU, and were lower than 5NTU which did not pose any serious threat to the water quality. The increase in samples of >1 NTU may be attributed to sediment disturbance in the distribution system. The new Seymour-Capilano Filtration Plant is a major contributor in the control of turbidity in the water distribution system. However, the full potential of the filtration plant will not be realized until 2014, when the tunnels which will deliver water from the Capilano water shed to the filtration plant at the Seymour water shed are finally put into service.



If you shorten your shower time from 10 minutes to 5 minutes or less while using a 9.5 litre per minute (lpm) showerhead, you can save up to 40 litres of water each time you shower. You can also save water by turning off the water while lathering in the shower.



Capilano Water Filtration Projects

Temperature

High temperatures in the distribution system can affect the residual level of chlorine and can contribute to bacterial re-growth. Typically, the temperature of drinking water in the distribution system rises during summer months. Samples exceeded the aesthetic guideline of 15 °C 42 times out of 1,957 samples with temperatures as high as 20 °C were recorded. The majority of these elevated temperatures were recorded during the summer months.



Recycle unused water. While waiting for hot water to flow when preparing for a shower, catch the cool water in a bucket or water can. Later it could be used for your plants, pets or cleaning.



Seymour-Capilano Water Filtration Projects



Seymour Falls Dam Upgrade

Taste and Odour

Taste and odour are only monitored in response to customer complaints. Records indicate that 9 complaints were received regarding taste and 4 complaints were received regarding odour in 2012. These complaints generally relate to high levels of residual chlorine in that part of the system at that particular time. Residents who complained about taste or odour problems were advised to flush their internal system. If the problem was not resolved, Water Services staff were dispatched to the location where they flushed the corresponding sections of water main until a satisfactory result was obtained and verified through laboratory analysis.

Chemical Parameters

The City of Richmond in partnership with Metro Vancouver tests for the following Chemical parameters; chlorine residual, trihalomethanes (THM), haloacetic acids (HAA), and pH. Periodic testing is also performed to determine heavy metals levels in the water system.

Free Chlorine Residual

Chlorine residual is a measurement of the disinfecting agent remaining in the distribution system at the point of delivery to the customer. Ensuring proper levels of chlorine in the distribution system is essential in protecting Richmond's water supply from bacteriological contamination or re-growth. In recent years, the City has made great progress in improving chlorine residuals by implementing various flushing programs. In 2012, 3 out of 1,957 samples did not meet the guideline for adequate chlorine residual in the water distribution system, but these never reached the point where there was no residual present. Richmond Water Services staff recognized the deficiency immediately in the water sample results and flushing of the affected sections of water main was immediately carried out until the chlorine residual was elevated to a suitable level.

There were 2 sites in Richmond that had been identified as problem areas for maintaining adequate chlorine residual levels on a regular basis. The Water Services division had installed environmentally friendly automatic flushing units which flush the water main at pre-scheduled times to help maintain adequate chlorine residual levels at all times. At one of these sites staff were able to remove the automatic flushing station because the water system was modified at Triangle Road in the first quarter of 2011. The flushing unit is no longer required at this site.

The automatic units are used to minimize the labor costs associated with manual flushing procedures.

Disinfection By-Products

Disinfection by-products are potentially harmful compounds produced by the reaction of a water disinfectant (such as chlorine or ozone) with naturally occurring organic matter in water. Two common chlorination by-products are Trihalomethanes (THMs) and Haloacetic Acids (HAAs). In drinking water, THMs can enter the human body via multiple routes of exposure. These include ingestion by consuming water and inhalation and skin absorption from showering and bathing. THMs are not actually regulated and are only a guideline as they only come under GCDWQ with an interim maximum acceptable concentration (IMAC) of 100 ppb (parts per billion). The 100 ppb level for THMs is based on an annual average. High levels on a particular day are not of concern unless they are consistently high over a period of time. Typically, THM levels will be highest in the summer and lowest in the winter months. In 2012, the City utilized the Metro Vancouver laboratory to perform quarterly tests for HAA's and THM's. These were carried out at representative sampling sites in accordance with a joint Metro Vancouver/Richmond monitoring plan. In 2012, all results were within acceptable levels as defined in the GCDWQ. (Appendix 5)



Replace your showerhead. Older models use 18 to 30 lpm while water-efficient models use 9.5 lpm or less. Ultra-high efficiency showerheads use as low as 5.6 lpm. A family of four could save up to 160,000 litres of water in one year with a 9.5 lpm showerhead, and even more with a 5.6 lpm showerhead. Reducing your water in the shower will also save you money on your water and energy bills.



*Reduce the number of times
you flush your toilet with
multiple uses before flushing.*

Currently there are no regulations or guidelines for HAA in Canada; a maximum level of 60 ppb (parts per billion) has recently been adopted in the United States.

pH Value

The measurement of acidity is known as pH. A pH below 7.0 is considered acidic, above 7.0 is considered basic, with 7.0 being neutral. In 2012, Metro Vancouver treated water recorded a pH of 6.5 to 7.2 meeting the aesthetic objective. It is recognized that acidic water will accelerate the corrosion of metal pipes, often causing blue-green staining in household fixtures.

The new Seymour-Capilano filtration plant includes pH adjustment and corrosion control in its treatment processes. It is expected that the pH of drinking water will rise in the coming years as the filtration plant reaches its full potential in 2014. This will extend the life span of water plumbing systems and enhance water quality.

Metals

The City's water quality program also includes testing for metals, such as copper, iron, lead, and zinc. All results were within GCDWQ limits for 2012. Complete test results are included in Appendix 6.

Challenges and Issues

The City of Richmond faces a number of challenges to maintain the water distribution system, including:

- Annual Water main flushing programs. These programs prevent the build up of sediment deposits and discourage bacterial re-growth. In 2012, the annual flushing program was not implemented and only demand flushing was performed to ensure water quality was maintained. It is anticipated that the new filtration plant will further minimize the need to flush water mains. The target is to develop a five year flushing program, during which 20% of the water distribution system will be flushed each year. The start date for this program is scheduled for the Spring of 2013.
- In 2012, there were 18 water main breaks. Water main breaks remain a possible source of contamination. Assessment of the appropriate level for the water main replacement program is currently on going by the City's Engineering Planning and Water Services sections.
- Richmond has a large number of dead end and low flow water mains, this leads to reduced levels of chlorine and increased HPC counts. Weekly and monthly flushing programs minimize these water quality issues. City staff intend to eliminate dead end water mains by creating looped systems wherever possible in the future.
- Water service connection failures continue to be a maintenance issue. This is mostly attributed to service piping materials that have not met projected service life or have reached the end of anticipated life expectations. In 2012, the Water Services division continued to perform upgrades to water service lines in areas where these material problems have been identified.
- A strong focus on staff training is on going to ensure a succession plan is in place. High priority has been set around staff training and development.



Replace your old toilet with a high efficiency 4.8 lpf model (HET), or a dual 3/6 lpf model. Older models can use as much as 13 to 26 litres of water per flush. A family of four can save up to 30,000 litres of water a year with a HET toilet. That's a 20% reduction in household consumption.



Do not use the toilet as a garbage can. Tissues and other items are often flushed away instead of going into appropriate disposal containers. Unnecessary flushing of the toilet even once a day can waste up to 1,000 litres of water per year.

Current and Proposed Work

In 2012, the following work was completed to ensure the quality of water provided to customers by the City:

- Continued progress on the metering projects for both single and multi-family residential customers.
- On-going water main replacement program.
- PRV station upgrades, both for seismic retrofitting and installation of S.C.A.D.A systems.
- A program to upgrade water supply lines where there has been on-going maintenance issues. This includes the installation of water meters at these sites to support the water metering program.

The following work is planned for 2013:

- Continued residential water meter installations through the volunteer programs, capital projects and planned maintenance programs.
- Continued meter installations at multi-family complexes.
- \$7.5 million in water main upgrades through the Capital Water Main Replacement program.
- On-going additional PRV station upgrades.
- Continued implementation of a comprehensive water loss management and leak detection program to ensure effective financial management of Richmond's Water Distribution System.

Annual System Maintenance

The following annual maintenance functions were undertaken by the City of Richmond to maintain water quality in distribution system in 2012.

Water Sampling and Analysis

2012 Budget: \$74,300.00

Sampling and analysis are conducted on an on-going basis in conjunction with Metro Vancouver. Sampling results are reviewed by the Medical Health Officer (MHO). The City takes approximately 1600 water samples in a year.

S.C.A.D.A

2012 Budget: \$179,500.00

- This program currently provides for maintenance and operation of the City's Supervisory Control And Data Acquisition system. S.C.A.D.A allows for the collection of real-time data related to water quality and the City's water distribution system in general.

Water Main Flushing

2012 Budget: \$211,300.00

The Water Services Division conducts weekly, monthly and, in some areas, annual flushing programs to remove sediment in order to maintain water quality. Targeted flushing in a number of areas has greatly improved levels of chlorine residual. The City continues to explore ways to improve residual chlorine levels through water modeling, the replacement of dead end water mains, and the installation of automated flushing stations.

Demand Water Main Flushing

2012 Budget \$60,000.00

This program covers unscheduled flushing of water mains due to bacteria, turbidity, or other water quality issues. The City responded to 119 water quality complaints in 2010. This number is down from 148 incidents in 2009.

Cross-Connection Control

2012 Budget: \$38,800.00

This program covers money spent to prevent contamination from entering the system via uncontrolled "cross-connections". The installation of back flow prevention devices and the review of new plumbing installations protect the public from this threat. The use of fire hydrants for construction is also a potential source of backflow. To prevent contamination, City staff are required to install a "backflow prevention" device before a hydrant is used for any type of construction work. City Meter Shop staff also test backflow devices installed on internal plumbing systems at all City owned facilities.



Keep a jug of drinking water in the refrigerator instead of running the tap for cold water.



In 2012, the Water Services section responded to 1,848 water related customer service requests.

Blow Off/Scour Valve Installations

2012 Budget: \$31,900.00

This program is for the installation of blow off valves throughout the City. These valves are located on streets where no fire hydrant is available for flushing, and water quality may become an issue. The current service level for this program budgets for the installation of 4 blows off valves per year. These valves allow for effective operation of our annual flushing program.

Water Main Replacement

2012 Budget: \$7,500,000

To reflect the 100-year life of Richmond's water distribution system comprising of asbestos cement, plastic (C-900) and steel water mains, an annual expenditure of approximately \$7.5M is required to maintain the replacement cycle. Provisions have been made in the long-range financial plan to maintain this level of funding within the next few years.

Mobile Emergency Response Unit

The Water Services division has a mobile unit for use during major emergencies caused by cross contamination events or natural disasters. This unit is capable of taking a non-potable water supply such as Minoru Lake or water from the Fraser River, which has a very high saline content through a combination of five stage filtration processes to produce potable water. The unit is capable of producing 21,000 gallons of potable water per day from non-saline, non-potable supplies or 14,000 gallons of potable water per day from water supplies, which have a saline content. This unit is one of only two such units in British Columbia and is the only unit in British Columbia capable of filtering water from the Fraser River if necessary. This unit can also be used to assist staff when chlorination and de-chlorination of new and existing water infrastructure prior to activation.



Plan ahead so that frozen food doesn't need to be thawed under running water or fill a bowl with cold water to thaw the food.



Mobile Emergency Response Unit



Scrape dishes instead of rinsing them under running water before loading your dishwasher. For heavy cleaning of grills or oven parts pre-soak them overnight.

Water Conservation Programs

Toilet Rebate

The City of Richmond's Toilet Rebate Program provides a utility tax rebate of \$100.00 to homeowners who install a low-flush toilet. Single and multi-family homeowners are eligible to apply for a lifetime maximum of two rebates per household. Industrial, commercial and other non-residential properties are not eligible at this time.

The purpose of the toilet rebate program is to encourage homeowners to replace high volume toilets with low-flush toilets to conserve water and to reduce costs. Homeowners will enjoy a reduction in their utility bill while contributing to a sustainable water conservation initiative.

Rain Barrel

The rain barrel program promotes water conservation and sustainability by collecting and storing water for outdoor usage such as watering your garden. Using rainwater will reduce the amount of tap water you use, therefore, saving money on your utility bill. Other benefits include:

- Decreasing water demand during peak summer months and using it as a backup water source for outdoor usage during times of drought.
- Decreasing the strain on water treatment facilities and municipal drainage systems during storms.
- Reducing the amount of water entering the sewerage treatment facility.
- Maintaining healthy plants and lawn because rainwater is chlorine-free.
- Preventing drainage problems around your home's foundation.

Rain barrels may be purchased at the City's Recycling Depot by Richmond residents only. The City offers 45 gallon barrels (202 litres) and 50 gallon barrels (225 litres) for \$20.00. In 2011, the City of Richmond entered into an agreement with a local industry. Through the agreement the local industry provides the City with empty product barrels. The City retrofits the barrels for use as rain barrels. These barrels are available to the public at a cost of \$12.50. All rain barrels require a water diverter unit (\$16.00) to hook up to the downspout of the water runoff from the roof.

Single Family and Multi-Family Water Meter Programs

This voluntary water meter program was endorsed by Richmond City Council in 2003, and is designed as a strategy for fairness and equity of water use. The City of Richmond is working with Neptune Technology Group (Canada) Ltd. to implement a program that will allow residents to pay only for the actual amount of water they use, rather than being billed on the flat-rate system.

Why does Richmond have a Voluntary Water Meter Program?

In the face of rising water rates, Richmond residents wanted a more equitable way of paying for their water use. In response to these requests, the City developed the Water Meter Program.

Features:

- An installation process is required; costs estimates for your home would be determined by the City.

- Quarterly payments: When you switch to a water meter, your bill is divided over four smaller payments, one every three months, instead of paying everything at the beginning of the year. This enables you to track water usage more closely.
- Free water conservation devices: To help save you water and money, all volunteers qualify for a water conservation kit, which includes the following:
 - Low-flow showerhead
 - Low-flow faucet aerators (for kitchens and bathrooms)
 - Toilet leak detection dye tablets

For more information, please contact:
Richmond Water Meter Program: 604-271-9700
www.watermeter.ca



Compost kitchen wastes (organic matter) instead of using a sink garbage disposal system. Sink garbage disposal systems consume hundreds of litres of water each week to send matter down the drain, and increases the load for the water treatment facilities.



Washing machines use anywhere between 100–200 litres of water per load. Operate washing machines at full capacity and/or if your machine has a "suds-saver" feature, be sure to use it as this feature reuses the clean rinse water for washing the next load.

Water Outreach Programs

Project Wet

Project WET is an interactive elementary school water education program aimed at teaching students about the importance of water. Largely targeted for grades four thru seven, this program is designed to inform, educate and entertain students on the importance of water quality and supply.

Project WET is an exciting partnership program between the City of Richmond and the Richmond School District No. 38. The acronym "WET" stands for "Water Education Team". Our main objective is to promote higher-level thinking skills while learning about the fundamentals of water consumption, conservation, quality and waste in an interactive and fun environment.

Four Key Elements of Project WET are:

1. **Water as a System**—Tracing how water falls on the local mountains in the form of rain or snow, making its way through the water infrastructure system and arriving in our homes when we turn on the tap.
2. **Water Conservation and Water Quality**—Why water conservation and water quality are important, what the City is doing to sustain our water capacity and what students can do to help.
3. **Why Drainage is so Important**—The storm system carries wastewater to the river, in compliment with an essential ditch-drainage system in Richmond. Students will learn how these drainage systems work and the importance of keeping toxic materials out of ditches and storm sewers.
4. **Richmond is a Unique Island**—Richmond is the only city in North America completely surrounded by dykes. Students will learn why dykes are critical in Richmond and how important it is to maintain them.



Staff demonstrating the City's water systems



Staff educating students on acoustics

Tap Water Initiative

In 2010, Metro Vancouver initiated its tap water usage promotion. The intent of this initiative is to make the public aware of the locations of all municipal drinking fountains so that the public can refill water bottles or simply get a drink of water. It is hoped that this initiative will work towards reducing and eventually eliminating the need for the public to purchase bottled water, which will, in turn help to protect the environment. On April 14, 2009, a letter was signed by Mayor Malcolm Brodie indicating that the City of Richmond is dedicated to promoting the value of municipal tap water, maximizing opportunities for use of tap water in municipal facilities and developing strategies for making tap water the “water of choice”.

To support this initiative the City of Richmond Water Services division purchased two Tap Water Stations in 2011. Today, Richmond has two mobile water supply units that are used in many community events and all City endorsed functions to provide the public with potable tap water and to promote tap water usage instead of bottled water consumption. Staff are currently defining a process and implementing a system to support community interest of these units for events. Additionally, there are 10 drinking and bottle refill units strategically placed around the City for public usage. Samples from the tap water station are tested upon installation to ensure high water quality.

Open House

The Water Services division plays a large role in the annual Public Works Open House event. This is an opportunity to publicly acknowledge our operations staff who provide and maintain our infrastructure and services. Likewise, staff is able to showcase the work that is done on a daily basis to ensure the safety and health of the community. This event draws attention to the importance of public works in community life.



Buying a new washing machine? Consider purchasing a high-efficiency washing machine; they use up to 40% less water and 50% less energy than top-loading machines. They also use less detergent.



Tap Water Station at a community event



Drinking fountain at Moncton Street and Third Avenue



The rain barrel program continues to assist in reducing the amount of water used for irrigation during the summer months. In partnership with local industries, the City continues to promote water conservation.

"H2Whoa!" Theatrical presentation by DreamRider Productions

In 2012, the City of Richmond Water Services section helped organize the "H2Whoa!" theatrical presentations at 16 Richmond elementary schools. "H2Whoa!" teaches students in grades K-7 all about water, the water cycle and water conservation. Focus is on positive actions and educating family and friends on the use of water, the need to protect it and the importance to everyday living. Furthermore, the Water Services section requested that Richmond's high quality and very drinkable tap water be added to the script.

Public Notification

At the direction of the Richmond medical health officer (MHO), water quality advisories can be issued to the general public at large, small local areas, or issued recommending that immuno-compromised persons or the elderly and very young should boil, filter, or distil drinking water from surface sources. A sample of the drinking water quality advisory is included in Appendix 7.



In 2012, staff in the Meter Shop tested 238 cross connection devices for Facility Services.

Operator Qualifications and System Classification

Provincial drinking water standards require certification of both potable water systems and staff. This classification is done through the Environmental Operators Certification Program (EOCP). The Walkerton outbreak, which occurred in May 2000 serves as an illustration of the need to ensure system operators are properly trained. Operators need to know not only how to supply safe water on a day-to-day basis, but also how to respond to sudden source contamination, industrial spills, equipment failures, water main breaks, vandalism, and other emergencies.

System Classification

System classification involves the evaluation of a water system, to determine and rank its complexity. Levels of complexity range from “Small System”, to Class I through Class IV. Richmond is classified as a Class III water distribution system.

Operators Certification

“Section 12” of the Drinking Water Protection Act proclaims a person is qualified to operate, maintain or repair a water supply system if the person is certified by the Environmental Operators Certification Program (EOCP) to the same level as the system they operate. The implementation date for a Class III system was January 1, 2007.

Benefits of a Certification Program

With water and wastewater employees being properly trained and certified, the public, the corporation, regulatory agencies, and managers can be confident that water services and sewer and drainage staff have the skills, knowledge, abilities, experience, and judgment to competently perform their job.

Certified employees can:

- Maximize the performance of water and wastewater infrastructure
- Minimize health risks and environmental concerns
- Optimize operational cost
- Protect infrastructure investment

Certification has resulted in:

- Improved safety and reduced accident rates.
- Compliance with water/pollution control legislation.
- Enhanced career opportunities for certified operators, ease of hiring, promotion, and establishing of salary levels based on certification.



In 2012, 11 Water Services section staff attained certification through the Environmental Operator's Certification Program.

- Minimum qualification standards requiring operators to pass a comprehensive exam.
- A focus on the development of training materials based on "need to know" criteria.
- A means of recognition of peers, owners, and managers of the water distribution system.

Operator Training

Through obtaining certification, staff is being promoted to gain a better understanding of the work they perform, giving staff the confidence to make informed decisions. In 2011, the cost to maintain staff certifications was \$75,000 for the Water Services division. All staff are encouraged to take the courses, which will enable them to advance to higher levels given the Provincial requirement for Level III operators. In addition, participation in additional training seminars and courses is encouraged with fees paid by the City, upon successful completion.

Security Measures

On-going upgrades to the City's S.C.A.D.A system include security intrusion alarms. This program will continue until all sites are protected.

Emergency Response Plan

In the event of possible contamination of the water system, the City of Richmond, Metro Vancouver, and regional health authority have developed a number of emergency response plans.

If contamination of the water system is suspected, water services staff must:

- Ensure safety of response crew.
- Notify the appropriate agencies and City personal (Table 2).
- Isolate the actual or suspected contamination, and determine its source.
- Provide water samples to the Metro Vancouver Lab.
- Flush water from an uncontaminated source to purge actual or suspected contaminant, following procedures for de-chlorination and the proper disposal of water.
- Through the continuous feed method, inject sodium chloride 12% into the contaminated water main with a dosage of 300 mg/l or 300 ppm.
- This dosage should be maintained for 3 hours after which the chlorine should be removed and neutralized with sodium thiosulphate to ensure no environmental impact.
- Provide additional water samples to the Metro Vancouver Lab for re-testing.

Depending on the nature of the contamination, the Medical Health Officer (MHO) may decide to leave the water main in service and issue a boil water advisory, or may instruct the City to provide alternate water to those affected. Once water samples are confirmed as being within normal water quality standards within the affected sections of the water distribution system, the water mains can be placed back in service. See Appendix 7 for specific emergency response plans.



A healthy lawn only needs to be watered one hour a week, or less if it rains.

Table 2 – Agency Notification for Situations Drinking Water Safety

Situation	Notifying Agency	Agency Notified	Time Frame For Notification
Fecal positive sample	City of Richmond Metro Vancouver Lab	City of Richmond / MHO	Immediate
Chemical/biological contamination	City of Richmond Metro Vancouver Lab	City of Richmond / MHO	Immediate
Turbidity > 5 NTU	City of Richmond Metro Vancouver Control Centre Metro Vancouver Lab	City of Richmond / MHO	Immediate
Disinfection failure primary or secondary disinfection	City of Richmond Metro Vancouver Control Centre Metro Vancouver Lab	City of Richmond / MHO	Immediate, where BC DWPR or GCDWQ guidelines may not be met
Loss of pressure due to high demand	City of Richmond Metro Vancouver Control Centre	MHO City of Richmond Metro Vancouver Control Centre	Immediate
Water main break where the pressure drops below 20 psi.	City of Richmond Metro Vancouver Control Centre	MHO City of Richmond	Immediate

Conclusion

Richmond residents enjoyed very high quality drinking water in 2012. While colour, temperature, and low pH can cause occasional aesthetic problems, the protected nature of the Metro Vancouver watersheds allows the City to supply water to residents with a low potential for microorganism contamination.

In previous years, portions of the distribution system have experienced lower than desirable chlorine residual values. However, the extent of these conditions has improved greatly with the implementation of weekly and monthly flushing, installation of automated flushing points, and active replacement of water services and water main infrastructure.

In addition, turbidity in sections of the water distribution system has been an issue. To combat these problems, staff continue to employ best management practices in the operation and maintenance of the water system. The completion of the Seymour-Capilano Filtration Plant has significantly reduced the level of turbidity in Metro Vancouver source water and prevented any drinking water advisories, like the one experienced in November 2006.

The City continues meeting "Section 12" of the Drinking Water Protection Act by ensuring Water Services staff have been certified by the EOCP, to the same level as the distribution system. Experienced and highly trained Water Services staff are well equipped to operate and maintain all aspects of the water system from source to property line.

The City of Richmond has steadily improved its water distribution quality as demonstrated by the water sample test results that indicate a significant improvement over the past number of years. The City of Richmond remains diligent in ensuring this system is maintained to the highest of standards expected by Richmond residents and that in the event of an emergency, its contingency plans are thorough and up to date.

The City appreciates the good working relationship with Vancouver Coastal Health Authority and acknowledges them as important partners in maintaining high quality drinking water throughout the City of Richmond.

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Appendices

APPENDIX 1: DRINKING WATER/WATER QUALITY WEBSITES AND REFERENCES

APPENDIX 2: 2012 CITY OF RICHMOND WATER QUALITY RESULTS

APPENDIX 3: CITY OF RICHMOND S.C.A.D.A AND PRESSURE TESTING SITES

APPENDIX 4: CITY OF RICHMOND WATER SAMPLING SITES

APPENDIX 5: 2012 THM AND HAA TEST RESULTS

APPENDIX 6: CITY OF RICHMOND: 2012 HEAVY METAL TESTING RESULTS

APPENDIX 7: SAMPLE DRINKING WATER QUALITY ADVISORY

APPENDIX 8: SPECIFIC EMERGENCY RESPONSE PLANS

APPENDIX 1: DRINKING WATER/WATER QUALITY WEBSITES AND REFERENCES

1. Health Canada Drinking Water Guidelines
www.hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/index_e.html
2. Provincial Drinking Water Protection Act (2003)
www.qp.gov.bc.ca/statreg/reg/D/200_2003.htm#section8
3. Greater Vancouver Regional District – Source Water Quality and Supply
www.gvrd.ca/water/index.htm
4. Richmond Health Services (Regional Health Authority)
www.rhss.bc.ca/bins/index.asp
5. British Columbia Water Works Association
www.bcwwa.org/
6. American Water Works Association
www.awwa.org/
7. Metro Vancouver
www.metrovancouver.org

APPENDIX 2: 2012 CITY OF RICHMOND WATER QUALITY RESULTS

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-257	GRAB	6640 Blundell Rd.	4-Jan-12	0.68	<1	6	5	<1	0.15
RMD-258	GRAB	7000 Blk. Dyke Rd.	4-Jan-12	0.64	<1	<2	6	<1	0.19
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	4-Jan-12	0.62	<1	<2	6	<1	0.17
RMD-259	GRAB	10020 Amethyst Ave.	4-Jan-12	0.61	<1	<2	6	<1	0.15
RMD-266	GRAB	9380 General Currie Rd.	4-Jan-12	0.59	<1	<2	4	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	4-Jan-12	0.74	<1	2	5	<1	0.1
RMD-261	GRAB	9911 Sidaway Rd.	4-Jan-12	0.77	<1	2	4	<1	0.11
RMD-264	GRAB	13100 Mitchell Rd.	4-Jan-12	0.62	<1	<2	6	<1	0.14
RMD-277	GRAB	Opp. 11280 Twigg Place	4-Jan-12	0.6	<1	<2	6	<1	0.2
RMD-263	GRAB	12560 Cambie Rd.	4-Jan-12	0.6	<1	<2	6	<1	0.15
RMD-262	GRAB	13799 Commerce Pkwy.	4-Jan-12	0.75	<1	<2	6	<1	0.1
RMD-278	GRAB	6651 Fraserwood Place	4-Jan-12	0.69	<1	<2	6	<1	0.27
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	4-Jan-12	0.63	<1	<2	6	<1	0.33
RMD-204	GRAB	3180 Granville Ave.	6-Jan-12	0.64	<1	<2	4	<1	0.31
RMD-206	GRAB	4251 Moncton St.	6-Jan-12	0.56	<1	<2	5	<1	0.15
RMD-216	GRAB	11080 No. 2 Rd.	6-Jan-12	0.59	<1	<2	3	<1	0.21
RMD-212	GRAB	Opp. 8600 Ryan Rd.	6-Jan-12	0.71	<1	<2	3	<1	0.17
RMD-208	GRAB	13200 No. 4 Rd.	6-Jan-12	0.64	<1	<2	3	<1	0.14
RMD-205	GRAB	13851 Steveston Hwy.	6-Jan-12	0.68	<1	4	3	<1	0.14
RMD-214	GRAB	11720 Westminster Hwy.	6-Jan-12	0.67	<1	LA	3	<1	0.16
RMD-202	GRAB	1500 Valemont Way	6-Jan-12	0.65	<1	<2	3	<1	0.36
RMD-267	GRAB	17240 Fedoruk	6-Jan-12	0.56	<1	<2	4	<1	0.23
RMD-249	GRAB	23000 Blk. Dyke Rd.	6-Jan-12	0.77	<1	<2	4	<1	0.32
RMD-276	GRAB	22271 Cochrane Drive	6-Jan-12	0.66	<1	6	5	<1	0.28
RMD-275	GRAB	5180 Smith Cres.	6-Jan-12	0.73	<1	<2	5	<1	0.35
RMD-203	GRAB	23260 Westminster Hwy.	6-Jan-12	0.93	<1	<2	4	<1	0.36
RMD-251	GRAB	5951 McCallan Rd.	9-Jan-12	0.5	<1	2	5	<1	0.16
RMD-250	GRAB	6071 Azure Rd.	9-Jan-12	0.51	<1	<2	5	<1	0.26
RMD-271	GRAB	3800 Cessna Drive	9-Jan-12	0.53	<1	2	5	<1	0.19
RMD-272	GRAB	751 Catalina Cres.	9-Jan-12	0.52	<1	<2	5	<1	0.17
RMD-255	GRAB	6000 Blk. Miller Rd.	9-Jan-12	0.52	<1	<2	4	<1	0.52
RMD-256	GRAB	1000 Blk. McDonald Rd.	9-Jan-12	0.15	<1	42	6	<1	0.33
RMD-254	GRAB	5300 No. 3 Rd.	9-Jan-12	0.46	<1	<2	5	<1	0.15
RMD-270	GRAB	8200 Jones Rd.	9-Jan-12	0.32	<1	<2	5	<1	0.18
RMD-269	GRAB	14951 Triangle Rd.	9-Jan-12	0.56	<1	<2	5	<1	0.16
RMD-253	GRAB	11051 No. 3 Rd.	9-Jan-12	0.3	<1	<2	5	<1	0.23
RMD-274	GRAB	10920 Springwood Court	9-Jan-12	0.55	<1	<2	5	<1	0.33

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-252	GRAB	9751 Pendleton Rd.	9-Jan-12	0.47	<1	<2	5	<1	0.14
RMD-273	GRAB	Opp. 8331 Fairfax Place	9-Jan-12	0.44	<1	<2	5	<1	0.15
RMD-257	GRAB	6640 Blundell Rd.	11-Jan-12	0.6	<1	<2	4	<1	0.21
RMD-266	GRAB	9380 General Currie Rd.	11-Jan-12	0.5	<1	<2	4	<1	0.19
RMD-263	GRAB	12560 Cambie Rd.	11-Jan-12	0.4	<1	<2	3	<1	0.17
RMD-264	GRAB	13100 Mitchell Rd.	11-Jan-12	0.46	<1	<2	4	<1	1.2
RMD-277	GRAB	Opp. 11280 Twigg Place	11-Jan-12	0.44	<1	<2	4	<1	0.43
RMD-262	GRAB	13799 Commerce Pkwy.	11-Jan-12	0.44	<1	<2	4	<1	0.2
RMD-278	GRAB	6651 Fraserwood Place	11-Jan-12	0.57	<1	<2	5	<1	0.38
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	11-Jan-12	0.58	<1	<2	5	<1	0.36
RMD-261	GRAB	9911 Sidaway Rd.	11-Jan-12	0.46	<1	<2	4	<1	0.16
RMD-260	GRAB	11111 Horseshoe Way	11-Jan-12	0.53	<1	4	4	<1	0.35
RMD-259	GRAB	10020 Amethyst Ave.	11-Jan-12	0.49	<1	<2	4	<1	0.16
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	11-Jan-12	0.52	<1	<2	5	<1	0.18
RMD-258	GRAB	7000 Blk. Dyke Rd.	11-Jan-12	0.55	<1	<2	5	<1	0.39
RMD-204	GRAB	3180 Granville Ave.	13-Jan-12	0.6	<1	<2	5	<1	0.59
RMD-206	GRAB	4251 Moncton St.	13-Jan-12	0.49	<1	<2	5	<1	0.15
RMD-216	GRAB	11080 No. 2 Rd.	13-Jan-12	0.54	<1	<2	5	<1	0.13
RMD-212	GRAB	Opp. 8600 Ryan Rd.	13-Jan-12	0.56	<1	<2	5	<1	0.15
RMD-208	GRAB	13200 No. 4 Rd.	13-Jan-12	0.53	<1	<2	5	<1	0.14
RMD-205	GRAB	13851 Steveston Hwy.	13-Jan-12	0.49	<1	<2	5	<1	0.12
RMD-202	GRAB	1500 Valemont Way	13-Jan-12	0.48	<1	<2	6	<1	0.26
RMD-214	GRAB	11720 Westminster Hwy.	13-Jan-12	0.57	<1	<2	5	<1	0.27
RMD-267	GRAB	17240 Fedoruk	13-Jan-12	0.45	<1	<2	6	<1	0.21
RMD-249	GRAB	23000 Blk. Dyke Rd.	13-Jan-12	0.57	<1	<2	5	<1	0.31
RMD-276	GRAB	22271 Cochrane Drive	13-Jan-12	0.47	<1	<2	6	<1	0.31
RMD-275	GRAB	5180 Smith Cres.	13-Jan-12	0.6	<1	<2	6	<1	0.28
RMD-203	GRAB	23260 Westminster Hwy.	13-Jan-12	0.67	<1	<2	5	<1	1.8
RMD-251	GRAB	5951 McCallan Rd.	16-Jan-12	0.56	<1	2	5	<1	0.11
RMD-273	GRAB	Opp. 8331 Fairfax Place	16-Jan-12	0.57	<1	<2	6	<1	0.18
RMD-252	GRAB	9751 Pendleton Rd.	16-Jan-12	0.54	<1	2	6	<1	0.15
RMD-274	GRAB	10920 Springwood Court	16-Jan-12	0.51	<1	6	7	<1	0.14
RMD-250	GRAB	6071 Azure Rd.	16-Jan-12	0.6	<1	<2	6	<1	0.13
RMD-271	GRAB	3800 Cessna Drive	16-Jan-12	0.58	<1	<2	6	<1	0.18
RMD-272	GRAB	751 Catalina Cres.	16-Jan-12	0.6	<1	<2	5	<1	0.12
RMD-255	GRAB	6000 Blk. Miller Rd.	16-Jan-12	0.67	<1	<2	5	<1	0.3
RMD-256	GRAB	1000 Blk. McDonald Rd.	16-Jan-12	0.53	<1	<2	8	<1	0.11
RMD-254	GRAB	5300 No. 3 Rd.	16-Jan-12	0.61	<1	4	5	<1	0.14

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-270	GRAB	8200 Jones Rd.	16-Jan-12	0.54	<1	<2	7	<1	0.15
RMD-269	GRAB	14951 Triangle Rd.	16-Jan-12	0.74	<1	<2	5	<1	0.11
RMD-253	GRAB	11051 No. 3 Rd.	16-Jan-12	0.58	<1	2	6	<1	0.13
RMD-257	GRAB	6640 Blundell Rd.	19-Jan-12	0.57	<1	<2	5	<1	0.15
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	19-Jan-12	0.61	<1	4	5	<1	0.14
RMD-259	GRAB	10020 Amethyst Ave.	19-Jan-12	0.64	<1	2	5	<1	0.16
RMD-266	GRAB	9380 General Currie Rd.	19-Jan-12	0.46	<1	<2	4	<1	0.15
RMD-260	GRAB	11111 Horseshoe Way	19-Jan-12	0.69	<1	<2	4	<1	0.12
RMD-261	GRAB	9911 Sidaway Rd.	19-Jan-12	0.74	<1	<2	5	<1	0.1
RMD-262	GRAB	13799 Commerce Pkwy.	19-Jan-12	0.74	<1	>11000	5	<1	0.18
RMD-263	GRAB	12560 Cambie Rd.	19-Jan-12	0.65	<1	<2	5	<1	0.18
RMD-264	GRAB	13100 Mitchell Rd.	19-Jan-12	0.65	<1	<2	5	<1	0.15
RMD-277	GRAB	Opp. 11280 Twigg Place	19-Jan-12	0.61	<1	<2	6	<1	0.31
RMD-278	GRAB	6651 Fraserwood Place	19-Jan-12	0.24	<1	2	5	<1	0.26
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	19-Jan-12	0.68	<1	<2	5	<1	0.25
RMD-206	GRAB	4251 Moncton St.	20-Jan-12	0.72	<1	<2	5	<1	0.19
RMD-216	GRAB	11080 No. 2 Rd.	20-Jan-12	0.64	<1	<2	4	<1	0.18
RMD-212	GRAB	Opp. 8600 Ryan Rd.	20-Jan-12	0.51	<1	<2	4	<1	0.19
RMD-208	GRAB	13200 No. 4 Rd.	20-Jan-12	0.54	<1	<2	4	<1	0.15
RMD-205	GRAB	13851 Steveston Hwy.	20-Jan-12	0.68	<1	2	5	<1	0.13
RMD-214	GRAB	11720 Westminster Hwy.	20-Jan-12	0.62	<1	<2	4	<1	0.17
RMD-267	GRAB	17240 Fedoruk	20-Jan-12	0.57	<1	<2	5	<1	0.27
RMD-276	GRAB	22271 Cochrane Drive	20-Jan-12	0.62	<1	2	5	<1	0.26
RMD-203	GRAB	23260 Westminster Hwy.	20-Jan-12	0.79	<1	<2	4	<1	0.31
RMD-251	GRAB	5951 McCallan Rd.	23-Jan-12	0.51	<1	<2	4	<1	0.16
RMD-273	GRAB	Opp. 8331 Fairfax Place	23-Jan-12	0.51	<1	<2	5	<1	0.17
RMD-252	GRAB	9751 Pendleton Rd.	23-Jan-12	0.51	<1	<2	5	<1	0.14
RMD-274	GRAB	10920 Springwood Court	23-Jan-12	0.52	<1	2	6	<1	0.25
RMD-253	GRAB	11051 No. 3 Rd.	23-Jan-12	0.55	<1	<2	4	<1	0.15
RMD-269	GRAB	14951 Triangle Rd.	23-Jan-12	0.63	<1	<2	4	<1	0.2
RMD-270	GRAB	8200 Jones Rd.	23-Jan-12	0.54	<1	<2	5	<1	0.19
RMD-250	GRAB	6071 Azure Rd.	23-Jan-12	0.55	<1	<2	6	<1	0.18
RMD-271	GRAB	3800 Cessna Drive	23-Jan-12	0.59	<1	4	5	<1	0.16
RMD-272	GRAB	751 Catalina Cres.	23-Jan-12	0.55	<1	4	4	<1	0.17
RMD-255	GRAB	6000 Blk. Miller Rd.	23-Jan-12	0.57	<1	<2	4	<1	0.57
RMD-256	GRAB	1000 Blk. McDonald Rd.	23-Jan-12	0.44	<1	2	5	<1	0.16
RMD-254	GRAB	5300 No. 3 Rd.	23-Jan-12	0.58	<1	<2	4	<1	0.15
RMD-257	GRAB	6640 Blundell Rd.	25-Jan-12	0.63	<1	<2	4	<1	0.13

