

GOVERNMENT SERVICES COMMITTEE

Monday, July 18, 2011 5:30 p.m.

COUNCIL CHAMBERS, CITY HALL 410 ESPLANADE

Mandate - To advise Council on a broad spectrum of issues related to departmental matters

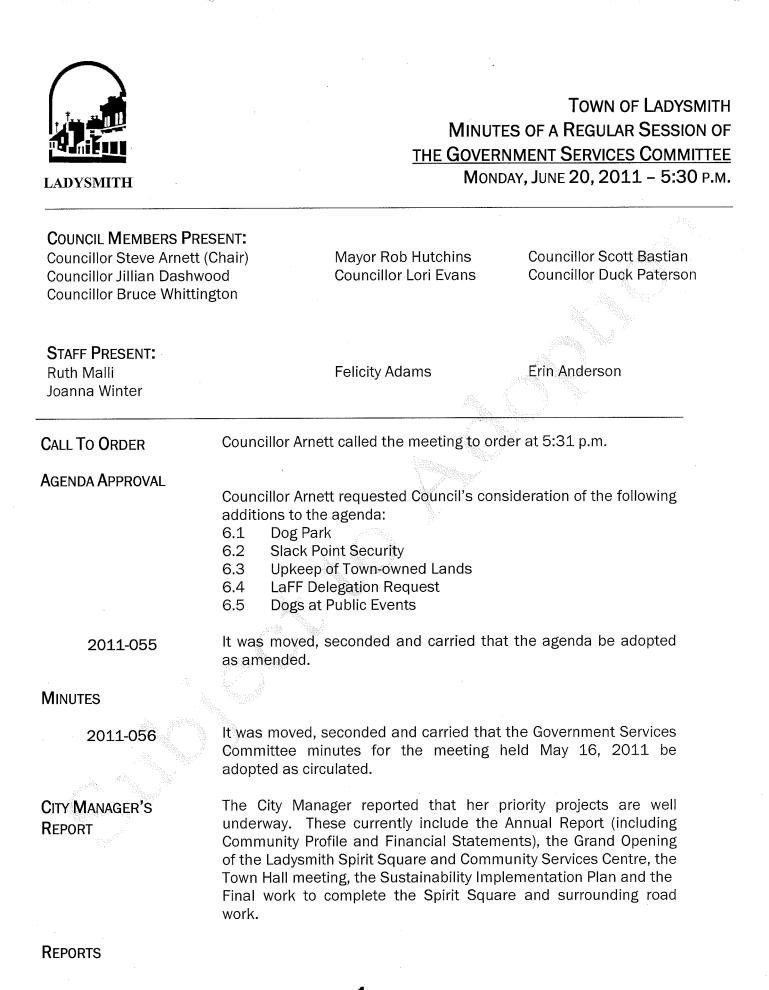
	COUNCILLOR STEVE ARNETT, CHAIR	Page
Cal	L TO ORDER	
1.	Agenda Approval	
2.	Minutes	
	2.1. June 20, 2011	1 - 3
3.	DELEGATIONS	
	3.1. Mary Lowther Proposed Moratorium on Smart Meters (Correspondence attached)	4 - 6
4.	CITY MANAGER'S REPORT	
5.	STAFF REPORTS	
	5.1. Financial Plan Update – June 2011	7 - 14
	5.2. Annual Water Report for 2010	15 - 60
	5.3. Proposed Building Bylaw Amendment – Low Consumption Toilets	61 - 63
	5.4. Building Inspector's Report – June 2011	64
	5.5. Trolley Report – June 2011	65
	5.6. Fire Chief's Report – June 2011	66
	5.7. Coastal Animal Control Services – June 2011 Pound Report	67 - 68

6. MEMBER SUBMISSIONS

- 7. CORRESPONDENCE None
- 8. New Business
- 9. UNFINISHED BUSINESS None

ADJOURNMENT

Page



Government Services Committee June 20, 2011

Financial Plan Update

It was requested that the Financial Plan report also include a summary of the status of the Town's reserve funds, and the amount of any applicable grants.

It was moved, seconded and carried that the Trolley Report for May

It was moved, seconded and carried that the Fire Chief's Report for

It was moved, seconded and carried that the Financial Plan Update 2011-057 to the end of May 2011 be received.

Building Inspector's Report for May 2011

2011-058 It was moved, seconded and carried that the Building Inspector's Report for May 2011 be received.

Trolley Report for May 2011

2011 be received.

May 2011 be received.

2011-059

2011-060

Animal Control / Pound Report for May 2011

Fire Chief's Report for May 2011

It was moved, seconded and carried that the Animal Control / 2011-061 Pound Report for May 2011 be received.

MEMBER SUBMISSIONS

2011-062

Dog Park

It was moved, seconded and carried that the Committee recommend to Council that the Parks and Recreation Commission consider the temporary use of one or more of the Ball Parks in the off-season as dog parks while the Commission is investigating an appropriate location for a fenced dog park.

2011-063

Security at Slack Point

It was moved, seconded and carried that the Committee recommend that Council request staff to consider ways to restrict recreational access to Slag Point due to the potential for fire and shoreline pollution.

Staff were requested to determine who is responsible for erecting appropriate signage.

Upkeep of Town-Owned Lands

Councillor Dashwood noted that some concerns have been expressed about the maintenance of boulevards and certain other Town properties. It was also noted that the regular maintenance schedule will be back in effect after the end of June.

2011-064

Dogs at Public Events

It was moved, seconded and carried that the Committee recommend that Council request the Ladysmith Festival of Lights and Celebrations be requested to investigate effective ways to remind people that dogs are not permitted at public events.

Ladysmith Family and Friends Delegation Request

It was suggested that Ladysmith Family and Friends contact the Town in order to request permission to appear as a delegation.

CORRESPONDENCE

2011-065

Joe Barry, Cowichan Valley Regional District

It was moved, seconded and carried that the Committee recommend that staff be requested to bring a recommendation for a revised question period procedure that incorporates the recommended Cowichan Valley Regional District policy.

Les James

Automatic Residential Sprinkler Controllers

2011-066

It was moved, seconded and carried that Les James be advised that his suggested plan for watering restriction by day has been implemented effective in June 2011.

Mayta Ryn

Request to Introduce Cat Licensing in Ladysmith

2011-067

It was moved, seconded and carried that the Committee recommend that the matter of proposed licensing of domestic cats be referred to the upcoming Town Hall meeting.

ADJOURNMENT

2011-068

CERTIFIED CORRECT

It was moved, seconded and carried that this meeting of the Government Services Committee be adjourned at 5:47 p.m.

Corporate Officer (S. Bowden)

Government Services Committee June 20, 2011

Chair (Councillor S. Arnett)

Subject: BC Hydro's smart meters

From: mary lowther []
Sent: Wed 6/29/2011 9:02 AM
To: Rob Hutchins; Steve Arnett; Scott Bastian; Jillian Dashwood; Lori Evans; Duck Paterson; Bruce Whittington
Subject: BC Hydro's smart meters

Hello,

I'm worried about the mandatory installation of "smart meters" that Hydro plans to place on every residence in BC by 2012. These wireless meters will replace our present electric meters and they will radiate radio frequency radiation all day, every day.

Cindy Sage, who has published "Sage Reports", measured these meters and found that they emit radiation many times a minute, all day and night, despite Hydro's insistence that they only send signals a few minutes each day. Please watch the video of Walter McGinnis on an interview on "Face to Face":

His interview starts just after three minutes.