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-258	GRAB	7000 Blk. Dyke Rd.	25-Jan-12	0.57	<1	<2	4	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	25-Jan-12	0.58	<1	2	4	<1	0.15
RMD-259	GRAB	10020 Amethyst Ave.	25-Jan-12	0.64	<1	<2	5	<1	0.14
RMD-266	GRAB	9380 General Currie Rd.	25-Jan-12	0.63	<1	2	3	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	25-Jan-12	0.61	<1	<2	5	<1	0.15
RMD-261	GRAB	9911 Sidaway Rd.	25-Jan-12	0.61	<1	<2	4	<1	0.13
RMD-264	GRAB	13100 Mitchell Rd.	25-Jan-12	0.61	<1	<2	4	<1	0.15
RMD-277	GRAB	Opp. 11280 Twigg Place	25-Jan-12	0.6	<1	<2	4	<1	0.29
RMD-263	GRAB	12560 Cambie Rd.	25-Jan-12	0.64	<1	<2	4	<1	0.14
RMD-262	GRAB	13799 Commerce Pkwy.	25-Jan-12	0.71	<1	<2	4	<1	0.24
RMD-278	GRAB	6651 Fraserwood Place	25-Jan-12	0.62	<1	<2	5	<1	0.35
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	25-Jan-12	0.57	<1	<2	5	<1	0.33
RMD-204	GRAB	3180 Granville Ave.	27-Jan-12	0.62	<1	<2	5	<1	0.2
RMD-206	GRAB	4251 Moncton St.	27-Jan-12	0.49	<1	<2	6	<1	0.18
RMD-216	GRAB	11080 No. 2 Rd.	27-Jan-12	0.61	<1	<2	4	<1	0.18
RMD-212	GRAB	Opp. 8600 Ryan Rd.	27-Jan-12	0.64	<1	<2	5	<1	0.17
RMD-208	GRAB	13200 No. 4 Rd.	27-Jan-12	0.7	<1	<2	5	<1	0.19
RMD-205	GRAB	13851 Steveston Hwy.	27-Jan-12	0.67	<1	<2	4	<1	0.12
RMD-202	GRAB	1500 Valemont Way	27-Jan-12	0.73	<1	2	5	<1	0.29
RMD-214	GRAB	11720 Westminster Hwy.	27-Jan-12	0.64	<1	<2	5	<1	0.14
RMD-267	GRAB	17240 Fedoruk	27-Jan-12	0.65	<1	<2	5	<1	0.27
RMD-249	GRAB	23000 Blk. Dyke Rd.	27-Jan-12	0.73	<1	<2	5	<1	0.41
RMD-276	GRAB	22271 Cochrane Drive	27-Jan-12	0.74	<1	<2	5	<1	0.31
RMD-275	GRAB	5180 Smith Cres.	27-Jan-12	0.7	<1	<2	5	<1	0.34
RMD-203	GRAB	23260 Westminster Hwy.	27-Jan-12	0.85	<1	<2	5	<1	0.88
RMD-251	GRAB	5951 McCallan Rd.	30-Jan-12	0.6	<1	2	4	<1	0.52
RMD-273	GRAB	Opp. 8331 Fairfax Place	30-Jan-12	0.38	<1	2	6	<1	0.15
RMD-252	GRAB	9751 Pendleton Rd.	30-Jan-12	0.39	<1	<2	5	<1	0.14
RMD-274	GRAB	10920 Springwood Court	30-Jan-12	0.5	<1	<2	6	<1	0.18
RMD-253	GRAB	11051 No. 3 Rd.	30-Jan-12	0.5	<1	<2	4	<1	0.14
RMD-269	GRAB	14951 Triangle Rd.	30-Jan-12	0.63	<1	24	4	<1	0.12
RMD-270	GRAB	8200 Jones Rd.	30-Jan-12	0.52	<1	<2	5	<1	0.15
RMD-254	GRAB	5300 No. 3 Rd.	30-Jan-12	0.53	<1	6	4	<1	0.18
RMD-271	GRAB	3800 Cessna Drive	30-Jan-12	0.37	<1	<2	5	<1	0.3
RMD-272	GRAB	751 Catalina Cres.	30-Jan-12	0.61	<1	<2	5	<1	0.18
RMD-255	GRAB	6000 Blk. Miller Rd.	30-Jan-12	0.5	<1	<2	4	<1	0.7
RMD-256	GRAB	1000 Blk. McDonald Rd.	30-Jan-12	0.48	<1	<2	6	<1	0.15
RMD-250	GRAB	6071 Azure Rd.	30-Jan-12	0.45	<1	<2	LA	<1	0.14

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-263	GRAB	12560 Cambie Rd.	1-Feb-12	0.64	<1	<2	4	<1	0.24
RMD-264	GRAB	13100 Mitchell Rd.	1-Feb-12	0.53	<1	2	4	<1	0.28
RMD-277	GRAB	Opp. 11280 Twigg Place	1-Feb-12	0.47	<1	10	4	<1	0.41
RMD-262	GRAB	13799 Commerce Pkwy.	1-Feb-12	0.37	<1	<2	6	<1	0.17
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	1-Feb-12	0.55	<1	<2	5	<1	0.48
RMD-278	GRAB	6651 Fraserwood Place	1-Feb-12	0.55	<1	<2	5	<1	0.49
RMD-261	GRAB	9911 Sidaway Rd.	1-Feb-12	0.58	<1	<2	5	<1	0.17
RMD-260	GRAB	11111 Horseshoe Way	1-Feb-12	0.45	<1	2	4	<1	0.11
RMD-259	GRAB	10020 Amethyst Ave.	1-Feb-12	0.67	<1	<2	5	<1	0.16
RMD-266	GRAB	9380 General Currie Rd.	1-Feb-12	0.59	<1	<2	5	<1	0.15
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	1-Feb-12	0.54	<1	2	6	<1	0.15
RMD-258	GRAB	7000 Blk. Dyke Rd.	1-Feb-12	0.86	<1	<2	5	<1	0.12
RMD-257	GRAB	6640 Blundell Rd.	1-Feb-12	0.63	<1	4	4	<1	0.26
RMD-204	GRAB	3180 Granville Ave.	3-Feb-12	0.87	<1	<2	5	<1	0.14
RMD-206	GRAB	4251 Moncton St.	3-Feb-12	0.43	<1	<2	5	<1	0.13
RMD-216	GRAB	11080 No. 2 Rd.	3-Feb-12	0.61	<1	<2	4	<1	0.12
RMD-212	GRAB	Opp. 8600 Ryan Rd.	3-Feb-12	0.58	<1	<2	5	<1	0.12
RMD-208	GRAB	13200 No. 4 Rd.	3-Feb-12	0.59	<1	<2	5	<1	0.12
RMD-205	GRAB	13851 Steveston Hwy.	3-Feb-12	0.64	<1	<2	4	<1	0.11
RMD-202	GRAB	1500 Valemont Way	3-Feb-12	0.65	<1	<2	5	<1	0.31
RMD-214	GRAB	11720 Westminster Hwy.	3-Feb-12	0.65	<1	2	4	<1	0.11
RMD-267	GRAB	17240 Fedoruk	3-Feb-12	0.6	<1	<2	6	<1	0.29
RMD-249	GRAB	23000 Blk. Dyke Rd.	3-Feb-12	0.6	<1	<2	5	<1	0.42
RMD-276	GRAB	22271 Cochrane Drive	3-Feb-12	0.65	<1	<2	5	<1	0.35
RMD-275	GRAB	5180 Smith Cres.	3-Feb-12	0.53	<1	<2	6	<1	0.34
RMD-203	GRAB	23260 Westminster Hwy.	3-Feb-12	0.67	<1	<2	5	<1	0.41
RMD-250	GRAB	6071 Azure Rd.	6-Feb-12	0.52	<1	<2	5	<1	0.14
RMD-271	GRAB	3800 Cessna Drive	6-Feb-12	0.56	<1	2	4	<1	0.12
RMD-272	GRAB	751 Catalina Cres.	6-Feb-12	0.67	<1	<2	5	<1	0.11
RMD-255	GRAB	6000 Blk. Miller Rd.	6-Feb-12	0.66	<1	<2	4	<1	0.39
RMD-256	GRAB	1000 Blk. McDonald Rd.	6-Feb-12	0.64	<1	<2	4	<1	0.12
RMD-254	GRAB	5300 No. 3 Rd.	6-Feb-12	0.57	<1	<2	5	<1	0.1
RMD-270	GRAB	8200 Jones Rd.	6-Feb-12	0.53	<1	2	5	<1	0.13
RMD-269	GRAB	14951 Triangle Rd.	6-Feb-12	0.66	<1	<2	4	<1	0.15
RMD-253	GRAB	11051 No. 3 Rd.	6-Feb-12	0.51	<1	<2	4	<1	0.12
RMD-274	GRAB	10920 Springwood Court	6-Feb-12	0.47	<1	<2	6	<1	0.17
RMD-273	GRAB	Opp. 8331 Fairfax Place	6-Feb-12	0.56	<1	<2	6	<1	0.13
RMD-252	GRAB	9751 Pendleton Rd.	6-Feb-12	0.48	<1	2	6	<1	0.15

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-251	GRAB	5951 McCallan Rd.	6-Feb-12	0.57	<1	<2	5	<1	0.13
RMD-263	GRAB	12560 Cambie Rd.	8-Feb-12	0.49	<1	<2	5	<1	0.16
RMD-264	GRAB	13100 Mitchell Rd.	8-Feb-12	0.6	<1	<2	5	<1	0.15
RMD-277	GRAB	Opp. 11280 Twigg Place	8-Feb-12	0.49	<1	<2	6	<1	0.19
RMD-262	GRAB	13799 Commerce Pkwy.	8-Feb-12	0.52	<1	<2	5	<1	0.18
RMD-278	GRAB	6651 Fraserwood Place	8-Feb-12	0.07	<1	4	6	<1	0.25
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	8-Feb-12	0.65	<1	<2	5	<1	0.28
RMD-261	GRAB	9911 Sidaway Rd.	8-Feb-12	0.7	<1	<2	5	<1	0.11
RMD-260	GRAB	11111 Horseshoe Way	8-Feb-12	0.52	<1	<2	5	<1	0.13
RMD-259	GRAB	10020 Amethyst Ave.	8-Feb-12	0.57	<1	2	5	<1	0.1
RMD-266	GRAB	9380 General Currie Rd.	8-Feb-12	0.6	<1	<2	5	<1	0.16
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	8-Feb-12	0.6	<1	<2	5	<1	0.14
RMD-258	GRAB	7000 Blk. Dyke Rd.	8-Feb-12	0.62	<1	2	5	<1	0.1
RMD-257	GRAB	6640 Blundell Rd.	8-Feb-12	0.6	<1	<2	5	<1	0.1
RMD-204	GRAB	3180 Granville Ave.	10-Feb-12	0.73	<1	2	5	<1	0.35
RMD-206	GRAB	4251 Moncton St.	10-Feb-12	0.64	<1	<2	6	<1	0.15
RMD-216	GRAB	11080 No. 2 Rd.	10-Feb-12	0.71	<1	<2	4	<1	0.15
RMD-212	GRAB	Opp. 8600 Ryan Rd.	10-Feb-12	0.76	<1	<2	5	<1	0.16
RMD-208	GRAB	13200 No. 4 Rd.	10-Feb-12	0.62	<1	<2	5	<1	0.12
RMD-205	GRAB	13851 Steveston Hwy.	10-Feb-12	0.6	<1	4	4	<1	0.1
RMD-202	GRAB	1500 Valemont Way	10-Feb-12	0.57	<1	6	6	<1	0.3
RMD-214	GRAB	11720 Westminster Hwy.	10-Feb-12	0.7	<1	<2	4	<1	0.13
RMD-267	GRAB	17240 Fedoruk	10-Feb-12	0.33	<1	2	6	<1	0.21
RMD-249	GRAB	23000 Blk. Dyke Rd.	10-Feb-12	0.56	<1	<2	5	<1	0.31
RMD-276	GRAB	22271 Cochrane Drive	10-Feb-12	0.37	<1	<2	6	<1	0.29
RMD-275	GRAB	5180 Smith Cres.	10-Feb-12	0.51	<1	<2	5	<1	0.31
RMD-203	GRAB	23260 Westminster Hwy.	10-Feb-12	0.6	<1	<2	5	<1	0.31
RMD-250	GRAB	6071 Azure Rd.	13-Feb-12	0.47	<1	<2	6	<1	0.12
RMD-271	GRAB	3800 Cessna Drive	13-Feb-12	0.6	<1	2	5	<1	0.11
RMD-272	GRAB	751 Catalina Cres.	13-Feb-12	0.43	<1	<2	5	<1	0.13
RMD-255	GRAB	6000 Blk. Miller Rd.	13-Feb-12	0.53	<1	<2	4	<1	0.32
RMD-256	GRAB	1000 Blk. McDonald Rd.	13-Feb-12	0.23	<1	2	5	<1	0.11
RMD-254	GRAB	5300 No. 3 Rd.	13-Feb-12	0.38	<1	<2	5	<1	0.12
RMD-270	GRAB	8200 Jones Rd.	13-Feb-12	0.59	<1	2	5	<1	0.1
RMD-253	GRAB	11051 No. 3 Rd.	13-Feb-12	0.55	<1	<2	5	<1	0.23
RMD-269	GRAB	14951 Triangle Rd.	13-Feb-12	0.7	<1	<2	5	<1	0.12
RMD-274	GRAB	10920 Springwood Court	13-Feb-12	0.59	<1	<2	6	<1	0.25
RMD-252	GRAB	9751 Pendleton Rd.	13-Feb-12	0.64	<1	<2	5	<1	0.12

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-273	GRAB	Opp. 8331 Fairfax Place	13-Feb-12	0.45	<1	<2	6	<1	0.17
RMD-251	GRAB	5951 McCallan Rd.	13-Feb-12	0.53	<1	2	5	<1	0.11
RMD-263	GRAB	12560 Cambie Rd.	15-Feb-12	0.56	<1	<2	5	<1	0.16
RMD-264	GRAB	13100 Mitchell Rd.	15-Feb-12	0.65	<1	<2	5	<1	0.11
RMD-277	GRAB	Opp. 11280 Twigg Place	15-Feb-12	0.46	<1	<2	6	<1	0.12
RMD-262	GRAB	13799 Commerce Pkwy.	15-Feb-12	0.55	<1	<2	5	<1	0.16
RMD-278	GRAB	6651 Fraserwood Place	15-Feb-12	0.57	<1	<2	6	<1	0.26
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	15-Feb-12	0.43	<1	<2	5	<1	0.31
RMD-261	GRAB	9911 Sidaway Rd.	15-Feb-12	0.63	<1	<2	5	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	15-Feb-12	0.54	<1	<2	5	<1	0.14
RMD-259	GRAB	10020 Amethyst Ave.	15-Feb-12	0.61	<1	<2	5	<1	0.12
RMD-266	GRAB	9380 General Currie Rd.	15-Feb-12	0.63	<1	<2	5	<1	0.1
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	15-Feb-12	0.55	<1	<2	6	<1	0.14
RMD-258	GRAB	7000 Blk. Dyke Rd.	15-Feb-12	0.58	<1	<2	5	<1	0.18
RMD-257	GRAB	6640 Blundell Rd.	15-Feb-12	0.57	<1	<2	5	<1	0.13
RMD-204	GRAB	3180 Granville Ave.	17-Feb-12	0.49	<1	<2	5	<1	0.28
RMD-206	GRAB	4251 Moncton St.	17-Feb-12	0.47	<1	2	5	<1	0.12
RMD-216	GRAB	11080 No. 2 Rd.	17-Feb-12	0.65	<1	<2	5	<1	0.09
RMD-212	GRAB	Opp. 8600 Ryan Rd.	17-Feb-12	0.67	<1	<2	5	<1	0.11
RMD-208	GRAB	13200 No. 4 Rd.	17-Feb-12	0.62	<1	2	5	<1	0.14
RMD-205	GRAB	13851 Steveston Hwy.	17-Feb-12	0.69	<1	<2	4	<1	0.1
RMD-214	GRAB	11720 Westminster Hwy.	17-Feb-12	0.76	<1	<2	4	<1	0.11
RMD-202	GRAB	1500 Valemont Way	17-Feb-12	0.64	<1	<2	5	<1	0.21
RMD-267	GRAB	17240 Fedoruk	17-Feb-12	0.51	<1	<2	6	<1	0.21
RMD-249	GRAB	23000 Blk. Dyke Rd.	17-Feb-12	0.7	<1	<2	5	<1	0.27
RMD-276	GRAB	22271 Cochrane Drive	17-Feb-12	0.62	<1	<2	6	<1	0.28
RMD-275	GRAB	5180 Smith Cres.	17-Feb-12	0.63	<1	<2	6	<1	0.3
RMD-203	GRAB	23260 Westminster Hwy.	17-Feb-12	0.76	<1	<2	5	<1	0.26
RMD-251	GRAB	5951 McCallan Rd.	20-Feb-12	0.75	<1	<2	5	<1	0.15
RMD-273	GRAB	Opp. 8331 Fairfax Place	20-Feb-12	0.54	<1	<2	7	<1	0.16
RMD-252	GRAB	9751 Pendleton Rd.	20-Feb-12	0.3	<1	<2	6	<1	0.11
RMD-274	GRAB	10920 Springwood Court	20-Feb-12	0.57	<1	<2	7	<1	0.14
RMD-250	GRAB	6071 Azure Rd.	20-Feb-12	0.57	<1	2	6	<1	0.11
RMD-271	GRAB	3800 Cessna Drive	20-Feb-12	0.57	<1	<2	5	<1	0.13
RMD-272	GRAB	751 Catalina Cres.	20-Feb-12	0.54	<1	<2	5	<1	0.24
RMD-255	GRAB	6000 Blk. Miller Rd.	20-Feb-12	0.61	<1	<2	4	<1	0.34
RMD-256	GRAB	1000 Blk. McDonald Rd.	20-Feb-12	0.54	<1	<2	5	<1	0.11
RMD-254	GRAB	5300 No. 3 Rd.	20-Feb-12	0.58	<1	<2	5	<1	0.12

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-270	GRAB	8200 Jones Rd.	20-Feb-12	0.59	<1	<2	6	<1	0.21
RMD-269	GRAB	14951 Triangle Rd.	20-Feb-12	0.67	<1	2	4	<1	0.13
RMD-253	GRAB	11051 No. 3 Rd.	20-Feb-12	0.57	<1	<2	5	<1	0.11
RMD-263	GRAB	12560 Cambie Rd.	22-Feb-12	0.71	<1	<2	5	<1	0.11
RMD-264	GRAB	13100 Mitchell Rd.	22-Feb-12	0.55	<1	<2	6	<1	0.3
RMD-277	GRAB	Opp. 11280 Twigg Place	22-Feb-12	0.53	<1	2	7	<1	0.21
RMD-262	GRAB	13799 Commerce Pkwy.	22-Feb-12	0.74	<1	4	5	<1	0.14
RMD-278	GRAB	6651 Fraserwood Place	22-Feb-12	0.61	<1	<2	6	<1	0.35
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	22-Feb-12	0.58	<1	<2	6	<1	0.28
RMD-261	GRAB	9911 Sidaway Rd.	22-Feb-12	0.62	<1	<2	5	<1	0.1
RMD-260	GRAB	11111 Horseshoe Way	22-Feb-12	0.63	<1	6	5	<1	0.11
RMD-266	GRAB	9380 General Currie Rd.	22-Feb-12	0.6	<1	<2	5	<1	0.13
RMD-259	GRAB	10020 Amethyst Ave.	22-Feb-12	0.6	<1	<2	6	<1	0.1
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	22-Feb-12	0.62	<1	4	6	<1	0.25
RMD-258	GRAB	7000 Blk. Dyke Rd.	22-Feb-12	0.66	<1	<2	6	<1	0.2
RMD-257	GRAB	6640 Blundell Rd.	22-Feb-12	0.72	<1	2	6	<1	0.15
RMD-204	GRAB	3180 Granville Ave.	24-Feb-12	0.65	<1	<2	5	<1	0.11
RMD-206	GRAB	4251 Moncton St.	24-Feb-12	0.46	<1	<2	6	<1	0.11
RMD-216	GRAB	11080 No. 2 Rd.	24-Feb-12	0.45	<1	<2	5	<1	0.14
RMD-212	GRAB	Opp. 8600 Ryan Rd.	24-Feb-12	0.52	<1	<2	5	<1	0.23
RMD-208	GRAB	13200 No. 4 Rd.	24-Feb-12	0.53	<1	<2	5	<1	0.13
RMD-205	GRAB	13851 Steveston Hwy.	24-Feb-12	0.57	<1	<2	5	<1	0.19
RMD-202	GRAB	1500 Valemont Way	24-Feb-12	0.41	<1	<2	6	<1	0.27
RMD-214	GRAB	11720 Westminster Hwy.	24-Feb-12	0.49	<1	<2	5	<1	0.12
RMD-267	GRAB	17240 Fedoruk	24-Feb-12	0.51	<1	<2	6	<1	0.22
RMD-249	GRAB	23000 Blk. Dyke Rd.	24-Feb-12	0.63	<1	<2	5	<1	0.3
RMD-276	GRAB	22271 Cochrane Drive	24-Feb-12	0.56	<1	2	6	<1	0.25
RMD-275	GRAB	5180 Smith Cres.	24-Feb-12	0.58	<1	LA	5	<1	0.27
RMD-203	GRAB	23260 Westminster Hwy.	24-Feb-12	0.67	<1	<2	5	<1	0.3
RMD-250	GRAB	6071 Azure Rd.	27-Feb-12	0.52	<1	<2	6	<1	0.12
RMD-271	GRAB	3800 Cessna Drive	27-Feb-12	0.43	<1	<2	5	<1	0.11
RMD-272	GRAB	751 Catalina Cres.	27-Feb-12	0.46	<1	<2	6	<1	0.11
RMD-255	GRAB	6000 Blk. Miller Rd.	27-Feb-12	0.41	<1	<2	4	<1	0.3
RMD-256	GRAB	1000 Blk. McDonald Rd.	27-Feb-12	0.42	<1	2	5	<1	0.12
RMD-254	GRAB	5300 No. 3 Rd.	27-Feb-12	0.44	<1	<2	5	<1	0.09
RMD-270	GRAB	8200 Jones Rd.	27-Feb-12	0.34	<1	<2	5	<1	0.12
RMD-269	GRAB	14951 Triangle Rd.	27-Feb-12	0.48	<1	<2	5	<1	0.1
RMD-253	GRAB	11051 No. 3 Rd.	27-Feb-12	0.51	<1	<2	5	<1	0.12

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-274	GRAB	10920 Springwood Court	27-Feb-12	0.39	<1	<2	6	<1	0.27
RMD-252	GRAB	9751 Pendleton Rd.	27-Feb-12	0.44	<1	<2	5	<1	0.13
RMD-273	GRAB	Opp. 8331 Fairfax Place	27-Feb-12	0.44	<1	<2	6	<1	0.12
RMD-251	GRAB	5951 McCallan Rd.	27-Feb-12	0.45	<1	<2	5	<1	0.1
RMD-257	GRAB	6640 Blundell Rd.	29-Feb-12	0.44	<1	<2	5	<1	0.18
RMD-258	GRAB	7000 Blk. Dyke Rd.	29-Feb-12	0.56	<1	<2	6	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	29-Feb-12	0.58	<1	<2	6	<1	0.12
RMD-259	GRAB	10020 Amethyst Ave.	29-Feb-12	0.56	<1	<2	6	<1	0.13
RMD-266	GRAB	9380 General Currie Rd.	29-Feb-12	0.66	<1	2	5	<1	0.12
RMD-260	GRAB	11111 Horseshoe Way	29-Feb-12	0.66	<1	<2	5	<1	0.14
RMD-261	GRAB	9911 Sidaway Rd.	29-Feb-12	0.63	<1	<2	5	<1	0.11
RMD-262	GRAB	13799 Commerce Pkwy.	29-Feb-12	0.67	<1	<2	5	<1	0.15
RMD-263	GRAB	12560 Cambie Rd.	29-Feb-12	0.83	<1	<2	5	<1	0.16
RMD-264	GRAB	13100 Mitchell Rd.	29-Feb-12	0.61	<1	<2	5	<1	0.31
RMD-277	GRAB	Opp. 11280 Twigg Place	29-Feb-12	0.59	<1	<2	6	<1	0.28
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	29-Feb-12	0.65	<1	<2	5	<1	0.37
RMD-278	GRAB	6651 Fraserwood Place	29-Feb-12	0.62	<1	<2	6	<1	0.32
RMD-204	GRAB	3180 Granville Ave.	2-Mar-12	0.65	<1	4	5	<1	0.11
RMD-206	GRAB	4251 Moncton St.	2-Mar-12	0.49	<1	4	7	<1	0.15
RMD-216	GRAB	11080 No. 2 Rd.	2-Mar-12	0.61	<1	2	7	<1	0.12
RMD-212	GRAB	Opp. 8600 Ryan Rd.	2-Mar-12	0.57	<1	<2	6	<1	0.11
RMD-208	GRAB	13200 No. 4 Rd.	2-Mar-12	0.64	<1	2	6	<1	0.09
RMD-205	GRAB	13851 Steveston Hwy.	2-Mar-12	0.72	<1	<2	5	<1	0.1
RMD-202	GRAB	1500 Valemont Way	2-Mar-12	0.54	<1	<2	7	<1	0.29
RMD-214	GRAB	11720 Westminster Hwy.	2-Mar-12	0.55	<1	<2	6	<1	0.2
RMD-267	GRAB	17240 Fedoruk	2-Mar-12	0.45	<1	2	5	<1	0.22
RMD-249	GRAB	23000 Blk. Dyke Rd.	2-Mar-12	0.78	<1	2	5	<1	0.27
RMD-276	GRAB	22271 Cochrane Drive	2-Mar-12	0.61	<1	<2	6	<1	0.23
RMD-275	GRAB	5180 Smith Cres.	2-Mar-12	0.7	<1	<2	6	<1	0.24
RMD-203	GRAB	23260 Westminster Hwy.	2-Mar-12	0.83	<1	<2	6	<1	0.31
RMD-251	GRAB	5951 McCallan Rd.	5-Mar-12	0.57	<1	2	4	<1	0.15
RMD-273	GRAB	Opp. 8331 Fairfax Place	5-Mar-12	0.57	<1	<2	7	<1	0.13
RMD-274	GRAB	10920 Springwood Court	5-Mar-12	0.58	<1	<2	6	<1	0.1
RMD-252	GRAB	9751 Pendleton Rd.	5-Mar-12	0.58	<1	<2	5	<1	0.11
RMD-250	GRAB	6071 Azure Rd.	5-Mar-12	0.6	<1	<2	6	<1	0.13
RMD-271	GRAB	3800 Cessna Drive	5-Mar-12	0.56	<1	<2	6	<1	0.13
RMD-272	GRAB	751 Catalina Cres.	5-Mar-12	0.6	<1	<2	6	<1	0.12
RMD-255	GRAB	6000 Blk. Miller Rd.	5-Mar-12	0.63	<1	<2	4	<1	0.2

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-256	GRAB	1000 Blk. McDonald Rd.	5-Mar-12	0.54	<1	<2	5	<1	0.19
RMD-254	GRAB	5300 No. 3 Rd.	5-Mar-12	0.62	<1	<2	5	<1	0.13
RMD-270	GRAB	8200 Jones Rd.	5-Mar-12	0.61	<1	2	6	<1	0.12
RMD-269	GRAB	14951 Triangle Rd.	5-Mar-12	0.7	<1	<2	6	<1	0.15
RMD-253	GRAB	11051 No. 3 Rd.	5-Mar-12	0.63	<1	<2	5	<1	0.13
RMD-257	GRAB	6640 Blundell Rd.	7-Mar-12	0.54	<1	2	5	<1	0.12
RMD-266	GRAB	9380 General Currie Rd.	7-Mar-12	0.62	<1	2	5	<1	0.09
RMD-263	GRAB	12560 Cambie Rd.	7-Mar-12	0.57	<1	<2	5	<1	0.11
RMD-264	GRAB	13100 Mitchell Rd.	7-Mar-12	0.41	<1	<2	5	<1	0.11
RMD-277	GRAB	Opp. 11280 Twigg Place	7-Mar-12	0.49	<1	2	7	<1	0.17
RMD-262	GRAB	13799 Commerce Pkwy.	7-Mar-12	0.61	<1	<2	5	<1	0.11
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	7-Mar-12	0.57	<1	<2	6	<1	0.35
RMD-278	GRAB	6651 Fraserwood Place	7-Mar-12	0.61	<1	2	6	<1	0.32
RMD-261	GRAB	9911 Sidaway Rd.	7-Mar-12	0.66	<1	<2	6	<1	0.1
RMD-260	GRAB	11111 Horseshoe Way	7-Mar-12	0.61	<1	<2	5	<1	0.1
RMD-259	GRAB	10020 Amethyst Ave.	7-Mar-12	0.5	<1	<2	5	<1	0.09
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	7-Mar-12	0.61	<1	2	5	<1	0.13
RMD-258	GRAB	7000 Blk. Dyke Rd.	7-Mar-12	0.64	<1	<2	6	<1	0.09
RMD-204	GRAB	3180 Granville Ave.	9-Mar-12	0.53	<1	2	5	<1	0.11
RMD-206	GRAB	4251 Moncton St.	9-Mar-12	0.44	<1	<2	5	<1	0.15
RMD-216	GRAB	11080 No. 2 Rd.	9-Mar-12	0.52	<1	<2	5	<1	0.11
RMD-212	GRAB	Opp. 8600 Ryan Rd.	9-Mar-12	0.58	<1	<2	5	<1	0.14
RMD-208	GRAB	13200 No. 4 Rd.	9-Mar-12	0.46	<1	6	6	<1	0.1
RMD-205	GRAB	13851 Steveston Hwy.	9-Mar-12	0.53	<1	<2	5	<1	0.12
RMD-202	GRAB	1500 Valemont Way	9-Mar-12	0.48	<1	<2	6	<1	0.28
RMD-214	GRAB	11720 Westminster Hwy.	9-Mar-12	0.57	<1	<2	5	<1	0.13
RMD-267	GRAB	17240 Fedoruk	9-Mar-12	0.52	<1	<2	6	<1	0.23
RMD-249	GRAB	23000 Blk. Dyke Rd.	9-Mar-12	0.49	<1	<2	5	<1	0.46
RMD-276	GRAB	22271 Cochrane Drive	9-Mar-12	0.41	<1	<2	6	<1	0.34
RMD-275	GRAB	5180 Smith Cres.	9-Mar-12	0.57	<1	<2	5	<1	0.49
RMD-203	GRAB	23260 Westminster Hwy.	9-Mar-12	0.6	<1	<2	5	<1	0.32
RMD-251	GRAB	5951 McCallan Rd.	12-Mar-12	0.4	<1	<2	5	<1	0.15
RMD-273	GRAB	Opp. 8331 Fairfax Place	12-Mar-12	0.53	<1	<2	8	<1	0.2
RMD-252	GRAB	9751 Pendleton Rd.	12-Mar-12	0.59	<1	<2	6	<1	0.11
RMD-274	GRAB	10920 Springwood Court	12-Mar-12	0.6	<1	<2	7	<1	0.12
RMD-250	GRAB	6071 Azure Rd.	12-Mar-12	0.59	<1	<2	7	<1	0.22
RMD-271	GRAB	3800 Cessna Drive	12-Mar-12	0.6	<1	<2	6	<1	0.1
RMD-272	GRAB	751 Catalina Cres.	12-Mar-12	0.52	<1	6	5	<1	0.08

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-255	GRAB	6000 Blk. Miller Rd.	12-Mar-12	0.65	<1	<2	5	<1	0.19
RMD-256	GRAB	1000 Blk. McDonald Rd.	12-Mar-12	0.57	<1	<2	6	<1	0.16
RMD-254	GRAB	5300 No. 3 Rd.	12-Mar-12	0.48	<1	6	5	<1	0.14
RMD-270	GRAB	8200 Jones Rd.	12-Mar-12	0.54	<1	<2	5	<1	0.11
RMD-269	GRAB	14951 Triangle Rd.	12-Mar-12	0.72	<1	2	5	<1	0.1
RMD-253	GRAB	11051 No. 3 Rd.	12-Mar-12	0.49	<1	24	5	<1	0.2
RMD-263	GRAB	12560 Cambie Rd.	14-Mar-12	0.58	<1	<2	6	<1	0.27
RMD-264	GRAB	13100 Mitchell Rd.	14-Mar-12	0.53	<1	<2	5	<1	0.14
RMD-277	GRAB	Opp. 11280 Twigg Place	14-Mar-12	0.55	<1	<2	5	<1	0.21
RMD-262	GRAB	13799 Commerce Pkwy.	14-Mar-12	0.55	<1	<2	6	<1	0.1
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	14-Mar-12	0.42	<1	<2	6	<1	0.31
RMD-278	GRAB	6651 Fraserwood Place	14-Mar-12	0.37	<1	<2	6	<1	0.29
RMD-261	GRAB	9911 Sidaway Rd.	14-Mar-12	0.45	<1	<2	6	<1	0.25
RMD-260	GRAB	11111 Horseshoe Way	14-Mar-12	0.61	<1	<2	6	<1	0.28
RMD-259	GRAB	10020 Amethyst Ave.	14-Mar-12	0.58	<1	<2	7	<1	0.25
RMD-266	GRAB	9380 General Currie Rd.	14-Mar-12	0.61	<1	2	5	<1	0.08
RMD-258	GRAB	7000 Blk. Dyke Rd.	14-Mar-12	0.52	<1	<2	5	<1	0.29
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	14-Mar-12	0.51	<1	<2	6	<1	0.1
RMD-257	GRAB	6640 Blundell Rd.	14-Mar-12	0.6	<1	<2	6	<1	0.29
RMD-204	GRAB	3180 Granville Ave.	16-Mar-12	0.49	<1	<2	6	<1	0.11
RMD-206	GRAB	4251 Moncton St.	16-Mar-12	0.49	<1	<2	7	<1	0.13
RMD-216	GRAB	11080 No. 2 Rd.	16-Mar-12	0.52	<1	<2	7	<1	0.15
RMD-212	GRAB	Opp. 8600 Ryan Rd.	16-Mar-12	0.55	<1	<2	5	<1	0.09
RMD-208	GRAB	13200 No. 4 Rd.	16-Mar-12	0.59	<1	<2	5	<1	0.11
RMD-205	GRAB	13851 Steveston Hwy.	16-Mar-12	0.61	<1	<2	5	<1	0.1
RMD-202	GRAB	1500 Valemont Way	16-Mar-12	0.42	<1	<2	6	<1	0.25
RMD-214	GRAB	11720 Westminster Hwy.	16-Mar-12	0.66	<1	<2	4	<1	0.11
RMD-267	GRAB	17240 Fedoruk	16-Mar-12	0.42	<1	2	6	<1	0.22
RMD-249	GRAB	23000 Blk. Dyke Rd.	16-Mar-12	0.62	<1	<2	5	<1	0.27
RMD-276	GRAB	22271 Cochrane Drive	16-Mar-12	0.45	<1	<2	7	<1	0.26
RMD-275	GRAB	5180 Smith Cres.	16-Mar-12	0.52	<1	<2	6	<1	0.28
RMD-203	GRAB	23260 Westminster Hwy.	16-Mar-12	0.53	<1	<2	6	<1	0.3
RMD-250	GRAB	6071 Azure Rd.	19-Mar-12	0.55	<1	<2	6	<1	0.09
RMD-271	GRAB	3800 Cessna Drive	19-Mar-12	0.5	<1	<2	5	<1	0.08
RMD-272	GRAB	751 Catalina Cres.	19-Mar-12	0.48	<1	<2	5	<1	0.1
RMD-255	GRAB	6000 Blk. Miller Rd.	19-Mar-12	0.5	<1	<2	4	<1	0.61
RMD-256	GRAB	1000 Blk. McDonald Rd.	19-Mar-12	0.54	<1	<2	5	<1	0.11
RMD-254	GRAB	5300 No. 3 Rd.	19-Mar-12	0.57	<1	<2	5	<1	0.1

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-270	GRAB	8200 Jones Rd.	19-Mar-12	0.41	<1	<2	5	<1	0.1
RMD-269	GRAB	14951 Triangle Rd.	19-Mar-12	0.63	<1	<2	5	<1	0.08
RMD-253	GRAB	11051 No. 3 Rd.	19-Mar-12	0.59	<1	<2	5	<1	0.11
RMD-274	GRAB	10920 Springwood Court	19-Mar-12	0.39	<1	<2	6	<1	0.22
RMD-273	GRAB	Opp. 8331 Fairfax Place	19-Mar-12	0.41	<1	2	6	<1	0.15
RMD-252	GRAB	9751 Pendleton Rd.	19-Mar-12	0.45	<1	<2	5	<1	0.09
RMD-251	GRAB	5951 McCallan Rd.	19-Mar-12	0.46	<1	<2	5	<1	0.1
RMD-263	GRAB	12560 Cambie Rd.	21-Mar-12	0.54	<1	<2	5	<1	0.11
RMD-264	GRAB	13100 Mitchell Rd.	21-Mar-12	0.66	<1	<2	6	<1	0.09
RMD-277	GRAB	Opp. 11280 Twigg Place	21-Mar-12	0.47	<1	<2	6	<1	0.13
RMD-262	GRAB	13799 Commerce Pkwy.	21-Mar-12	0.59	<1	<2	5	<1	0.2
RMD-278	GRAB	6651 Fraserwood Place	21-Mar-12	0.36	<1	<2	6	<1	0.26
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	21-Mar-12	0.3	<1	<2	6	<1	0.27
RMD-261	GRAB	9911 Sidaway Rd.	21-Mar-12	0.51	<1	2	5	<1	0.09
RMD-260	GRAB	11111 Horseshoe Way	21-Mar-12	0.58	<1	<2	5	<1	0.13
RMD-259	GRAB	10020 Amethyst Ave.	21-Mar-12	0.62	<1	<2	5	<1	0.1
RMD-266	GRAB	9380 General Currie Rd.	21-Mar-12	0.58	<1	<2	5	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	21-Mar-12	0.48	<1	<2	6	<1	0.1
RMD-258	GRAB	7000 Blk. Dyke Rd.	21-Mar-12	0.6	<1	<2	6	<1	0.09
RMD-257	GRAB	6640 Blundell Rd.	21-Mar-12	0.57	<1	<2	5	<1	0.08
RMD-204	GRAB	3180 Granville Ave.	23-Mar-12	0.56	<1	<2	6	<1	0.1
RMD-206	GRAB	4251 Moncton St.	23-Mar-12	0.42	<1	<2	6	<1	0.13
RMD-216	GRAB	11080 No. 2 Rd.	23-Mar-12	0.47	<1	<2	5	<1	0.09
RMD-212	GRAB	Opp. 8600 Ryan Rd.	23-Mar-12	0.48	<1	<2	6	<1	0.11
RMD-208	GRAB	13200 No. 4 Rd.	23-Mar-12	0.49	<1	<2	5	<1	0.14
RMD-205	GRAB	13851 Steveston Hwy.	23-Mar-12	0.44	<1	<2	5	<1	0.11
RMD-202	GRAB	1500 Valemont Way	23-Mar-12	0.41	<1	<2	6	<1	0.18
RMD-214	GRAB	11720 Westminster Hwy.	23-Mar-12	0.59	<1	<2	4	<1	0.11
RMD-267	GRAB	17240 Fedoruk	23-Mar-12	0.36	<1	<2	6	<1	0.22
RMD-249	GRAB	23000 Blk. Dyke Rd.	23-Mar-12	0.46	<1	<2	6	<1	0.3
RMD-276	GRAB	22271 Cochrane Drive	23-Mar-12	0.43	<1	<2	6	<1	0.26
RMD-275	GRAB	5180 Smith Cres.	23-Mar-12	0.39	<1	<2	6	<1	0.26
RMD-203	GRAB	23260 Westminster Hwy.	23-Mar-12	0.61	<1	<2	5	<1	0.32
RMD-250	GRAB	6071 Azure Rd.	26-Mar-12	0.52	<1	<2	7	<1	0.15
RMD-271	GRAB	3800 Cessna Drive	26-Mar-12	0.55	<1	<2	5	<1	0.11
RMD-272	GRAB	751 Catalina Cres.	26-Mar-12	0.53	<1	2	5	<1	0.14
RMD-255	GRAB	6000 Blk. Miller Rd.	26-Mar-12	0.54	<1	<2	5	<1	0.21
RMD-256	GRAB	1000 Blk. McDonald Rd.	26-Mar-12	0.37	<1	<2	6	<1	0.15

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-254	GRAB	5300 No. 3 Rd.	26-Mar-12	0.53	<1	<2	5	<1	0.11
RMD-270	GRAB	8200 Jones Rd.	26-Mar-12	0.5	<1	<2	7	<1	0.1
RMD-269	GRAB	14951 Triangle Rd.	26-Mar-12	0.62	<1	2	5	<1	0.1
RMD-253	GRAB	11051 No. 3 Rd.	26-Mar-12	0.55	<1	<2	5	<1	0.12
RMD-274	GRAB	10920 Springwood Court	26-Mar-12	0.4	<1	<2	8	<1	0.14
RMD-252	GRAB	9751 Pendleton Rd.	26-Mar-12	0.48	<1	<2	7	<1	0.1
RMD-273	GRAB	Opp. 8331 Fairfax Place	26-Mar-12	0.4	<1	<2	8	<1	0.12
RMD-251	GRAB	5951 McCallan Rd.	26-Mar-12	0.55	<1	<2	5	<1	0.08
RMD-263	GRAB	12560 Cambie Rd.	28-Mar-12	0.6	<1	<2	5	<1	0.11
RMD-264	GRAB	13100 Mitchell Rd.	28-Mar-12	0.56	<1	<2	6	<1	0.08
RMD-277	GRAB	Opp. 11280 Twigg Place	28-Mar-12	0.54	<1	4	6	<1	0.13
RMD-262	GRAB	13799 Commerce Pkwy.	28-Mar-12	0.72	<1	<2	5	<1	0.08
RMD-278	GRAB	6651 Fraserwood Place	28-Mar-12	0.29	<1	<2	7	<1	0.29
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	28-Mar-12	0.18	<1	<2	6	<1	0.36
RMD-261	GRAB	9911 Sidaway Rd.	28-Mar-12	0.65	<1	<2	6	<1	0.08
RMD-260	GRAB	11111 Horseshoe Way	28-Mar-12	0.63	<1	2	6	<1	0.08
RMD-259	GRAB	10020 Amethyst Ave.	28-Mar-12	0.52	<1	2	6	<1	0.1
RMD-266	GRAB	9380 General Currie Rd.	28-Mar-12	0.6	<1	<2	5	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	28-Mar-12	0.52	<1	<2	6	<1	0.11
RMD-258	GRAB	7000 Blk. Dyke Rd.	28-Mar-12	0.57	<1	<2	6	<1	0.62
RMD-257	GRAB	6640 Blundell Rd.	28-Mar-12	0.59	<1	<2	5	<1	0.13
RMD-204	GRAB	3180 Granville Ave.	30-Mar-12	0.67	<1	2	7	<1	0.11
RMD-206	GRAB	4251 Moncton St.	30-Mar-12	0.56	<1	2	8	<1	0.11
RMD-216	GRAB	11080 No. 2 Rd.	30-Mar-12	0.57	<1	2	6	<1	0.13
RMD-212	GRAB	Opp. 8600 Ryan Rd.	30-Mar-12	0.54	<1	<2	7	<1	0.1
RMD-208	GRAB	13200 No. 4 Rd.	30-Mar-12	0.28	<1	<2	7	<1	0.09
RMD-205	GRAB	13851 Steveston Hwy.	30-Mar-12	0.64	<1	<2	7	<1	0.09
RMD-202	GRAB	1500 Valemont Way	30-Mar-12	0.62	<1	<2	8	<1	0.28
RMD-214	GRAB	11720 Westminster Hwy.	30-Mar-12	0.56	<1	<2	6	<1	0.09
RMD-267	GRAB	17240 Fedoruk	30-Mar-12	0.57	<1	<2	8	<1	0.21
RMD-249	GRAB	23000 Blk. Dyke Rd.	30-Mar-12	0.78	<1	<2	7	<1	0.28
RMD-276	GRAB	22271 Cochrane Drive	30-Mar-12	0.6	<1	<2	7	<1	0.29
RMD-275	GRAB	5180 Smith Cres.	30-Mar-12	0.61	<1	2	7	<1	0.3
RMD-203	GRAB	23260 Westminster Hwy.	30-Mar-12	0.58	<1	<2	7	<1	0.38
RMD-251	GRAB	5951 McCallan Rd.	2-Apr-12	0.59	<1	<2	6	<1	0.09
RMD-273	GRAB	Opp. 8331 Fairfax Place	2-Apr-12	0.51	<1	<2	10	<1	0.2
RMD-252	GRAB	9751 Pendleton Rd.	2-Apr-12	0.46	<1	<2	8	<1	0.12
RMD-274	GRAB	10920 Springwood Court	2-Apr-12	0.58	<1	<2	7	<1	0.19

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-250	GRAB	6071 Azure Rd.	2-Apr-12	0.58	<1	<2	7	<1	0.12
RMD-271	GRAB	3800 Cessna Drive	2-Apr-12	0.54	<1	<2	8	<1	0.13
RMD-272	GRAB	751 Catalina Cres.	2-Apr-12	0.63	<1	<2	6	<1	0.21
RMD-255	GRAB	6000 Blk. Miller Rd.	2-Apr-12	0.69	<1	<2	8	<1	0.33
RMD-256	GRAB	1000 Blk. McDonald Rd.	2-Apr-12	0.59	<1	<2	7	<1	0.12
RMD-254	GRAB	5300 No. 3 Rd.	2-Apr-12	0.58	<1	<2	6	<1	0.13
RMD-270	GRAB	8200 Jones Rd.	2-Apr-12	0.55	<1	<2	7	<1	0.12
RMD-269	GRAB	14951 Triangle Rd.	2-Apr-12	0.69	<1	<2	8	<1	0.09
RMD-253	GRAB	11051 No. 3 Rd.	2-Apr-12	0.6	<1	<2	6	<1	0.12
RMD-263	GRAB	12560 Cambie Rd.	4-Apr-12	0.62	<1	<2	7	<1	0.13
RMD-264	GRAB	13100 Mitchell Rd.	4-Apr-12	0.62	<1	<2	6	<1	0.1
RMD-277	GRAB	Opp. 11280 Twigg Place	4-Apr-12	0.46	<1	<2	8	<1	0.14
RMD-262	GRAB	13799 Commerce Pkwy.	4-Apr-12	0.7	<1	<2	6	<1	0.16
RMD-278	GRAB	6651 Fraserwood Place	4-Apr-12	0.74	<1	<2	7	<1	0.35
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	4-Apr-12	0.54	<1	2	7	<1	0.3
RMD-260	GRAB	11111 Horseshoe Way	4-Apr-12	0.69	<1	<2	7	<1	0.13
RMD-261	GRAB	9911 Sidaway Rd.	4-Apr-12	0.74	<1	<2	8	<1	0.1
RMD-266	GRAB	9380 General Currie Rd.	4-Apr-12	0.69	<1	<2	6	<1	0.11
RMD-259	GRAB	10020 Amethyst Ave.	4-Apr-12	0.69	<1	2	6	<1	0.1
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	4-Apr-12	0.59	<1	<2	7	<1	0.11
RMD-258	GRAB	7000 Blk. Dyke Rd.	4-Apr-12	0.65	<1	<2	6	<1	0.11
RMD-257	GRAB	6640 Blundell Rd.	4-Apr-12	0.64	<1	<2	6	<1	0.11
RMD-263	GRAB	12560 Cambie Rd.	11-Apr-12	0.6	<1	<2	7	<1	0.22
RMD-264	GRAB	13100 Mitchell Rd.	11-Apr-12	0.64	<1	<2	7	<1	0.21
RMD-277	GRAB	Opp. 11280 Twigg Place	11-Apr-12	0.58	<1	<2	8	<1	0.23
RMD-262	GRAB	13799 Commerce Pkwy.	11-Apr-12	0.7	<1	2	8	<1	0.15
RMD-278	GRAB	6651 Fraserwood Place	11-Apr-12	0.65	<1	<2	9	<1	0.56
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	11-Apr-12	0.65	<1	<2	8	<1	0.59
RMD-261	GRAB	9911 Sidaway Rd.	11-Apr-12	0.7	<1	<2	7	<1	0.08
RMD-260	GRAB	11111 Horseshoe Way	11-Apr-12	0.67	<1	<2	7	<1	0.15
RMD-259	GRAB	10020 Amethyst Ave.	11-Apr-12	0.54	<1	<2	7	<1	0.12
RMD-266	GRAB	9380 General Currie Rd.	11-Apr-12	0.6	<1	<2	7	<1	0.13
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	11-Apr-12	0.6	<1	<2	7	<1	0.15
RMD-258	GRAB	7000 Blk. Dyke Rd.	11-Apr-12	0.6	<1	<2	7	<1	0.13
RMD-257	GRAB	6640 Blundell Rd.	11-Apr-12	0.64	<1	<2	7	<1	0.1
RMD-204	GRAB	3180 Granville Ave.	13-Apr-12	0.54	<1	<2	8	<1	0.11
RMD-206	GRAB	4251 Moncton St.	13-Apr-12	0.49	<1	<2	7	<1	0.13
RMD-216	GRAB	11080 No. 2 Rd.	13-Apr-12	0.56	<1	<2	6	<1	0.15

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-212	GRAB	Opp. 8600 Ryan Rd.	13-Apr-12	0.54	<1	<2	6	<1	0.14
RMD-208	GRAB	13200 No. 4 Rd.	13-Apr-12	0.52	<1	2	6	<1	0.11
RMD-205	GRAB	13851 Steveston Hwy.	13-Apr-12	0.67	<1	<2	6	<1	0.09
RMD-214	GRAB	11720 Westminster Hwy.	13-Apr-12	0.65	<1	2	6	<1	0.16
RMD-202	GRAB	1500 Valemont Way	13-Apr-12	0.64	<1	<2	7	<1	0.25
RMD-267	GRAB	17240 Fedoruk	13-Apr-12	0.51	<1	2	7	<1	0.22
RMD-249	GRAB	23000 Blk. Dyke Rd.	13-Apr-12	0.81	<1	2	8	<1	0.32
RMD-276	GRAB	22271 Cochrane Drive	13-Apr-12	0.72	<1	<2	6	<1	0.28
RMD-275	GRAB	5180 Smith Cres.	13-Apr-12	0.78	<1	<2	7	<1	0.27
RMD-203	GRAB	23260 Westminster Hwy.	13-Apr-12	0.81	<1	<2	6	<1	0.32
RMD-251	GRAB	5951 McCallan Rd.	16-Apr-12	0.45	<1	2	8	<1	0.16
RMD-273	GRAB	Opp. 8331 Fairfax Place	16-Apr-12	0.54	<1	<2	10	<1	0.36
RMD-274	GRAB	10920 Springwood Court	16-Apr-12	0.52	<1	<2	10	<1	0.1
RMD-252	GRAB	9751 Pendleton Rd.	16-Apr-12	0.52	<1	<2	9	<1	0.11
RMD-250	GRAB	6071 Azure Rd.	16-Apr-12	0.59	<1	<2	8	<1	0.09
RMD-271	GRAB	3800 Cessna Drive	16-Apr-12	0.59	<1	<2	8	<1	0.13
RMD-272	GRAB	751 Catalina Cres.	16-Apr-12	0.63	<1	<2	8	<1	0.13
RMD-256	GRAB	1000 Blk. McDonald Rd.	16-Apr-12	0.53	<1	<2	8	<1	0.17
RMD-255	GRAB	6000 Blk. Miller Rd.	16-Apr-12	0.63	<1	<2	8	<1	0.45
RMD-254	GRAB	5300 No. 3 Rd.	16-Apr-12	0.57	<1	<2	8	<1	0.13
RMD-270	GRAB	8200 Jones Rd.	16-Apr-12	0.57	<1	<2	8	<1	0.13
RMD-269	GRAB	14951 Triangle Rd.	16-Apr-12	0.64	<1	<2	8	<1	0.1
RMD-253	GRAB	11051 No. 3 Rd.	16-Apr-12	0.58	<1	<2	7	<1	0.09
RMD-258	GRAB	7000 Blk. Dyke Rd.	18-Apr-12	0.49	<1	<2	7	<1	0.14
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	18-Apr-12	0.44	<1	<2	8	<1	0.12
RMD-260	GRAB	11111 Horseshoe Way	18-Apr-12	0.44	<1	2	7	<1	0.1
RMD-259	GRAB	10020 Amethyst Ave.	18-Apr-12	0.45	<1	<2	7	<1	0.1
RMD-266	GRAB	9380 General Currie Rd.	18-Apr-12	0.44	<1	<2	7	<1	0.15
RMD-257	GRAB	6640 Blundell Rd.	18-Apr-12	0.46	<1	<2	6	<1	0.13
RMD-261	GRAB	9911 Sidaway Rd.	18-Apr-12	0.47	<1	<2	8	<1	0.13
RMD-262	GRAB	13799 Commerce Pkwy.	18-Apr-12	0.56	<1	<2	7	<1	0.18
RMD-278	GRAB	6651 Fraserwood Place	18-Apr-12	0.25	<1	<2	9	<1	0.25
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	18-Apr-12	0.51	<1	<2	8	<1	0.24
RMD-264	GRAB	13100 Mitchell Rd.	18-Apr-12	0.41	<1	<2	7	<1	0.16
RMD-277	GRAB	Opp. 11280 Twigg Place	18-Apr-12	0.22	<1	<2	9	<1	0.16
RMD-263	GRAB	12560 Cambie Rd.	18-Apr-12	0.46	<1	<2	7	<1	0.14
RMD-204	GRAB	3180 Granville Ave.	20-Apr-12	0.71	<1	<2	8	<1	0.35
RMD-206	GRAB	4251 Moncton St.	20-Apr-12	0.59	<1	<2	9	<1	0.18

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-216	GRAB	11080 No. 2 Rd.	20-Apr-12	0.68	<1	<2	8	<1	0.27
RMD-212	GRAB	Opp. 8600 Ryan Rd.	20-Apr-12	0.64	<1	<2	8	<1	0.37
RMD-208	GRAB	13200 No. 4 Rd.	20-Apr-12	0.54	<1	<2	7	<1	0.34
RMD-205	GRAB	13851 Steveston Hwy.	20-Apr-12	0.48	<1	<2	7	<1	0.12
RMD-202	GRAB	1500 Valemont Way	20-Apr-12	0.62	<1	<2	9	<1	0.2
RMD-214	GRAB	11720 Westminster Hwy.	20-Apr-12	0.7	<1	<2	7	<1	0.28
RMD-267	GRAB	17240 Fedoruk	20-Apr-12	0.49	<1	<2	9	<1	0.19
RMD-249	GRAB	23000 Blk. Dyke Rd.	20-Apr-12	0.58	<1	<2	8	<1	0.28
RMD-276	GRAB	22271 Cochrane Drive	20-Apr-12	0.51	<1	<2	9	<1	0.26
RMD-275	GRAB	5180 Smith Cres.	20-Apr-12	0.46	<1	<2	8	<1	0.3
RMD-203	GRAB	23260 Westminster Hwy.	20-Apr-12	0.7	<1	<2	8	<1	0.32
RMD-251	GRAB	5951 McCallan Rd.	23-Apr-12	0.7	<1	<2	9	<1	0.3
RMD-273	GRAB	Opp. 8331 Fairfax Place	23-Apr-12	0.54	<1	<2	12	<1	0.32
RMD-252	GRAB	9751 Pendleton Rd.	23-Apr-12	0.78	<1	<2	9	<1	0.27
RMD-274	GRAB	10920 Springwood Court	23-Apr-12	0.57	<1	<2	10	<1	0.25
RMD-253	GRAB	11051 No. 3 Rd.	23-Apr-12	0.88	<1	2	7	<1	0.35
RMD-269	GRAB	14951 Triangle Rd.	23-Apr-12	0.79	<1	2	7	<1	0.13
RMD-270	GRAB	8200 Jones Rd.	23-Apr-12	0.7	<1	<2	7	<1	0.32
RMD-254	GRAB	5300 No. 3 Rd.	23-Apr-12	0.64	<1	2	7	<1	0.35
RMD-271	GRAB	3800 Cessna Drive	23-Apr-12	0.77	<1	<2	7	<1	0.29
RMD-272	GRAB	751 Catalina Cres.	23-Apr-12	0.84	<1	<2	7	<1	0.39
RMD-255	GRAB	6000 Blk. Miller Rd.	23-Apr-12	0.79	<1	<2	7	<1	0.37
RMD-256	GRAB	1000 Blk. McDonald Rd.	23-Apr-12	0.78	<1	<2	8	<1	0.34
RMD-250	GRAB	6071 Azure Rd.	23-Apr-12	0.69	<1	2	10	<1	0.36
RMD-263	GRAB	12560 Cambie Rd.	25-Apr-12	0.8	<1	<2	7	<1	0.3
RMD-264	GRAB	13100 Mitchell Rd.	25-Apr-12	0.69	<1	2	7	<1	0.49
RMD-277	GRAB	Opp. 11280 Twigg Place	25-Apr-12	0.72	<1	<2	7	<1	0.79
RMD-262	GRAB	13799 Commerce Pkwy.	25-Apr-12	0.75	<1	<2	7	<1	0.1
RMD-278	GRAB	6651 Fraserwood Place	25-Apr-12	0.59	<1	<2	9	<1	0.31
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	25-Apr-12	0.62	<1	<2	9	<1	0.49
RMD-261	GRAB	9911 Sidaway Rd.	25-Apr-12	0.6	<1	<2	7	<1	0.1
RMD-260	GRAB	11111 Horseshoe Way	25-Apr-12	0.61	<1	2	8	<1	0.1
RMD-259	GRAB	10020 Amethyst Ave.	25-Apr-12	0.68	<1	<2	7	<1	0.33
RMD-266	GRAB	9380 General Currie Rd.	25-Apr-12	0.82	<1	<2	7	<1	0.24
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	25-Apr-12	0.73	<1	<2	7	<1	0.26
RMD-258	GRAB	7000 Blk. Dyke Rd.	25-Apr-12	0.85	<1	4	8	<1	0.32
RMD-257	GRAB	6640 Blundell Rd.	25-Apr-12	0.82	<1	<2	7	<1	0.34
RMD-204	GRAB	3180 Granville Ave.	27-Apr-12	0.99	<1	<2	9	<1	0.28

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-206	GRAB	4251 Moncton St.	27-Apr-12	0.62	<1	<2	9	<1	0.19
RMD-216	GRAB	11080 No. 2 Rd.	27-Apr-12	0.7	<1	<2	8	<1	0.29
RMD-212	GRAB	Opp. 8600 Ryan Rd.	27-Apr-12	0.71	<1	<2	8	<1	0.21
RMD-208	GRAB	13200 No. 4 Rd.	27-Apr-12	0.73	<1	4	8	<1	0.2
RMD-205	GRAB	13851 Steveston Hwy.	27-Apr-12	0.77	<1	<2	8	<1	0.27
RMD-202	GRAB	1500 Valemont Way	27-Apr-12	0.55	<1	<2	8	<1	0.23
RMD-214	GRAB	11720 Westminster Hwy.	27-Apr-12	0.65	<1	<2	7	<1	0.31
RMD-267	GRAB	17240 Fedoruk	27-Apr-12	0.56	<1	<2	9	<1	0.21
RMD-249	GRAB	23000 Blk. Dyke Rd.	27-Apr-12	0.74	<1	<2	7	<1	0.26
RMD-276	GRAB	22271 Cochrane Drive	27-Apr-12	0.65	<1	<2	8	<1	0.26
RMD-275	GRAB	5180 Smith Cres.	27-Apr-12	0.7	<1	<2	8	<1	0.34
RMD-203	GRAB	23260 Westminster Hwy.	27-Apr-12	0.73	<1	<2	8	<1	0.28
RMD-251	GRAB	5951 McCallan Rd.	30-Apr-12	0.57	<1	<2	8	<1	0.18
RMD-273	GRAB	Opp. 8331 Fairfax Place	30-Apr-12	0.53	<1	<2	13	<1	0.47
RMD-274	GRAB	10920 Springwood Court	30-Apr-12	0.46	<1	2	12	<1	0.21
RMD-252	GRAB	9751 Pendleton Rd.	30-Apr-12	0.55	<1	<2	8	<1	0.19
RMD-250	GRAB	6071 Azure Rd.	30-Apr-12	0.61	<1	<2	9	<1	0.29
RMD-271	GRAB	3800 Cessna Drive	30-Apr-12	0.72	<1	4	8	<1	0.25
RMD-272	GRAB	751 Catalina Cres.	30-Apr-12	0.7	<1	<2	8	<1	0.2
RMD-255	GRAB	6000 Blk. Miller Rd.	30-Apr-12	0.7	<1	<2	8	<1	0.26
RMD-256	GRAB	1000 Blk. McDonald Rd.	30-Apr-12	0.64	<1	<2	8	<1	0.21
RMD-253	GRAB	11051 No. 3 Rd.	30-Apr-12	0.73	<1	<2	8	<1	0.25
RMD-270	GRAB	8200 Jones Rd.	30-Apr-12	0.63	<1	<2	8	<1	0.23
RMD-269	GRAB	14951 Triangle Rd.	30-Apr-12	0.79	<1	<2	8	<1	0.18
RMD-254	GRAB	5300 No. 3 Rd.	30-Apr-12	0.68	<1	<2	8	<1	0.22
RMD-263	GRAB	12560 Cambie Rd.	2-May-12	0.72	<1	2	7	<1	0.41
RMD-264	GRAB	13100 Mitchell Rd.	2-May-12	0.71	<1	<2	8	<1	0.31
RMD-277	GRAB	Opp. 11280 Twigg Place	2-May-12	0.69	<1	<2	8	<1	0.4
RMD-262	GRAB	13799 Commerce Pkwy.	2-May-12	0.68	<1	<2	8	<1	0.28
RMD-278	GRAB	6651 Fraserwood Place	2-May-12	0.49	<1	<2	9	<1	0.42
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	2-May-12	0.43	<1	<2	9	<1	0.34
RMD-261	GRAB	9911 Sidaway Rd.	2-May-12	0.86	<1	<2	7	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	2-May-12	0.65	<1	<2	8	<1	0.16
RMD-259	GRAB	10020 Amethyst Ave.	2-May-12	0.64	<1	<2	8	<1	0.21
RMD-266	GRAB	9380 General Currie Rd.	2-May-12	0.73	<1	<2	7	<1	0.23
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	2-May-12	0.63	<1	<2	9	<1	0.2
RMD-258	GRAB	7000 Blk. Dyke Rd.	2-May-12	0.54	<1	<2	8	<1	0.16
RMD-257	GRAB	6640 Blundell Rd.	2-May-12	0.7	<1	<2	8	<1	0.26

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-204	GRAB	3180 Granville Ave.	4-May-12	0.6	<1	<2	9	<1	0.32
RMD-206	GRAB	4251 Moncton St.	4-May-12	0.56	<1	<2	10	<1	0.26
RMD-216	GRAB	11080 No. 2 Rd.	4-May-12	0.63	<1	<2	9	<1	0.23
RMD-212	GRAB	Opp. 8600 Ryan Rd.	4-May-12	0.53	<1	<2	9	<1	0.29
RMD-208	GRAB	13200 No. 4 Rd.	4-May-12	0.61	<1	<2	8	<1	0.22
RMD-205	GRAB	13851 Steveston Hwy.	4-May-12	0.78	<1	<2	8	<1	0.13
RMD-202	GRAB	1500 Valemont Way	4-May-12	0.56	<1	<2	10	<1	0.29
RMD-214	GRAB	11720 Westminster Hwy.	4-May-12	0.79	<1	<2	7	<1	0.23
RMD-267	GRAB	17240 Fedoruk	4-May-12	0.47	<1	<2	10	<1	0.24
RMD-249	GRAB	23000 Blk. Dyke Rd.	4-May-12	0.38	<1	<2	10	<1	0.3
RMD-276	GRAB	22271 Cochrane Drive	4-May-12	0.6	<1	<2	9	<1	0.27
RMD-275	GRAB	5180 Smith Cres.	4-May-12	0.64	<1	2	9	<1	0.27
RMD-203	GRAB	23260 Westminster Hwy.	4-May-12	0.69	<1	2	8	<1	0.33
RMD-251	GRAB	5951 McCallan Rd.	7-May-12	0.58	<1	2	8	<1	1.5
RMD-273	GRAB	Opp. 8331 Fairfax Place	7-May-12	0.48	<1	<2	14	<1	0.28
RMD-252	GRAB	9751 Pendleton Rd.	7-May-12	0.54	<1	<2	9	<1	2.1
RMD-274	GRAB	10920 Springwood Court	7-May-12	0.57	<1	<2	13	<1	0.16
RMD-250	GRAB	6071 Azure Rd.	7-May-12	0.61	<1	<2	9	<1	2.8
RMD-271	GRAB	3800 Cessna Drive	7-May-12	0.69	<1	<2	8	<1	0.18
RMD-272	GRAB	751 Catalina Cres.	7-May-12	0.65	<1	<2	7	<1	1.1
RMD-255	GRAB	6000 Blk. Miller Rd.	7-May-12	0.63	<1	2	7	<1	3
RMD-256	GRAB	1000 Blk. McDonald Rd.	7-May-12	0.06	<1	<2	12	<1	0.2
RMD-254	GRAB	5300 No. 3 Rd.	7-May-12	0.67	<1	2	8	<1	1.8
RMD-270	GRAB	8200 Jones Rd.	7-May-12	0.61	<1	<2	8	<1	3.1
RMD-269	GRAB	14951 Triangle Rd.	7-May-12	0.72	<1	<2	10	<1	0.24
RMD-253	GRAB	11051 No. 3 Rd.	7-May-12	0.57	<1	LA	11	<1	0.57
RMD-263	GRAB	12560 Cambie Rd.	9-May-12	0.6	<1	<2	8	<1	0.21
RMD-264	GRAB	13100 Mitchell Rd.	9-May-12	0.62	<1	<2	9	<1	0.26
RMD-277	GRAB	Opp. 11280 Twigg Place	9-May-12	0.61	<1	<2	9	<1	1.2
RMD-262	GRAB	13799 Commerce Pkwy.	9-May-12	0.58	<1	<2	9	<1	0.21
RMD-278	GRAB	6651 Fraserwood Place	9-May-12	0.48	<1	<2	10	<1	0.32
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	9-May-12	0.49	<1	<2	10	<1	0.37
RMD-261	GRAB	9911 Sidaway Rd.	9-May-12	0.72	<1	<2	8	<1	0.15
RMD-260	GRAB	11111 Horseshoe Way	9-May-12	0.6	<1	<2	9	<1	0.17
RMD-259	GRAB	10020 Amethyst Ave.	9-May-12	0.64	<1	<2	9	<1	0.42
RMD-266	GRAB	9380 General Currie Rd.	9-May-12	0.64	<1	<2	9	<1	0.18
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	9-May-12	0.47	<1	<2	10	<1	0.31
RMD-258	GRAB	7000 Blk. Dyke Rd.	9-May-12	0.55	<1	<2	10	<1	0.26

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-257	GRAB	6640 Blundell Rd.	9-May-12	0.69	<1	<2	8	<1	0.22
RMD-204	GRAB	3180 Granville Ave.	11-May-12	0.53	<1	<2	9	<1	0.17
RMD-206	GRAB	4251 Moncton St.	11-May-12	0.59	<1	<2	10	<1	0.18
RMD-216	GRAB	11080 No. 2 Rd.	11-May-12	0.67	<1	4	9	<1	0.27
RMD-212	GRAB	Opp. 8600 Ryan Rd.	11-May-12	0.63	<1	2	9	<1	0.31
RMD-208	GRAB	13200 No. 4 Rd.	11-May-12	0.66	<1	<2	9	<1	0.29
RMD-205	GRAB	13851 Steveston Hwy.	11-May-12	0.87	<1	2	8	<1	0.17
RMD-214	GRAB	11720 Westminster Hwy.	11-May-12	0.79	<1	4	8	<1	0.27
RMD-202	GRAB	1500 Valemont Way	11-May-12	0.79	<1	<2	9	<1	0.19
RMD-267	GRAB	17240 Fedoruk	11-May-12	0.69	<1	<2	10	<1	0.19
RMD-249	GRAB	23000 Blk. Dyke Rd.	11-May-12	0.7	<1	<2	8	<1	0.26
RMD-276	GRAB	22271 Cochrane Drive	11-May-12	0.64	<1	<2	8	<1	0.22
RMD-275	GRAB	5180 Smith Cres.	11-May-12	0.6	<1	<2	8	<1	0.26
RMD-203	GRAB	23260 Westminster Hwy.	11-May-12	0.81	<1	<2	8	<1	0.29
RMD-271	GRAB	3800 Cessna Drive	14-May-12	0.58	<1	<2	8	<1	0.41
RMD-272	GRAB	751 Catalina Cres.	14-May-12	0.56	<1	<2	8	<1	0.61
RMD-255	GRAB	6000 Blk. Miller Rd.	14-May-12	0.66	<1	<2	7	<1	0.58
RMD-256	GRAB	1000 Blk. McDonald Rd.	14-May-12	0.45	<1	<2	8	<1	0.31
RMD-254	GRAB	5300 No. 3 Rd.	14-May-12	0.64	<1	<2	8	<1	0.44
RMD-270	GRAB	8200 Jones Rd.	14-May-12	0.53	<1	LA	9	<1	0.42
RMD-269	GRAB	14951 Triangle Rd.	14-May-12	0.68	<1	4	9	<1	0.14
RMD-253	GRAB	11051 No. 3 Rd.	14-May-12	0.63	<1	<2	8	<1	0.35
RMD-274	GRAB	10920 Springwood Court	14-May-12	0.49	<1	8	10	<1	0.33
RMD-252	GRAB	9751 Pendleton Rd.	14-May-12	0.58	<1	<2	9	<1	1
RMD-273	GRAB	Opp. 8331 Fairfax Place	14-May-12	0.41	<1	<2	10	<1	1.1
RMD-251	GRAB	5951 McCallan Rd.	14-May-12	0.61	<1	<2	9	<1	0.3
RMD-250	GRAB	6071 Azure Rd.	14-May-12	0.59	<1	2	9	<1	0.39
RMD-263	GRAB	12560 Cambie Rd.	16-May-12	0.71	<1	<2	8	<1	0.4
RMD-264	GRAB	13100 Mitchell Rd.	16-May-12	0.54	<1	<2	9	<1	0.57
RMD-277	GRAB	Opp. 11280 Twigg Place	16-May-12	0.64	<1	2	9	<1	0.97
RMD-262	GRAB	13799 Commerce Pkwy.	16-May-12	0.68	<1	<2	9	<1	0.13
RMD-278	GRAB	6651 Fraserwood Place	16-May-12	0.62	<1	<2	9	<1	0.38
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	16-May-12	0.48	<1	<2	10	<1	0.44
RMD-261	GRAB	9911 Sidaway Rd.	16-May-12	0.74	<1	<2	9	<1	0.09
RMD-260	GRAB	11111 Horseshoe Way	16-May-12	0.67	<1	<2	9	<1	0.35
RMD-259	GRAB	10020 Amethyst Ave.	16-May-12	0.74	<1	<2	9	<1	0.41
RMD-266	GRAB	9380 General Currie Rd.	16-May-12	0.71	<1	<2	9	<1	0.46
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	16-May-12	0.61	<1	<2	10	<1	0.6