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http://www.vimeo.com/24439968

Lake Cowichan town council voted last night to send a letter to the Province requesting a moratorium be placed on the installation of these meters until they can be proven safe. The authority for local governments to do this comes from the Province's own legislation under their Public Health Act, Section 23, which says that local governments are required to take action when they "become aware of health hazards or health impediments within their jurisdictions."

Colwood city council has done the same.

Yours, Mary Lowther, Mesachie Lake, BC (just outside of Lake Cowichan in Area F)

PRESENTATION REGARDING SMART METERS Prepared by Mary Lowther

I am presenting this delegation to ask Ladysmith Council to place a moratorium on the mandatory installation of "smart meters" that BC Hydro plans to implement. Mary Lowther will make the presentation on behalf of the people in Ladysmith who are concerned about "smart meters".

Preamble: BC Hydro plans to replace our present electrical meters with wireless meters on every building in BC by 2012. Hydro says these "smart meters" emit low frequency radiation a few minutes a day. Cindy Sage measured similar "smart meters" and found that spikes from signals being sent occur several times a minute. The power density of these spikes was measured at 4,000 microwatts per centimetre squared (sagereports.com). Health Canada's Safety Code 6 allows 600 microwatts per centimetre squared.

Please watch the following discussion of "smart meters" by engineer Rob States. Some of you may have already seen this video:

http://eon3emfblog.net/?p=1800

Request: Given that:

- the World Health Organization has deemed radio frequency electromagnetic radiation as class 2b carcinogenic, the same category as lead and DDT,

- "smart meters" emit radio frequency electromagnetic radiation, and

- Provincial Bill 23 – 2008 of the Public Health Act, section 83 (1) requires a local government to take action should it become "aware of a health

hazard or health impediment within its jurisdiction",

- When it comes to our health we should follow the Hippocratic Oath: "First we do no harm" by implementing the Precautionary Principle.

Colwood and Lake Cowichan Councils have both voted to present the Honourable Michael de Jong, Premier Clark and the Honourable Rich Coleman with the requirement that they put a moratorium on the installation of smart meters. We ask the Ladysmith Council to do the same. Please find attached a sample letter for reference. "Honourable Michael de Jong, Premier Clark and Honourable Mr. Coleman,

Bill 23-2008 of the Public Health Act, section 83 (1) requires a local government to take action should it become "aware of a health hazard or health impediment within its jurisdiction."

The World Health Organization announced on May 31, 2011 that radio frequency electromagnetic radiation (EMR) is a possible carcinogen to humans (Class 2B).

Given that:

- all wireless devices, including smart meters, emit EMR,

- smart meters emit EMR spikes many times a minute everyday, all day into the homes and apartments upon which they are attached,

- EMR spikes have been measured to drastically exceed the federal guidelines several meters from the smart meters (standard 600 uW/cm2 vs. measured 4000uW/cm2),

- each smart meter will send wireless signals through adjacent homes or apartments to a gathering point (often a home which collects signals from hundreds of homes) thus exposing residents to EMR from multiple smart meters all day everyday,

- people who are electromagnetically hypersensitive have reported significant health effects from EMR from smart meters,

- those with medical and/or metal implants, children, pregnant women and those with impaired immune systems are particularly vulnerable to the effects of EMR,

- explosions and fires associated with smart meters have been reported in many cases,

- harmful interference with electronic appliances, including home security devices and medical devices, has been reported in many cases where smart meters have been installed,

- when there is doubt as to a product's safety we should invoke the "Precautionary Principle": at first do no harm,

Therefore, as required by the Public Health Act, the Ladysmith City Council hereby requests that the Ministry of Energy act to protect the health of the people within Ladysmith's jurisdiction by placing an immediate moratorium on the smart meter program for this region and its residents until all health and safety issues have been addressed and the meters operate safely in all respects.

Yours truly, The Ladysmith Town Council

6

Town of Ladysmith



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STAFF REPORT

Ruth Malli, City Manager Erin Anderson, Director of Financial Services July 8, 2011

Re: Financial Update – June 2011

To:

From: Date:

File No:

RECOMMENDATION(S):

That Government Services Committee receive this report.

PURPOSE:

To update Government Service Committee on the finances for the first half of 2011.

INTRODUCTION/BACKGROUND:

One of the goals for the Finance Department for 2011 is to provide timely financial information to both the Government Services Committee and management. This is the second monthly financial report for Government Services Committee to review.

Notes & Trends

Revenues:

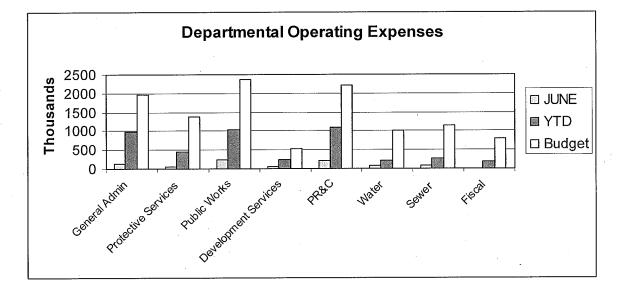
- At June 30th, 46% of property taxes were collected. This is slightly down from 2010, though the due-date was July 4th. Much of the property taxes were received (or post-dated) for the due-date.
- User Rate revenue (water, sewer & garbage fees) is expected to be on target. The latest billing was mailed out in early July, due in September.
- Additional non-conditional grant funds received from Traffic Fine Revenue Sharing and Small Communities Protection were greater than expected.
- Cemetery revenue continues to be down over last year at this time.
- Pool Rentals are lower than in previous years though overall facility rentals are greater than prior years.

Operating Expenses:

As mentioned in a previous report, it is difficult to analyze the expenses for only a portion of this year as it was a wet spring and most of the Public Works crew were working on finishing capital projects. Noted below are items in addition to previously reported expenses:

Council Training & Travel and Materials & Supplies are greater in 2011 than this period in 2010, though it is projected to be on budget by the end of the year.

- FJCC Gas/Heating is higher than this period last year and could exceed budgeted dollars by 8%.
- Theft & vandalism costs continue to increase over last year.
- Forest Field Lights & Power will be over budget. This is due to prior year setup charges being included on the first invoice received in 2011.



Other items:

- The Town's financial system, VADIM, will undergo a scheduled major upgraded in August.
- The electoral approval process for borrowing the \$1 million dollars for the water project is underway.

SCOPE OF WORK:

Individual analysis is performed by each Director.

ALTERNATIVES:

n/a

FINANCIAL IMPLICATIONS;

Keeping Council informed of the financial status of the organization.

LEGAL IMPLICATIONS;

This is a snap-shot of the Town finances for a point in time. No accruals have been made. Payments and deposits continue to be received which will change the financial figures. These statements are not audited.

CITIZEN/PUBLIC RELATIONS IMPLICATIONS:

The public is encouraged to review the report and provide comment.

INTERDEPARTMENTAL INVOLVEMENT/IMPLICATIONS:

Coordination among the various departments to ensure all revenues and expenses are allocated properly and received by the Finance Department.

RESOURCE IMPLICATIONS:

The format of this report will evolve. Additional analysis time may be required by the Finance Department.

ALIGNMENT WITH SUSTAINABILITY VISIONING REPORT:

n/a

ALIGNMENT WITH STRATEGIC PRIORITIES:

This is within the Town strategy of "Wise Financial Management".

SUMMARY:

I concur with the recommendation.