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-258	GRAB	7000 Blk. Dyke Rd.	16-May-12	0.62	<1	<2	9	<1	0.46
RMD-257	GRAB	6640 Blundell Rd.	16-May-12	0.73	<1	<2	9	<1	0.46
RMD-204	GRAB	3180 Granville Ave.	18-May-12	0.58	<1	<2	9	<1	0.32
RMD-206	GRAB	4251 Moncton St.	18-May-12	0.52	<1	<2	10	<1	0.31
RMD-216	GRAB	11080 No. 2 Rd.	18-May-12	0.6	<1	<2	9	<1	0.33
RMD-212	GRAB	Opp. 8600 Ryan Rd.	18-May-12	0.65	<1	<2	9	<1	0.34
RMD-208	GRAB	13200 No. 4 Rd.	18-May-12	0.6	<1	<2	9	<1	0.32
RMD-205	GRAB	13851 Steveston Hwy.	18-May-12	0.59	<1	<2	9	<1	0.34
RMD-202	GRAB	1500 Valemont Way	18-May-12	0.55	<1	2	10	<1	0.47
RMD-214	GRAB	11720 Westminster Hwy.	18-May-12	0.5	<1	<2	8	<1	0.31
RMD-267	GRAB	17240 Fedoruk	18-May-12	0.63	<1	<2	11	<1	0.32
RMD-249	GRAB	23000 Blk. Dyke Rd.	18-May-12	0.64	<1	<2	8	<1	0.37
RMD-276	GRAB	22271 Cochrane Drive	18-May-12	0.43	<1	<2	10	<1	0.27
RMD-275	GRAB	5180 Smith Cres.	18-May-12	0.59	<1	<2	9	<1	0.35
RMD-203	GRAB	23260 Westminster Hwy.	18-May-12	0.66	<1	<2	9	<1	0.55
RMD-263	GRAB	12560 Cambie Rd.	23-May-12	0.57	<1	4	9	<1	0.31
RMD-264	GRAB	13100 Mitchell Rd.	23-May-12	0.63	<1	<2	9	<1	0.39
RMD-277	GRAB	Opp. 11280 Twigg Place	23-May-12	0.01	<1	4	15	<1	0.4
RMD-262	GRAB	13799 Commerce Pkwy.	23-May-12	0.75	<1	2	10	<1	0.09
RMD-278	GRAB	6651 Fraserwood Place	23-May-12	0.54	<1	<2	11	<1	0.33
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	23-May-12	0.57	<1	<2	11	<1	0.31
RMD-261	GRAB	9911 Sidaway Rd.	23-May-12	0.8	<1	2	10	<1	0.1
RMD-260	GRAB	11111 Horseshoe Way	23-May-12	0.7	<1	<2	11	<1	0.16
RMD-259	GRAB	10020 Amethyst Ave.	23-May-12	0.69	<1	<2	9	<1	0.35
RMD-266	GRAB	9380 General Currie Rd.	23-May-12	0.83	<1	<2	9	<1	0.55
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	23-May-12	0.62	<1	<2	9	<1	0.39
RMD-258	GRAB	7000 Blk. Dyke Rd.	23-May-12	0.61	<1	<2	9	<1	0.32
RMD-257	GRAB	6640 Blundell Rd.	23-May-12	0.66	<1	<2	8	<1	0.35
RMD-204	GRAB	3180 Granville Ave.	25-May-12	0.65	<1	<2	10	<1	0.24
RMD-206	GRAB	4251 Moncton St.	25-May-12	0.61	<1	<2	10	<1	0.24
RMD-216	GRAB	11080 No. 2 Rd.	25-May-12	0.79	<1	<2	9	<1	0.34
RMD-212	GRAB	Opp. 8600 Ryan Rd.	25-May-12	0.76	<1	<2	9	<1	0.43
RMD-208	GRAB	13200 No. 4 Rd.	25-May-12	0.78	<1	<2	9	<1	0.31
RMD-205	GRAB	13851 Steveston Hwy.	25-May-12	0.81	<1	<2	9	<1	0.12
RMD-202	GRAB	1500 Valemont Way	25-May-12	0.6	<1	2	10	<1	0.23
RMD-214	GRAB	11720 Westminster Hwy.	25-May-12	0.62	<1	<2	9	<1	0.4
RMD-267	GRAB	17240 Fedoruk	25-May-12	0.65	<1	2	11	<1	0.16
RMD-249	GRAB	23000 Blk. Dyke Rd.	25-May-12	0.79	<1	<2	10	<1	0.3

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-276	GRAB	22271 Cochrane Drive	25-May-12	0.67	<1	<2	10	<1	0.25
RMD-275	GRAB	5180 Smith Cres.	25-May-12	0.62	<1	<2	11	<1	0.27
RMD-203	GRAB	23260 Westminster Hwy.	25-May-12	0.81	<1	<2	9	<1	0.31
RMD-251	GRAB	5951 McCallan Rd.	28-May-12	0.64	<1	<2	10	<1	0.43
RMD-273	GRAB	Opp. 8331 Fairfax Place	28-May-12	0.46	<1	<2	15	<1	0.51
RMD-252	GRAB	9751 Pendleton Rd.	28-May-12	0.54	<1	<2	11	<1	0.44
RMD-274	GRAB	10920 Springwood Court	28-May-12	0.48	<1	2	15	<1	0.32
RMD-250	GRAB	6071 Azure Rd.	28-May-12	0.57	<1	<2	10	<1	0.46
RMD-271	GRAB	3800 Cessna Drive	28-May-12	0.57	<1	2	10	<1	0.41
RMD-272	GRAB	751 Catalina Cres.	28-May-12	0.53	<1	<2	10	<1	0.45
RMD-255	GRAB	6000 Blk. Miller Rd.	28-May-12	0.6	<1	<2	9	<1	0.44
RMD-256	GRAB	1000 Blk. McDonald Rd.	28-May-12	0.74	<1	2	12	<1	0.55
RMD-270	GRAB	8200 Jones Rd.	28-May-12	0.62	<1	<2	10	<1	0.54
RMD-254	GRAB	5300 No. 3 Rd.	28-May-12	0.49	<1	<2	10	<1	0.43
RMD-269	GRAB	14951 Triangle Rd.	28-May-12	0.47	<1	<2	12	<1	0.16
RMD-253	GRAB	11051 No. 3 Rd.	28-May-12	0.69	<1	<2	9	<1	0.5
RMD-263	GRAB	12560 Cambie Rd.	30-May-12	0.65	<1	<2	8	<1	0.38
RMD-264	GRAB	13100 Mitchell Rd.	30-May-12	0.54	<1	<2	8	<1	0.59
RMD-277	GRAB	Opp. 11280 Twigg Place	30-May-12	0.09	<1	10	14	<1	0.26
RMD-262	GRAB	13799 Commerce Pkwy.	30-May-12	0.78	<1	2	9	<1	0.12
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	30-May-12	0.52	<1	<2	10	<1	0.28
RMD-278	GRAB	6651 Fraserwood Place	30-May-12	0.61	<1	<2	10	<1	0.31
RMD-261	GRAB	9911 Sidaway Rd.	30-May-12	0.83	<1	<2	9	<1	0.1
RMD-260	GRAB	11111 Horseshoe Way	30-May-12	0.65	<1	<2	10	<1	0.25
RMD-259	GRAB	10020 Amethyst Ave.	30-May-12	0.67	<1	<2	9	<1	0.49
RMD-266	GRAB	9380 General Currie Rd.	30-May-12	0.71	<1	<2	7	<1	0.55
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	30-May-12	0.55	<1	<2	8	<1	1.2
RMD-257	GRAB	6640 Blundell Rd.	30-May-12	0.7	<1	<2	7	<1	0.89
RMD-258	GRAB	7000 Blk. Dyke Rd.	30-May-12	0.55	<1	2	10	<1	0.65
RMD-204	GRAB	3180 Granville Ave.	1-Jun-12	0.59	<1	2	10	<1	0.4
RMD-206	GRAB	4251 Moncton St.	1-Jun-12	0.47	<1	<2	11	<1	0.37
RMD-216	GRAB	11080 No. 2 Rd.	1-Jun-12	0.65	<1	2	10	<1	0.43
RMD-212	GRAB	Opp. 8600 Ryan Rd.	1-Jun-12	0.63	<1	<2	10	<1	0.5
RMD-208	GRAB	13200 No. 4 Rd.	1-Jun-12	0.64	<1	2	10	<1	0.43
RMD-205	GRAB	13851 Steveston Hwy.	1-Jun-12	0.69	<1	<2	9	<1	0.12
RMD-202	GRAB	1500 Valemont Way	1-Jun-12	0.67	<1	<2	11	<1	0.2
RMD-214	GRAB	11720 Westminster Hwy.	1-Jun-12	0.56	<1	<2	9	<1	0.43
RMD-267	GRAB	17240 Fedoruk	1-Jun-12	0.49	<1	<2	12	<1	0.17

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-249	GRAB	23000 Blk. Dyke Rd.	1-Jun-12	0.69	<1	<2	9	<1	0.33
RMD-276	GRAB	22271 Cochrane Drive	1-Jun-12	0.67	<1	<2	10	<1	0.26
RMD-275	GRAB	5180 Smith Cres.	1-Jun-12	0.65	<1	<2	11	<1	0.26
RMD-203	GRAB	23260 Westminster Hwy.	1-Jun-12	0.74	<1	<2	9	<1	0.27
RMD-251	GRAB	5951 McCallan Rd.	4-Jun-12	0.72	<1	<2	7	<1	0.43
RMD-250	GRAB	6071 Azure Rd.	4-Jun-12	0.7	<1	<2	8	<1	0.45
RMD-271	GRAB	3800 Cessna Drive	4-Jun-12	0.71	<1	2	8	<1	0.48
RMD-272	GRAB	751 Catalina Cres.	4-Jun-12	0.61	<1	2	9	<1	0.44
RMD-255	GRAB	6000 Blk. Miller Rd.	4-Jun-12	0.73	<1	2	7	<1	0.61
RMD-256	GRAB	1000 Blk. McDonald Rd.	4-Jun-12	0.72	<1	<2	8	<1	0.53
RMD-254	GRAB	5300 No. 3 Rd.	4-Jun-12	0.49	<1	<2	9	<1	0.57
RMD-270	GRAB	8200 Jones Rd.	4-Jun-12	0.58	<1	<2	10	<1	0.42
RMD-269	GRAB	14951 Triangle Rd.	4-Jun-12	0.77	<1	<2	7	<1	0.11
RMD-253	GRAB	11051 No. 3 Rd.	4-Jun-12	0.62	<1	<2	8	<1	0.48
RMD-274	GRAB	10920 Springwood Court	4-Jun-12	0.43	<1	2	10	<1	0.34
RMD-252	GRAB	9751 Pendleton Rd.	4-Jun-12	0.58	<1	<2	9	<1	0.42
RMD-273	GRAB	Opp. 8331 Fairfax Place	4-Jun-12	0.32	<1	2	10	<1	0.6
RMD-263	GRAB	12560 Cambie Rd.	6-Jun-12	0.58	<1	<2	9	<1	0.35
RMD-264	GRAB	13100 Mitchell Rd.	6-Jun-12	0.63	<1	<2	9	<1	0.99
RMD-277	GRAB	Opp. 11280 Twigg Place	6-Jun-12	0.71	<1	<2	9	<1	2.5
RMD-262	GRAB	13799 Commerce Pkwy.	6-Jun-12	0.62	<1	<2	9	<1	0.16
RMD-278	GRAB	6651 Fraserwood Place	6-Jun-12	0.62	<1	<2	11	<1	0.35
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	6-Jun-12	0.58	<1	2	11	<1	0.29
RMD-261	GRAB	9911 Sidaway Rd.	6-Jun-12	0.8	<1	<2	9	<1	0.16
RMD-260	GRAB	11111 Horseshoe Way	6-Jun-12	0.71	<1	<2	10	<1	0.26
RMD-259	GRAB	10020 Amethyst Ave.	6-Jun-12	0.86	<1	2	9	<1	0.44
RMD-266	GRAB	9380 General Currie Rd.	6-Jun-12	0.84	<1	<2	8	<1	0.45
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	6-Jun-12	0.61	<1	<2	10	<1	0.42
RMD-258	GRAB	7000 Blk. Dyke Rd.	6-Jun-12	0.66	<1	<2	11	<1	0.41
RMD-257	GRAB	6640 Blundell Rd.	6-Jun-12	0.88	<1	<2	8	<1	0.49
RMD-204	GRAB	3180 Granville Ave.	8-Jun-12	0.6	<1	<2	10	<1	0.43
RMD-206	GRAB	4251 Moncton St.	8-Jun-12	0.5	<1	<2	11	<1	0.32
RMD-216	GRAB	11080 No. 2 Rd.	8-Jun-12	0.73	<1	<2	9	<1	0.5
RMD-212	GRAB	Opp. 8600 Ryan Rd.	8-Jun-12	0.74	<1	<2	9	<1	0.57
RMD-208	GRAB	13200 No. 4 Rd.	8-Jun-12	0.7	<1	<2	9	<1	0.47
RMD-205	GRAB	13851 Steveston Hwy.	8-Jun-12	0.8	<1	<2	10	<1	0.1
RMD-214	GRAB	11720 Westminster Hwy.	8-Jun-12	0.64	<1	<2	8	<1	0.46
RMD-202	GRAB	1500 Valemont Way	8-Jun-12	0.77	<1	<2	10	<1	0.17

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-267	GRAB	17240 Fedoruk	8-Jun-12	0.61	<1	<2	11	<1	0.19
RMD-249	GRAB	23000 Blk. Dyke Rd.	8-Jun-12	0.52	<1	<2	10	<1	0.32
RMD-276	GRAB	22271 Cochrane Drive	8-Jun-12	0.39	<1	<2	11	<1	0.28
RMD-275	GRAB	5180 Smith Cres.	8-Jun-12	0.71	<1	<2	11	<1	0.32
RMD-203	GRAB	23260 Westminster Hwy.	8-Jun-12	0.82	<1	<2	10	<1	0.33
RMD-251	GRAB	5951 McCallan Rd.	11-Jun-12	0.6	<1	<2	9	<1	0.5
RMD-273	GRAB	Opp. 8331 Fairfax Place	11-Jun-12	0.49	<1	<2	16	<1	1.3
RMD-274	GRAB	10920 Springwood Court	11-Jun-12	0.64	<1	<2	12	<1	0.37
RMD-252	GRAB	9751 Pendleton Rd.	11-Jun-12	0.55	<1	<2	11	<1	0.47
RMD-250	GRAB	6071 Azure Rd.	11-Jun-12	0.61	<1	<2	12	<1	0.49
RMD-271	GRAB	3800 Cessna Drive	11-Jun-12	1	<1	2	10	<1	0.47
RMD-272	GRAB	751 Catalina Cres.	11-Jun-12	0.56	<1	<2	10	<1	0.65
RMD-255	GRAB	6000 Blk. Miller Rd.	11-Jun-12	0.79	<1	2	8	<1	0.68
RMD-256	GRAB	1000 Blk. McDonald Rd.	11-Jun-12	0.48	<1	<2	12	<1	0.49
RMD-254	GRAB	5300 No. 3 Rd.	11-Jun-12	0.67	<1	<2	9	<1	0.42
RMD-270	GRAB	8200 Jones Rd.	11-Jun-12	0.61	<1	<2	11	<1	0.56
RMD-269	GRAB	14951 Triangle Rd.	11-Jun-12	0.74	<1	<2	13	<1	0.15
RMD-253	GRAB	11051 No. 3 Rd.	11-Jun-12	0.76	<1	<2	9	<1	0.55
RMD-257	GRAB	6640 Blundell Rd.	13-Jun-12	0.53	<1	<2	8	<1	0.61
RMD-266	GRAB	9380 General Currie Rd.	13-Jun-12	0.85	<1	<2	9	<1	0.47
RMD-263	GRAB	12560 Cambie Rd.	13-Jun-12	0.55	<1	2	9	<1	0.35
RMD-264	GRAB	13100 Mitchell Rd.	13-Jun-12	0.6	<1	<2	9	<1	0.58
RMD-277	GRAB	Opp. 11280 Twigg Place	13-Jun-12	0.62	<1	<2	8	<1	0.7
RMD-262	GRAB	13799 Commerce Pkwy.	13-Jun-12	0.79	<1	<2	8	<1	0.12
RMD-278	GRAB	6651 Fraserwood Place	13-Jun-12	0.47	<1	<2	10	<1	0.37
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	13-Jun-12	0.48	<1	2	10	<1	0.34
RMD-261	GRAB	9911 Sidaway Rd.	13-Jun-12	0.74	<1	<2	9	<1	0.11
RMD-260	GRAB	11111 Horseshoe Way	13-Jun-12	0.59	<1	<2	10	<1	0.21
RMD-259	GRAB	10020 Amethyst Ave.	13-Jun-12	0.77	<1	<2	9	<1	0.52
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	13-Jun-12	0.5	<1	<2	11	<1	0.45
RMD-258	GRAB	7000 Blk. Dyke Rd.	13-Jun-12	0.65	<1	<2	10	<1	0.51
RMD-204	GRAB	3180 Granville Ave.	15-Jun-12	0.61	<1	<2	10	<1	0.45
RMD-206	GRAB	4251 Moncton St.	15-Jun-12	0.5	<1	<2	11	<1	0.39
RMD-216	GRAB	11080 No. 2 Rd.	15-Jun-12	0.59	<1	<2	9	<1	0.49
RMD-212	GRAB	Opp. 8600 Ryan Rd.	15-Jun-12	0.6	<1	<2	10	<1	0.57
RMD-208	GRAB	13200 No. 4 Rd.	15-Jun-12	0.67	<1	<2	9	<1	0.45
RMD-205	GRAB	13851 Steveston Hwy.	15-Jun-12	0.7	<1	<2	9	<1	0.1
RMD-202	GRAB	1500 Valemont Way	15-Jun-12	0.55	<1	<2	11	<1	0.24

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-214	GRAB	11720 Westminster Hwy.	15-Jun-12	0.69	<1	<2	8	<1	0.43
RMD-267	GRAB	17240 Fedoruk	15-Jun-12	0.41	<1	<2	12	<1	0.19
RMD-249	GRAB	23000 Blk. Dyke Rd.	15-Jun-12	0.69	<1	<2	10	<1	0.34
RMD-276	GRAB	22271 Cochrane Drive	15-Jun-12	0.6	<1	<2	11	<1	0.27
RMD-275	GRAB	5180 Smith Cres.	15-Jun-12	0.66	<1	<2	11	<1	0.29
RMD-203	GRAB	23260 Westminster Hwy.	15-Jun-12	0.69	<1	<2	10	<1	0.34
RMD-251	GRAB	5951 McCallan Rd.	18-Jun-12	0.79	<1	LA	9	<1	0.61
RMD-273	GRAB	Opp. 8331 Fairfax Place	18-Jun-12	0.39	<1	4	16	<1	0.98
RMD-274	GRAB	10920 Springwood Court	18-Jun-12	0.35	<1	6	15	<1	0.33
RMD-252	GRAB	9751 Pendleton Rd.	18-Jun-12	0.5	<1	2	11	<1	0.37
RMD-250	GRAB	6071 Azure Rd.	18-Jun-12	0.68	<1	<2	11	<1	0.54
RMD-271	GRAB	3800 Cessna Drive	18-Jun-12	0.6	<1	<2	10	<1	0.48
RMD-272	GRAB	751 Catalina Cres.	18-Jun-12	0.69	<1	<2	11	<1	0.54
RMD-255	GRAB	6000 Blk. Miller Rd.	18-Jun-12	0.78	<1	<2	9	<1	0.6
RMD-256	GRAB	1000 Blk. McDonald Rd.	18-Jun-12	0.58	<1	<2	10	<1	0.53
RMD-254	GRAB	5300 No. 3 Rd.	18-Jun-12	0.69	<1	<2	9	<1	0.43
RMD-270	GRAB	8200 Jones Rd.	18-Jun-12	0.62	<1	2	11	<1	0.49
RMD-269	GRAB	14951 Triangle Rd.	18-Jun-12	0.77	<1	14	10	<1	0.14
RMD-253	GRAB	11051 No. 3 Rd.	18-Jun-12	0.69	<1	<2	9	<1	0.45
RMD-263	GRAB	12560 Cambie Rd.	20-Jun-12	0.95	<1	<2	9	<1	0.5
RMD-264	GRAB	13100 Mitchell Rd.	20-Jun-12	0.67	<1	<2	10	<1	0.53
RMD-277	GRAB	Opp. 11280 Twigg Place	20-Jun-12	0.53	<1	4	16	<1	0.29
RMD-262	GRAB	13799 Commerce Pkwy.	20-Jun-12	0.73	<1	<2	10	<1	0.31
RMD-278	GRAB	6651 Fraserwood Place	20-Jun-12	0.52	<1	<2	11	<1	0.31
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	20-Jun-12	0.32	<1	<2	13	<1	0.25
RMD-261	GRAB	9911 Sidaway Rd.	20-Jun-12	0.76	<1	<2	10	<1	0.11
RMD-260	GRAB	11111 Horseshoe Way	20-Jun-12	0.68	<1	<2	10	<1	0.28
RMD-259	GRAB	10020 Amethyst Ave.	20-Jun-12	0.86	<1	<2	9	<1	0.56
RMD-266	GRAB	9380 General Currie Rd.	20-Jun-12	0.86	<1	<2	9	<1	0.47
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	20-Jun-12	0.6	<1	2	9	<1	0.39
RMD-258	GRAB	7000 Blk. Dyke Rd.	20-Jun-12	0.7	<1	<2	12	<1	0.39
RMD-257	GRAB	6640 Blundell Rd.	20-Jun-12	0.79	<1	2	9	<1	0.69
RMD-204	GRAB	3180 Granville Ave.	22-Jun-12	0.6	<1	<2	10	<1	0.44
RMD-206	GRAB	4251 Moncton St.	22-Jun-12	0.47	<1	2	11	<1	0.39
RMD-216	GRAB	11080 No. 2 Rd.	22-Jun-12	0.66	<1	<2	9	<1	0.54
RMD-212	GRAB	Opp. 8600 Ryan Rd.	22-Jun-12	0.66	<1	2	10	<1	0.66
RMD-208	GRAB	13200 No. 4 Rd.	22-Jun-12	0.58	<1	<2	9	<1	0.49
RMD-205	GRAB	13851 Steveston Hwy.	22-Jun-12	0.76	<1	<2	9	<1	0.09

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-214	GRAB	11720 Westminster Hwy.	22-Jun-12	0.76	<1	<2	8	<1	0.57
RMD-202	GRAB	1500 Valemont Way	22-Jun-12	0.64	<1	<2	10	<1	0.16
RMD-267	GRAB	17240 Fedoruk	22-Jun-12	0.54	<1	<2	10	<1	0.27
RMD-249	GRAB	23000 Blk. Dyke Rd.	22-Jun-12	0.71	<1	10	9	<1	0.32
RMD-276	GRAB	22271 Cochrane Drive	22-Jun-12	0.65	<1	2	11	<1	0.24
RMD-275	GRAB	5180 Smith Cres.	22-Jun-12	0.67	<1	<2	10	<1	0.36
RMD-203	GRAB	23260 Westminster Hwy.	22-Jun-12	0.73	<1	<2	9	<1	0.33
RMD-251	GRAB	5951 McCallan Rd.	25-Jun-12	0.83	<1	2	11	<1	0.5
RMD-273	GRAB	Opp. 8331 Fairfax Place	25-Jun-12	0.4	<1	<2	17	<1	2.2
RMD-274	GRAB	10920 Springwood Court	25-Jun-12	0.38	<1	2	15	<1	0.3
RMD-252	GRAB	9751 Pendleton Rd.	25-Jun-12	0.58	<1	<2	11	<1	0.42
RMD-250	GRAB	6071 Azure Rd.	25-Jun-12	0.64	<1	<2	12	<1	0.49
RMD-271	GRAB	3800 Cessna Drive	25-Jun-12	0.63	<1	<2	9	<1	0.51
RMD-272	GRAB	751 Catalina Cres.	25-Jun-12	0.7	<1	<2	12	<1	0.46
RMD-255	GRAB	6000 Blk. Miller Rd.	25-Jun-12	1	<1	<2	8	<1	0.7
RMD-256	GRAB	1000 Blk. McDonald Rd.	25-Jun-12	0.75	<1	<2	12	<1	0.5
RMD-254	GRAB	5300 No. 3 Rd.	25-Jun-12	0.65	<1	<2	10	<1	0.43
RMD-270	GRAB	8200 Jones Rd.	25-Jun-12	0.6	<1	2	11	<1	0.44
RMD-269	GRAB	14951 Triangle Rd.	25-Jun-12	0.78	<1	<2	9	<1	0.11
RMD-253	GRAB	11051 No. 3 Rd.	25-Jun-12	0.75	<1	<2	10	<1	0.44
RMD-263	GRAB	12560 Cambie Rd.	27-Jun-12	0.86	<1	<2	7	<1	0.42
RMD-264	GRAB	13100 Mitchell Rd.	27-Jun-12	0.85	<1	<2	8	<1	0.52
RMD-277	GRAB	Opp. 11280 Twigg Place	27-Jun-12	0.67	<1	<2	12	<1	0.93
RMD-262	GRAB	13799 Commerce Pkwy.	27-Jun-12	0.85	<1	<2	9	<1	0.12
RMD-278	GRAB	6651 Fraserwood Place	27-Jun-12	0.52	<1	<2	11	<1	0.28
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	27-Jun-12	0.49	<1	2	10	<1	0.32
RMD-261	GRAB	9911 Sidaway Rd.	27-Jun-12	0.82	<1	<2	10	<1	0.11
RMD-260	GRAB	11111 Horseshoe Way	27-Jun-12	0.76	<1	<2	10	<1	0.13
RMD-259	GRAB	10020 Amethyst Ave.	27-Jun-12	0.88	<1	<2	8	<1	0.47
RMD-266	GRAB	9380 General Currie Rd.	27-Jun-12	0.94	<1	<2	10	<1	0.4
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	27-Jun-12	0.77	<1	<2	9	<1	0.45
RMD-258	GRAB	7000 Blk. Dyke Rd.	27-Jun-12	0.79	<1	<2	10	<1	0.42
RMD-257	GRAB	6640 Blundell Rd.	27-Jun-12	0.92	<1	<2	7	<1	0.76
RMD-204	GRAB	3180 Granville Ave.	29-Jun-12	0.73	<1	<2	10	<1	0.38
RMD-206	GRAB	4251 Moncton St.	29-Jun-12	0.59	<1	<2	11	<1	0.34
RMD-216	GRAB	11080 No. 2 Rd.	29-Jun-12	0.79	<1	2	9	<1	0.45
RMD-212	GRAB	Opp. 8600 Ryan Rd.	29-Jun-12	0.72	<1	<2	10	<1	0.46
RMD-208	GRAB	13200 No. 4 Rd.	29-Jun-12	0.74	<1	<2	9	<1	0.44

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-205	GRAB	13851 Steveston Hwy.	29-Jun-12	0.75	<1	<2	9	<1	0.11
RMD-202	GRAB	1500 Valemont Way	29-Jun-12	0.44	<1	<2	12	<1	0.16
RMD-214	GRAB	11720 Westminster Hwy.	29-Jun-12	0.76	<1	<2	8	<1	0.48
RMD-267	GRAB	17240 Fedoruk	29-Jun-12	0.55	<1	2	12	<1	0.16
RMD-249	GRAB	23000 Blk. Dyke Rd.	29-Jun-12	0.72	<1	LA	9	<1	0.3
RMD-276	GRAB	22271 Cochrane Drive	29-Jun-12	0.52	<1	<2	12	<1	0.24
RMD-275	GRAB	5180 Smith Cres.	29-Jun-12	0.68	<1	<2	10	<1	0.24
RMD-203	GRAB	23260 Westminster Hwy.	29-Jun-12	0.74	<1	<2	9	<1	0.26
RMD-251	GRAB	5951 McCallan Rd.	3-Jul-12	0.69	<1	<2	10	<1	0.38
RMD-273	GRAB	Opp. 8331 Fairfax Place	3-Jul-12	0.23	<1	<2	18	<1	1.8
RMD-274	GRAB	10920 Springwood Court	3-Jul-12	0.47	<1	<2	14	<1	5.1
RMD-252	GRAB	9751 Pendleton Rd.	3-Jul-12	0.6	<1	<2	12	<1	0.39
RMD-250	GRAB	6071 Azure Rd.	3-Jul-12	0.72	<1	<2	12	<1	0.43
RMD-271	GRAB	3800 Cessna Drive	3-Jul-12	0.8	<1	<2	12	<1	0.44
RMD-272	GRAB	751 Catalina Cres.	3-Jul-12	0.6	<1	<2	11	<1	0.4
RMD-255	GRAB	6000 Blk. Miller Rd.	3-Jul-12	0.67	<1	<2	9	<1	0.41
RMD-256	GRAB	1000 Blk. McDonald Rd.	3-Jul-12	0.03	<1	12	15	<1	0.31
RMD-254	GRAB	5300 No. 3 Rd.	3-Jul-12	0.75	<1	<2	9	<1	0.42
RMD-270	GRAB	8200 Jones Rd.	3-Jul-12	0.6	<1	<2	12	<1	0.39
RMD-269	GRAB	14951 Triangle Rd.	3-Jul-12	0.86	<1	<2	10	<1	0.09
RMD-253	GRAB	11051 No. 3 Rd.	3-Jul-12	0.73	<1	14	9	<1	0.39
RMD-258	GRAB	7000 Blk. Dyke Rd.	4-Jul-12	0.7	<1	<2	12	<1	0.4
RMD-257	GRAB	6640 Blundell Rd.	4-Jul-12	0.67	<1	4	12	<1	0.36
RMD-266	GRAB	9380 General Currie Rd.	4-Jul-12	0.89	<1	<2	9	<1	0.36
RMD-259	GRAB	10020 Amethyst Ave.	4-Jul-12	0.92	<1	<2	10	<1	0.39
RMD-263	GRAB	12560 Cambie Rd.	4-Jul-12	0.77	<1	<2	9	<1	0.31
RMD-264	GRAB	13100 Mitchell Rd.	4-Jul-12	0.73	<1	<2	9	<1	0.46
RMD-277	GRAB	Opp. 11280 Twigg Place	4-Jul-12	0.9	<1	<2	8	<1	0.46
RMD-262	GRAB	13799 Commerce Pkwy.	4-Jul-12	0.93	<1	2	10	<1	0.12
RMD-278	GRAB	6651 Fraserwood Place	4-Jul-12	0.64	<1	2	11	<1	0.24
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	4-Jul-12	0.6	<1	2	13	<1	0.19
RMD-261	GRAB	9911 Sidaway Rd.	4-Jul-12	0.86	<1	<2	9	<1	0.08
RMD-260	GRAB	11111 Horseshoe Way	4-Jul-12	0.84	<1	<2	11	<1	0.21
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	4-Jul-12	0.66	<1	4	10	<1	0.33
RMD-204	GRAB	3180 Granville Ave.	6-Jul-12	0.57	<1	<2	11	<1	0.84
RMD-206	GRAB	4251 Moncton St.	6-Jul-12	0.58	<1	<2	11	<1	0.33
RMD-216	GRAB	11080 No. 2 Rd.	6-Jul-12	0.67	<1	<2	10	<1	0.53
RMD-212	GRAB	Opp. 8600 Ryan Rd.	6-Jul-12	0.64	<1	<2	10	<1	0.38

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-208	GRAB	13200 No. 4 Rd.	6-Jul-12	0.52	<1	<2	10	<1	0.35
RMD-205	GRAB	13851 Steveston Hwy.	6-Jul-12	0.84	<1	<2	10	<1	0.1
RMD-214	GRAB	11720 Westminster Hwy.	6-Jul-12	0.6	<1	<2	9	<1	0.36
RMD-202	GRAB	1500 Valemont Way	6-Jul-12	0.8	<1	<2	10	<1	0.09
RMD-267	GRAB	17240 Fedoruk	6-Jul-12	0.72	<1	<2	12	<1	0.14
RMD-249	GRAB	23000 Blk. Dyke Rd.	6-Jul-12	0.67	<1	<2	10	<1	0.27
RMD-276	GRAB	22271 Cochrane Drive	6-Jul-12	0.61	<1	<2	11	<1	0.26
RMD-275	GRAB	5180 Smith Cres.	6-Jul-12	0.63	<1	<2	12	<1	0.28
RMD-203	GRAB	23260 Westminster Hwy.	6-Jul-12	0.71	<1	<2	10	<1	0.2
RMD-251	GRAB	5951 McCallan Rd.	9-Jul-12	0.84	<1	<2	10	<1	0.39
RMD-273	GRAB	Opp. 8331 Fairfax Place	9-Jul-12	0.45	<1	<2	18	<1	1.9
RMD-252	GRAB	9751 Pendleton Rd.	9-Jul-12	0.68	<1	<2	11	<1	0.41
RMD-274	GRAB	10920 Springwood Court	9-Jul-12	0.66	<1	4	14	<1	0.46
RMD-250	GRAB	6071 Azure Rd.	9-Jul-12	0.84	<1	<2	13	<1	0.5
RMD-271	GRAB	3800 Cessna Drive	9-Jul-12	0.8	<1	<2	10	<1	0.53
RMD-272	GRAB	751 Catalina Cres.	9-Jul-12	0.65	<1	2	10	<1	0.47
RMD-255	GRAB	6000 Blk. Miller Rd.	9-Jul-12	0.93	<1	<2	9	<1	0.51
RMD-254	GRAB	5300 No. 3 Rd.	9-Jul-12	0.9	<1	<2	10	<1	0.34
RMD-270	GRAB	8200 Jones Rd.	9-Jul-12	0.76	<1	2	13	<1	0.42
RMD-253	GRAB	11051 No. 3 Rd.	9-Jul-12	0.9	<1	<2	10	<1	0.43
RMD-269	GRAB	14951 Triangle Rd.	9-Jul-12	0.82	<1	<2	16	<1	0.11
RMD-263	GRAB	12560 Cambie Rd.	11-Jul-12	0.77	<1	<2	10	<1	0.43
RMD-264	GRAB	13100 Mitchell Rd.	11-Jul-12	0.86	<1	2	10	<1	0.76
RMD-277	GRAB	Opp. 11280 Twigg Place	11-Jul-12	0.76	<1	<2	9	<1	0.56
RMD-262	GRAB	13799 Commerce Pkwy.	11-Jul-12	0.76	<1	<2	11	<1	0.15
RMD-278	GRAB	6651 Fraserwood Place	11-Jul-12	0.56	<1	<2	13	<1	0.44
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	11-Jul-12	0.49	<1	<2	13	<1	0.41
RMD-261	GRAB	9911 Sidaway Rd.	11-Jul-12	0.67	<1	<2	12	<1	0.15
RMD-260	GRAB	11111 Horseshoe Way	11-Jul-12	0.66	<1	2	13	<1	0.28
RMD-266	GRAB	9380 General Currie Rd.	11-Jul-12	0.86	<1	<2	9	<1	0.35
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	11-Jul-12	0.65	<1	<2	11	<1	0.34
RMD-258	GRAB	7000 Blk. Dyke Rd.	11-Jul-12	0.59	<1	<2	13	<1	0.37
RMD-257	GRAB	6640 Blundell Rd.	11-Jul-12	0.79	<1	<2	10	<1	0.42
RMD-259	GRAB	10020 Amethyst Ave.	11-Jul-12	0.91	<1	<2	10	<1	0.32
RMD-204	GRAB	3180 Granville Ave.	13-Jul-12	0.75	<1	<2	11	<1	0.32
RMD-206	GRAB	4251 Moncton St.	13-Jul-12	0.55	<1	<2	11	<1	0.29
RMD-216	GRAB	11080 No. 2 Rd.	13-Jul-12	0.78	<1	<2	9	<1	0.37
RMD-212	GRAB	Opp. 8600 Ryan Rd.	13-Jul-12	0.79	<1	<2	10	<1	0.36

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-208	GRAB	13200 No. 4 Rd.	13-Jul-12	0.74	<1	<2	9	<1	0.35
RMD-205	GRAB	13851 Steveston Hwy.	13-Jul-12	0.83	<1	<2	10	<1	0.1
RMD-202	GRAB	1500 Valemont Way	13-Jul-12	0.79	<1	<2	11	<1	0.11
RMD-214	GRAB	11720 Westminster Hwy.	13-Jul-12	0.74	<1	<2	8	<1	0.36
RMD-267	GRAB	17240 Fedoruk	13-Jul-12	0.79	<1	<2	11	<1	0.1
RMD-249	GRAB	23000 Blk. Dyke Rd.	13-Jul-12	0.76	<1	<2	10	<1	0.31
RMD-276	GRAB	22271 Cochrane Drive	13-Jul-12	0.64	<1	2	12	<1	0.27
RMD-275	GRAB	5180 Smith Cres.	13-Jul-12	0.7	<1	<2	12	<1	0.3
RMD-203	GRAB	23260 Westminster Hwy.	13-Jul-12	0.77	<1	<2	11	<1	0.3
RMD-251	GRAB	5951 McCallan Rd.	16-Jul-12	0.92	<1	<2	12	<1	0.25
RMD-273	GRAB	Opp. 8331 Fairfax Place	16-Jul-12	0.45	<1	<2	19	<1	1.1
RMD-274	GRAB	10920 Springwood Court	16-Jul-12	0.51	<1	<2	16	<1	0.28
RMD-252	GRAB	9751 Pendleton Rd.	16-Jul-12	0.73	<1	<2	12	<1	0.31
RMD-250	GRAB	6071 Azure Rd.	16-Jul-12	0.86	<1	<2	13	<1	0.33
RMD-271	GRAB	3800 Cessna Drive	16-Jul-12	0.01	<1	14	16	<1	0.23
RMD-272	GRAB	751 Catalina Cres.	16-Jul-12	0.88	<1	<2	12	<1	0.33
RMD-255	GRAB	6000 Blk. Miller Rd.	16-Jul-12	0.92	<1	<2	10	<1	0.32
RMD-256	GRAB	1000 Blk. McDonald Rd.	16-Jul-12	0.8	<1	2	12	<1	0.43
RMD-254	GRAB	5300 No. 3 Rd.	16-Jul-12	0.91	<1	<2	10	<1	0.31
RMD-270	GRAB	8200 Jones Rd.	16-Jul-12	0.79	<1	<2	13	<1	0.37
RMD-269	GRAB	14951 Triangle Rd.	16-Jul-12	0.84	<1	<2	14	<1	0.09
RMD-253	GRAB	11051 No. 3 Rd.	16-Jul-12	0.98	<1	2	10	<1	0.33
RMD-263	GRAB	12560 Cambie Rd.	18-Jul-12	0.87	<1	<2	10	<1	0.31
RMD-264	GRAB	13100 Mitchell Rd.	18-Jul-12	0.81	<1	<2	11	<1	0.47
RMD-277	GRAB	Opp. 11280 Twigg Place	18-Jul-12	0.8	<1	<2	11	<1	0.37
RMD-262	GRAB	13799 Commerce Pkwy.	18-Jul-12	0.75	<1	<2	12	<1	0.14
RMD-278	GRAB	6651 Fraserwood Place	18-Jul-12	0.39	<1	<2	13	<1	0.34
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	18-Jul-12	0.55	<1	<2	13	<1	0.31
RMD-261	GRAB	9911 Sidaway Rd.	18-Jul-12	0.8	<1	<2	12	<1	0.15
RMD-260	GRAB	11111 Horseshoe Way	18-Jul-12	0.63	<1	<2	11	<1	0.35
RMD-259	GRAB	10020 Amethyst Ave.	18-Jul-12	0.84	<1	<2	11	<1	0.36
RMD-266	GRAB	9380 General Currie Rd.	18-Jul-12	0.78	<1	<2	11	<1	0.33
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	18-Jul-12	0.73	<1	<2	12	<1	0.3
RMD-258	GRAB	7000 Blk. Dyke Rd.	18-Jul-12	0.55	<1	<2	13	<1	0.26
RMD-257	GRAB	6640 Blundell Rd.	18-Jul-12	0.86	<1	LA	10	<1	0.41
RMD-204	GRAB	3180 Granville Ave.	20-Jul-12	0.67	<1	6	11	<1	0.28
RMD-206	GRAB	4251 Moncton St.	20-Jul-12	0.6	<1	<2	12	<1	0.25
RMD-216	GRAB	11080 No. 2 Rd.	20-Jul-12	0.74	<1	430	10	<1	0.26