Ruth Malli, City Manager

ATTACHMENTS: Capital Projects Consolidated Statement of Operations Consolidated Statement of Financial Position Reserve balances Financial Status of Projects at June 30, 2011

	Committed			
General Capital Projects	2011 YTD	2011 BUDGET	<u>Grant</u>	<u>% complete</u>
Vehicle Replacements	43,062	\$120,000		On-going
Secondary Suite	30,236	42,000		70%
Zoning Bylaw	-	145,000	Y	0%
Waterfront Project Costs	42,234	30,000	Y	On-going
Property Sale Costs	3,965	41,600		10%
TB Bank Stabilization	-	2,000		
Park Bench/Pavers Program	8,366	-		On-going
CVRD Trail Program	20,207	20,000	Ύ	Complete
Municipal Signage Program	-	5,000		
Mosquito Sound Device	-	4,000		
FJCC Emerg Back Up	-	9,688		
Fire Equipment Replacement	-	48,186		5%
Aggie Hall Washroom Upgrade	-	15,000		
Lot 108 Playing Field	83,454	204,806	Y	41%
Lot 108 Road *	83,990	11,281		To be adjusted
RCMP Equipment	-	65,000		0%
High St Project	1,274,925	1,324,149	Y	96%
Spirit Square	632,679	553,531	Y	To be adjusted
High St Open Spaces	-	45,000	Y	
GIS Project	-	32,000	Y	
FJCC Energy Upgrade	2,147	59,000	Y	4%
Kinsmen Playground	60,043	60,000		99%
Website Upgrade	-	14,500		0%
Sustainability Visioning	11,193	71,500	Y	16%
High St Roads/Sidewalks/Storm	314,361	303,000		To be adjusted
HC Bridge Replacement	-	5,076		
LMS Second Access Road	· –	40,000		
Flume Line	-	75,000		
FJCC Corner Wall Repairs	4,595	5,400		85%
Gourlay Jane Park Tree Remove	10,480	20,000		Complete
FJCC Fitness Equipment	7,631	7,000		Complete
FJCC Improvements		9,950		0%
Skateboard Park	18,136	12,100		Complete
	2,608,642	\$3,400,767		

* the final projects costs will be re-allocated to the various funds.

		2011		%
Sewer Capital Projects	<u>2011 YTD</u>	BUDGET	Grant	complete
LMS Sewer-Contract Services	\$ -	\$17,000		
Liquid Waste Management Plan	3,205	20,000	Y	ongoing
Lift Station Upgrades	1,018	53,600		ongoing
MBBR/DAF Control Process	263,617	2,339,370	Y	ongoing
Lot 108-Sewer Services	25,435	144,200		95%
Sewer Upgrade-High St	23,148	18,700		95%
Main Upgrades (I&I)	17,845	150,000		ongoing
	334,268	\$2,742,870		

		0014		0/
Water Conital Drainate		2011		<u>%</u>
Water Capital Projects	<u>2011 YTD</u>	BUDGET	<u>Grant</u>	<u>complete</u>
Hydraulic Energy Recovery	\$ -	\$10,000	Υ	
Holland Creek Crossing	-	176,000	3 *	Tendered
LMS Water	-	35,000		
Pipeline-HC to Stocking Lake	-	10,000		
Cassidy Aquifer	2,802	15,700		15%
Facilities-Low Flow Toilets	1,650	15,000		ongoing
Central Treatment Plant	25,736	706,000	Submitted	Designing
Power Supply to Arbutus	_	200,000	Submitted	Designing
Pipeline	13,361	1,388,545	Submitted	Tendered
Stocking Lake Dam Repair	1,410	24,000		
Lot 108-Water Services	21,132	48,000	z.	95%
Water Upgrade-High St	25,128	31,850		95%
Arbutus Reservoir-Fencing		25,000		
	\$91,219	\$2,685,095		

Town Of Ladysmith Consolidated Statement of Operations For the period ended June 30, 2011

	Actual YTD 2011	Budget 2011
Revenue		
Taxes (adjusted to Municipal portion only)	7,378,804	7,375,630
Fees and charges	1,091,049	1,789,400
Return on investments	36,538	30,000
Penalty and interest on tax	7,831	115,000
Grants	1,530,278	3,608,655
Donations, contributions and contributed property	174,952	392,059
Gain (loss) on disposal of tangible capital assets	-	338,707
Development fees	-	240,000
Local area improvements	8,922	8,922
	10,228,374	13,898,373
Expenditures		4 004 700
General government services	940,600	1,964,702
Library	133,184	266,368
Protective services	495,960	1,492,683
Transportation services	443,644	1,146,255
Environmental health services	174,009	439,110
Public health	13,982	37,795
Development services	241,958	531,426
Recreation and cultural services	911,712	1,940,497
Parks operation services	268,041	627,537
Sewer	248,308	482,222
Water	208,399	474,318
Interest, net of actuarial adjustment	112,257	227,958
	4,192,054	9,630,871
Annual Surplus	6,036,321	
Prior Year Surplus	78,338,499	

Accumulated Surplus - end of year

84,374,820

Town Of Ladysmith Consolidated Statement of Financial Position As at June 30, 2011

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Financial Assets	2011	2010
Cash and short term deposits	10,720,309	\$ 10.129.101
Accounts receivable		+,.=-,.•
Accounts receivable	7,437,873	4,753,896
	18,158,183	14,882,997
Liabilities		
Accounts payable	2,363,580	2,317,293
Post-employment benefits	172,300	172,300
Deferred revenue	1,331,113	1,386,463
Restricted reserves	2,396,041	2,242,345
Refundable deposits and other	380,721	348,902
Long term debt	3,211,321	3,211,321
	9,855,077	9,678,624
Net Financial Assets	8,303,106	5,204,373
Non-Financial Assets		
Tangible Capital Assets (unamortized)	75,934,501	72,978,203
Prepaid	24,095	46,514
Inventory	113,118	109,409
	76,071,714	73,134,126
Accumulated Surplus	\$ 84,374,820	\$ 78,338,499

Reserve & Appropriated Equity Balances As at June 30, 2011

Restricted Reserves	
DCC - Water	594,235
DCC - Parks	223,629
DCC - Roads	597,286
DCC - Sewer	45,758
DCC - Storm	308,006
Parking	60,834
Gas Tax	544,820
Green Streets	1,367
Amphitheatre	11,069
Trolley	4,809
Total Restricted	\$ 2,391,813
Other Reserves	\$ 204,810
General Appropriated Equity	\$ 1,793,630
Water Appropriated Equity	\$ 743,605
Sewer Appropriated Equity	\$ 2,730,774

Amounts do not reflect budgeted allocations.

Town of Ladysmith

STAFF <u>Report</u>



To: From: Date: File No:

Ruth Malli, City Manager Joe Friesenhan, Director of Public Works June 27, 2011

Re: ANNUAL WATER REPORT

RECOMMENDATION(S):

That the Committee recommend that Council approve the 2010 Annual Water Report for submission to the appropriate authorities, and that Council authorize the publication of the report.

PURPOSE:

To meet the requirements of the Drinking Water Protection Act

INTRODUCTION/BACKGROUND:

Section 15 of the Drinking Water Protection Act and Section 11 of the Drinking Water Protection Regulation require all water suppliers to provide annual reports to their users.

The report contains a description of the Town's water supply and distribution systems along with the accomplishments for the system over the past few years and especially the highlights and accomplishments for 2010.

Upon approval from Council, the report will be submitted to the Vancouver Island Health Authority (VIHA), uploaded to the Town's website and made available at City Hall for the public to view.

SCOPE OF WORK: N/A

<u>ALTERNATIVES:</u> N/A

FINANCIAL IMPLICATIONS: N/A

LEGAL IMPLICATIONS;

As per the Drinking Water Protection Act, the Town must submit an annual water report to VIHA and make the report available to the public

CITIZEN/PUBLIC RELATIONS IMPLICATIONS:

Publishing the Annual Water Report not only shows that the Town is complying with VIHA requirements, but helps to keep the public informed about the town's water supply system.

INTERDEPARTMENTAL INVOLVEMENT/IMPLICATIONS: N/A

RESOURCE IMPLICATIONS: N/A

ALIGNMENT WITH SUSTAINABILITY VISIONING REPORT:

Aligns with Sustainability Pillar #5, Innovative Infrastructure, of the Town's Sustainability Visioning Report.

<u>ALIGNMENT WITH STRATEGIC PRIORITIES:</u> Aligns with Strategic Priority #4, Enhanced Standard of Infrastructure

SUMMARY:

To meet the requirements of the Drinking Water Protection Act, the Town must submit an annual report which describes the water supply and distribution system along with any tests and accomplishments for the prior year. A copy of the report is attached.

I concur with the recommendation.

Ruth Malli, City Manager

ATTACHMENTS: 2010 Annual Water Report.

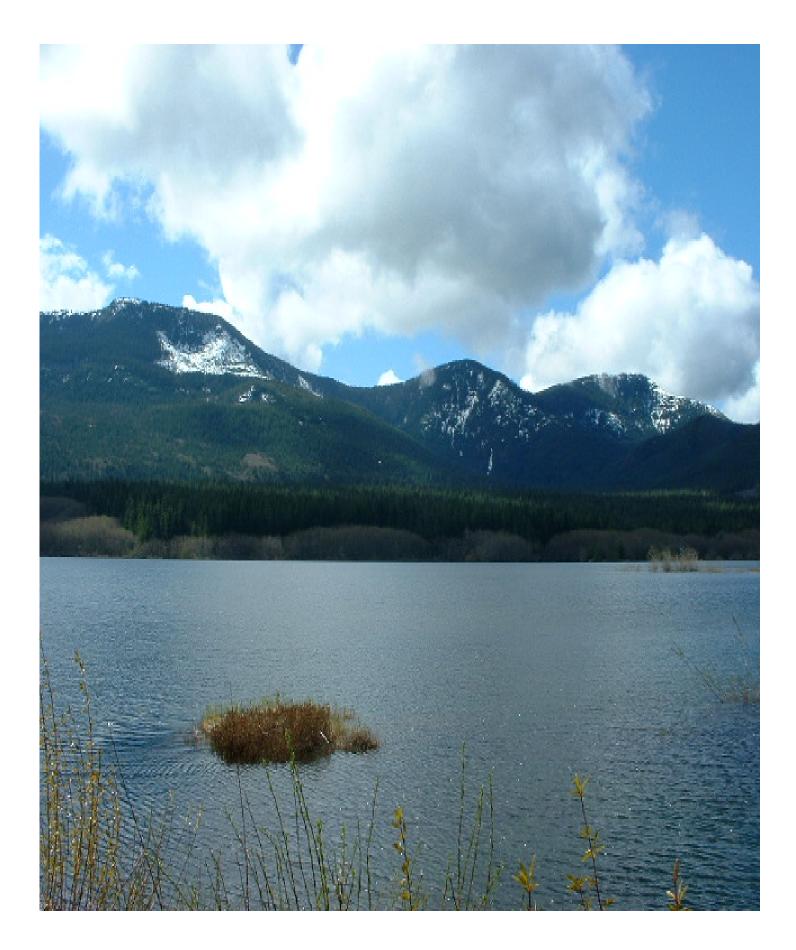


TABLE OF CONTENTS

Chapter 1 Introduction

Introduction
Chapter 2 Existing Infrastructure Supply7 Distribution
Chapter 32010 EvaluationSource Water
Chapter 4AccomplishmentsSource Water
Chapter 5 Improvement Strategy Improvement Strategy 2011
Glossary
Appendix A 2010 Water Sample Range Report21
Appendix B 2010 Analysis of Water Samples
Appendix C 2010 Town of Ladysmith Annual Report for Small Drinking Water Systems40

INTRODUCTION

The 2010 Annual Water Report continues to demonstrate the Town of Ladysmith's effort towards achieving excellence through continued responsible construction, operation, monitoring, evaluation and management of its water system.

The Town currently meets all of its requirements under water regulations and endeavours to continually improve the water system and public awareness to meet changing needs of the community. The report also identifies areas for improvement which will increase the dependability and sustainability of our water system. Improvements in water initiatives including advanced water treatment, increased community awareness, enhanced customer service programs and more aggressive demand management projects are all major areas of improvement presented within this report.

This report is a working document for water system operations and management assisting the Town in working towards its established goals and mission statement. By increasing public awareness of the water system and service, this report will enable the community to participate in demand management strategies in an informed way. With the understanding and support of the community, the Town can work towards meeting set objectives of enhanced quality, quantity and efficiency.

Water safety is of utmost importance to the Town of Ladysmith. The supply of good, clean drinking water has been taken for granted by the general public in Canada until the events such as the Walkerton E. Coli outbreak brought the safety of the water supply into the public eye. These concerns were brought home to the citizens of the Town of Ladysmith in July, 2001, when the Arbutus Reservoir, the main treated reservoir serving the Town, was subject to a contamination event of unknown cause.

Although these events have brought the issues into the forefront of the public interest, the Town of Ladysmith has long recognized the need for significant upgrades to their existing water supply infrastructure, and have been proactively planning major upgrades to the water supply infrastructure for several years. To ensure an adequate supply of water for now and into the future, the Town commissioned a study to assess the geotechnical and hydrological conditions of the water supply lakes. The study also presented a comparison of the options considered to increase the reliability and quantity of the available surface water supply. A further study was undertaken to determine the feasibility of the Town tying into the Cassidy Aquifer.

ANNUAL WATER REPORT PRINCIPLES

- 1. This report is an annual review and recommendation document encompassing all operations and management of the water system to ensure accountability to the community for services provided.
- 2. The mission statement, goals and targets presented in this report will be reviewed annually to provide clear direction for the water systems operation and management for the community.
- 3. This report will provide direction for improvement strategies for the present and future. The report will be a working document which has flexibility for change from ongoing input, up-dated research, evaluation and monitoring improvements.
- 4. The targets presented in this report are monitored each year to measure performance of the water system and if targets cannot be properly monitored to measure success, will be revised to provide effective performance management targets.
- 5. The improvement strategies, which identify current and future work projects, will be incorporated into their perspective budgets. The information provided to the public will be presented in a comprehensive and understandable form and will be consistent with operation and management budgets within the municipalities five year financial plan.
- 6. Water reports will contain financial information of the water system to ensure that financial resources are consistent with infrastructure and service planning.
- 7. This report will be distributed within the community to increase public support for water system improvement initiatives and to encourage public engagement on water conservation.





MISSION STATEMENT & GOALS

Mission Statement

The Town of Ladysmith will work to achieve excellence through continued responsible construction, operation, monitoring, evaluation and management of its water system.