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-212	GRAB	Opp. 8600 Ryan Rd.	20-Jul-12	0.76	<1	22	12	<1	0.28
RMD-208	GRAB	13200 No. 4 Rd.	20-Jul-12	0.76	<1	<2	10	<1	0.28
RMD-205	GRAB	13851 Steveston Hwy.	20-Jul-12	0.84	<1	<2	12	<1	0.09
RMD-214	GRAB	11720 Westminster Hwy.	20-Jul-12	0.65	<1	<2	10	<1	0.26
RMD-202	GRAB	1500 Valemont Way	20-Jul-12	0.81	<1	<2	12	<1	0.11
RMD-267	GRAB	17240 Fedoruk	20-Jul-12	0.8	<1	4	13	<1	0.08
RMD-249	GRAB	23000 Blk. Dyke Rd.	20-Jul-12	0.72	<1	2	12	<1	0.29
RMD-276	GRAB	22271 Cochrane Drive	20-Jul-12	0.45	<1	<2	13	<1	0.24
RMD-275	GRAB	5180 Smith Cres.	20-Jul-12	0.6	<1	<2	13	<1	0.23
RMD-203	GRAB	23260 Westminster Hwy.	20-Jul-12	0.67	<1	<2	12	<1	0.23
RMD-251	GRAB	5951 McCallan Rd.	23-Jul-12	0.5	<1	6	11	<1	0.29
RMD-273	GRAB	Opp. 8331 Fairfax Place	23-Jul-12	0.34	<1	2	18	<1	0.8
RMD-274	GRAB	10920 Springwood Court	23-Jul-12	0.42	<1	<2	17	<1	0.22
RMD-252	GRAB	9751 Pendleton Rd.	23-Jul-12	0.61	<1	<2	12	<1	0.26
RMD-250	GRAB	6071 Azure Rd.	23-Jul-12	0.61	<1	<2	12	<1	0.26
RMD-271	GRAB	3800 Cessna Drive	23-Jul-12	0.79	<1	<2	11	<1	0.27
RMD-272	GRAB	751 Catalina Cres.	23-Jul-12	0.78	<1	<2	10	<1	0.29
RMD-255	GRAB	6000 Blk. Miller Rd.	23-Jul-12	0.81	<1	<2	9	<1	0.31
RMD-256	GRAB	1000 Blk. McDonald Rd.	23-Jul-12	0.09	<1	2	16	<1	0.44
RMD-254	GRAB	5300 No. 3 Rd.	23-Jul-12	0.6	<1	<2	10	<1	0.28
RMD-270	GRAB	8200 Jones Rd.	23-Jul-12	0.61	<1	<2	12	<1	0.24
RMD-269	GRAB	14951 Triangle Rd.	23-Jul-12	0.62	<1	8	12	<1	0.33
RMD-253	GRAB	11051 No. 3 Rd.	23-Jul-12	0.83	<1	<2	9	<1	0.28
RMD-263	GRAB	12560 Cambie Rd.	25-Jul-12	0.6	<1	<2	11	<1	0.3
RMD-264	GRAB	13100 Mitchell Rd.	25-Jul-12	0.66	<1	<2	11	<1	0.31
RMD-277	GRAB	Opp. 11280 Twigg Place	25-Jul-12	0.01	<1	110	17	<1	0.21
RMD-262	GRAB	13799 Commerce Pkwy.	25-Jul-12	0.65	<1	<2	12	<1	0.09
RMD-278	GRAB	6651 Fraserwood Place	25-Jul-12	0.15	<1	<2	15	<1	0.27
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	25-Jul-12	0.23	<1	<2	14	<1	0.29
RMD-261	GRAB	9911 Sidaway Rd.	25-Jul-12	0.62	<1	<2	12	<1	0.1
RMD-260	GRAB	11111 Horseshoe Way	25-Jul-12	0.35	<1	2	13	<1	0.14
RMD-259	GRAB	10020 Amethyst Ave.	25-Jul-12	0.67	<1	<2	11	<1	0.34
RMD-266	GRAB	9380 General Currie Rd.	25-Jul-12	0.67	<1	<2	11	<1	0.35
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	25-Jul-12	0.45	<1	2	13	<1	0.28
RMD-258	GRAB	7000 Blk. Dyke Rd.	25-Jul-12	0.57	<1	<2	13	<1	0.27
RMD-257	GRAB	6640 Blundell Rd.	25-Jul-12	0.72	<1	<2	10	<1	0.35
RMD-216	GRAB	11080 No. 2 Rd.	26-Jul-12	0.64	<1	<2	10	<1	0.28
RMD-204	GRAB	3180 Granville Ave.	27-Jul-12	0.61	<1	<2	10	<1	0.36

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-206	GRAB	4251 Moncton St.	27-Jul-12	0.54	<1	<2	12	<1	0.29
RMD-216	GRAB	11080 No. 2 Rd.	27-Jul-12	0.64	<1	<2	10	<1	0.26
RMD-212	GRAB	Opp. 8600 Ryan Rd.	27-Jul-12	0.68	<1	<2	10	<1	0.28
RMD-208	GRAB	13200 No. 4 Rd.	27-Jul-12	0.59	<1	<2	11	<1	0.27
RMD-205	GRAB	13851 Steveston Hwy.	27-Jul-12	0.63	<1	<2	12	<1	0.16
RMD-202	GRAB	1500 Valemont Way	27-Jul-12	0.61	<1	<2	14	<1	0.2
RMD-214	GRAB	11720 Westminster Hwy.	27-Jul-12	0.78	<1	8	9	<1	0.27
RMD-267	GRAB	17240 Fedoruk	27-Jul-12	0.59	<1	<2	15	<1	0.11
RMD-249	GRAB	23000 Blk. Dyke Rd.	27-Jul-12	0.66	<1	<2	10	<1	0.29
RMD-276	GRAB	22271 Cochrane Drive	27-Jul-12	0.55	<1	2	14	<1	0.23
RMD-275	GRAB	5180 Smith Cres.	27-Jul-12	0.48	<1	2	13	<1	0.25
RMD-203	GRAB	23260 Westminster Hwy.	27-Jul-12	0.69	<1	<2	10	<1	0.22
RMD-251	GRAB	5951 McCallan Rd.	30-Jul-12	0.53	<1	2	10	<1	0.42
RMD-273	GRAB	Opp. 8331 Fairfax Place	30-Jul-12	0.21	<1	<2	17	<1	0.37
RMD-252	GRAB	9751 Pendleton Rd.	30-Jul-12	0.59	<1	<2	12	<1	0.34
RMD-274	GRAB	10920 Springwood Court	30-Jul-12	0.43	<1	24	15	<1	0.27
RMD-250	GRAB	6071 Azure Rd.	30-Jul-12	0.52	<1	<2	13	<1	0.28
RMD-271	GRAB	3800 Cessna Drive	30-Jul-12	0.52	<1	<2	10	<1	0.3
RMD-272	GRAB	751 Catalina Cres.	30-Jul-12	0.54	<1	<2	11	<1	0.46
RMD-255	GRAB	6000 Blk. Miller Rd.	30-Jul-12	0.77	<1	16	9	<1	0.89
RMD-256	GRAB	1000 Blk. McDonald Rd.	30-Jul-12	0.71	<1	<2	10	<1	0.47
RMD-254	GRAB	5300 No. 3 Rd.	30-Jul-12	0.51	<1	2	11	<1	0.32
RMD-253	GRAB	11051 No. 3 Rd.	30-Jul-12	0.59	<1	<2	11	<1	0.3
RMD-269	GRAB	14951 Triangle Rd.	30-Jul-12	0.55	<1	<2	15	<1	0.39
RMD-270	GRAB	8200 Jones Rd.	30-Jul-12	0.56	<1	<2	12	<1	0.32
RMD-263	GRAB	12560 Cambie Rd.	1-Aug-12	0.81	<1	<2	10	<1	0.84
RMD-264	GRAB	13100 Mitchell Rd.	1-Aug-12	0.74	<1	<2	11	<1	0.31
RMD-277	GRAB	Opp. 11280 Twigg Place	1-Aug-12	0.49	<1	<2	17	<1	0.41
RMD-262	GRAB	13799 Commerce Pkwy.	1-Aug-12	0.74	<1	<2	12	<1	0.26
RMD-278	GRAB	6651 Fraserwood Place	1-Aug-12	0.64	<1	<2	13	<1	0.3
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	1-Aug-12	0.55	<1	<2	14	<1	0.27
RMD-261	GRAB	9911 Sidaway Rd.	1-Aug-12	0.74	<1	<2	13	<1	0.17
RMD-260	GRAB	11111 Horseshoe Way	1-Aug-12	0.55	<1	<2	12	<1	0.24
RMD-259	GRAB	10020 Amethyst Ave.	1-Aug-12	0.87	<1	<2	11	<1	0.3
RMD-266	GRAB	9380 General Currie Rd.	1-Aug-12	0.9	<1	<2	10	<1	0.36
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	1-Aug-12	0.73	<1	<2	12	<1	0.28
RMD-258	GRAB	7000 Blk. Dyke Rd.	1-Aug-12	0.53	<1	<2	15	<1	0.29
RMD-257	GRAB	6640 Blundell Rd.	1-Aug-12	0.77	<1	<2	10	<1	0.27

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-204	GRAB	3180 Granville Ave.	3-Aug-12	0.72	<1	<2	12	<1	0.29
RMD-206	GRAB	4251 Moncton St.	3-Aug-12	0.6	<1	<2	13	<1	0.3
RMD-216	GRAB	11080 No. 2 Rd.	3-Aug-12	0.67	<1	<2	11	<1	0.28
RMD-212	GRAB	Opp. 8600 Ryan Rd.	3-Aug-12	0.67	<1	<2	12	<1	0.26
RMD-208	GRAB	13200 No. 4 Rd.	3-Aug-12	0.79	<1	<2	11	<1	0.27
RMD-205	GRAB	13851 Steveston Hwy.	3-Aug-12	0.84	<1	<2	13	<1	0.15
RMD-214	GRAB	11720 Westminster Hwy.	3-Aug-12	0.68	<1	<2	10	<1	0.25
RMD-202	GRAB	1500 Valemont Way	3-Aug-12	0.67	<1	2	13	<1	0.15
RMD-267	GRAB	17240 Fedoruk	3-Aug-12	0.79	<1	<2	15	<1	0.13
RMD-249	GRAB	23000 Blk. Dyke Rd.	3-Aug-12	0.78	<1	<2	14	<1	0.4
RMD-276	GRAB	22271 Cochrane Drive	3-Aug-12	0.71	<1	<2	13	<1	0.27
RMD-275	GRAB	5180 Smith Cres.	3-Aug-12	0.62	<1	<2	14	<1	0.23
RMD-203	GRAB	23260 Westminster Hwy.	3-Aug-12	0.73	<1	26	13	<1	0.26
RMD-251	GRAB	5951 McCallan Rd.	7-Aug-12	1	<1	50	10	<1	0.34
RMD-273	GRAB	Opp. 8331 Fairfax Place	7-Aug-12	0.3	<1	<2	20	<1	0.59
RMD-252	GRAB	9751 Pendleton Rd.	7-Aug-12	0.48	<1	<2	11	<1	0.29
RMD-274	GRAB	10920 Springwood Court	7-Aug-12	0.28	<1	12	15	<1	0.28
RMD-250	GRAB	6071 Azure Rd.	7-Aug-12	0.66	<1	<2	13	<1	0.36
RMD-271	GRAB	3800 Cessna Drive	7-Aug-12	0.01	<1	2	16	<1	0.2
RMD-272	GRAB	751 Catalina Cres.	7-Aug-12	0.61	<1	<2	10	<1	0.27
RMD-255	GRAB	6000 Blk. Miller Rd.	7-Aug-12	0.55	<1	10	9	<1	0.3
RMD-256	GRAB	1000 Blk. McDonald Rd.	7-Aug-12	<0.01	<1	<2	18	<1	0.25
RMD-254	GRAB	5300 No. 3 Rd.	7-Aug-12	0.57	<1	<2	10	<1	0.3
RMD-270	GRAB	8200 Jones Rd.	7-Aug-12	0.56	<1	<2	12	<1	0.25
RMD-269	GRAB	14951 Triangle Rd.	7-Aug-12	0.54	<1	<2	16	<1	0.18
RMD-253	GRAB	11051 No. 3 Rd.	7-Aug-12	0.61	<1	<2	10	<1	0.37
RMD-263	GRAB	12560 Cambie Rd.	8-Aug-12	0.45	<1	<2	13	<1	0.29
RMD-264	GRAB	13100 Mitchell Rd.	8-Aug-12	0.53	<1	<2	13	<1	0.26
RMD-277	GRAB	Opp. 11280 Twigg Place	8-Aug-12	0.35	<1	<2	18	<1	0.33
RMD-262	GRAB	13799 Commerce Pkwy.	8-Aug-12	0.64	<1	<2	15	<1	0.25
RMD-278	GRAB	6651 Fraserwood Place	8-Aug-12	0.53	<1	<2	14	<1	0.29
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	8-Aug-12	0.51	<1	<2	15	<1	0.31
RMD-261	GRAB	9911 Sidaway Rd.	8-Aug-12	0.7	<1	4	14	<1	0.19
RMD-260	GRAB	11111 Horseshoe Way	8-Aug-12	0.57	<1	<2	15	<1	0.17
RMD-259	GRAB	10020 Amethyst Ave.	8-Aug-12	0.51	<1	<2	13	<1	0.36
RMD-266	GRAB	9380 General Currie Rd.	8-Aug-12	0.53	<1	2	10	<1	0.38
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	8-Aug-12	0.47	<1	<2	13	<1	0.27
RMD-258	GRAB	7000 Blk. Dyke Rd.	8-Aug-12	0.46	<1	<2	15	<1	0.24

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-257	GRAB	6640 Blundell Rd.	8-Aug-12	0.52	<1	<2	10	<1	0.3
RMD-204	GRAB	3180 Granville Ave.	10-Aug-12	0.44	<1	<2	12	<1	0.45
RMD-206	GRAB	4251 Moncton St.	10-Aug-12	0.27	<1	2	14	<1	0.25
RMD-216	GRAB	11080 No. 2 Rd.	10-Aug-12	0.54	<1	2	10	<1	0.33
RMD-212	GRAB	Opp. 8600 Ryan Rd.	10-Aug-12	0.52	<1	2	11	<1	0.24
RMD-208	GRAB	13200 No. 4 Rd.	10-Aug-12	0.5	<1	<2	11	<1	0.23
RMD-205	GRAB	13851 Steveston Hwy.	10-Aug-12	0.57	<1	2	12	<1	0.17
RMD-202	GRAB	1500 Valemont Way	10-Aug-12	0.43	<1	<2	15	<1	0.12
RMD-214	GRAB	11720 Westminster Hwy.	10-Aug-12	0.51	<1	<2	10	<1	0.28
RMD-267	GRAB	17240 Fedoruk	10-Aug-12	0.44	<1	<2	17	<1	0.16
RMD-249	GRAB	23000 Blk. Dyke Rd.	10-Aug-12	0.63	<1	<2	10	<1	0.36
RMD-276	GRAB	22271 Cochrane Drive	10-Aug-12	0.45	<1	<2	13	<1	0.25
RMD-275	GRAB	5180 Smith Cres.	10-Aug-12	0.64	<1	<2	12	<1	0.24
RMD-203	GRAB	23260 Westminster Hwy.	10-Aug-12	0.47	<1	2	12	<1	0.25
RMD-250	GRAB	6071 Azure Rd.	13-Aug-12	0.39	<1	<2	12	<1	0.23
RMD-271	GRAB	3800 Cessna Drive	13-Aug-12	0.4	<1	<2	10	<1	0.28
RMD-272	GRAB	751 Catalina Cres.	13-Aug-12	0.36	<1	<2	11	<1	0.23
RMD-255	GRAB	6000 Blk. Miller Rd.	13-Aug-12	0.7	<1	70	9	<1	0.47
RMD-256	GRAB	1000 Blk. McDonald Rd.	13-Aug-12	0.54	<1	2	10	<1	0.24
RMD-254	GRAB	5300 No. 3 Rd.	13-Aug-12	0.49	<1	<2	11	<1	0.28
RMD-270	GRAB	8200 Jones Rd.	13-Aug-12	0.43	<1	<2	13	<1	0.24
RMD-269	GRAB	14951 Triangle Rd.	13-Aug-12	0.55	<1	4	17	<1	0.12
RMD-253	GRAB	11051 No. 3 Rd.	13-Aug-12	0.66	<1	<2	12	<1	0.25
RMD-274	GRAB	10920 Springwood Court	13-Aug-12	0.3	<1	80	17	<1	0.26
RMD-252	GRAB	9751 Pendleton Rd.	13-Aug-12	0.41	<1	<2	12	<1	0.27
RMD-273	GRAB	Opp. 8331 Fairfax Place	13-Aug-12	0.17	<1	<2	19	<1	0.7
RMD-251	GRAB	5951 McCallan Rd.	13-Aug-12	0.53	<1	2	12	<1	0.31
RMD-263	GRAB	12560 Cambie Rd.	15-Aug-12	0.73	<1	<2	11	<1	0.32
RMD-264	GRAB	13100 Mitchell Rd.	15-Aug-12	0.65	<1	<2	12	<1	0.38
RMD-277	GRAB	Opp. 11280 Twigg Place	15-Aug-12	0.57	<1	<2	13	<1	0.3
RMD-262	GRAB	13799 Commerce Pkwy.	15-Aug-12	0.62	<1	<2	12	<1	0.16
RMD-278	GRAB	6651 Fraserwood Place	15-Aug-12	0.4	<1	<2	16	<1	0.24
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	15-Aug-12	0.48	<1	<2	14	<1	0.21
RMD-261	GRAB	9911 Sidaway Rd.	15-Aug-12	0.66	<1	<2	12	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	15-Aug-12	0.61	<1	<2	11	<1	0.26
RMD-259	GRAB	10020 Amethyst Ave.	15-Aug-12	0.61	<1	<2	11	<1	0.26
RMD-266	GRAB	9380 General Currie Rd.	15-Aug-12	0.62	<1	2	11	<1	0.25
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	15-Aug-12	0.5	<1	<2	14	<1	0.3

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-258	GRAB	7000 Blk. Dyke Rd.	15-Aug-12	0.42	<1	<2	14	<1	0.35
RMD-257	GRAB	6640 Blundell Rd.	15-Aug-12	0.6	<1	<2	11	<1	0.33
RMD-204	GRAB	3180 Granville Ave.	17-Aug-12	0.57	<1	<2	12	<1	0.25
RMD-206	GRAB	4251 Moncton St.	17-Aug-12	0.38	<1	<2	13	<1	0.25
RMD-216	GRAB	11080 No. 2 Rd.	17-Aug-12	0.62	<1	<2	10	<1	0.29
RMD-212	GRAB	Opp. 8600 Ryan Rd.	17-Aug-12	0.62	<1	<2	13	<1	0.33
RMD-208	GRAB	13200 No. 4 Rd.	17-Aug-12	0.66	<1	<2	10	<1	0.25
RMD-205	GRAB	13851 Steveston Hwy.	17-Aug-12	0.74	<1	<2	14	<1	0.14
RMD-214	GRAB	11720 Westminster Hwy.	17-Aug-12	0.77	<1	<2	10	<1	0.34
RMD-202	GRAB	1500 Valemont Way	17-Aug-12	0.59	<1	<2	14	<1	0.18
RMD-267	GRAB	17240 Fedoruk	17-Aug-12	0.67	<1	<2	15	<1	0.15
RMD-249	GRAB	23000 Blk. Dyke Rd.	17-Aug-12	0.72	<1	<2	14	<1	0.29
RMD-276	GRAB	22271 Cochrane Drive	17-Aug-12	0.64	<1	<2	14	<1	0.32
RMD-275	GRAB	5180 Smith Cres.	17-Aug-12	0.6	<1	<2	13	<1	0.25
RMD-203	GRAB	23260 Westminster Hwy.	17-Aug-12	0.69	<1	2	13	<1	0.31
RMD-251	GRAB	5951 McCallan Rd.	20-Aug-12	0.59	<1	<2	9	<1	0.34
RMD-273	GRAB	Opp. 8331 Fairfax Place	20-Aug-12	0.29	<1	6	19	<1	0.8
RMD-274	GRAB	10920 Springwood Court	20-Aug-12	0.36	<1	26	17	<1	0.32
RMD-252	GRAB	9751 Pendleton Rd.	20-Aug-12	0.53	<1	<2	12	<1	0.27
RMD-250	GRAB	6071 Azure Rd.	20-Aug-12	0.69	<1	<2	13	<1	0.38
RMD-271	GRAB	3800 Cessna Drive	20-Aug-12	0.69	<1	2	10	<1	0.25
RMD-272	GRAB	751 Catalina Cres.	20-Aug-12	0.57	<1	<2	13	<1	0.32
RMD-255	GRAB	6000 Blk. Miller Rd.	20-Aug-12	0.69	<1	8	9	<1	0.39
RMD-256	GRAB	1000 Blk. McDonald Rd.	20-Aug-12	0.61	<1	<2	12	<1	0.33
RMD-254	GRAB	5300 No. 3 Rd.	20-Aug-12	0.66	<1	<2	10	<1	0.3
RMD-270	GRAB	8200 Jones Rd.	20-Aug-12	0.6	<1	2	14	<1	0.35
RMD-269	GRAB	14951 Triangle Rd.	20-Aug-12	0.7	<1	<2	16	<1	0.32
RMD-253	GRAB	11051 No. 3 Rd.	20-Aug-12	0.57	<1	<2	11	<1	0.35
RMD-257	GRAB	6640 Blundell Rd.	22-Aug-12	0.13	<1	<2	10	<1	0.29
RMD-258	GRAB	7000 Blk. Dyke Rd.	22-Aug-12	0.37	<1	<2	15	<1	0.24
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	22-Aug-12	0.56	<1	<2	12	<1	0.27
RMD-259	GRAB	10020 Amethyst Ave.	22-Aug-12	0.69	<1	<2	10	<1	0.27
RMD-266	GRAB	9380 General Currie Rd.	22-Aug-12	0.75	<1	<2	10	<1	0.26
RMD-260	GRAB	11111 Horseshoe Way	22-Aug-12	0.61	<1	<2	11	<1	0.26
RMD-261	GRAB	9911 Sidaway Rd.	22-Aug-12	0.7	<1	2	15	<1	0.15
RMD-262	GRAB	13799 Commerce Pkwy.	22-Aug-12	0.72	<1	<2	15	<1	0.13
RMD-263	GRAB	12560 Cambie Rd.	22-Aug-12	0.66	<1	<2	12	<1	0.25
RMD-264	GRAB	13100 Mitchell Rd.	22-Aug-12	0.67	<1	<2	10	<1	0.35

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-277	GRAB	Opp. 11280 Twigg Place	22-Aug-12	0.69	<1	<2	10	<1	0.36
RMD-278	GRAB	6651 Fraserwood Place	22-Aug-12	0.49	<1	<2	15	<1	0.28
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	22-Aug-12	0.55	<1	<2	15	<1	0.27
RMD-204	GRAB	3180 Granville Ave.	24-Aug-12	0.55	<1	<2	12	<1	0.42
RMD-206	GRAB	4251 Moncton St.	24-Aug-12	0.38	<1	<2	14	<1	0.25
RMD-216	GRAB	11080 No. 2 Rd.	24-Aug-12	0.51	<1	<2	11	<1	0.26
RMD-212	GRAB	Opp. 8600 Ryan Rd.	24-Aug-12	0.5	<1	<2	13	<1	0.26
RMD-208	GRAB	13200 No. 4 Rd.	24-Aug-12	0.46	<1	<2	13	<1	0.27
RMD-205	GRAB	13851 Steveston Hwy.	24-Aug-12	0.61	<1	<2	15	<1	0.12
RMD-202	GRAB	1500 Valemont Way	24-Aug-12	0.61	<1	<2	15	<1	0.11
RMD-214	GRAB	11720 Westminster Hwy.	24-Aug-12	0.53	<1	<2	11	<1	0.27
RMD-267	GRAB	17240 Fedoruk	24-Aug-12	0.61	<1	<2	16	<1	0.11
RMD-249	GRAB	23000 Blk. Dyke Rd.	24-Aug-12	0.57	<1	<2	11	<1	0.24
RMD-276	GRAB	22271 Cochrane Drive	24-Aug-12	0.52	<1	44	14	<1	0.22
RMD-275	GRAB	5180 Smith Cres.	24-Aug-12	0.55	<1	2	14	<1	0.21
RMD-203	GRAB	23260 Westminster Hwy.	24-Aug-12	0.72	<1	<2	12	<1	0.25
RMD-250	GRAB	6071 Azure Rd.	27-Aug-12	0.59	<1	2	13	<1	0.25
RMD-271	GRAB	3800 Cessna Drive	27-Aug-12	0.72	<1	<2	10	<1	0.33
RMD-272	GRAB	751 Catalina Cres.	27-Aug-12	0.57	<1	<2	13	<1	0.28
RMD-256	GRAB	1000 Blk. McDonald Rd.	27-Aug-12	0.68	<1	<2	12	<1	0.27
RMD-254	GRAB	5300 No. 3 Rd.	27-Aug-12	0.72	<1	<2	11	<1	0.26
RMD-270	GRAB	8200 Jones Rd.	27-Aug-12	0.64	<1	<2	12	<1	0.26
RMD-269	GRAB	14951 Triangle Rd.	27-Aug-12	0.78	<1	<2	19	<1	0.15
RMD-253	GRAB	11051 No. 3 Rd.	27-Aug-12	0.81	<1	<2	10	<1	0.31
RMD-274	GRAB	10920 Springwood Court	27-Aug-12	0.39	<1	18	15	<1	0.64
RMD-252	GRAB	9751 Pendleton Rd.	27-Aug-12	0.64	<1	<2	14	<1	0.27
RMD-273	GRAB	Opp. 8331 Fairfax Place	27-Aug-12	0.29	<1	<2	18	<1	0.65
RMD-251	GRAB	5951 McCallan Rd.	27-Aug-12	0.89	<1	<2	10	<1	0.26
RMD-255	GRAB	6000 Blk. Miller Rd.	27-Aug-12	0.84	<1	62	9	1	0.31
RMD-263	GRAB	12560 Cambie Rd.	29-Aug-12	0.66	<1	<2	12	<1	0.2
RMD-264	GRAB	13100 Mitchell Rd.	29-Aug-12	0.71	<1	<2	13	<1	0.29
RMD-277	GRAB	Opp. 11280 Twigg Place	29-Aug-12	0.76	<1	4	11	<1	0.34
RMD-262	GRAB	13799 Commerce Pkwy.	29-Aug-12	0.72	<1	<2	16	<1	0.15
RMD-278	GRAB	6651 Fraserwood Place	29-Aug-12	0.57	<1	<2	14	<1	0.31
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	29-Aug-12	0.51	<1	<2	14	<1	0.32
RMD-261	GRAB	9911 Sidaway Rd.	29-Aug-12	0.72	<1	<2	14	<1	0.14
RMD-260	GRAB	11111 Horseshoe Way	29-Aug-12	0.5	<1	<2	16	<1	0.14
RMD-259	GRAB	10020 Amethyst Ave.	29-Aug-12	0.67	<1	<2	11	<1	0.36

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-266	GRAB	9380 General Currie Rd.	29-Aug-12	0.82	<1	<2	10	<1	0.25
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	29-Aug-12	0.55	<1	<2	11	<1	0.22
RMD-258	GRAB	7000 Blk. Dyke Rd.	29-Aug-12	0.42	<1	<2	15	<1	0.22
RMD-257	GRAB	6640 Blundell Rd.	29-Aug-12	0.78	<1	<2	11	<1	0.24
RMD-204	GRAB	3180 Granville Ave.	31-Aug-12	0.47	<1	8	12	<1	0.28
RMD-206	GRAB	4251 Moncton St.	31-Aug-12	0.55	<1	<2	12	<1	0.23
RMD-216	GRAB	11080 No. 2 Rd.	31-Aug-12	0.68	<1	<2	11	<1	0.29
RMD-212	GRAB	Opp. 8600 Ryan Rd.	31-Aug-12	0.67	<1	2	12	<1	0.24
RMD-208	GRAB	13200 No. 4 Rd.	31-Aug-12	0.7	<1	<2	11	<1	0.24
RMD-205	GRAB	13851 Steveston Hwy.	31-Aug-12	0.76	<1	<2	15	<1	0.12
RMD-214	GRAB	11720 Westminster Hwy.	31-Aug-12	0.7	<1	<2	11	<1	0.26
RMD-202	GRAB	1500 Valemont Way	31-Aug-12	0.73	<1	2	15	<1	0.14
RMD-267	GRAB	17240 Fedoruk	31-Aug-12	0.73	<1	<2	17	<1	0.12
RMD-249	GRAB	23000 Blk. Dyke Rd.	31-Aug-12	0.47	<1	<2	12	<1	0.37
RMD-276	GRAB	22271 Cochrane Drive	31-Aug-12	0.48	<1	16	13	<1	0.23
RMD-275	GRAB	5180 Smith Cres.	31-Aug-12	0.63	<1	<2	13	<1	0.21
RMD-203	GRAB	23260 Westminster Hwy.	31-Aug-12	0.68	<1	<2	12	<1	0.24
RMD-251	GRAB	5951 McCallan Rd.	4-Sep-12	0.69	<1	<2	10	<1	0.34
RMD-273	GRAB	Opp. 8331 Fairfax Place	4-Sep-12	0.26	<1	<2	18	<1	0.42
RMD-252	GRAB	9751 Pendleton Rd.	4-Sep-12	0.58	<1	<2	13	<1	0.37
RMD-274	GRAB	10920 Springwood Court	4-Sep-12	0.49	<1	2	15	<1	0.27
RMD-250	GRAB	6071 Azure Rd.	4-Sep-12	0.45	<1	<2	13	<1	0.39
RMD-271	GRAB	3800 Cessna Drive	4-Sep-12	0.09	<1	100	17	<1	0.23
RMD-272	GRAB	751 Catalina Cres.	4-Sep-12	0.64	<1	<2	12	<1	0.27
RMD-255	GRAB	6000 Blk. Miller Rd.	4-Sep-12	0.73	<1	6	10	<1	0.32
RMD-254	GRAB	5300 No. 3 Rd.	4-Sep-12	0.21	<1	<2	11	<1	0.29
RMD-270	GRAB	8200 Jones Rd.	4-Sep-12	0.57	<1	2	13	<1	0.29
RMD-269	GRAB	14951 Triangle Rd.	4-Sep-12	0.72	<1	<2	17	<1	0.23
RMD-253	GRAB	11051 No. 3 Rd.	4-Sep-12	0.76	<1	2	11	<1	0.34
RMD-263	GRAB	12560 Cambie Rd.	5-Sep-12	0.48	<1	<2	10	<1	0.32
RMD-264	GRAB	13100 Mitchell Rd.	5-Sep-12	0.64	<1	<2	10	<1	0.38
RMD-277	GRAB	Opp. 11280 Twigg Place	5-Sep-12	0.61	<1	<2	11	<1	0.32
RMD-262	GRAB	13799 Commerce Pkwy.	5-Sep-12	0.66	<1	<2	12	<1	0.39
RMD-278	GRAB	6651 Fraserwood Place	5-Sep-12	0.35	<1	<2	15	<1	0.28
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	5-Sep-12	0.46	<1	<2	14	<1	0.37
RMD-261	GRAB	9911 Sidaway Rd.	5-Sep-12	0.66	<1	4	12	<1	0.19
RMD-260	GRAB	11111 Horseshoe Way	5-Sep-12	0.67	<1	<2	12	<1	0.18
RMD-259	GRAB	10020 Amethyst Ave.	5-Sep-12	0.68	<1	<2	11	<1	0.28

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-266	GRAB	9380 General Currie Rd.	5-Sep-12	0.71	<1	<2	9	<1	0.3
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	5-Sep-12	0.44	<1	<2	13	<1	0.26
RMD-258	GRAB	7000 Blk. Dyke Rd.	5-Sep-12	0.57	<1	10	12	<1	0.33
RMD-257	GRAB	6640 Blundell Rd.	5-Sep-12	0.75	<1	<2	10	<1	0.38
RMD-204	GRAB	3180 Granville Ave.	7-Sep-12	0.51	<1	<2	12	<1	0.33
RMD-206	GRAB	4251 Moncton St.	7-Sep-12	0.51	<1	<2	13	<1	0.29
RMD-216	GRAB	11080 No. 2 Rd.	7-Sep-12	0.66	<1	<2	12	<1	0.37
RMD-212	GRAB	Opp. 8600 Ryan Rd.	7-Sep-12	0.63	<1	<2	12	<1	0.31
RMD-208	GRAB	13200 No. 4 Rd.	7-Sep-12	0.64	<1	<2	11	<1	0.31
RMD-205	GRAB	13851 Steveston Hwy.	7-Sep-12	0.74	<1	<2	15	<1	0.2
RMD-214	GRAB	11720 Westminster Hwy.	7-Sep-12	0.58	<1	2	11	<1	0.27
RMD-202	GRAB	1500 Valemont Way	7-Sep-12	0.69	<1	2	15	<1	0.2
RMD-267	GRAB	17240 Fedoruk	7-Sep-12	0.68	<1	<2	17	<1	0.16
RMD-249	GRAB	23000 Blk. Dyke Rd.	7-Sep-12	0.75	<1	2	13	<1	0.29
RMD-276	GRAB	22271 Cochrane Drive	7-Sep-12	0.61	<1	<2	14	<1	0.27
RMD-275	GRAB	5180 Smith Cres.	7-Sep-12	0.62	<1	2	14	<1	0.32
RMD-203	GRAB	23260 Westminster Hwy.	7-Sep-12	0.76	<1	<2	13	<1	0.33
RMD-250	GRAB	6071 Azure Rd.	10-Sep-12	0.59	<1	<2	12	<1	0.29
RMD-271	GRAB	3800 Cessna Drive	10-Sep-12	0.65	<1	<2	11	<1	0.33
RMD-272	GRAB	751 Catalina Cres.	10-Sep-12	0.62	<1	4	12	<1	0.38
RMD-255	GRAB	6000 Blk. Miller Rd.	10-Sep-12	0.58	<1	4	9	<1	0.4
RMD-256	GRAB	1000 Blk. McDonald Rd.	10-Sep-12	0.51	<1	2	10	<1	0.31
RMD-254	GRAB	5300 No. 3 Rd.	10-Sep-12	0.59	<1	<2	10	<1	0.3
RMD-270	GRAB	8200 Jones Rd.	10-Sep-12	0.56	<1	<2	11	<1	0.46
RMD-269	GRAB	14951 Triangle Rd.	10-Sep-12	0.63	<1	<2	12	<1	0.18
RMD-253	GRAB	11051 No. 3 Rd.	10-Sep-12	0.58	<1	<2	10	<1	0.3
RMD-274	GRAB	10920 Springwood Court	10-Sep-12	0.45	<1	<2	14	<1	0.33
RMD-252	GRAB	9751 Pendleton Rd.	10-Sep-12	0.49	<1	<2	11	<1	0.28
RMD-273	GRAB	Opp. 8331 Fairfax Place	10-Sep-12	0.29	<1	2	15	<1	0.81
RMD-251	GRAB	5951 McCallan Rd.	10-Sep-12	0.53	<1	<2	10	<1	0.27
RMD-263	GRAB	12560 Cambie Rd.	12-Sep-12	0.67	<1	<2	10	<1	0.27
RMD-264	GRAB	13100 Mitchell Rd.	12-Sep-12	0.66	<1	2	10	<1	0.33
RMD-277	GRAB	Opp. 11280 Twigg Place	12-Sep-12	0.45	<1	<2	12	<1	0.32
RMD-262	GRAB	13799 Commerce Pkwy.	12-Sep-12	0.69	<1	2	10	<1	0.13
RMD-278	GRAB	6651 Fraserwood Place	12-Sep-12	0.5	<1	<2	12	<1	0.23
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	12-Sep-12	0.63	<1	<2	11	<1	0.42
RMD-261	GRAB	9911 Sidaway Rd.	12-Sep-12	0.69	<1	<2	11	<1	0.17
RMD-260	GRAB	11111 Horseshoe Way	12-Sep-12	0.69	<1	<2	10	<1	0.2