Objectives

- To ensure an adequate supply of high quality water to the community.
- To effectively treat the raw water to provide potable water of integrity to the community.
- To ensure the adequate delivery of high quality potable water delivery to all points within the system for domestic and emergency purposes.
- To ensure effective management of all water system aspects and provide excellent customer service and information to the community.
- To manage water demand by effectively assessing and managing water losses from leakage in the system.
- To develop an effective water conservation program for operations and the wider community.
- To maintain water rates that encourage conservation and resource awareness while providing quality accessible water to consumers.

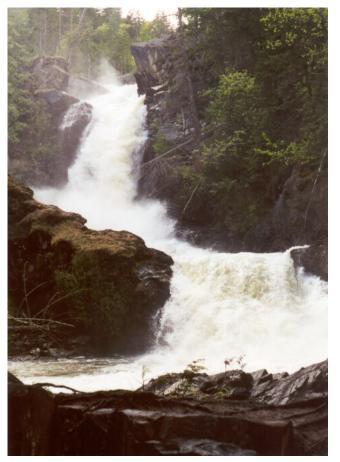
PROVINCIAL REQUIREMENTS

All drinking water in the water system should meet the Canadian Guidelines for Drinking Water Quality. In British Columbia, the Ministry of Health regulates water suppliers through the Drinking Water Protection Act. This legislation ensures safe drinking water in the province. It requires that the water supplier monitor the drinking water source and distribution system to ensure compliance with the Drinking Water Protection Regulations and report all results to the Health Authority. Water monitoring, inspection and testing, emergency response planning, cross connection control and security standards are all regulated for persons operating a water system.

Changes in water systems must be approved by Vancouver Island Health Authority (VIHA), and conform to the Town's standards and specifications which meet the American Water Works Association (AWWA) standards. In addition, all works must conform to Town bylaws.

Under the BC Water Act, the Town must acquire licenses for withdrawal from water bodies and pay annual dues for the amount of water consumed.

Under the Community Charter the Town may by bylaw regulate, prohibit, and impose requirements in relation to municipal service and public health. The Town must make reports available to the public on request regarding fees imposed under this section.



EXISTING INFRASTRUCTURE

Supply

The Town of Ladysmith's water is drawn from two distinct sources, which provide water through separate facilities at the north and south ends of the Town. The majority of the Town at the north end is supplied by the Holland Lake and Holland Creek watershed which enters the water supply system at a diversion point at the Chicken Ladder Dam, a small stilling basin located approximately 2.5 km. from the Public Works yard. From this point the water is piped directly to the newly constructed enclosed Arbutus Reservoir, where it is chlorinated and distributed by gravity to North Ladysmith and the Diamond Improvement District.

The southern portion of the Town is supplied by an intake and pipeline from Stocking Lake, which also provides water for Saltair within the Cowichan Valley Regional District. The pipeline carries flow for Ladysmith to the Balancing Reservoir where the high pressure in the pipeline is released and a small amount of storage is provided. From there flow is piped to the chlorination and Contact Tank area and then piped to the distribution system at the south end of the Town of Ladysmith.



The Arbutus Reservoir and Contact Tank top water levels provide the static hydraulic grade lines for the north and south portions of the Town respectively. There is a 2700 m long, 200 mm diameter Asbestos Cement water main connecting these two points which is used, at times of poor water quality in Holland Creek, to fill the Arbutus Reservoir. Thus Stocking Lake becomes the only water source at these times. With increased activity in the Holland Creek watershed since 2000, records indicate that the Stocking Lake source is required for longer frequencies with longer periods of poor quality water in the Holland Creek watershed.

EXISTING INFRASTRUCTURE

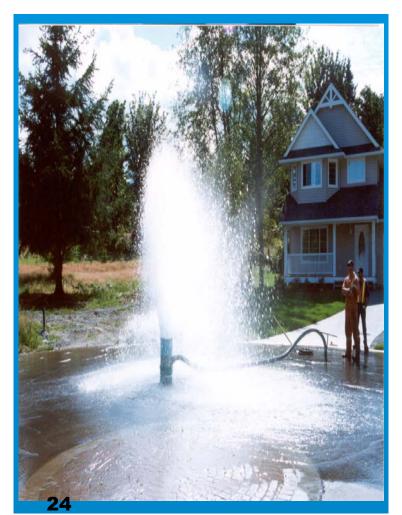
Distribution

The topography of the Town of Ladysmith slopes steeply towards the waterfront, resulting in a large range in the water pressures within the Town's water system. With the completion of the new covered Arbutus Reservoir and subsequent increase in distribution pressure of 32 psi in 2008, the Town introduced two specific pressure zones within the system with the installation of four pressure reducing stations.

The distribution system for the Town consists of over 61 km of water main of varying sizes from 100mm to 250 mm. The mains are made of caste iron piping, asbestos cement piping or PVC piping. There are approximately 150 commercial, 3 industrial

and 2700 residential water services connections. The caste iron (approximately 1 km.) and the asbestos cement (approximately 20 km.) piping are located mainly in the older section of Town and within the area that was amalgamated from Saltair in 1985. The majority of the asbestos cement piping is 100 mm in diameter and needs to be upgraded and upsized to allow for adequate flows throughout the system. The Town has been actively working on a replacement program since 2000 where a section of asbestos cement piping is replaced with proper sized PVC pipe annually.

Fire hydrants are situated throughout the distribution system at a spacing to offer adequate fire flows for all properties.



2010 EVALUATION

Source Water

Over the past several years, the Town of Ladysmith has carried out considerable work to evaluate the condition and capacity of the Town's existing water supply. Initial work consisted of an evaluation of the existing storage reservoir dams to determine the feasibility and cost of upgrading of the dams and increasing storage volumes to provide possible additional withdrawals for the Town's water supply to determining the feasibility of accessing the Cassidy Aquifer for additional supply. The evaluation of Prevost Lake, which supplied



approximately two weeks of water to the north end of Ladysmith around the beginning of June, identified the need for some major dam repairs to make the dam safe for use. The cost of the repairs was deemed to be excessive for the volume of water provided and the dam was decommissioned in 2009.

A contamination event during the spring of 2006 prevented the Town from using its main source on Holland Creek for an extended period of time. A diversion pipeline from Holland Lake to Stocking Lake was investigated to make available additional storage volume to the limited Stocking Lake storage system. Normally, Stocking Lake is only used by north Ladysmith during periods of the winter and spring, when the turbidity and/or colour of the Holland Creek source is above 1.0 NTU and 15 TCU, respec-

tively, and water demands are low. Work was completed in 2010 which upgraded the chlorine delivery system to allow for adequate chlorine delivery in the south end at high flows such as during a fire event. The Town also installed an online turbidity meter to provide for continuous turbidity monitoring in both the south end and at the Arbutus Reservoir A review of the annual water use records of the past five years identified that the Town has been using progressively more water from Stocking Lake, from 36% of the total supply in 2002, to 61% of the total in 2007. This is a result of extended periods of high turbidity and colour in the Holland Creek supply. A watershed water quality review of the Holland Creek watershed identified a number of possible causes of the increase in turbidity and colour duration and in 2009 the Town developed a Water Quality Monitoring Plan, which included implementation of a long-term sampling program in the watershed, and initiated other protocols to address potential watershed and associated water quality issues. In 2008, the shifted back closer to historical volumes with 41% coming from usage Stocking Lake and 59% from Holland Creek. 2009 continued the shift with 35% coming from Stocking Lake and 65% from Holland Lake. More severe storms in 2010 brought the usage back up to 55% from Stocking Lake.

The new elevation of the Arbutus Reservoir allows for the entire distribution system to be serviced from one location. This allows the Town to look at centralized treatment which in turn will assist the Town in achieving its goal of reducing its carbon footprint. A grant application was submitted for works that included constructing a dual pipeline from the South End Chlorinator to the Arbutus Reservoir, phase I of the centralized treatment plant, and a new power supply. The application was unsuccessful. Council did authorize the detail design of the pipeline and centralized treatment process to go ahead without the a grant. The design showed that the elimination of the South End Chlorinator provides the ideal location for the Towns first in-line turbine for power generation. A hydraulic Energy Recovery Report was completed and adopted by Council.

The Town also completed a Watershed Protection Plan which identified the location and number of various testing protocol to ensure that the water supply for the Town was maintained at the highest quality. Regular sampling of the water supply started in mid February of 2010.



Chapter Three

ANNUAL WATER REPORT 2010 | TOWN OF LADYSMITH

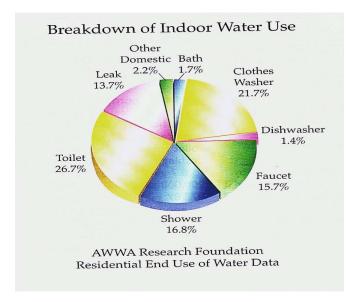
2010 EVALUATION

Distribution

As part of an ongoing water main replacement program, the Town replaced the 100 mm asbestos cement water main on High street between 2nd Avenue and Third Avenue with a 150 mm PVC water main. The Town also completed replaced the 200 mm asbestos cement watermain with a 200 mm PVC watermain on Second Avenue between Buller Street and High Street. An additional 28 single family lots, 2 multi family lots and a 40 unit trailer park were developed at the Northwest end of Town in Lot 108.

In July, 2008, Council implemented a toilet rebate program with a \$20,000 budget allocation which provided \$75 to any resident of Ladysmith that replaced an existing toilet with an approved low flow toilet to a maximum of two toilets per residence. The program was to be completed in December 2009. The program was very well received and Council increased the budget and extended the program to December 31, 2010. A total of 2000 rebate requests were received by the end of December 2010.

A low flow toilet uses approximately 6,600 less gallons of water annually per person than the old standard toilets.



2010 EVALUATION

Water Treatment

The higher elevation of the new Arbutus Reservoir provides an additional 32 psi pressure throughout the distribution system and allows the utility operators to chlorinate the water prior to entering the reservoir which allows for more contact time for the chlorine prior to consumption. This improves water quality and delivers a higher calibre product to customers.

The higher elevation also allows the Town to distribute water from the Arbutus Reservoir to the entire Town. This eliminates the need for a second reservoir at the south end and allows the Town to work towards a centralized treatment facility. The Town submitted an application to the Province for a grant to allow for the construction of a dual pipeline from the South End Chlorinator to the Arbutus Reservoir, the construction of the first phase of a centralized treatment facility, an upgrade to the power supply. The application was unsuccessful. Council authorized the detail design of the work in 2010. The design was completed and included a Hydraulic Energy Recovery component which was adopted by Council.

Customer Service and Accountability

The Town of Ladysmith is committed to delivering high quality water in an accessible, safe, and sustainable manner. The ongoing water quality monitoring and the updated Waterworks Emergency Preparedness Report and the development of the annual water reporting system have all contributed to the high level of customer service and satisfaction in 2010.

Staff have been trained in chlorine handling, Workplace Hazardous Materials Information Systems, and Environmental Operators Certification Program training.

Customers are always welcome to provide feedback on the service they have received, by contacting the Public Works Department.

Development of a water system Standard Operating Procedures manual is underway and preventative maintenance scheduling program is in place to improve water system operations and increase the integrity of the system. Along with these programs there is need for an enhanced data management program and training.

Council approved an Increasing Block Rate water payment structure in 2009. The fourth quarter billing included both the single rate and the increasing block rate. The new billing standard was put into effect in January 2010.

Chapter Three

ANNUAL WATER REPORT 2010 | TOWN OF LADYSMITH

2010 EVALUATION

Water Demand Management

The Town of Ladysmith has presented water demand management information to the public through events, Council presentations, appliance incentives, and water metering. Residents of Ladysmith have a keen interest in the health and security of their watershed, as was made clear during the Community Visioning sessions held during 2008. Awarenessbuilding activities have proven effective in raising the public consciousness about water consumption.

In the spring of 2008, the Town introduced a low flow toilet rebate program where residents could submit their receipts for up to two toilets and receive a rebate to help offset the costs of their dual flush or low flow toilets. The program was extended till the end of 2010 due to its popularity.

All water customers of the Town of Ladysmith are connected to metered water systems. This helps track usage and provides an incentive for users to reduce their consumption in order to save money. The metering system is also effective in demand management by detecting leaks more quickly than un-metered systems. Waterworks employees and customers are more diligent with tracking their usage over time and will identify abnormally high quantities quickly after a leak has occurred. Water metering has had a positive effect on water demand management. Usage has been reduced from 1,720,171 cubic metres in 2002 to 1.313,950 cubic metres in 2010. This 23.6% decrease in water consumption occurred despite a 20.4 % increase in population.

The Town of Ladysmith is proud to be a leader in operational water conservation. The Increased Block Water Rates introduced by the Council in 2009 will continue to assist in the Towns sustainability goals.

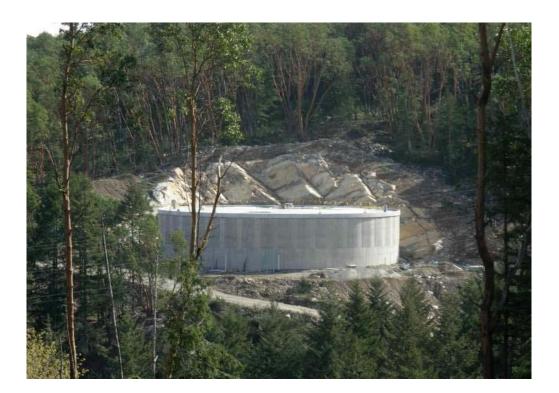


Low Flush Toilet Retrofit Rebate Program





ENCLOSED ARBUTUS RESERVOIR



SOURCE WATER ACCOMPLISHMENTS

• Completion of Watershed Protection Plan The Watershed Protection Plan was competed by the Towns Consulting Engineers and adopted by Council. The plan has been submitted to VIHA

• Completion of the Water Quality Monitoring Program.

The Water Quality Monitoring Program was completed and adopted by Council. The plan identifies various locations within the watershed for testing of the raw water and the number and types of tests proposed. Testing started in February, 2010.

Turbidity Analysers

The installation of turbidity analysers was completed for both the Arbutus Reservoir location and the South End Chlorinator. The installation allows for continuous reads at both locations.

DISTRIBUTION ACCOMPLISHMENTS

Replacement of Water Main at High Street and Second Avenue As part of our regular watermain replacement program, crews replaced the asbestos cement water main on High Street between Second and Third Avenue and also on Second Avenue between High Street and Buller Street.

• Long Term Planning

A number of reports were initiated in 2008 to help the Town ensure a safe and adequate water supply for the present and into the distant future. These reports were completed by Koers & Associates in 2009 and subsequently adopted by Council.

WATER TREATMENT ACCOMPLISHMENTS

Centralized Water Treatment

The construction of the enclosed Arbutus Reservoir at a higher elevation allowed the Town to supply treated water from the one location to the entire town. Council authorized the detail design for the dual pipeline between the south end chlorinator and Arbutus Reservoir, Phase I of the centralized treatment and an upgraded power supply to be completed in 2010.