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-259	GRAB	10020 Amethyst Ave.	12-Sep-12	0.66	<1	<2	11	<1	0.3
RMD-266	GRAB	9380 General Currie Rd.	12-Sep-12	0.71	<1	<2	9	<1	0.32
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	12-Sep-12	0.58	<1	<2	13	<1	0.32
RMD-258	GRAB	7000 Blk. Dyke Rd.	12-Sep-12	0.51	<1	4	12	<1	0.4
RMD-257	GRAB	6640 Blundell Rd.	12-Sep-12	0.55	<1	2	11	<1	0.28
RMD-204	GRAB	3180 Granville Ave.	14-Sep-12	0.5	<1	<2	13	<1	0.29
RMD-206	GRAB	4251 Moncton St.	14-Sep-12	0.46	<1	<2	12	<1	0.28
RMD-216	GRAB	11080 No. 2 Rd.	14-Sep-12	0.71	<1	<2	11	<1	0.38
RMD-212	GRAB	Opp. 8600 Ryan Rd.	14-Sep-12	0.49	<1	16	12	<1	0.32
RMD-208	GRAB	13200 No. 4 Rd.	14-Sep-12	0.65	<1	2	11	<1	0.32
RMD-205	GRAB	13851 Steveston Hwy.	14-Sep-12	0.64	<1	<2	15	<1	0.19
RMD-214	GRAB	11720 Westminster Hwy.	14-Sep-12	0.93	<1	2	10	<1	0.3
RMD-202	GRAB	1500 Valemont Way	14-Sep-12	0.79	<1	<2	15	<1	0.19
RMD-267	GRAB	17240 Fedoruk	14-Sep-12	0.78	<1	<2	15	<1	0.17
RMD-249	GRAB	23000 Blk. Dyke Rd.	14-Sep-12	0.54	<1	<2	13	<1	0.23
RMD-276	GRAB	22271 Cochrane Drive	14-Sep-12	0.53	<1	<2	12	<1	0.2
RMD-275	GRAB	5180 Smith Cres.	14-Sep-12	0.63	<1	<2	12	<1	0.19
RMD-203	GRAB	23260 Westminster Hwy.	14-Sep-12	0.85	<1	<2	13	<1	0.3
RMD-251	GRAB	5951 McCallan Rd.	17-Sep-12	0.8	<1	<2	13	<1	0.28
RMD-273	GRAB	Opp. 8331 Fairfax Place	17-Sep-12	0.43	<1	<2	17	<1	0.48
RMD-252	GRAB	9751 Pendleton Rd.	17-Sep-12	0.57	<1	<2	13	<1	0.29
RMD-274	GRAB	10920 Springwood Court	17-Sep-12	0.54	<1	6	15	<1	0.3
RMD-250	GRAB	6071 Azure Rd.	17-Sep-12	0.73	<1	<2	13	<1	0.3
RMD-271	GRAB	3800 Cessna Drive	17-Sep-12	0.76	<1	<2	12	<1	0.33
RMD-272	GRAB	751 Catalina Cres.	17-Sep-12	0.61	<1	<2	14	<1	0.33
RMD-255	GRAB	6000 Blk. Miller Rd.	17-Sep-12	0.8	<1	<2	12	<1	0.45
RMD-256	GRAB	1000 Blk. McDonald Rd.	17-Sep-12	0.58	<1	<2	13	<1	0.32
RMD-254	GRAB	5300 No. 3 Rd.	17-Sep-12	0.81	<1	<2	12	<1	0.29
RMD-270	GRAB	8200 Jones Rd.	17-Sep-12	0.65	<1	<2	14	<1	0.33
RMD-269	GRAB	14951 Triangle Rd.	17-Sep-12	0.75	<1	<2	16	<1	0.2
RMD-253	GRAB	11051 No. 3 Rd.	17-Sep-12	0.74	<1	<2	12	<1	0.3
RMD-263	GRAB	12560 Cambie Rd.	19-Sep-12	0.77	<1	2	15	<1	0.39
RMD-264	GRAB	13100 Mitchell Rd.	19-Sep-12	0.74	<1	<2	15	<1	0.47
RMD-277	GRAB	Opp. 11280 Twigg Place	19-Sep-12	0.81	<1	<2	14	<1	0.43
RMD-262	GRAB	13799 Commerce Pkwy.	19-Sep-12	0.79	<1	6	16	<1	0.14
RMD-278	GRAB	6651 Fraserwood Place	19-Sep-12	0.67	<1	6	15	<1	0.34
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	19-Sep-12	0.61	<1	<2	14	<1	0.29
RMD-261	GRAB	9911 Sidaway Rd.	19-Sep-12	0.8	<1	2	16	<1	0.16

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-260	GRAB	11111 Horseshoe Way	19-Sep-12	0.71	<1	<2	14	<1	0.36
RMD-259	GRAB	10020 Amethyst Ave.	19-Sep-12	0.81	<1	<2	13	<1	0.35
RMD-266	GRAB	9380 General Currie Rd.	19-Sep-12	0.83	<1	<2	13	<1	0.29
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	19-Sep-12	0.67	<1	<2	13	<1	0.36
RMD-258	GRAB	7000 Blk. Dyke Rd.	19-Sep-12	0.57	<1	<2	14	<1	0.42
RMD-257	GRAB	6640 Blundell Rd.	19-Sep-12	0.86	<1	<2	13	<1	0.36
RMD-204	GRAB	3180 Granville Ave.	21-Sep-12	0.55	<1	2	12	<1	0.28
RMD-206	GRAB	4251 Moncton St.	21-Sep-12	0.49	<1	<2	13	<1	0.25
RMD-216	GRAB	11080 No. 2 Rd.	21-Sep-12	0.63	<1	<2	10	<1	0.31
RMD-212	GRAB	Opp. 8600 Ryan Rd.	21-Sep-12	0.62	<1	<2	12	<1	0.3
RMD-208	GRAB	13200 No. 4 Rd.	21-Sep-12	0.56	<1	6	12	<1	0.42
RMD-205	GRAB	13851 Steveston Hwy.	21-Sep-12	0.69	<1	<2	11	<1	0.14
RMD-202	GRAB	1500 Valemont Way	21-Sep-12	0.69	<1	<2	12	<1	0.18
RMD-214	GRAB	11720 Westminster Hwy.	21-Sep-12	0.54	<1	<2	10	<1	0.3
RMD-267	GRAB	17240 Fedoruk	21-Sep-12	0.67	<1	2	13	<1	0.13
RMD-249	GRAB	23000 Blk. Dyke Rd.	21-Sep-12	0.65	<1	2	10	<1	0.31
RMD-276	GRAB	22271 Cochrane Drive	21-Sep-12	0.49	<1	4	14	<1	0.19
RMD-275	GRAB	5180 Smith Cres.	21-Sep-12	0.55	<1	<2	12	<1	0.21
RMD-203	GRAB	23260 Westminster Hwy.	21-Sep-12	0.7	<1	2	10	<1	0.25
RMD-251	GRAB	5951 McCallan Rd.	24-Sep-12	0.79	<1	<2	12	<1	0.29
RMD-273	GRAB	Opp. 8331 Fairfax Place	24-Sep-12	0.43	<1	2	16	<1	0.64
RMD-252	GRAB	9751 Pendleton Rd.	24-Sep-12	0.57	<1	<2	11	<1	0.28
RMD-274	GRAB	10920 Springwood Court	24-Sep-12	0.34	<1	2	16	<1	0.25
RMD-250	GRAB	6071 Azure Rd.	24-Sep-12	0.65	<1	<2	12	<1	0.31
RMD-271	GRAB	3800 Cessna Drive	24-Sep-12	0.49	<1	<2	11	<1	0.35
RMD-272	GRAB	751 Catalina Cres.	24-Sep-12	0.65	<1	2	12	<1	0.28
RMD-255	GRAB	6000 Blk. Miller Rd.	24-Sep-12	0.72	<1	92	11	<1	0.42
RMD-256	GRAB	1000 Blk. McDonald Rd.	24-Sep-12	0.65	<1	<2	12	<1	0.33
RMD-254	GRAB	5300 No. 3 Rd.	24-Sep-12	0.73	<1	<2	12	<1	0.28
RMD-270	GRAB	8200 Jones Rd.	24-Sep-12	0.6	<1	<2	13	<1	0.32
RMD-269	GRAB	14951 Triangle Rd.	24-Sep-12	0.72	<1	<2	15	<1	0.26
RMD-253	GRAB	11051 No. 3 Rd.	24-Sep-12	0.76	<1	<2	11	<1	0.31
RMD-263	GRAB	12560 Cambie Rd.	26-Sep-12	0.76	<1	<2	9	<1	0.35
RMD-264	GRAB	13100 Mitchell Rd.	26-Sep-12	0.71	<1	<2	10	<1	0.41
RMD-277	GRAB	Opp. 11280 Twigg Place	26-Sep-12	0.69	<1	4	11	<1	0.56
RMD-262	GRAB	13799 Commerce Pkwy.	26-Sep-12	0.72	<1	<2	11	<1	0.38
RMD-278	GRAB	6651 Fraserwood Place	26-Sep-12	0.25	<1	<2	14	<1	0.19
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	26-Sep-12	0.58	<1	2	12	<1	0.26

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-261	GRAB	9911 Sidaway Rd.	26-Sep-12	0.68	<1	<2	11	<1	0.29
RMD-260	GRAB	11111 Horseshoe Way	26-Sep-12	0.56	<1	2	10	<1	0.18
RMD-259	GRAB	10020 Amethyst Ave.	26-Sep-12	0.57	<1	<2	9	<1	0.43
RMD-266	GRAB	9380 General Currie Rd.	26-Sep-12	0.65	<1	<2	9	<1	0.43
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	26-Sep-12	0.51	<1	<2	12	<1	0.39
RMD-258	GRAB	7000 Blk. Dyke Rd.	26-Sep-12	0.57	<1	<2	10	<1	0.32
RMD-257	GRAB	6640 Blundell Rd.	26-Sep-12	0.51	<1	<2	9	<1	0.31
RMD-204	GRAB	3180 Granville Ave.	28-Sep-12	0.61	<1	<2	13	<1	0.26
RMD-206	GRAB	4251 Moncton St.	28-Sep-12	0.49	<1	<2	13	<1	0.26
RMD-216	GRAB	11080 No. 2 Rd.	28-Sep-12	0.73	<1	<2	13	<1	0.34
RMD-212	GRAB	Opp. 8600 Ryan Rd.	28-Sep-12	0.69	<1	<2	13	<1	0.34
RMD-208	GRAB	13200 No. 4 Rd.	28-Sep-12	0.7	<1	<2	13	<1	0.3
RMD-205	GRAB	13851 Steveston Hwy.	28-Sep-12	0.77	<1	<2	14	<1	0.16
RMD-202	GRAB	1500 Valemont Way	28-Sep-12	0.59	<1	<2	15	<1	0.16
RMD-214	GRAB	11720 Westminster Hwy.	28-Sep-12	0.78	<1	2	12	<1	0.33
RMD-267	GRAB	17240 Fedoruk	28-Sep-12	0.64	<1	<2	15	<1	0.16
RMD-249	GRAB	23000 Blk. Dyke Rd.	28-Sep-12	0.61	<1	<2	15	<1	0.15
RMD-276	GRAB	22271 Cochrane Drive	28-Sep-12	0.6	<1	6	15	<1	0.14
RMD-275	GRAB	5180 Smith Cres.	28-Sep-12	0.68	<1	<2	15	<1	0.15
RMD-203	GRAB	23260 Westminster Hwy.	28-Sep-12	0.65	<1	2	15	<1	0.18
RMD-251	GRAB	5951 McCallan Rd.	1-Oct-12	0.79	<1	<2	11	<1	0.3
RMD-250	GRAB	6071 Azure Rd.	1-Oct-12	0.62	<1	8	12	<1	0.27
RMD-271	GRAB	3800 Cessna Drive	1-Oct-12	0.87	<1	4	10	<1	0.27
RMD-272	GRAB	751 Catalina Cres.	1-Oct-12	0.68	<1	2	11	<1	0.3
RMD-255	GRAB	6000 Blk. Miller Rd.	1-Oct-12	0.91	<1	32	9	<1	0.35
RMD-256	GRAB	1000 Blk. McDonald Rd.	1-Oct-12	0.82	<1	<2	10	<1	0.3
RMD-254	GRAB	5300 No. 3 Rd.	1-Oct-12	0.81	<1	<2	10	<1	0.3
RMD-270	GRAB	8200 Jones Rd.	1-Oct-12	0.62	<1	<2	12	<1	0.28
RMD-269	GRAB	14951 Triangle Rd.	1-Oct-12	0.77	<1	4	11	<1	0.42
RMD-253	GRAB	11051 No. 3 Rd.	1-Oct-12	0.83	<1	<2	10	<1	0.32
RMD-274	GRAB	10920 Springwood Court	1-Oct-12	0.68	<1	6	13	<1	0.29
RMD-252	GRAB	9751 Pendleton Rd.	1-Oct-12	0.57	<1	<2	12	<1	0.3
RMD-273	GRAB	Opp. 8331 Fairfax Place	1-Oct-12	0.39	<1	2	14	<1	0.77
RMD-263	GRAB	12560 Cambie Rd.	3-Oct-12	0.6	<1	<2	12	<1	0.43
RMD-264	GRAB	13100 Mitchell Rd.	3-Oct-12	0.58	<1	14	12	<1	0.56
RMD-277	GRAB	Opp. 11280 Twigg Place	3-Oct-12	0.55	<1	46	13	<1	0.6
RMD-262	GRAB	13799 Commerce Pkwy.	3-Oct-12	0.59	<1	<2	12	<1	0.16
RMD-278	GRAB	6651 Fraserwood Place	3-Oct-12	0.52	<1	89	14	<1	0.32

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	3-Oct-12	0.54	<1	2	13	<1	0.4
RMD-261	GRAB	9911 Sidaway Rd.	3-Oct-12	0.61	<1	<2	13	<1	0.12
RMD-260	GRAB	11111 Horseshoe Way	3-Oct-12	0.56	<1	<2	13	<1	0.17
RMD-259	GRAB	10020 Amethyst Ave.	3-Oct-12	0.37	<1	<2	14	<1	0.32
RMD-266	GRAB	9380 General Currie Rd.	3-Oct-12	0.49	<1	<2	13	<1	0.28
RMD-258	GRAB	7000 Blk. Dyke Rd.	3-Oct-12	0.54	<1	<2	14	<1	0.15
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	3-Oct-12	0.44	<1	4	14	<1	0.43
RMD-257	GRAB	6640 Blundell Rd.	3-Oct-12	0.45	<1	<2	12	<1	0.3
RMD-204	GRAB	3180 Granville Ave.	5-Oct-12	0.58	<1	<2	12	<1	0.29
RMD-206	GRAB	4251 Moncton St.	5-Oct-12	0.62	<1	<2	12	<1	0.47
RMD-216	GRAB	11080 No. 2 Rd.	5-Oct-12	0.66	<1	<2	11	<1	0.38
RMD-212	GRAB	Opp. 8600 Ryan Rd.	5-Oct-12	0.69	<1	<2	11	<1	0.48
RMD-208	GRAB	13200 No. 4 Rd.	5-Oct-12	0.48	<1	2	13	<1	0.37
RMD-205	GRAB	13851 Steveston Hwy.	5-Oct-12	0.67	<1	<2	12	<1	0.1
RMD-202	GRAB	1500 Valemont Way	5-Oct-12	0.52	<1	<2	14	<1	0.37
RMD-214	GRAB	11720 Westminster Hwy.	5-Oct-12	0.73	<1	<2	11	<1	0.37
RMD-267	GRAB	17240 Fedoruk	5-Oct-12	0.6	<1	<2	13	<1	0.15
RMD-276	GRAB	22271 Cochrane Drive	5-Oct-12	0.61	<1	90	14	<1	0.34
RMD-249	GRAB	23000 Blk. Dyke Rd.	5-Oct-12	0.68	<1	14	12	<1	0.43
RMD-275	GRAB	5180 Smith Cres.	5-Oct-12	0.68	<1	<2	12	<1	0.38
RMD-203	GRAB	23260 Westminster Hwy.	5-Oct-12	0.78	<1	<2	11	<1	0.47
RMD-251	GRAB	5951 McCallan Rd.	9-Oct-12	0.76	<1	<2	14	<1	0.32
RMD-273	GRAB	Opp. 8331 Fairfax Place	9-Oct-12	0.4	<1	2	17	<1	0.33
RMD-252	GRAB	9751 Pendleton Rd.	9-Oct-12	0.62	<1	<2	14	<1	0.31
RMD-274	GRAB	10920 Springwood Court	9-Oct-12	0.53	<1	<2	17	<1	0.27
RMD-250	GRAB	6071 Azure Rd.	9-Oct-12	0.62	<1	<2	13	<1	0.32
RMD-271	GRAB	3800 Cessna Drive	9-Oct-12	0.06	<1	12	16	<1	0.25
RMD-272	GRAB	751 Catalina Cres.	9-Oct-12	0.66	<1	<2	14	<1	0.33
RMD-255	GRAB	6000 Blk. Miller Rd.	9-Oct-12	0.65	<1	14	13	<1	0.37
RMD-256	GRAB	1000 Blk. McDonald Rd.	9-Oct-12	0.06	<1	12	16	<1	0.32
RMD-254	GRAB	5300 No. 3 Rd.	9-Oct-12	0.7	<1	<2	13	<1	0.32
RMD-270	GRAB	8200 Jones Rd.	9-Oct-12	0.68	<1	<2	13	<1	0.35
RMD-269	GRAB	14951 Triangle Rd.	9-Oct-12	0.69	<1	<2	14	<1	0.13
RMD-253	GRAB	11051 No. 3 Rd.	9-Oct-12	0.6	<1	<2	13	<1	0.31
RMD-263	GRAB	12560 Cambie Rd.	10-Oct-12	0.7	<1	2	12	<1	0.33
RMD-264	GRAB	13100 Mitchell Rd.	10-Oct-12	0.72	<1	<2	12	<1	0.49
RMD-277	GRAB	Opp. 11280 Twigg Place	10-Oct-12	0.68	<1	<2	13	<1	0.48
RMD-262	GRAB	13799 Commerce Pkwy.	10-Oct-12	0.67	<1	<2	13	<1	0.15

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-278	GRAB	6651 Fraserwood Place	10-Oct-12	0.56	<1	<2	15	<1	0.41
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	10-Oct-12	0.53	<1	<2	14	<1	0.38
RMD-261	GRAB	9911 Sidaway Rd.	10-Oct-12	0.63	<1	<2	13	<1	0.19
RMD-260	GRAB	11111 Horseshoe Way	10-Oct-12	0.53	<1	<2	14	<1	0.1
RMD-259	GRAB	10020 Amethyst Ave.	10-Oct-12	0.61	<1	<2	13	<1	0.38
RMD-266	GRAB	9380 General Currie Rd.	10-Oct-12	0.6	<1	<2	13	<1	0.38
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	10-Oct-12	0.69	<1	2	13	<1	0.31
RMD-258	GRAB	7000 Blk. Dyke Rd.	10-Oct-12	0.53	<1	<2	14	<1	0.47
RMD-257	GRAB	6640 Blundell Rd.	10-Oct-12	0.54	<1	<2	13	<1	0.33
RMD-204	GRAB	3180 Granville Ave.	12-Oct-12	0.83	<1	<2	13	<1	0.27
RMD-206	GRAB	4251 Moncton St.	12-Oct-12	0.58	<1	<2	13	<1	0.28
RMD-216	GRAB	11080 No. 2 Rd.	12-Oct-12	0.76	<1	<2	13	<1	0.29
RMD-212	GRAB	Opp. 8600 Ryan Rd.	12-Oct-12	0.64	<1	<2	13	<1	0.38
RMD-208	GRAB	13200 No. 4 Rd.	12-Oct-12	0.77	<1	2	12	<1	0.41
RMD-205	GRAB	13851 Steveston Hwy.	12-Oct-12	0.72	<1	<2	13	<1	0.1
RMD-202	GRAB	1500 Valemont Way	12-Oct-12	0.63	<1	<2	14	<1	0.23
RMD-214	GRAB	11720 Westminster Hwy.	12-Oct-12	0.56	<1	<2	13	<1	0.32
RMD-267	GRAB	17240 Fedoruk	12-Oct-12	0.55	<1	<2	15	<1	0.21
RMD-249	GRAB	23000 Blk. Dyke Rd.	12-Oct-12	0.73	<1	<2	15	<1	0.32
RMD-276	GRAB	22271 Cochrane Drive	12-Oct-12	0.65	<1	30	13	<1	0.26
RMD-275	GRAB	5180 Smith Cres.	12-Oct-12	0.69	<1	2	12	<1	0.24
RMD-203	GRAB	23260 Westminster Hwy.	12-Oct-12	0.75	<1	<2	13	<1	0.29
RMD-251	GRAB	5951 McCallan Rd.	15-Oct-12	0.73	<1	2	12	<1	0.29
RMD-250	GRAB	6071 Azure Rd.	15-Oct-12	0.74	<1	<2	12	<1	0.29
RMD-271	GRAB	3800 Cessna Drive	15-Oct-12	0.72	<1	<2	12	<1	0.24
RMD-272	GRAB	751 Catalina Cres.	15-Oct-12	0.65	<1	<2	14	<1	0.25
RMD-255	GRAB	6000 Blk. Miller Rd.	15-Oct-12	0.81	<1	24	11	<1	0.35
RMD-256	GRAB	1000 Blk. McDonald Rd.	15-Oct-12	0.79	<1	<2	12	<1	0.22
RMD-254	GRAB	5300 No. 3 Rd.	15-Oct-12	0.61	<1	<2	13	<1	0.31
RMD-270	GRAB	8200 Jones Rd.	15-Oct-12	0.71	<1	<2	13	<1	0.22
RMD-269	GRAB	14951 Triangle Rd.	15-Oct-12	0.65	<1	<2	13	<1	0.24
RMD-253	GRAB	11051 No. 3 Rd.	15-Oct-12	0.67	<1	<2	13	<1	0.32
RMD-274	GRAB	10920 Springwood Court	15-Oct-12	0.55	<1	6	14	<1	0.24
RMD-252	GRAB	9751 Pendleton Rd.	15-Oct-12	0.65	<1	<2	13	<1	0.29
RMD-273	GRAB	Opp. 8331 Fairfax Place	15-Oct-12	0.47	<1	<2	15	<1	0.33
RMD-263	GRAB	12560 Cambie Rd.	17-Oct-12	0.57	<1	<2	13	<1	0.39
RMD-264	GRAB	13100 Mitchell Rd.	17-Oct-12	0.52	<1	<2	13	<1	0.33
RMD-277	GRAB	Opp. 11280 Twigg Place	17-Oct-12	0.51	<1	2	14	<1	0.41

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-262	GRAB	13799 Commerce Pkwy.	17-Oct-12	0.54	<1	<2	12	<1	0.33
RMD-278	GRAB	6651 Fraserwood Place	17-Oct-12	0.47	<1	<2	15	<1	0.9
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	17-Oct-12	0.63	<1	<2	12	<1	1.4
RMD-261	GRAB	9911 Sidaway Rd.	17-Oct-12	0.66	<1	<2	12	<1	0.19
RMD-260	GRAB	11111 Horseshoe Way	17-Oct-12	0.41	<1	<2	14	<1	0.15
RMD-259	GRAB	10020 Amethyst Ave.	17-Oct-12	0.79	<1	<2	12	<1	0.23
RMD-266	GRAB	9380 General Currie Rd.	17-Oct-12	0.81	<1	<2	12	<1	0.24
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	17-Oct-12	0.73	<1	<2	13	<1	1.1
RMD-258	GRAB	7000 Blk. Dyke Rd.	17-Oct-12	0.77	<1	8	13	<1	1.2
RMD-257	GRAB	6640 Blundell Rd.	17-Oct-12	0.82	<1	<2	12	<1	0.26
RMD-204	GRAB	3180 Granville Ave.	19-Oct-12	0.84	<1	<2	10	<1	0.4
RMD-206	GRAB	4251 Moncton St.	19-Oct-12	0.55	<1	<2	11	<1	0.15
RMD-216	GRAB	11080 No. 2 Rd.	19-Oct-12	0.71	<1	<2	10	<1	0.16
RMD-212	GRAB	Opp. 8600 Ryan Rd.	19-Oct-12	0.73	<1	<2	10	<1	0.19
RMD-208	GRAB	13200 No. 4 Rd.	19-Oct-12	0.63	<1	12	11	<1	0.2
RMD-205	GRAB	13851 Steveston Hwy.	19-Oct-12	0.72	<1	<2	10	<1	0.14
RMD-202	GRAB	1500 Valemont Way	19-Oct-12	0.61	<1	<2	11	<1	1.2
RMD-214	GRAB	11720 Westminster Hwy.	19-Oct-12	0.68	<1	<2	10	<1	0.22
RMD-267	GRAB	17240 Fedoruk	19-Oct-12	0.64	<1	<2	11	<1	0.92
RMD-249	GRAB	23000 Blk. Dyke Rd.	19-Oct-12	0.83	<1	<2	10	<1	1.6
RMD-276	GRAB	22271 Cochrane Drive	19-Oct-12	0.8	<1	82	10	<1	1.4
RMD-275	GRAB	5180 Smith Cres.	19-Oct-12	0.85	<1	<2	10	<1	1.4
RMD-203	GRAB	23260 Westminster Hwy.	19-Oct-12	0.89	<1	<2	9	<1	1.5
RMD-251	GRAB	5951 McCallan Rd.	22-Oct-12	0.75	<1	<2	12	<1	0.19
RMD-250	GRAB	6071 Azure Rd.	22-Oct-12	0.63	<1	<2	13	<1	0.21
RMD-271	GRAB	3800 Cessna Drive	22-Oct-12	0.63	<1	<2	12	<1	0.23
RMD-272	GRAB	751 Catalina Cres.	22-Oct-12	0.56	<1	<2	13	<1	0.26
RMD-255	GRAB	6000 Blk. Miller Rd.	22-Oct-12	0.62	<1	8	11	<1	0.34
RMD-256	GRAB	1000 Blk. McDonald Rd.	22-Oct-12	0.56	<1	<2	12	<1	0.19
RMD-254	GRAB	5300 No. 3 Rd.	22-Oct-12	0.59	<1	2	12	<1	0.19
RMD-270	GRAB	8200 Jones Rd.	22-Oct-12	0.7	<1	<2	12	<1	0.22
RMD-269	GRAB	14951 Triangle Rd.	22-Oct-12	0.58	<1	2	12	<1	0.26
RMD-253	GRAB	11051 No. 3 Rd.	22-Oct-12	0.6	<1	<2	11	<1	0.18
RMD-274	GRAB	10920 Springwood Court	22-Oct-12	0.58	<1	2	13	<1	0.19
RMD-252	GRAB	9751 Pendleton Rd.	22-Oct-12	0.5	<1	<2	13	<1	0.19
RMD-273	GRAB	Opp. 8331 Fairfax Place	22-Oct-12	0.35	<1	<2	14	<1	0.3
RMD-263	GRAB	12560 Cambie Rd.	24-Oct-12	0.74	<1	<2	12	<1	0.38
RMD-264	GRAB	13100 Mitchell Rd.	24-Oct-12	0.85	<1	<2	11	<1	0.23

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-277	GRAB	Opp. 11280 Twigg Place	24-Oct-12	0.75	<1	<2	10	<1	0.24
RMD-262	GRAB	13799 Commerce Pkwy.	24-Oct-12	0.65	<1	<2	11	<1	0.24
RMD-278	GRAB	6651 Fraserwood Place	24-Oct-12	0.7	<1	<2	11	<1	1.2
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	24-Oct-12	0.75	<1	<2	11	<1	1.5
RMD-261	GRAB	9911 Sidaway Rd.	24-Oct-12	0.64	<1	<2	10	<1	0.18
RMD-260	GRAB	11111 Horseshoe Way	24-Oct-12	0.76	<1	<2	11	<1	0.13
RMD-259	GRAB	10020 Amethyst Ave.	24-Oct-12	0.73	<1	<2	11	<1	0.15
RMD-266	GRAB	9380 General Currie Rd.	24-Oct-12	0.78	<1	<2	10	<1	0.17
RMD-258	GRAB	7000 Blk. Dyke Rd.	24-Oct-12	0.77	<1	2	11	<1	0.13
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	24-Oct-12	0.77	<1	2	10	<1	0.17
RMD-257	GRAB	6640 Blundell Rd.	24-Oct-12	0.79	<1	<2	10	<1	0.19
RMD-204	GRAB	3180 Granville Ave.	26-Oct-12	0.68	<1	4	8	<1	0.37
RMD-206	GRAB	4251 Moncton St.	26-Oct-12	0.65	<1	<2	9	<1	0.17
RMD-216	GRAB	11080 No. 2 Rd.	26-Oct-12	0.8	<1	<2	8	<1	0.19
RMD-212	GRAB	Opp. 8600 Ryan Rd.	26-Oct-12	0.79	<1	<2	9	<1	0.16
RMD-208	GRAB	13200 No. 4 Rd.	26-Oct-12	0.85	<1	<2	8	<1	0.21
RMD-205	GRAB	13851 Steveston Hwy.	26-Oct-12	0.74	<1	<2	7	<1	0.13
RMD-202	GRAB	1500 Valemont Way	26-Oct-12	0.92	<1	<2	9	<1	1.1
RMD-214	GRAB	11720 Westminster Hwy.	26-Oct-12	0.82	<1	<2	7	<1	0.16
RMD-267	GRAB	17240 Fedoruk	26-Oct-12	0.78	<1	<2	9	<1	0.71
RMD-249	GRAB	23000 Blk. Dyke Rd.	26-Oct-12	0.99	<1	<2	9	<1	1.2
RMD-276	GRAB	22271 Cochrane Drive	26-Oct-12	0.86	<1	<2	9	<1	0.85
RMD-275	GRAB	5180 Smith Cres.	26-Oct-12	0.87	<1	<2	9	<1	0.87
RMD-203	GRAB	23260 Westminster Hwy.	26-Oct-12	0.95	<1	<2	9	<1	1
RMD-251	GRAB	5951 McCallan Rd.	29-Oct-12	0.77	<1	<2	8	<1	0.18
RMD-273	GRAB	Opp. 8331 Fairfax Place	29-Oct-12	0.6	<1	<2	10	<1	0.15
RMD-252	GRAB	9751 Pendleton Rd.	29-Oct-12	0.58	<1	<2	9	<1	0.17
RMD-274	GRAB	10920 Springwood Court	29-Oct-12	0.74	<1	<2	10	<1	0.17
RMD-271	GRAB	3800 Cessna Drive	29-Oct-12	0.78	<1	<2	8	<1	0.13
RMD-250	GRAB	6071 Azure Rd.	29-Oct-12	0.64	<1	<2	10	<1	0.2
RMD-272	GRAB	751 Catalina Cres.	29-Oct-12	0.75	<1	<2	9	<1	0.13
RMD-255	GRAB	6000 Blk. Miller Rd.	29-Oct-12	0.86	<1	4	7	<1	0.17
RMD-256	GRAB	1000 Blk. McDonald Rd.	29-Oct-12	0.73	<1	2	8	<1	0.13
RMD-254	GRAB	5300 No. 3 Rd.	29-Oct-12	0.71	<1	2	8	<1	0.14
RMD-269	GRAB	14951 Triangle Rd.	29-Oct-12	0.65	<1	<2	9	<1	0.16
RMD-253	GRAB	11051 No. 3 Rd.	29-Oct-12	0.78	<1	<2	8	<1	0.22
RMD-270	GRAB	8200 Jones Rd.	29-Oct-12	0.72	<1	<2	9	<1	0.21
RMD-263	GRAB	12560 Cambie Rd.	1-Nov-12	0.62	<1	<2	10	<1	0.3

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-264	GRAB	13100 Mitchell Rd.	1-Nov-12	0.48	<1	<2	11	<1	0.17
RMD-277	GRAB	Opp. 11280 Twigg Place	1-Nov-12	0.46	<1	<2	11	<1	0.19
RMD-262	GRAB	13799 Commerce Pkwy.	1-Nov-12	0.47	<1	<2	11	<1	0.41
RMD-278	GRAB	6651 Fraserwood Place	1-Nov-12	0.54	<1	<2	12	<1	0.64
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	1-Nov-12	0.63	<1	<2	10	<1	0.72
RMD-261	GRAB	9911 Sidaway Rd.	1-Nov-12	0.66	<1	<2	10	<1	0.14
RMD-260	GRAB	11111 Horseshoe Way	1-Nov-12	0.55	<1	2	11	<1	0.14
RMD-259	GRAB	10020 Amethyst Ave.	1-Nov-12	0.65	<1	<2	10	<1	0.2
RMD-266	GRAB	9380 General Currie Rd.	1-Nov-12	0.67	<1	<2	9	<1	0.26
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	1-Nov-12	0.53	<1	<2	11	<1	0.27
RMD-258	GRAB	7000 Blk. Dyke Rd.	1-Nov-12	0.47	<1	<2	10	<1	0.52
RMD-257	GRAB	6640 Blundell Rd.	1-Nov-12	0.55	<1	<2	9	<1	0.15
RMD-204	GRAB	3180 Granville Ave.	2-Nov-12	0.62	<1	<2	10	<1	0.71
RMD-206	GRAB	4251 Moncton St.	2-Nov-12	0.57	<1	<2	12	<1	0.16
RMD-216	GRAB	11080 No. 2 Rd.	2-Nov-12	0.68	<1	<2	10	<1	0.15
RMD-212	GRAB	Opp. 8600 Ryan Rd.	2-Nov-12	0.69	<1	<2	10	<1	0.19
RMD-208	GRAB	13200 No. 4 Rd.	2-Nov-12	0.74	<1	<2	10	<1	0.12
RMD-205	GRAB	13851 Steveston Hwy.	2-Nov-12	0.8	<1	<2	9	<1	0.2
RMD-202	GRAB	1500 Valemont Way	2-Nov-12	0.86	<1	<2	10	<1	0.67
RMD-214	GRAB	11720 Westminster Hwy.	2-Nov-12	0.62	<1	2	10	<1	0.2
RMD-267	GRAB	17240 Fedoruk	2-Nov-12	0.83	<1	<2	11	<1	0.52
RMD-249	GRAB	23000 Blk. Dyke Rd.	2-Nov-12	1	<1	<2	9	<1	0.94
RMD-276	GRAB	22271 Cochrane Drive	2-Nov-12	0.84	<1	<2	10	<1	0.63
RMD-275	GRAB	5180 Smith Cres.	2-Nov-12	0.95	<1	34	10	<1	0.59
RMD-203	GRAB	23260 Westminster Hwy.	2-Nov-12	1	<1	<2	10	<1	0.77
RMD-251	GRAB	5951 McCallan Rd.	5-Nov-12	0.48	<1	2	9	<1	0.19
RMD-250	GRAB	6071 Azure Rd.	5-Nov-12	0.9	<1	<2	9	<1	0.21
RMD-271	GRAB	3800 Cessna Drive	5-Nov-12	0.85	<1	<2	9	<1	0.17
RMD-272	GRAB	751 Catalina Cres.	5-Nov-12	0.53	<1	2	10	<1	0.19
RMD-255	GRAB	6000 Blk. Miller Rd.	5-Nov-12	0.55	<1	<2	8	<1	0.34
RMD-256	GRAB	1000 Blk. McDonald Rd.	5-Nov-12	0.32	<1	<2	10	<1	0.23
RMD-254	GRAB	5300 No. 3 Rd.	5-Nov-12	0.55	<1	<2	10	<1	0.24
RMD-270	GRAB	8200 Jones Rd.	5-Nov-12	0.34	<1	2	10	<1	0.21
RMD-269	GRAB	14951 Triangle Rd.	5-Nov-12	0.39	<1	<2	14	<1	0.17
RMD-253	GRAB	11051 No. 3 Rd.	5-Nov-12	0.68	<1	<2	9	<1	0.22
RMD-274	GRAB	10920 Springwood Court	5-Nov-12	0.39	<1	<2	11	<1	0.19
RMD-252	GRAB	9751 Pendleton Rd.	5-Nov-12	0.53	<1	<2	10	<1	0.28
RMD-273	GRAB	Opp. 8331 Fairfax Place	5-Nov-12	0.43	<1	<2	13	<1	0.16

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-263	GRAB	12560 Cambie Rd.	7-Nov-12	0.66	<1	LA	9	<1	0.26
RMD-264	GRAB	13100 Mitchell Rd.	7-Nov-12	0.44	<1	<2	8	<1	0.16
RMD-277	GRAB	Opp. 11280 Twigg Place	7-Nov-12	0.32	<1	<2	12	<1	0.15
RMD-262	GRAB	13799 Commerce Pkwy.	7-Nov-12	0.71	<1	<2	11	<1	0.21
RMD-278	GRAB	6651 Fraserwood Place	7-Nov-12	0.69	<1	<2	10	<1	0.74
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	7-Nov-12	0.72	<1	<2	10	<1	0.69
RMD-261	GRAB	9911 Sidaway Rd.	7-Nov-12	0.11	<1	2	9	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	7-Nov-12	0.63	<1	<2	10	<1	0.11
RMD-259	GRAB	10020 Amethyst Ave.	7-Nov-12	0.6	<1	2	9	<1	0.12
RMD-266	GRAB	9380 General Currie Rd.	7-Nov-12	0.62	<1	<2	9	<1	0.14
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	7-Nov-12	0.61	<1	<2	12	<1	0.8
RMD-258	GRAB	7000 Blk. Dyke Rd.	7-Nov-12	0.69	<1	<2	9	<1	0.19
RMD-257	GRAB	6640 Blundell Rd.	7-Nov-12	0.57	<1	<2	8	<1	0.12
RMD-204	GRAB	3180 Granville Ave.	9-Nov-12	0.49	<1	<2	7	<1	0.34
RMD-206	GRAB	4251 Moncton St.	9-Nov-12	0.54	<1	<2	7	<1	0.13
RMD-216	GRAB	11080 No. 2 Rd.	9-Nov-12	0.56	<1	<2	7	<1	0.21
RMD-212	GRAB	Opp. 8600 Ryan Rd.	9-Nov-12	0.57	<1	2	7	<1	0.14
RMD-208	GRAB	13200 No. 4 Rd.	9-Nov-12	0.64	<1	<2	7	<1	0.17
RMD-205	GRAB	13851 Steveston Hwy.	9-Nov-12	0.65	<1	<2	6	<1	0.15
RMD-214	GRAB	11720 Westminster Hwy.	9-Nov-12	0.64	<1	<2	7	<1	0.17
RMD-202	GRAB	1500 Valemont Way	9-Nov-12	0.75	<1	<2	8	<1	0.55
RMD-267	GRAB	17240 Fedoruk	9-Nov-12	0.62	<1	<2	8	<1	0.5
RMD-249	GRAB	23000 Blk. Dyke Rd.	9-Nov-12	0.82	<1	<2	8	<1	0.63
RMD-276	GRAB	22271 Cochrane Drive	9-Nov-12	0.88	<1	<2	8	<1	0.56
RMD-275	GRAB	5180 Smith Cres.	9-Nov-12	0.87	<1	<2	8	<1	0.57
RMD-203	GRAB	23260 Westminster Hwy.	9-Nov-12	0.74	<1	<2	7	<1	0.8
RMD-250	GRAB	6071 Azure Rd.	13-Nov-12	0.53	<1	<2	10	<1	0.18
RMD-271	GRAB	3800 Cessna Drive	13-Nov-12	0.14	<1	6	13	<1	0.21
RMD-272	GRAB	751 Catalina Cres.	13-Nov-12	0.79	<1	<2	9	<1	0.11
RMD-255	GRAB	6000 Blk. Miller Rd.	13-Nov-12	0.7	<1	<2	9	<1	0.66
RMD-256	GRAB	1000 Blk. McDonald Rd.	13-Nov-12	0.08	<1	6	11	<1	0.39
RMD-254	GRAB	5300 No. 3 Rd.	13-Nov-12	0.85	<1	<2	9	<1	0.1
RMD-270	GRAB	8200 Jones Rd.	13-Nov-12	0.63	<1	<2	10	<1	0.15
RMD-269	GRAB	14951 Triangle Rd.	13-Nov-12	0.69	<1	2	9	<1	0.16
RMD-253	GRAB	11051 No. 3 Rd.	13-Nov-12	0.89	<1	<2	9	<1	0.16
RMD-274	GRAB	10920 Springwood Court	13-Nov-12	0.51	<1	<2	12	<1	0.13
RMD-252	GRAB	9751 Pendleton Rd.	13-Nov-12	0.54	<1	14	11	<1	0.11
RMD-273	GRAB	Opp. 8331 Fairfax Place	13-Nov-12	0.44	<1	6	13	<1	0.16

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-251	GRAB	5951 McCallan Rd.	13-Nov-12	0.56	<1	20	10	<1	1.6
RMD-263	GRAB	12560 Cambie Rd.	14-Nov-12	0.67	<1	<2	9	<1	0.2
RMD-264	GRAB	13100 Mitchell Rd.	14-Nov-12	0.6	<1	<2	9	<1	0.11
RMD-277	GRAB	Opp. 11280 Twigg Place	14-Nov-12	0.25	<1	<2	12	<1	0.12
RMD-262	GRAB	13799 Commerce Pkwy.	14-Nov-12	0.33	<1	<2	11	<1	0.13
RMD-278	GRAB	6651 Fraserwood Place	14-Nov-12	0.8	<1	<2	10	<1	0.54
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	14-Nov-12	0.73	<1	<2	9	<1	0.52
RMD-261	GRAB	9911 Sidaway Rd.	14-Nov-12	0.72	<1	<2	8	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	14-Nov-12	0.58	<1	2	9	<1	0.11
RMD-259	GRAB	10020 Amethyst Ave.	14-Nov-12	0.65	<1	<2	9	<1	0.13
RMD-266	GRAB	9380 General Currie Rd.	14-Nov-12	0.66	<1	<2	9	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	14-Nov-12	0.55	<1	2	10	<1	0.18
RMD-258	GRAB	7000 Blk. Dyke Rd.	14-Nov-12	0.61	<1	<2	9	<1	0.19
RMD-257	GRAB	6640 Blundell Rd.	14-Nov-12	0.64	<1	<2	9	<1	0.18
RMD-204	GRAB	3180 Granville Ave.	16-Nov-12	0.62	<1	<2	10	<1	0.2
RMD-206	GRAB	4251 Moncton St.	16-Nov-12	0.58	<1	2	11	<1	0.11
RMD-216	GRAB	11080 No. 2 Rd.	16-Nov-12	0.6	<1	2	9	<1	0.11
RMD-212	GRAB	Opp. 8600 Ryan Rd.	16-Nov-12	0.65	<1	<2	9	<1	0.18
RMD-208	GRAB	13200 No. 4 Rd.	16-Nov-12	0.7	<1	<2	8	<1	0.1
RMD-205	GRAB	13851 Steveston Hwy.	16-Nov-12	0.73	<1	<2	7	<1	0.13
RMD-202	GRAB	1500 Valemont Way	16-Nov-12	0.67	<1	2	8	<1	0.49
RMD-214	GRAB	11720 Westminster Hwy.	16-Nov-12	0.62	<1	<2	8	<1	0.12
RMD-267	GRAB	17240 Fedoruk	16-Nov-12	0.59	<1	8	8	<1	0.39
RMD-249	GRAB	23000 Blk. Dyke Rd.	16-Nov-12	0.69	<1	<2	8	<1	0.69
RMD-276	GRAB	22271 Cochrane Drive	16-Nov-12	0.63	<1	6	9	<1	0.46
RMD-275	GRAB	5180 Smith Cres.	16-Nov-12	0.64	<1	<2	9	<1	0.48
RMD-203	GRAB	23260 Westminster Hwy.	16-Nov-12	0.88	<1	<2	9	<1	0.54
RMD-251	GRAB	5951 McCallan Rd.	19-Nov-12	0.53	<1	<2	9	<1	0.17
RMD-250	GRAB	6071 Azure Rd.	19-Nov-12	0.52	<1	<2	9	<1	0.16
RMD-271	GRAB	3800 Cessna Drive	19-Nov-12	0.63	<1	<2	9	<1	0.17
RMD-272	GRAB	751 Catalina Cres.	19-Nov-12	0.61	<1	<2	8	<1	0.12
RMD-255	GRAB	6000 Blk. Miller Rd.	19-Nov-12	0.48	<1	<2	8	<1	0.62
RMD-256	GRAB	1000 Blk. McDonald Rd.	19-Nov-12	0.64	<1	<2	7	<1	0.14
RMD-254	GRAB	5300 No. 3 Rd.	19-Nov-12	0.83	<1	<2	9	<1	0.14
RMD-270	GRAB	8200 Jones Rd.	19-Nov-12	0.68	<1	<2	9	<1	0.22
RMD-269	GRAB	14951 Triangle Rd.	19-Nov-12	0.78	<1	<2	8	<1	0.18
RMD-253	GRAB	11051 No. 3 Rd.	19-Nov-12	0.58	<1	<2	8	<1	0.13
RMD-274	GRAB	10920 Springwood Court	19-Nov-12	0.56	<1	<2	10	<1	0.14

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-252	GRAB	9751 Pendleton Rd.	19-Nov-12	0.54	<1	<2	10	<1	0.12
RMD-273	GRAB	Opp. 8331 Fairfax Place	19-Nov-12	0.38	<1	<2	12	<1	0.19
RMD-257	GRAB	6640 Blundell Rd.	21-Nov-12	0.6	<1	2	8	<1	0.16
RMD-258	GRAB	7000 Blk. Dyke Rd.	21-Nov-12	0.62	<1	<2	10	<1	0.13
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	21-Nov-12	0.54	<1	<2	10	<1	0.1
RMD-259	GRAB	10020 Amethyst Ave.	21-Nov-12	0.51	<1	<2	9	<1	0.12
RMD-266	GRAB	9380 General Currie Rd.	21-Nov-12	0.61	<1	<2	9	<1	0.1
RMD-260	GRAB	11111 Horseshoe Way	21-Nov-12	0.66	<1	<2	8	<1	0.11
RMD-261	GRAB	9911 Sidaway Rd.	21-Nov-12	0.73	<1	2	8	<1	0.12
RMD-263	GRAB	12560 Cambie Rd.	21-Nov-12	0.63	<1	<2	8	<1	0.16
RMD-264	GRAB	13100 Mitchell Rd.	21-Nov-12	0.63	<1	<2	8	<1	0.28
RMD-277	GRAB	Opp. 11280 Twigg Place	21-Nov-12	0.79	<1	<2	8	<1	0.41
RMD-262	GRAB	13799 Commerce Pkwy.	21-Nov-12	0.81	<1	<2	8	<1	0.21
RMD-278	GRAB	6651 Fraserwood Place	21-Nov-12	0.62	<1	2	8	<1	0.44
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	21-Nov-12	0.64	<1	2	8	<1	0.44
RMD-204	GRAB	3180 Granville Ave.	23-Nov-12	0.87	<1	<2	9	<1	0.15
RMD-206	GRAB	4251 Moncton St.	23-Nov-12	0.61	<1	<2	10	<1	0.12
RMD-216	GRAB	11080 No. 2 Rd.	23-Nov-12	0.65	<1	<2	8	<1	0.17
RMD-212	GRAB	Opp. 8600 Ryan Rd.	23-Nov-12	0.58	<1	2	9	<1	0.16
RMD-208	GRAB	13200 No. 4 Rd.	23-Nov-12	0.56	<1	<2	8	<1	0.09
RMD-205	GRAB	13851 Steveston Hwy.	23-Nov-12	0.69	<1	<2	8	<1	0.12
RMD-202	GRAB	1500 Valemont Way	23-Nov-12	0.56	<1	2	9	<1	0.39
RMD-214	GRAB	11720 Westminster Hwy.	23-Nov-12	0.52	<1	<2	8	<1	0.1
RMD-267	GRAB	17240 Fedoruk	23-Nov-12	0.5	<1	2	9	<1	0.33
RMD-249	GRAB	23000 Blk. Dyke Rd.	23-Nov-12	0.63	<1	<2	9	<1	0.38
RMD-276	GRAB	22271 Cochrane Drive	23-Nov-12	0.6	<1	<2	9	<1	0.38
RMD-275	GRAB	5180 Smith Cres.	23-Nov-12	0.58	<1	<2	9	<1	0.38
RMD-203	GRAB	23260 Westminster Hwy.	23-Nov-12	0.59	<1	<2	9	<1	0.42
RMD-251	GRAB	5951 McCallan Rd.	26-Nov-12	0.64	<1	<2	8	<1	0.15
RMD-250	GRAB	6071 Azure Rd.	26-Nov-12	0.58	<1	<2	8	<1	0.13
RMD-271	GRAB	3800 Cessna Drive	26-Nov-12	0.4	<1	<2	8	<1	0.09
RMD-272	GRAB	751 Catalina Cres.	26-Nov-12	0.64	<1	<2	7	<1	0.1
RMD-255	GRAB	6000 Blk. Miller Rd.	26-Nov-12	0.6	<1	<2	7	<1	0.91
RMD-256	GRAB	1000 Blk. McDonald Rd.	26-Nov-12	0.46	<1	>11000	7	<1	1.1
RMD-254	GRAB	5300 No. 3 Rd.	26-Nov-12	0.73	<1	<2	7	<1	0.09
RMD-270	GRAB	8200 Jones Rd.	26-Nov-12	0.58	<1	<2	8	<1	0.1
RMD-269	GRAB	14951 Triangle Rd.	26-Nov-12	0.66	<1	<2	7	<1	0.09
RMD-253	GRAB	11051 No. 3 Rd.	26-Nov-12	0.74	<1	<2	6	<1	0.15

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-274	GRAB	10920 Springwood Court	26-Nov-12	0.6	<1	<2	10	<1	0.12
RMD-252	GRAB	9751 Pendleton Rd.	26-Nov-12	0.6	<1	<2	9	<1	0.18
RMD-273	GRAB	Opp. 8331 Fairfax Place	26-Nov-12	0.57	<1	<2	10	<1	0.2
RMD-257	GRAB	6640 Blundell Rd.	28-Nov-12	0.65	<1	<2	7	<1	0.14
RMD-258	GRAB	7000 Blk. Dyke Rd.	28-Nov-12	0.56	<1	2	8	<1	0.2
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	28-Nov-12	0.69	<1	<2	8	<1	0.35
RMD-259	GRAB	10020 Amethyst Ave.	28-Nov-12	0.66	<1	<2	7	<1	0.13
RMD-266	GRAB	9380 General Currie Rd.	28-Nov-12	0.64	<1	<2	8	<1	0.35
RMD-260	GRAB	11111 Horseshoe Way	28-Nov-12	0.65	<1	<2	7	<1	0.12
RMD-261	GRAB	9911 Sidaway Rd.	28-Nov-12	0.72	<1	<2	7	<1	0.13
RMD-263	GRAB	12560 Cambie Rd.	28-Nov-12	0.61	<1	4	7	<1	0.53
RMD-264	GRAB	13100 Mitchell Rd.	28-Nov-12	0.67	<1	<2	7	<1	0.13
RMD-277	GRAB	Opp. 11280 Twigg Place	28-Nov-12	0.66	<1	<2	7	<1	0.14
RMD-262	GRAB	13799 Commerce Pkwy.	28-Nov-12	0.76	<1	<2	7	<1	0.18
RMD-278	GRAB	6651 Fraserwood Place	28-Nov-12	0.62	<1	<2	9	<1	0.36
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	28-Nov-12	0.67	<1	<2	9	<1	0.56
RMD-204	GRAB	3180 Granville Ave.	30-Nov-12	0.32	<1	2	8	<1	0.18
RMD-206	GRAB	4251 Moncton St.	30-Nov-12	0.61	<1	<2	7	<1	0.14
RMD-216	GRAB	11080 No. 2 Rd.	30-Nov-12	0.54	<1	<2	7	<1	0.1
RMD-212	GRAB	Opp. 8600 Ryan Rd.	30-Nov-12	0.58	<1	2	8	<1	0.08
RMD-208	GRAB	13200 No. 4 Rd.	30-Nov-12	0.63	<1	<2	7	<1	0.12
RMD-205	GRAB	13851 Steveston Hwy.	30-Nov-12	0.61	<1	<2	6	<1	0.16
RMD-202	GRAB	1500 Valemont Way	30-Nov-12	0.58	<1	2	8	<1	0.4
RMD-214	GRAB	11720 Westminster Hwy.	30-Nov-12	0.62	<1	<2	6	<1	0.12
RMD-267	GRAB	17240 Fedoruk	30-Nov-12	0.58	<1	2	8	<1	0.28
RMD-249	GRAB	23000 Blk. Dyke Rd.	30-Nov-12	0.73	<1	<2	7	<1	0.43
RMD-276	GRAB	22271 Cochrane Drive	30-Nov-12	0.61	<1	<2	8	<1	0.31
RMD-275	GRAB	5180 Smith Cres.	30-Nov-12	0.7	<1	2	8	<1	0.37
RMD-203	GRAB	23260 Westminster Hwy.	30-Nov-12	0.77	<1	<2	8	<1	0.37
RMD-251	GRAB	5951 McCallan Rd.	3-Dec-12	0.68	<1	2	8	<1	0.09
RMD-273	GRAB	Opp. 8331 Fairfax Place	3-Dec-12	0.58	<1	<2	9	<1	1
RMD-252	GRAB	9751 Pendleton Rd.	3-Dec-12	0.66	<1	<2	9	<1	0.17
RMD-274	GRAB	10920 Springwood Court	3-Dec-12	0.58	<1	<2	9	<1	0.48
RMD-250	GRAB	6071 Azure Rd.	3-Dec-12	0.56	<1	2	9	<1	0.1
RMD-271	GRAB	3800 Cessna Drive	3-Dec-12	0.65	<1	<2	7	<1	0.13
RMD-272	GRAB	751 Catalina Cres.	3-Dec-12	0.68	<1	8	7	<1	0.11
RMD-255	GRAB	6000 Blk. Miller Rd.	3-Dec-12	0.67	<1	<2	7	<1	0.32
RMD-256	GRAB	1000 Blk. McDonald Rd.	3-Dec-12	0.06	<1	22	8	<1	0.44

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLS	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLS	Turbidity NTU
RMD-254	GRAB	5300 No. 3 Rd.	3-Dec-12	0.61	<1	2	7	<1	0.09
RMD-270	GRAB	8200 Jones Rd.	3-Dec-12	0.66	<1	<2	8	<1	0.11
RMD-269	GRAB	14951 Triangle Rd.	3-Dec-12	0.73	<1	<2	9	<1	0.12
RMD-253	GRAB	11051 No. 3 Rd.	3-Dec-12	0.68	<1	2	7	<1	0.11
RMD-257	GRAB	6640 Blundell Rd.	5-Dec-12	0.79	<1	<2	7	<1	0.1
RMD-258	GRAB	7000 Blk. Dyke Rd.	5-Dec-12	0.67	<1	<2	8	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	5-Dec-12	0.67	<1	<2	7	<1	0.12
RMD-259	GRAB	10020 Amethyst Ave.	5-Dec-12	0.68	<1	<2	7	<1	0.11
RMD-266	GRAB	9380 General Currie Rd.	5-Dec-12	0.69	<1	<2	6	<1	0.16
RMD-260	GRAB	11111 Horseshoe Way	5-Dec-12	0.75	<1	<2	7	<1	0.21
RMD-261	GRAB	9911 Sidaway Rd.	5-Dec-12	0.57	<1	<2	7	<1	0.13
RMD-263	GRAB	12560 Cambie Rd.	5-Dec-12	0.65	<1	<2	7	<1	0.16
RMD-264	GRAB	13100 Mitchell Rd.	5-Dec-12	0.69	<1	<2	7	<1	0.13
RMD-277	GRAB	Opp. 11280 Twigg Place	5-Dec-12	0.85	<1	2	7	<1	0.19
RMD-262	GRAB	13799 Commerce Pkwy.	5-Dec-12	0.7	<1	<2	7	<1	0.21
RMD-278	GRAB	6651 Fraserwood Place	5-Dec-12	0.59	<1	2	8	<1	0.32
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	5-Dec-12	0.72	<1	<2	8	<1	0.32
RMD-204	GRAB	3180 Granville Ave.	7-Dec-12	0.28	<1	<2	6	<1	0.14
RMD-206	GRAB	4251 Moncton St.	7-Dec-12	0.61	<1	<2	7	<1	0.16
RMD-216	GRAB	11080 No. 2 Rd.	7-Dec-12	0.67	<1	<2	7	<1	0.17
RMD-212	GRAB	Opp. 8600 Ryan Rd.	7-Dec-12	0.61	<1	<2	7	<1	0.14
RMD-208	GRAB	13200 No. 4 Rd.	7-Dec-12	0.63	<1	<2	7	<1	0.19
RMD-205	GRAB	13851 Steveston Hwy.	7-Dec-12	0.63	<1	<2	6	<1	0.14
RMD-202	GRAB	1500 Valemont Way	7-Dec-12	0.5	<1	2	7	<1	0.31
RMD-214	GRAB	11720 Westminster Hwy.	7-Dec-12	0.6	<1	<2	6	<1	0.11
RMD-267	GRAB	17240 Fedoruk	7-Dec-12	0.59	<1	<2	8	<1	0.19
RMD-249	GRAB	23000 Blk. Dyke Rd.	7-Dec-12	0.69	<1	<2	7	<1	0.29
RMD-276	GRAB	22271 Cochrane Drive	7-Dec-12	0.53	<1	4	8	<1	0.34
RMD-275	GRAB	5180 Smith Cres.	7-Dec-12	0.63	<1	<2	7	<1	0.31
RMD-203	GRAB	23260 Westminster Hwy.	7-Dec-12	0.71	<1	<2	8	<1	0.33
RMD-251	GRAB	5951 McCallan Rd.	10-Dec-12	0.67	<1	<2	7	<1	0.09
RMD-250	GRAB	6071 Azure Rd.	10-Dec-12	0.59	<1	<2	8	<1	0.32
RMD-271	GRAB	3800 Cessna Drive	10-Dec-12	0.54	<1	<2	7	<1	0.12
RMD-272	GRAB	751 Catalina Cres.	10-Dec-12	0.63	<1	<2	7	<1	0.13
RMD-255	GRAB	6000 Blk. Miller Rd.	10-Dec-12	0.53	<1	2	7	<1	0.63
RMD-256	GRAB	1000 Blk. McDonald Rd.	10-Dec-12	0.62	<1	<2	7	<1	0.11
RMD-254	GRAB	5300 No. 3 Rd.	10-Dec-12	0.66	<1	2	7	<1	0.09
RMD-270	GRAB	8200 Jones Rd.	10-Dec-12	0.59	<1	<2	7	<1	0.1

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-269	GRAB	14951 Triangle Rd.	10-Dec-12	0.64	<1	4	6	<1	0.11
RMD-253	GRAB	11051 No. 3 Rd.	10-Dec-12	0.55	<1	<2	6	<1	0.11
RMD-274	GRAB	10920 Springwood Court	10-Dec-12	0.64	<1	<2	9	<1	0.15
RMD-252	GRAB	9751 Pendleton Rd.	10-Dec-12	0.61	<1	<2	9	<1	0.16
RMD-273	GRAB	Opp. 8331 Fairfax Place	10-Dec-12	0.49	<1	<2	9	<1	0.42
RMD-263	GRAB	12560 Cambie Rd.	12-Dec-12	0.63	<1	2	7	<1	0.15
RMD-264	GRAB	13100 Mitchell Rd.	12-Dec-12	0.57	<1	<2	7	<1	0.29
RMD-277	GRAB	Opp. 11280 Twigg Place	12-Dec-12	0.6	<1	2	7	<1	0.36
RMD-262	GRAB	13799 Commerce Pkwy.	12-Dec-12	0.59	<1	<2	8	<1	0.38
RMD-278	GRAB	6651 Fraserwood Place	12-Dec-12	0.28	<1	6	9	<1	0.23
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	12-Dec-12	0.33	<1	2	8	<1	0.22
RMD-261	GRAB	9911 Sidaway Rd.	12-Dec-12	0.61	<1	<2	8	<1	0.12
RMD-260	GRAB	11111 Horseshoe Way	12-Dec-12	0.64	<1	<2	7	<1	0.19
RMD-259	GRAB	10020 Amethyst Ave.	12-Dec-12	0.66	<1	<2	7	<1	0.17
RMD-266	GRAB	9380 General Currie Rd.	12-Dec-12	0.65	<1	<2	7	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	12-Dec-12	0.58	<1	<2	8	<1	0.13
RMD-258	GRAB	7000 Blk. Dyke Rd.	12-Dec-12	0.57	<1	<2	8	<1	0.13
RMD-257	GRAB	6640 Blundell Rd.	12-Dec-12	0.69	<1	<2	6	<1	0.12
RMD-204	GRAB	3180 Granville Ave.	14-Dec-12	0.58	<1	<2	7	<1	0.43
RMD-206	GRAB	4251 Moncton St.	14-Dec-12	0.61	<1	<2	7	<1	0.13
RMD-216	GRAB	11080 No. 2 Rd.	14-Dec-12	0.57	<1	<2	5	<1	0.11
RMD-212	GRAB	Opp. 8600 Ryan Rd.	14-Dec-12	0.56	<1	<2	6	<1	0.14
RMD-208	GRAB	13200 No. 4 Rd.	14-Dec-12	0.69	<1	<2	5	<1	0.09
RMD-205	GRAB	13851 Steveston Hwy.	14-Dec-12	0.41	<1	<2	6	<1	0.17
RMD-202	GRAB	1500 Valemont Way	14-Dec-12	0.65	<1	<2	7	<1	0.25
RMD-214	GRAB	11720 Westminster Hwy.	14-Dec-12	0.4	<1	<2	5	<1	0.12
RMD-267	GRAB	17240 Fedoruk	14-Dec-12	0.5	<1	<2	7	<1	0.2
RMD-249	GRAB	23000 Blk. Dyke Rd.	14-Dec-12	0.68	<1	<2	6	<1	0.27
RMD-276	GRAB	22271 Cochrane Drive	14-Dec-12	0.51	<1	<2	7	<1	0.23
RMD-275	GRAB	5180 Smith Cres.	14-Dec-12	0.49	<1	<2	7	<1	0.2
RMD-203	GRAB	23260 Westminster Hwy.	14-Dec-12	0.7	<1	<2	6	<1	0.21
RMD-251	GRAB	5951 McCallan Rd.	17-Dec-12	0.62	<1	2	7	<1	0.13
RMD-250	GRAB	6071 Azure Rd.	17-Dec-12	0.54	<1	4	8	<1	0.11
RMD-271	GRAB	3800 Cessna Drive	17-Dec-12	0.57	<1	<2	6	<1	0.09
RMD-272	GRAB	751 Catalina Cres.	17-Dec-12	0.59	<1	2	7	<1	0.1
RMD-255	GRAB	6000 Blk. Miller Rd.	17-Dec-12	0.67	<1	<2	5	<1	0.38
RMD-256	GRAB	1000 Blk. McDonald Rd.	17-Dec-12	0.59	<1	<2	6	<1	0.13
RMD-254	GRAB	5300 No. 3 Rd.	17-Dec-12	0.53	<1	<2	6	<1	0.12

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-270	GRAB	8200 Jones Rd.	17-Dec-12	0.66	<1	<2	7	<1	0.13
RMD-269	GRAB	14951 Triangle Rd.	17-Dec-12	0.52	<1	<2	6	<1	0.08
RMD-253	GRAB	11051 No. 3 Rd.	17-Dec-12	0.63	<1	<2	5	<1	0.09
RMD-274	GRAB	10920 Springwood Court	17-Dec-12	0.55	<1	<2	8	<1	0.09
RMD-252	GRAB	9751 Pendleton Rd.	17-Dec-12	0.52	<1	<2	7	<1	0.09
RMD-273	GRAB	Opp. 8331 Fairfax Place	17-Dec-12	0.48	<1	<2	8	<1	0.16
RMD-263	GRAB	12560 Cambie Rd.	19-Dec-12	0.77	<1	<2	6	<1	0.23
RMD-264	GRAB	13100 Mitchell Rd.	19-Dec-12	0.71	<1	<2	5	<1	0.14
RMD-277	GRAB	Opp. 11280 Twigg Place	19-Dec-12	0.7	<1	<2	6	<1	0.15
RMD-262	GRAB	13799 Commerce Pkwy.	19-Dec-12	0.51	<1	<2	7	<1	0.14
RMD-278	GRAB	6651 Fraserwood Place	19-Dec-12	0.25	<1	<2	8	<1	0.22
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	19-Dec-12	0.59	<1	<2	6	<1	0.1
RMD-261	GRAB	9911 Sidaway Rd.	19-Dec-12	0.43	<1	2	8	<1	0.12
RMD-260	GRAB	11111 Horseshoe Way	19-Dec-12	0.9	<1	<2	6	<1	0.31
RMD-259	GRAB	10020 Amethyst Ave.	19-Dec-12	0.81	<1	<2	6	<1	0.19
RMD-266	GRAB	9380 General Currie Rd.	19-Dec-12	0.79	<1	<2	6	<1	0.19
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	19-Dec-12	0.88	<1	<2	7	<1	0.24
RMD-258	GRAB	7000 Blk. Dyke Rd.	19-Dec-12	0.92	<1	<2	6	<1	0.21
RMD-257	GRAB	6640 Blundell Rd.	19-Dec-12	0.89	<1	<2	5	<1	0.27
RMD-204	GRAB	3180 Granville Ave.	21-Dec-12	0.85	<1	4	6	<1	0.29
RMD-206	GRAB	4251 Moncton St.	21-Dec-12	0.71	<1	<2	7	<1	0.23
RMD-216	GRAB	11080 No. 2 Rd.	21-Dec-12	0.74	<1	<2	7	<1	0.35
RMD-212	GRAB	Opp. 8600 Ryan Rd.	21-Dec-12	0.92	<1	<2	6	<1	0.39
RMD-208	GRAB	13200 No. 4 Rd.	21-Dec-12	0.77	<1	<2	5	<1	0.4
RMD-205	GRAB	13851 Steveston Hwy.	21-Dec-12	0.67	<1	4	5	<1	0.09
RMD-202	GRAB	1500 Valemont Way	21-Dec-12	0.63	<1	10	6	<1	0.08
RMD-214	GRAB	11720 Westminster Hwy.	21-Dec-12	1	<1	<2	5	<1	0.41
RMD-267	GRAB	17240 Fedoruk	21-Dec-12	0.46	<1	<2	5	<1	0.08
RMD-249	GRAB	23000 Blk. Dyke Rd.	21-Dec-12	0.56	<1	54	6	<1	0.07
RMD-276	GRAB	22271 Cochrane Drive	21-Dec-12	0.57	<1	2	7	<1	0.07
RMD-275	GRAB	5180 Smith Cres.	21-Dec-12	0.61	<1	2	6	<1	0.09
RMD-203	GRAB	23260 Westminster Hwy.	21-Dec-12	0.7	<1	4	5	<1	0.1
RMD-263	GRAB	12560 Cambie Rd.	27-Dec-12	0.71	<1	NA	4	<1	0.25
RMD-264	GRAB	13100 Mitchell Rd.	27-Dec-12	0.7	<1	NA	5	<1	0.09
RMD-277	GRAB	Opp. 11280 Twigg Place	27-Dec-12	0.47	<1	NA	7	<1	0.23
RMD-262	GRAB	13799 Commerce Pkwy.	27-Dec-12	0.66	<1	NA	5	<1	0.21
RMD-278	GRAB	6651 Fraserwood Place	27-Dec-12	0.48	<1	NA	6	<1	0.19
RMD-279	GRAB	Opp. 20371 Westminster Hwy.	27-Dec-12	0.82	<1	NA	6	<1	0.21

Sample Name	Sample Type	Sample Reported Name	Sampled Date	Chlorine Free mg/L	Ecoli MF/100mLs	HPC CFU/mls	Temperature °C	Total Coliform MF/100mLs	Turbidity NTU
RMD-261	GRAB	9911 Sidaway Rd.	27-Dec-12	0.63	<1	NA	5	<1	0.13
RMD-260	GRAB	11111 Horseshoe Way	27-Dec-12	0.63	<1	NA	4	<1	0.14
RMD-259	GRAB	10020 Amethyst Ave.	27-Dec-12	0.75	<1	NA	5	<1	0.14
RMD-266	GRAB	9380 General Currie Rd.	27-Dec-12	0.63	<1	NA	4	<1	0.11
RMD-268	GRAB	13800 No. 3 Rd. (off Garden City)	27-Dec-12	0.54	<1	NA	5	<1	0.14
RMD-258	GRAB	7000 Blk. Dyke Rd.	27-Dec-12	0.59	<1	NA	5	<1	0.15
RMD-257	GRAB	6640 Blundell Rd.	27-Dec-12	0.58	<1	NA	4	<1	0.1
RMD-204	GRAB	3180 Granville Ave.	28-Dec-12	0.68	<1	NA	4	<1	0.17
RMD-206	GRAB	4251 Moncton St.	28-Dec-12	0.62	<1	NA	6	<1	0.12
RMD-216	GRAB	11080 No. 2 Rd.	28-Dec-12	0.6	<1	NA	4	<1	0.15
RMD-212	GRAB	Opp. 8600 Ryan Rd.	28-Dec-12	0.64	<1	NA	5	<1	0.08
RMD-208	GRAB	13200 No. 4 Rd.	28-Dec-12	0.7	<1	NA	4	<1	0.08
RMD-205	GRAB	13851 Steveston Hwy.	28-Dec-12	0.66	<1	NA	4	<1	0.1
RMD-202	GRAB	1500 Valemont Way	28-Dec-12	0.67	<1	NA	4	<1	0.2
RMD-214	GRAB	11720 Westminster Hwy.	28-Dec-12	0.64	<1	NA	3	<1	0.14
RMD-267	GRAB	17240 Fedoruk	28-Dec-12	0.61	<1	NA	5	<1	0.17
RMD-249	GRAB	23000 Blk. Dyke Rd.	28-Dec-12	0.81	<1	NA	5	<1	0.42
RMD-276	GRAB	22271 Cochrane Drive	28-Dec-12	0.77	<1	NA	5	<1	0.2
RMD-275	GRAB	5180 Smith Cres.	28-Dec-12	0.69	<1	NA	5	<1	0.19
RMD-203	GRAB	23260 Westminster Hwy.	28-Dec-12	0.83	<1	NA	4	<1	0.19

APPENDIX 3: CITY OF RICHMOND S.C.A.D.A AND PRESSURE TESTING SITES

	STATION NAME	STATION TYPE	INSTALLATION
216	SHELL & STEVESTON PRV	WATER PRV	PERMANENT
217	NELSON & BLUNDELL PRV	WATER PRV	PERMANENT
218	SHELL & BLUNDELL PRV	WATER PRV	PERMANENT
219	SHELL & WILLIAMS PRV	WATER PRV	PERMANENT
220	SHELL & BIRD PRV	WATER PRV	PERMANENT
251	NELSON & WESTMINSTER PRV	WATER PRV	WIP
252	FERGUSON PRV	WATER PRV	PERMANENT
253	GRAUER PRV	WATER PRV	PERMANENT
254	OAK STREET PRV	WATER PRV	PERMANENT
	NELSON NORTH PRV	WATER PRV	PERMANENT
	CAMBIE PRV	WATER PRV	NO SCADA
	OAK & RIVER	WATER PRV	NO SCADA
	SHELL & MONTEITH	WATER PRV	NO SCADA
	SHELL & WESTMINSTER	WATER PRV	NO SCADA
1	PRESSURE SITES		
5	QUEENSBOROUGH	DRAINAGE	PERMANENT
40	NO 6 ROAD SOUTH	DRAINAGE	PERMANENT
48	STEVESTON	SANI PUMPS	PERMANENT
80	BARNARD	SANI PUMPS	PERMANENT
106	LYNAS	SANI PUMPS	PERMANENT
167	BRIGHOUSE	SANI PUMPS	PERMANENT
206	EDGEMERE	SANI PUMPS	PERMANENT
42	GRAYBAR	SANI PUMPS	PERMANENT
110	RICHMOND PARK	SANI PUMPS	PERMANENT
174	LESLIE	SANI PUMPS	PERMANENT
189	SIMPSON	SANI PUMPS	PERMANENT
193	BURROWS	SANI PUMPS	PERMANENT
190	BURKEVILLE	SANI PUMPS	PERMANENT
119	TWIGG	SANI PUMPS	PERMANENT
180	RICHMOND CENTRE	SANI PUMPS	PERMANENT
89	WOODHEADEAST	SANI PUMPS	PERMANENT
122	MAPLE	SANI PUMPS	PERMANENT
	ROBINSON	SANI PUMPS	PERMANENT

APPENDIX 4: CITY OF RICHMOND WATER SAMPLING SITES

	SAMPLING STATION NUMBER	WATER SAMPLING SITES
MONDAY	RMD-202	1500 Valemont Way
	RMD-203	23260 Westminster Highway
	RMD-204	3180 Granville Avenue
	RMD-205	13851 Steveston Highway
	RMD-206	4251 Moncton Street
	RMD-208	13200 No. 4 Road
	RMD-212	Opposite 8600 Ryan Road
	RMD-214	11720 Westminster Highway
	RMD-216	11080 No. 2 Road
	RMD-267	17240 Fedoruk Road
	RMD-275	5180 Smith Crescent
	RMD-276	22271 Cochrane Drive
TUESDAY	RMD-257	6640 Blundell Road
	RMD-258	7000 Blk. Dyke Road
	RMD-259	10020 Amethyst Avenue
	RMD-260	11111 Horseshoe Way
	RMD-261	9911 Sidaway Road
	RMD-262	13799 Commerce Pkwy
	RMD-263	12560 Cambie Road
	RMD-264	13100 Mitchell Road
	RMD-266	9380 General Currie Road
	RMD-268	13800 No. 3 Road
	RMD-277	Opp. 11280 Twigg Place
	RMD-278	6651 Fraserwood Place
WEDNESDAY	RMD-279	Opp. 20371 Westminster Highway
	RMD-249	23000 Block Dyke Road
	RMD-250	6071 Azure Road
	RMD-251	5951 McCallan Road
	RMD-252	9751 Pendleton Road
	RMD-253	11051 No. 3 Road
	RMD-254	5300 No. 3 Road
	RMD-255	6000 Blk. Miller Road
	RMD-256	1000 Blk. McDonald Road
	RMD-269	14951 Triangle Road
	RMD-270	8200 Jones Road
	RMD-271	3800 Cessna Drive
	RMD-272	751 Catalina Crescent
	RMD-273	Opp. 8331 Fairfax Place
	RMD-274	10920 Springwood Court

APPENDIX 5: 2012 THM AND HAA TEST RESULTS

2nd QUARTER RMD RESULTS

Sample Name		Sampled Date	THM (ppb)						HAA (ppb)						Extras
			Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes		Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	
RMD-250	6071 Azure Rd.	2012-05-09	<1	<1	<1	32	32		<0.5	14	<1	16	19	49	
RMD-251	5951 McCallan Rd.	2012-05-09	<1	<1	<1	30	30		<0.5	17	<1	28	22	68	
RMD-258	7000 Blk. Dyke Rd.	2012-05-09	<1	<1	<1	28	28		<0.5	15	<1	9	20	44	
RMD-259	10020 Amethyst Ave.	2012-05-09	<1	<1	<1	26	26		<0.5	12	<1	9	15	35	7.1
RMD-250	6071 Azure Rd.	2012-08-27	<1	<1	<1	44	44		<0.5	25	<1	<2	42	67	
RMD-251	5951 McCallan Rd.	2012-08-27	<1	<1	<1	40	40		<0.5	26	<1	2	43	72	
RMD-258	7000 Blk. Dyke Rd.	2012-08-27	<1	<1	<1	45	45		<0.5	21	<1	<2	56	77	
RMD-259	10020 Amethyst Ave.	2012-08-27	<1	<1	<1	39	39		<0.5	26	<1	<2	42	68	6.5

2nd QUARTER RMD RUNNING

Sample Name	Sampled Date	THM (ppb)							HAA (ppb)						
		Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes	Total THM Quarterly Average		Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	Total HAA Quarterly Average
RMD-250	2010-11-24	<1	<1	<1	26	26			<0.5	18	<1	15	29	62	
RMD-250	2011-02-17	<1	<1	<1	18	18			<0.5	8	<1	5	12	25	
RMD-250	2011-05-11	<1	<1	<1	29	29.1			<0.5	14	<1	16	15	45	
RMD-250	2011-09-12	<1	<1	<1	47	46.7	30		<0.5	23	<1	16	26	66	49
RMD-250	2011-11-14	<1	<1	<1	27	26.7	30		<0.5	14	<1	19	10	44	45
RMD-250	2012-02-27	<1	<1	<1	15	15	29		<0.5	8	<1	6	9	23	44
RMD-250	2012-05-09	<1	<1	<1	32	32	30		<0.5	14	<1	16	19	49	45
RMD-251	2010-11-24	<1	<1	<1	26	26			<0.5	20	<1	22	27	69	
RMD-251	2011-02-17	<1	<1	<1	16	16			<0.5	9	<1	6	8	24	
RMD-251	2011-05-11	<1	<1	<1	25	25.3			<0.5	16	<1	17	17	50	
RMD-251	2011-09-12	<1	<1	<1	35	35	26		<0.5	26	<1	27	28	81	56
RMD-251	2011-11-14	<1	<1	<1	26	26.1	26		<0.5	12	<1	12	11	34	47
RMD-251	2012-02-27	<1	<1	<1	15	15	25		<0.5	7	<1	5	8	20	46
RMD-251	2012-05-09	<1	<1	<1	30	30	27		<0.5	17	<1	28	22	68	51
RMD-258	2010-11-29	<1	<1	<1	25	25			<0.5	13	<1	5	22	39	
RMD-258	2011-02-17	<1	<1	<1	18	18			<0.5	7	<1	4	9	20	
RMD-258	2011-05-11	<1	<1	<1	29	28.7			<0.5	13	<1	10	17	40	
RMD-258	2011-09-12	<1	<1	<1	45	45	29		<0.5	32	<1	12	42	87	47
RMD-258	2011-11-14	<1	<1	<1	27	26.8	30		<0.5	12	<1	14	12	38	46
RMD-258	2012-02-27	<1	<1	<1	14	14	29		<0.5	12	<1	10	10	33	50
RMD-258	2012-05-09	<1	<1	<1	28	28	28		<0.5	15	<1	9	20	44	51
RMD-259	2010-11-24	<1	<1	<1	26	26			<0.5	19	<1	17	29	65	
RMD-259	2011-02-17	<1	<1	<1	16	16			<0.5	9	<1	6	9	24	
RMD-259	2011-05-11	<1	<1	<1	28	28.1			<0.5	14	<1	19	15	49	
RMD-259	2011-09-12	<1	<1	<1	38	38.2	27		<0.5	29	<1	7	42	78	54
RMD-259	2011-11-14	<1	<1	<1	23	23.3	26		<0.5	12	<1	13	10	35	46
RMD-259	2012-02-27	<1	<1	<1	15	15	26		<0.5	11	<1	9	11	30	48
RMD-259	2012-05-09	<1	<1	<1	26	26	26		<0.5	12	<1	9	15	35	45

These are the average results for the last four quarters for total Trihalomethanes and total Haloacetic Acids for individual sites. A high individual measurement would be of concern on if it caused the running average of quarterly samples to exceed the guideline value.