ACCOUNTABILITY AND CUSTOMER SERVICE ACCOMPLISHMENTS

Staff Training

Training in chlorine handling, Workplace Hazardous Materials Information Systems, and Environmental Operators Certification Program has improved the knowledge and skill of staff. Additionally, there have been training sessions in customer service, leadership, team dynamics, communication, and self and public awareness.



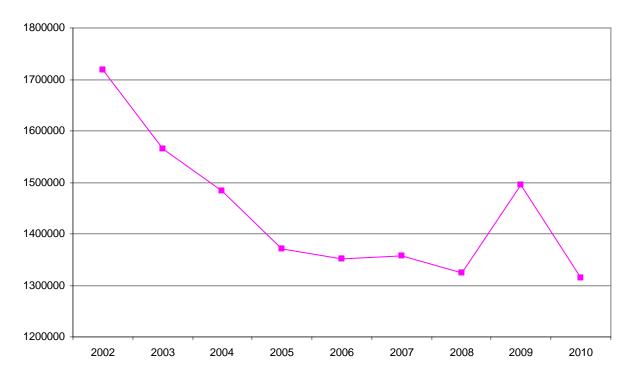
Chapter Four

ANNUAL WATER REPORT 2010

WATER DEMAND MANAGEMENT ACCOMPLISHMENTS

Reduced Water Consumption

Although 2009 showed a slight increase in water consumption due to a very dry summer, the previous six consecutive years of reduced consumption and an increased population is an indicator of the success of the Town's water demand management initiatives. The consumption in 2010 was the lowest since annual records were being kept.



Low-flow Toilet Rebate

The low-flow/dual flush toilet rebate program was extended to the end of 2010. The program has been an effective way to engage residents in water demand management. A total of 311 rebates have been issued since the program was put in place in the spring of 2008.

Public Awareness Building

Awareness activities at events, publications on water conservation, and public sessions such as the Community Visioning have all contributed to high public awareness of the watershed and the resource of water itself.

IMPROVEMENT STRATEGY 2011

Increased training for Waterworks Staff with Environmental Operators Certification Program

Continual training is an integral part of maintaining the highest standard of care for the waterworks system.

Complete the preventative and protective strategy for watershed A Risk Management Strategy for the Town's water source has been adopted. The completion of this strategy will initiate a new level of preventative measures to ensure the security and quality of the Town's water.



Complete Standard Operating Procedures Manual

Consistent procedures and guidelines will provide continuity and preparedness in times of transition. The manual will work as a living document that can be updated as new knowledge is gained. It will act as a corporate memory to ensure high quality standards and effective succession planning.

Moving forward with Long Term Planning Initiatives

Continuation of steps outlined in long term planning, such as Unidirectional Flushing program, Watershed Protection Plan, Preliminary pipeline design from Holland Lake to Stocking Lake, and the feasibility of bringing water to Ladysmith from the Cassidy Aquifer.

Internal Communications Strategy

This strategy will be created to establish enhanced internal communications to the various departments for awareness, understanding and support of interdepartmental objectives for the water system. This strategy will discuss email, cell-phone, monthly reporting, and other communications and how they will be utilized in this internal communications strategy.

ANNUAL WATER REPORT 2010 | TOWN OF LADYSMITH

GOALS FOR THE FUTURE

Continuation of the water main replacement program
 Over the past few years, Council has approved the replacement and upgrade of the
 water distribution system. Crews have replaced between 400 and 600 metres of wa ter main annually. In 2011, the section proposed to be replaced and/or upgraded is
 the watermain on Symonds Street between Second Avenue and Fourth Avenue.

Upgrading and replacing the supply lines

Work is underway to construct a new supply line from Holland Lake to Stocking Lake. This will allow the Town to obtain an adequate supply of water from the Holland Lake system during times of high turbidity and/or color within the watershed.

Centralizing the treatment system

The replacement of the existing raw water supply line from the south end chlorinator to the Arbutus Reservoir and the installation of a new potable water line in the same trench, will allow for a centralized treatment system that will reduce future operations costs.

 Planning for generations Tying into the Cassidy Aquifer will ensure a safe and adequate water supply for future generations.



Chapter Five

ANNUAL WATER REPORT 2010 | TOWN OF LADYSMITH

GLOSSARY

E. Coli (Escherichia coli) - are bacteria present in the intestine and feces of warm-blooded animals. E. coli are a member species of the fecal coliform group of indicator bacteria. Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal Coliform- A sub group of total coliform bacteria that are distinguished in laboratory tests at elevated temperatures. It is used as an indicator organism for potential waterborne disease risk.

Filtration - The process of passing water through a porous substance to remove solids in suspension, such as organics. Effectiveness is measured as a reduction of turbidity.

Free Chlorine - the quantity of chlorine remaining which has not been consumed in reactions with microorganisms or organic matter. Also referred to as residual chlorine.

NTU (Nephelometric Turbidity Units) - The standard unit of measurement for turbidity in water. It detects the amount of light that is scattered by finely suspended particles in water.

ved from rocks and minerals. Organic matter is characterized by its carbon-hydrogen structure.

pH - the expression of the acidity of a solution by the negative logarithm of the hydrogen ion concentration; pH of 1 is very acidic; pH of 14, very basic; pH 7 is neutral. The neutral point of 7 indicates the presence of equal concentrations of free hydrogen and free hydroxide ions.

Potable Water - Water which is considered safe and fit for human consumption, culinary and domestic purposes and meets the requirements of the health authority having jurisdiction, which is the Vancouver Island Health Authority in this region.

Pressure Zone - A zone where the pressure is constant. Pumps and valves in the distribution system, keep the pressure constant in each pressure zone.

PRV - Pressure reducing valve.

PVC - A type of plastic used to make pipes.

Raw Water - Untreated water from wells, surface sources or any water before it reaches a water treatment device or process.

Reservoir - A receptacle used for storing water within the distribution system.

Residual Chlorine - the quantity of chlorine remaining which has not been consumed in reactions with micro-organisms or organic matter. Also referred to as free chlorine.

Total Chlorine -The total amount of chlorine in a solution, which includes the chlorine demand as well as the residual chlorine.

Total Coliform - An indicator group of organisms mostly of intestinal origin used to appraise the microbiological risk to drinking water.

Turbidity - The measurement of how cloudy or murky water is. Its measurement relates to the optical property of water that causes light to be scattered and absorbed in a cloudy sample rather than transmitted in a straight line. APPENDIX 'A'

Water Sample Range Report for TOW Water Sample Range Report

Page 18 of 39

2

Vancouver Island Health Authority

Central Island

TOWN OF LADYSMITH WATER WORKS

Facility Name: Facility Type: DWT Jan 1 2010 to Dec 31 2010 Date Range: Date Created: Feb 23 2011

2.10

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>, 606 OAKWOOD,</u> <u>Dist. site, Monthly</u>	01/06/2010 02/02/2010 03/03/2010 05/04/2010 05/04/2010 07/14/2010 08/11/2010 09/14/2010 10/05/2010 11/03/2010 12/01/2010 Total Positive:	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	0
Oyster Cove Road, Ladysmith, B.C., Wastewater Treatment Plant, Dist. site, Monthly	01/12/2010 02/16/2010 03/16/2010 04/14/2010 05/04/2010 06/01/2010 07/27/2010 08/24/2010 09/14/2010 10/19/2010 11/16/2010 12/14/2010 Total Positive:	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 D	0
<u>340 6Th Avenue,</u> <u>Ladysmith, B.C.,</u> <u>Public Works Yard,</u> <u>Dist. site, Monthly</u>	01/19/2010 02/09/2010 03/16/2010 04/14/2010 05/17/2010 06/15/2010 07/21/2010 08/04/2010 09/22/2010 10/13/2010	L1 L1 L1 L1 L1 L1 L1 L1 3/8 L1	L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	