This monitoring is required under the Water Quality Monitoring and Reporting for the WPD and Member Municipalities. The current Canadian guidelines for Total Trihalomethanes (TTHMs) is 100µg/L (ppb) or 0.1mg/L (ppm) and for Total Haloacetic Acids (THAAs) it is 80µg/L (ppb) or 0.080mg/L (ppm); both guidelines are based on a locational running annual average of a minimum of quarterly sample taken in the distribution system.

3rd QUARTER RMD RESULTS

Sample Name		Sampled Date	THM (ppb)						HAA (ppb)						Extras
			Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes		Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	
RMD-250	6071 Azure Rd.	2012-08-27	<1	<1	<1	44	44		<0.5	25	<1	<2	42	67	
RMD-251	5951 McCallan Rd.	2012-08-27	<1	<1	<1	40	40		<0.5	26	<1	2	43	72	
RMD-258	7000 Blk. Dyke Rd.	2012-08-27	<1	<1	<1	45	45		<0.5	21	<1	<2	56	77	
RMD-259	10020 Amethyst Ave.	2012-08-27	<1	<1	<1	39	39		<0.5	26	<1	<2	42	68	6.5

3rd QUARTER RMD RUNNING

Sample Name	Sampled Date	THM (ppb)							HAA (ppb)						
		Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes	Total THM Quarterly Average		Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	Total HAA Quarterly Average
RMD-250	2011-02-17	<1	<1	<1	18	18			<0.5	8	<1	5	12	25	
RMD-250	2011-05-11	<1	<1	<1	29	29.1			<0.5	14	<1	16	15	45	
RMD-250	2011-09-12	<1	<1	<1	47	46.7			<0.5	23	<1	16	26	66	
RMD-250	2011-11-14	<1	<1	<1	27	26.7	30		<0.5	14	<1	19	10	44	45
RMD-250	2012-02-27	<1	<1	<1	15	15	29		<0.5	8	<1	6	9	23	44
RMD-250	2012-05-09	<1	<1	<1	32	32	30		<0.5	14	<1	16	19	49	45
RMD-250	2012-08-27	<1	<1	<1	44	44	30		<0.5	25	<1	<2	42	67	46
RMD-251	2011-02-17	<1	<1	<1	16	16			<0.5	9	<1	6	8	24	
RMD-251	2011-05-11	<1	<1	<1	25	25.3			<0.5	16	<1	17	17	50	
RMD-251	2011-09-12	<1	<1	<1	35	35			<0.5	26	<1	27	28	81	
RMD-251	2011-11-14	<1	<1	<1	26	26.1	26		<0.5	12	<1	12	11	34	47
RMD-251	2012-02-27	<1	<1	<1	15	15	25		<0.5	7	<1	5	8	20	46
RMD-251	2012-05-09	<1	<1	<1	30	30	27		<0.5	17	<1	28	22	68	51
RMD-251	2012-08-27	<1	<1	<1	40	40	28		<0.5	26	<1	2	43	72	49
RMD-258	2011-02-17	<1	<1	<1	18	18			<0.5	7	<1	4	9	20	
RMD-258	2011-05-11	<1	<1	<1	29	28.7			<0.5	13	<1	10	17	40	
RMD-258	2011-09-12	<1	<1	<1	45	45			<0.5	32	<1	12	42	87	
RMD-258	2011-11-14	<1	<1	<1	27	26.8	30		<0.5	12	<1	14	12	38	46
RMD-258	2012-02-27	<1	<1	<1	14	14	29		<0.5	12	<1	10	10	33	50
RMD-258	2012-05-09	<1	<1	<1	28	28	28		<0.5	15	<1	9	20	44	51
RMD-258	2012-08-27	<1	<1	<1	45	45	28		<0.5	21	<1	<2	56	77	48
RMD-259	2011-02-17	<1	<1	<1	16	16			<0.5	9	<1	6	9	24	
RMD-259	2011-05-11	<1	<1	<1	28	28.1			<0.5	14	<1	19	15	49	
RMD-259	2011-09-12	<1	<1	<1	38	38.2			<0.5	29	<1	7	42	78	
RMD-259	2011-11-14	<1	<1	<1	23	23.3	26		<0.5	12	<1	13	10	35	46
RMD-259	2012-02-27	<1	<1	<1	15	15	26		<0.5	11	<1	9	11	30	48
RMD-259	2012-05-09	<1	<1	<1	26	26	26		<0.5	12	<1	9	15	35	45
RMD-259	2012-08-27	<1	<1	<1	39	39	26		<0.5	26	<1	<2	42	68	42

These are the average results for the last four quarters for total Trihalomethanes and total Haloacetic Acids for individual sites. A high individual measurement would be of concern on if it caused the running average of quarterly samples to exceed the guideline value.

This monitoring is required under the Water Quality Monitoring and Reporting for the GVRD and Member Municipalities. The current Canadian guidelines for Total Trihalomethanes (TTHMs) is 100µg/L (ppb) or 0.1mg/L (ppm) and for Total Haloacetic Acids (THAAs) it is 80µg/L (ppb) or 0.080mg/L (ppm); both guidelines are based on a locational running annual average of a minimum of quarterly sample taken in the distribution system.

A high individual measurement would be of concern only if it caused the running average of quarterly samples to exceed the guideline value.

4th QUARTER RMD RESULTS

Sample Name		Sampled Date	THM (ppb)						HAA (ppb)							Extras
			Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes		Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid		
RMD-250	6071 Azure Rd.	2012-11-26	<1	<1	<1	23	23		<0.5	10	<1	3	11	25		
RMD-251	5951 McCallan Rd.	2012-11-26	<1	<1	<1	25	25		<0.5	11	<1	2	13	26		
RMD-258	7000 Blk. Dyke Rd.	2012-11-28	<1	<1	<1	24	24		<0.5	10	<1	3	10	23		
RMD-259	10020 Amethyst Ave.	2012-11-28	<1	<1	<1	25	25		<0.5	11	<1	2	12	25		7.2

4th QUARTER RMD RUNNING

Sample Name	Sampled Date	THM (ppb)							HAA (ppb)						
		Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes	Total THM Quarterly Average		Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	Total HAA Quarterly Average
RMD-250	2011-05-11	<1	<1	<1	29	29.1			<0.5	14	<1	16	15	45	
RMD-250	2011-09-12	<1	<1	<1	47	46.7			<0.5	23	<1	16	26	66	
RMD-250	2011-11-14	<1	<1	<1	27	26.7			<0.5	14	<1	19	10	44	
RMD-250	2012-02-27	<1	<1	<1	15	15	29		<0.5	8	<1	6	9	23	44
RMD-250	2012-05-09	<1	<1	<1	32	32	30		<0.5	14	<1	16	19	49	45
RMD-250	2012-08-27	<1	<1	<1	44	44	30		<0.5	25	<1	<2	42	67	46
RMD-250	2012-11-26	<1	<1	<1	23	23	29		<0.5	10	<1	3	11	25	41
RMD-251	2011-05-11	<1	<1	<1	25	25.3			<0.5	16	<1	17	17	50	
RMD-251	2011-09-12	<1	<1	<1	35	35			<0.5	26	<1	27	28	81	
RMD-251	2011-11-14	<1	<1	<1	26	26.1			<0.5	12	<1	12	11	34	
RMD-251	2012-02-27	<1	<1	<1	15	15	25		<0.5	7	<1	5	8	20	46
RMD-251	2012-05-09	<1	<1	<1	30	30	27		<0.5	17	<1	28	22	68	51
RMD-251	2012-08-27	<1	<1	<1	40	40	28		<0.5	26	<1	2	43	72	49
RMD-251	2012-11-26	<1	<1	<1	25	25	27		<0.5	11	<1	2	13	26	47
RMD-258	2011-05-11	<1	<1	<1	29	28.7			<0.5	13	<1	10	17	40	
RMD-258	2011-09-12	<1	<1	<1	45	45			<0.5	32	<1	12	42	87	
RMD-258	2011-11-14	<1	<1	<1	27	26.8			<0.5	12	<1	14	12	38	
RMD-258	2012-02-27	<1	<1	<1	14	14	29		<0.5	12	<1	10	10	33	50
RMD-258	2012-05-09	<1	<1	<1	28	28	28		<0.5	15	<1	9	20	44	51
RMD-258	2012-08-27	<1	<1	<1	45	45	28		<0.5	21	<1	<2	56	77	48
RMD-258	2012-11-28	<1	<1	<1	24	24	28		<0.5	10	<1	3	10	23	44
RMD-259	2011-05-11	<1	<1	<1	28	28.1			<0.5	14	<1	19	15	49	
RMD-259	2011-09-12	<1	<1	<1	38	38.2			<0.5	29	<1	7	42	78	
RMD-259	2011-11-14	<1	<1	<1	23	23.3			<0.5	12	<1	13	10	35	
RMD-259	2012-02-27	<1	<1	<1	15	15	26		<0.5	11	<1	9	11	30	48
RMD-259	2012-05-09	<1	<1	<1	26	26	26		<0.5	12	<1	9	15	35	45
RMD-259	2012-08-27	<1	<1	<1	39	39	26		<0.5	26	<1	<2	42	68	42
RMD-259	2012-11-28	<1	<1	<1	25	25	26		<0.5	11	<1	2	12	25	40

APPENDIX 6: CITY OF RICHMOND: 2012 HEAVY METAL TESTING RESULTS

2nd QUARTER METALS

Sample Name	Sample Description	Sampled Date	Sample Type	Aluminum 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
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
RMD-250	6071 Azure Rd.	2012-04-25 14:30	GRAB	73	<0.5	<0.5	2.3	<10	<0.2	1750	0.07	<0.5	3.7	39	0.5	143	1.1	<0.05	<0.5	<0.5	145	<0.5	<0.5	2080	3.1
RMD-257	6640 Blundell Rd.	2012-04-25 13:50	GRAB	74	<0.5	<0.5	2.6	<10	<0.2	1430	0.06	<0.5	3.7	37	0.6	172	1.6	<0.05	<0.5	<0.5	144	<0.5	<0.5	2070	<3
RMD-263	12560 Cambie Rd.	2012-04-25 13:00	GRAB	66	<0.5	<0.5	2.7	<10	<0.2	1700	0.17	<0.5	2.7	37	<0.5	165	1.8	<0.05	<0.5	<0.5	144	<0.5	<0.5	2210	<3

A report containing the data for metals analysis is done semi-annually. Copper, Iron, Lead and Zinc are the parameters that are required under the Water Quality Monitoring and Reporting Plan for the GVRD and Member Municipalities, but since the method of analysis produced other metals they are included.

4th QUARTER METALS

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Sample Name	Sample Description	Sampled Date	Sample Type	Aluminum 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
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
RMD-250	6071 Azure Rd.	2012-11-01 15:35	GRAB	43	<0.5	<0.5	2.9	<10	<0.2	3740	0.1	<0.5	34.6	29	1.9	132	4.5	<0.05	<0.5	<0.5	214	<0.5	<0.5	1640	5.8
RMD-257	6640 Blundell Rd.	2012-11-01 14:20	GRAB	31	<0.5	<0.5	3.3	<10	<0.2	3700	0.07	<0.5	3.4	7	1	166	2.2	<0.05	<0.5	<0.5	216	<0.5	<0.5	1580	5
RMD-263	12560 Cambie Rd.	2012-11-01 14:00	GRAB	38	<0.5	<0.5	3.4	<10	<0.2	3500	0.09	<0.5	3.6	16	0.6	164	4.1	<0.05	<0.5	<0.5	212	<0.5	<0.5	1880	<3

APPENDIX 7: SAMPLE DRINKING WATER QUALITY ADVISORY

CANADA LINE WATER MAIN CONSTRUCTION CLOUDY WATER NOTICE

To accommodate Canada Line construction and passage along Cambie Street, the Greater Vancouver Water District (GVWD) must re-align the Cambie - Richmond water main at 41st and 49th Avenues in Vancouver. This water main is the major source of drinking water to West Richmond.

In preparation of the re-alignment work and in collaboration with the City of Richmond, the GVWD will be conducting a supply and capacity test on the night of February 17, 2007 from 10:00 p.m. to 7:00 a.m. This test may result in turbidity (or cloudy water), discolouration or low pressure at your water taps.

These impacts are purely aesthetic. Either run taps until water becomes clear, or refrigerate drinking water ahead of time.

During this time the City of Richmond will conduct monitoring to ensure water quality. We appreciate your understanding throughout this test.

For further information on water quality or water supply, please contact the City of Richmond's Public Works Service Centre at 604-244-1262 or Public Works Dispatch at 604-270-8721.

For general information on Canada Line construction visit www.canadaline.ca, or call 604-608-0200.

APPENDIX 8: SPECIFIC EMERGENCY RESPONSE PLANS

Fecal or E. coli, Positive Response

If a water sample tests positive for fecal coliform, the following response plan will occur:

- The municipality's water quality personnel and the MHO will be notified via the Metro Vancouver laboratory.
- Interim samples from the site will be examined. (Interim samples are samples in the period between when the fecal positive sample was taken, and when it was determined to be fecal positive).
- Arrangements will be made for the immediate collection of a repeat sample (including, where possible, samples from upstream and downstream of the fecal positive sample).
- 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 occurred.
- All water utility personnel will be contacted to determine if there was any loss of pressure, or other unusual events that may have led to contaminants entering the system.
- The need for a boil water advisory will be evaluated by the City and the MHO. If a boil water advisory is deemed necessary, the municipality will carry out various means to inform the public. The Metro Vancouver will be informed of this public advisory.
- The City in consultation with the MHO will determine the need and extent for a boil water advisory.
- The Metro Vancouver Laboratory will initiate procedures to identify species of the fecal positive organism with standard biochemical tests.
- The MHO will be contacted with the repeat sample results and the results of the species identification on the fecal positive sample when these tests are complete.

In the event of possible E. coli or Fecal Coliform contamination all steps to ensure public health and safety will be taken including, if necessary, banning water usage.

Chemical or Biological Contamination Response

In the event of chemical or biological contamination, in source waters or the city's distribution system, the following actions will be taken by both the City of Richmond and Metro Vancouver:

- Immediately notify the regional health authority.
- Identify the chemical and any public health risk factors associated with its presence in potable water.
- Isolate the contaminated zone area and determine the level of contamination.
- Issue a public advisory in consultation with the MHO.

In the event of possible biological or chemical contamination all steps to safety will be taken to ensure public health including, if necessary, banning water usage.

Turbidity Response

Turbidity (cloudy water) occurs during periods of heavy rain at/around GVWD water sources. Following completion of the Seymour-Capilano Filtration project the number of turbidity events should be reduced. The City of Richmond in conjunction with the Regional Health Authority has developed a turbidity response plan which considers the City's responsibility for due diligence without unreasonably constraining the water utility's ability to operate the system.

During turbidity events of >1 NTU the staff will:

- Begin a rigorous sampling program for microbiological activity and residual chlorine.
- Monitor the City's S.C.A.D.A. system with updates sent to the regional Health Authority on a predetermined schedule.
- Issue a public communication in consultation with the regional Health Authority.
- If necessary, issue a "boil water advisory" will be issued to residents receiving turbid water.

Response to Interruption of Primary and/or Secondary Disinfection

Upon notification by Metro Vancouver Operations that an interruption in disinfection has occurred:

- Staff will monitor residual levels of chlorine at strategic locations in the Metro Vancouver supply area.
- The City's S.C.A.D.A. system will be monitored with updates sent to the regional Health Authority on a predetermined schedule, as set by the Health Authority.
- In cases where chlorine residual is less than 0.2 ppm, city crews will flush the affected area until an acceptable level is achieved.
- These actions will continue until disinfection is resumed and adequate levels of residual chlorine have been reached in the distribution system.

Response to Loss of Pressure Due to High Demand

In the event of a pressure loss due to high demand:

- City staff will attempt to rectify the problem as soon as possible using various demands management techniques and by supplementing supply to problem areas.
- The Metro Vancouver and the MHO will be notified, and updated concerning any water quality issues.
- City staff will perform chlorine residual tests at various locations to determine if adequate disinfectant is present in the distribution.
- All water quality complaints from the public will be thoroughly investigated due to the potential for water contamination during low water pressure.

Response to Water Main Breaks with Suspected Contamination

All water main breaks where chemical or microbiological contamination of the system is suspected will be immediately reported to the MHO. The municipality will isolate the contaminated section from the rest of the distribution system. Once the water main has been repaired, chlorine residual testing will be conducted at various locations affected by the main break. If low chlorine residuals are found, necessary actions to increase the levels of free chlorine will be carried out. If bacterial contamination is suspected, water samples will be taken and appropriate action taken.



City of Richmond

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www.richmond.ca

PWT - 126



City of Richmond

Report to Committee

To: Public Works and Transportation Committee

Date: June 11, 2013

From: John Irving, P.Eng, MPA
Director, Engineering

File:

Re: Energy Resource Management Plan for Corporate Buildings

Staff Recommendation

1. That the High Performance Building Policy No. 2306 be updated to include specific emphasis on corporate energy and GHG emissions targets and conservation priorities that reduce long term energy consumption and operational costs.
2. That staff report back to Council with the updated High Performance Building Policy No. 2306.

John Irving, P.Eng, MPA
Director, Engineering
(604-276-4140)

REPORT CONCURRENCE	
CONCURRENCE OF GENERAL MANAGER	
REVIEWED BY DIRECTORS	INITIALS: DW
REVIEWED BY CAO	INITIALS: GD

Staff Report

Origin

As part of the Corporate Energy Management Program (EMP) and in support of the following Council Term Goal, a Resource Management Plan – Buildings Energy Use was commissioned to estimate the projected energy demand from corporate buildings over the next twenty years:

Council Term Goal #8.1: “Continued implementation and significant progress towards achieving the City’s Sustainability Framework, and associated targets.”

The EMP is a key contributor to achieving the Sustainability Framework Goals of a Sustainable Resource Use-Energy Smart City and Climate Prepared City. In addition, the program supports the significant progress made in the realizing of the Energy Sustainability Strategic Program Implementation Plan endorsed by Council on July 26, 2010. The Resource Management Plan examined the potential impacts to corporate energy use for buildings over the next twenty years from facility growth or expanded operational hours that may result from expected population growth. In addition, costs and benefits from implementing energy reduction, efficiency, and displacement strategies were quantified.

Background

Through continuing Council support, the City’s Energy Management Program has been very successful at reducing energy use and GHG emissions from corporate buildings. For its efforts, the City has been consistently recognized by BC Hydro as a Power Smart Leader. Since 2007 approximately 5.6 GWh (5,600,000 kWh) of energy has been saved through various corporate projects, which amounts to over \$1,000,000 in total operational cost avoidance. The energy savings has helped to reduce corporate energy costs and GHG emissions by approximately 1,200 tonnes of CO₂e (equal to taking approximately 400 cars off of Richmond roads). During this period, the City received approximately \$1,000,000 in external funding to help support its EMP.

As outlined in the Sustainability Framework, one of the targets from the Energy Sustainability Strategic Program is to develop a Corporate Energy and Emissions Plan. For most energy and emissions plans the establishment of reduction targets is one of its main components. As energy use in corporate buildings accounts for a majority of the overall corporate energy use and emissions, it was decided that this Resource Management Plan would focus solely on corporate buildings as a first step to support the development of an overall corporate energy and emissions plan.

For civic buildings, the City adheres to the Corporate High Performance Building Policy (No. 2306), which established the Leadership in Energy and Environmental Design (LEED) rating system as the measurement tool for new buildings and major renovations. This policy requires that new buildings over 2,000 m² target a LEED Gold level and new buildings under 2,000 m² target a LEED Silver level. Since the adoption of the High Performance Building Policy, tangible results have been evident with exceptionally well designed new and renovated civic buildings, and high levels of incorporation of energy efficient technologies.

Findings of Fact

The Resource Management Plan was completed for two main purposes:

1. Determine an anticipated energy use reference baseline (“business as usual case”) for corporate buildings, based on maintaining the current per capita service level at civic facilities over the next 20 years, and;
2. Analyse and quantify the cost and benefits of different energy reduction, efficiency, and displacement strategies for our existing and new capital infrastructure.

Key Findings

Establishing a Forecast Baseline: Projected Growth in Energy Demand (without Mitigation)

A key driver for future energy demand relates to facility requirements that result from anticipated population growth over the next 20 years. Assuming that current service levels are maintained over that period, additional facilities may be needed and/or operating hours at existing facilities will need to be expanded. Based on projected requirements identified in the analysis, energy use is projected to increase by 28% by 2020 and 46% by 2031 (energy use baseline forecast), as compared to the City’s 2007 to 2009 energy use average (baseline service level value). The baseline forecast assumes there are no mitigation measures in place beyond what is already projected through standard equipment efficiency gains and increasing building energy performance requirements through known changes to codes and standards.

Without mitigation, operational energy costs for buildings would be expected to increase to \$4.7 million by 2020 from the current \$3.6 million (2013 dollars). In addition, greenhouse gas emissions related to building energy use would be expected to increase by 22% to 7,300 tonnes of CO₂e by 2020 as compared to the baseline 2007-2009 average building emissions of 6,000 tonnes of CO₂e.

Mitigating Growth in Energy Demand: Assessing Measures to Reduce Energy Use

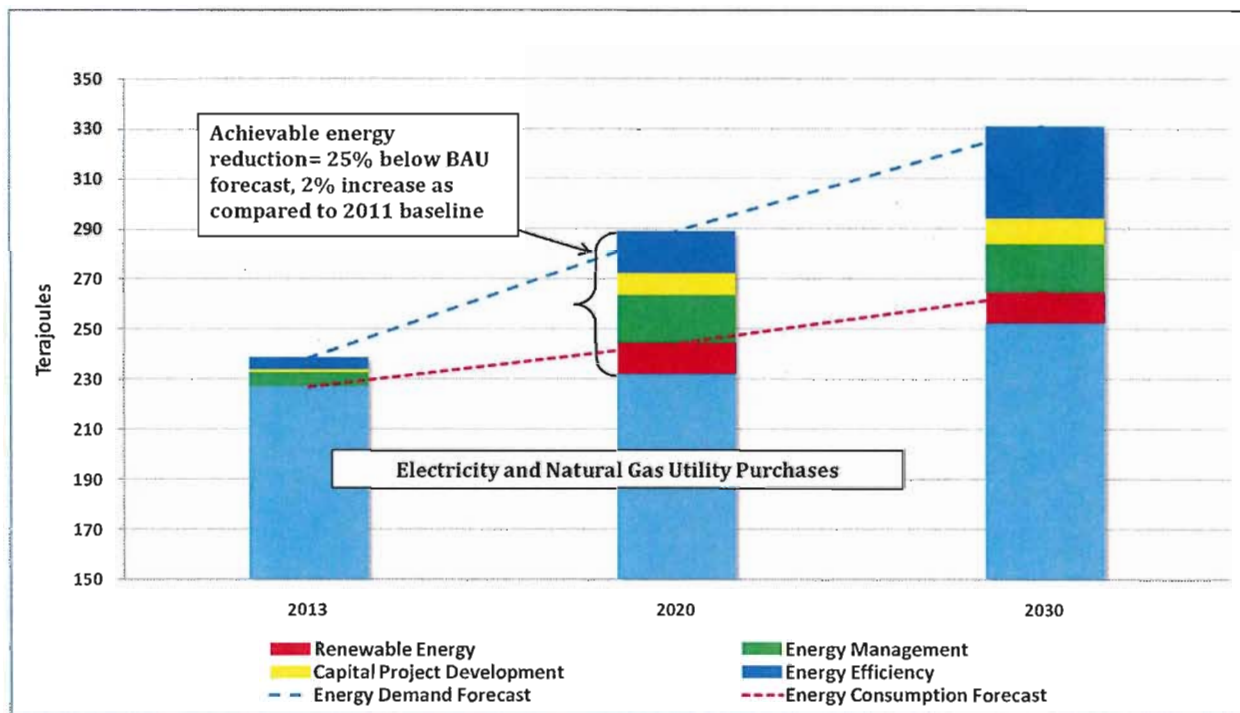
Increased energy demand can be met through increased conventional energy utility purchases (electricity and natural gas), mitigated through energy efficiency, reduction, and renewable energy initiatives, or a combination. To mitigate growth in corporate building energy consumption, the following measures were examined to determine the impacts of corporate building energy use and operational costs:

1. Energy Management - refers to the best practice management of corporate facilities to integrate opportunities for improvements to energy use in all aspects of the City’s corporate and operational matters.
2. Energy Efficiency Equipment - refers to the regular replacement and maintenance of fixtures and equipment managed by the City’s Facilities Department, with more efficient fixtures and equipment above business as usual efficiency gains (i.e. replacement of near or end of life equipment with the highest efficiency replacement possible beyond what would be considered a standard replacement).

3. Efficiency Improvement Capital Projects – refers to new construction and large retrofit projects where the energy performance goals will be to exceed national and provincial building codes and standards.
4. Renewable Energy – refers to the integration of renewable energy at potential capital building projects.

With continued support and development in each of the energy related reduction strategies, it was estimated that a total reduction of 58 terajoules (TJ) (equal to 25% of today's corporate building energy use – 230 TJ) and 2,000 tonnes of carbon dioxide equivalent (CO₂e) (equal to taking approximately 600 vehicles off the road annually) could be realized by 2020. By 2031 a total reduction of 80 TJ (equal to 35% of today's corporate building energy) and 2,800 tonnes of CO₂e could be realized (equal to taking approximately 850 vehicles off the road annually). The following graph illustrates the reference "business as usual" corporate energy demand profile and the impact of each energy related reduction strategies.

Fig.1 – Energy Consumption Forecast and City Energy Resources to 2031



The Resource Management Plan highlighted that the projected growth in building energy consumption can be reduced from 28% by 2020 and 46% by 2031 to 2% by 2020 and 10% by 2031, if energy related reduction strategies are implemented. The corresponding GHG emissions reductions from the energy related reduction strategies are an 11% reduction by 2020 and a 13% reduction by 2031 from the 2007-2009 average baseline value.

In 2013 dollars, the expected operational cost avoidance savings from implementing fully the four energy related strategies by 2020 would be approximately \$850,000 annually. The estimated capital cost for three of the four strategies (Energy Management, Energy Efficient Equipment, and Efficiency Improvement Capital Projects) to obtain this level of cost savings is approximately \$3.8 million dollars. Implementation costs for renewable energy integration were

not included in the capital cost estimate as it is anticipated that these costs would be included in the construction project costs. Potential implementation costs would also be greatly influenced by the final new building design and mechanical system configuration, and by the final renewable energy system chosen.

A key role of the EMP is supporting the City in reducing its corporate energy use and GHG emissions. To date, energy consumption reductions have been achieved through implementing a range of retrofit projects where there was a relatively short payback period. Going forward, those projects will be increasingly difficult to develop. A critical step needed to further support continued corporate energy and GHG emissions reduction is the establishment of building specific energy and GHG emissions targets for new capital projects and existing buildings. This will ensure that energy reduction and related GHG emissions remain a focus throughout design, construction and/or maintenance processes to achieve optimized building energy performance and maximize cost avoidance.

Setting a Target: Building Energy Use

The Resource Management Plan indicated that reducing corporate building energy use from the baseline forecasted amount by 26% by 2020 is achievable, but will represent an overall 2% increase in building energy use as compared to the City's current facilities energy consumption of approximately 230 TJ. Energy reduction strategies to achieve the anticipated energy savings represent the most cost effective way to mitigate the significant potential increase in corporate building energy use and operational cost.

It is anticipated that building specific targets, along with targets for fleet which are currently under development and other energy using City assets (pumps and lighting), will combine to generate corporate-wide energy and GHG emission reduction targets. Staff are developing a corporate-wide target for energy reduction and GHG reductions to present to Council in a separate report to support the City's goal of working towards carbon neutrality.

Reporting: Performance Monitoring

In support of developing a plan and monitoring progress, staff are in the process of upgrading the energy database system that tracks corporate usage to allow for more timely and accurate communication of energy use information with corporate stakeholders (e.g. quarterly energy use information reports for community centres).

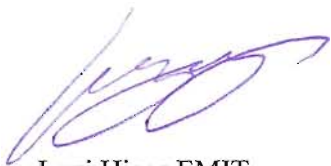
Financial Impact

None at this time. Capital projects related to energy management, as well as other energy related strategies discussed in this report, are reviewed and approved by Council as part of the capital budget process.

Conclusion

Projected growth in energy demand and GHG emissions from corporate buildings to accommodate the anticipated growth in population can be mitigated. Investments in improvements to the energy efficiency of new equipment, energy performance of new capital infrastructure, and energy management and renewable energy integration can have a dramatic effect on future energy use and operational cost.

As corporate energy efficiency and GHG emissions reduction have been key Council and corporate priorities over the last ten years and longer, and considerable work has been already undertaken to improve the energy efficiency of all of civic buildings, strong business case energy management projects are becoming more challenging to develop. Easily identifiable projects with shorter paybacks have been mostly completed. New project opportunities are proving to have diminishing payback as compared to projects completed to date. Future corporate energy reductions are more likely to be derived from capital infrastructure replacement projects, continued operational improvements, major equipment upgrades and renewable energy integration, which require more resources than the previous energy management retrofits required in existing buildings. Updating the High Performance Buildings Policy with more specific energy and GHG emissions reduction targets will support continued improvement by transitioning the main driver for corporate energy efficiency from strong business cases to target achievement.



Levi Higgs EMIT
Corporate Energy Manager
(604-244-1239)



Peter Russell MCIP, RPP
Senior Manager, Sustainability & District Energy
(604-276-4130)



City of Richmond

Report to Committee

To: Public Works and Transportation Committee
From: Tom Stewart
Director, Public Works
Re: National Public Works Week - Update


Date: June 3, 2013
File: 10-6000-01/2013-Vol
01

Staff Recommendation

That the "National Public Works Week - Update" report from the Director, Public Works be received for information.

Tom Stewart, ASCT.
Director, Public Works
(604-233-3301)

Att. 1

REPORT CONCURRENCE	
CONCURRENCE OF GENERAL MANAGER 	
REVIEWED BY DIRECTORS	INITIALS: DW
REVIEWED BY CAO	INITIALS: GI

Staff Report

Origin

The Canadian Public Works Association's annual National Public Works Week was held May 19-25, 2013. The events hosted by the City are well attended by the community and school children.

Background

Municipalities celebrate National Public Works Week with open houses, tours, school and educational events and displays of public works equipment. The City recognized National Public Works week through a proclamation outlining the following areas:

- Public Works services provided in our community are an integral part of our citizens everyday lives
- The support of an understanding and informed citizenry is vital to the efficient operation of Public Works systems and programs such as water, sewers, streets and highways, public buildings and solid waste collection
- The health, safety and comfort of this community greatly depends on these facilities and services
- The quality and effectiveness of these facilities, as well as their planning, design and construction, is vitally dependent upon the efforts and skill of Public Works officials
- The efficiency of the qualified and dedicated personnel who staff Public Works Departments is materially influenced by the people's attitude and understanding of the importance of the work they perform

The City recognized National Public Works week by hosting three significant events. On Thursday, May 16, 2013, staff hosted an event for Public Works employees and in partnership with CUPE 394, two \$500.00 scholarships were awarded to grade 12 trades program students.

The second event was the annual Open House at the Works Yard which was held on Saturday, May 25, 2013. This year's Open House was attended by approximately 5,000 people. The event encompassed displays and booths from Engineering and Public Works, Community Services, Community Safety, Planning and Development and several community groups. Popular displays and activities at this year's event included interactive areas where kids had a chance to get their hands dirty in concrete at the Kid-Crete area, water features where guests sprayed water at targets, a hay ride through the works yard, free compost for residents, construction of bird houses, a children's corner which included face painting, a large sandpile with sand toys and bouncy castles, Nature Park creatures on display, CUPE 394 sponsored car show, large pieces of equipment for people of all ages to climb inside, a fire obstacle course and live bands to keep everyone entertained.

Educational areas included Supervisory Control and Data Acquisition (SCADA) and Pumps displays, traffic signal booth, Closed Circuit Television (CCTV) camera truck, Community Bylaws, Emergency Services, capital programs display, samples of the new Green Cans and Neptune water meters. There were also seven vendors who offered a wide variety of foods to the public.

As this year's National Public Works Week coincided with Drinking Water Week, the City received a provincial grant to educate residents on the benefits of drinking tap water. West Richmond Community Centre's Merry King Preschool contributed artwork around the theme of drinking tap water and water conservation, and their artwork was on display at the Open House Water Education booth.

The success of the Engineering and Public Works Open House is due to the organizing committee, which is made up of staff from a number of departments. Approximately 120 staff volunteered their time to make this a successful community event. Acknowledgment also goes to staff member's family and friends, and the 46 McMath High School Leadership students who volunteered.

Project WET

The third event was Project WET (Water Education Team) held from May 27-30 at the Works Yard. Staff led groups of 25 students through 8 stations. Educational experiences included learning about water conservation, pump stations, water meters, water quality, irrigation, storm drainage, fire hydrants and valves, and leak detection. In total, staff hosted over 500 students from 16 classes and 9 schools.

Financial Impact

None. These programs are included in the operating budget.

Conclusion

City of Richmond's Engineering and Public Works Department together with Parks and Recreation and Community Safety play an active role in celebrating the annual National Public Works Week. This week serves as a reminder of the importance of these services.



Derrick Lim
Manager, Public Works Administration
(604-233-3330)



Kids get their hands dirty at Kid-crete



Interactive water display



Environmental Programs' Green Can display



Hay ride through Works Yard



Sandpile and equipment in Kids' Corner



Bird house construction



Community Bylaws



Fire equipment and obstacle course