Water Sample Range Re	port for OSI 201 OF LADY	SMITH MATER WORKS	L1	Page 19 of 39
2	12/0 010 Total Positive:	<u>L1</u> 0	L1	0
	Total Positive.		8°	
, 604 Farrell Road, Dist. site, Monthly				
Dist. site, Monthly	01/26/2010	L1	L1	
	02/09/2010	L1	L1 L1	
	03/09/2010 03/16/2010	2 L1	L1	
	04/07/2010	L1	L1	
	05/12/2010	L1	L1	
	06/01/2010 07/14/2010	L1 L1	L1 L1	
	08/11/2010	L1	L1 .	
	09/22/2010	L1	L1	
	10/05/2010 11/08/2010	L1 L1	L1 L1	
	12/07/2010	<u>L1</u>	L1	
	Total Positive:	1	0	0
, 405 Blair Place,				
Dist. site, Monthly		2 • • • • •		
	01/06/2010 02/09/2010	L1 L1	L1 L1	
	03/09/2010	L1	L1	
	04/07/2010	L1	L1	
	05/12/2010 06/29/2010	L1	L1 L1	
	07/27/2010	L1	L1	
	08/31/2010	L1 L1	L1	
	09/14/2010 10/19/2010	L1	L1	
	11/16/2010	L1	L1	
	12/01/2010 Total Positive:	<u>L1</u> 0	<u>L1</u> 0	0
, 1280 Rocky Creek Road, Dist. site,				
Monthly				
	01/12/2010 02/23/2010	L1 L1	L1 L1	
	03/24/2010	L1	L1	
	04/14/2010	L1	L1	
	05/04/2010 06/23/2010	L1 L1	L1 L1	
	07/21/2010	L1	L1	
	08/17/2010	L1	L1 L1	
	09/28/2010 10/26/2010	L1 L1	L1	
	11/23/2010	L1	L1	
	12/14/2010 Total Positive:	<u>L1</u> 0	<u>L1</u> 0	0
	Total Positive.	0	0	, , , , , , , , , , , , , , , , , , ,
Ladysmith, 558 Hooper Place, Dist.				
site, Monthly			1012	
	01/12/2010	L1	L1 L1	
	02/23/2010 03/24/2010	L1 L1	L1 L1	
	04/21/2010	L1	L1	
		and the second second		

						2772h				
	Water Sample Range Re	port 05/ TORON OF LA	DYSMIT	HMAT	ER WORKS	L1		Page 2	0 of 39	
1		06/2)10		L1		L1	2			
		07/06/2010		L1		L1				
		08/17/2010		L1		L1				
		09/28/2010		L1		L1				
				L1		L1				
		10/26/2010								
		11/23/2010		L1		L1				
		12/14/2010		7		L1				
		12/20/2010		<u>L1</u>		L1				
		Total Positive:		1		0		0		
	, Kinsmen Park 1000									
	Colonia Drive, Dist.									
	site, Monthly									
		01/06/2010		L1		L1				
		02/16/2010		L1		L1				
		03/03/2010		L1		L1				
		04/21/2010		L1		L1				
		05/26/2010		L1		L1				
				L1		L1				
		06/15/2010								
		07/06/2010		L1		L1				
		08/24/2010		L1		L1				
		09/08/2010		L1		L1				
		10/05/2010		L1		L1				
		11/16/2010		L1		L1				
		12/07/2010		<u>L1</u>		L1				
		Total Positive:		0		0		0		
		Total Footaro.								
	, City Hall 410									
	Esplanade, Dist.									
	site, Monthly					1.4				
		01/26/2010		L1		L1				
		02/16/2010		L1		L1				
		03/30/2010		L1		L1				
		04/27/2010		L1		L1				
		05/26/2010		L1		L1				
		06/09/2010		L1		L1				
		07/06/2010		L1		L1				
		08/04/2010		L1		L1				
				L1		L1				
		09/22/2010				L1				
		10/13/2010		L1						
		11/08/2010		L1		L1				
		12/01/2010		<u>L1</u>		<u>L1</u> 0				
		Total Positive:		0		0		0		
	, 432 DAVIS ROAD,									
	, 452 DAVIS ROAD,									
	Dist. site, Monthly	01/10/2010		L1		L1				
		01/19/2010								
		02/02/2010		L1		L1				
		03/30/2010		L1		L1				
		04/27/2010		L1		L1				
		05/26/2010		L1		L1				
		06/09/2010		L1		L1				
		07/27/2010		L1		L1				
		08/11/2010		L1		L1				
		09/08/2010		L1		L1				
		10/13/2010		L1		L1				
		11/03/2010		L1		L1				
						1.4				
		12/07/2010		<u>L1</u> 0		<u>L1</u>		0		
		Total Positive:		0		0		0		

Result Values:	E - estimated	L - less than	G - gr	eater than
	11/09/2010 Total Positive:	<u>L1</u> 0	0	0
LADYSMITH, TOWN OF WATERWORKS, Dist. site, Annually				
Water Sand Range Re	port for TOWN OF LADYS	SMITH WATER WORKS		Page 21 of 3

Water Sample Range Report for TOWN OF LADYSMITH WATER WORKS

Page 22 of 39

Samples that contain total coliform:	2	1.63% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of positive samples in last 30 days:	1/7	
Total number of samples:	123	

Comments:

two	positive -	total colifor	in results	outd	A 123 San	ple
Back	jologi calle	, satisfactor	" results -1	neets	DEichy Wo	tol
Dister	tion Act	d' Repolation	& Schedu	leA,	-	
1		1 0				

Environmental Health Officer Feb 23 2011

FOR FURTHER INFORMATION PLEASE CALL: Lucko, Jill (250) 755-6215 Nanaimo

Operator

Town Of Ladysmith Box 220 STN MAIN Ladysmith, BC V9G 1A2

(250) 245-6400

Water Sample Range Report for TOW Water Sample Range Report

Page 23 of 39

Vancouver Island Health Authority

Central Island

Facility Name:TOWN OF LADYSMITH WATER WORKSFacility Type:DWTDate Range:Jan 1 2010 to Dec 31 2010Date Created:Feb 23 2011

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Holland Creek,				
Ladysmith, B.C.,				
Chicken Ladder Dam RAW WATER.				
Source site,				
Quarterly				
dutiony	03/30/2010	51.2	1.0	
	06/15/2010	88.2	5.2	
	09/27/2010	816.4	6.3	
	11/30/2010	1299.7	52.9	
	Total Positive:	4	4	0
Result Values:	E - estimated	L - less than	G -	greater than

Water Sample Range Report for TOWN OF LADYSMITH WATER WORKS

Page 24 of 39

Samples that contain total coliform:	4	100.00% of total
Samples that contain e. coli:	4	100.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of positive samples in last 30	0/0	
days:		
Total number of samples:	4	

Comments:

Raw water results

Environmental Health Officer Feb 23 2011

FOR FURTHER INFORMATION PLEASE CALL: Lucko, Jill (250) 755-6215 Nanaimo

Operator

Town Of Ladysmith Box 220 STN MAIN Ladysmith, BC V9G 1A2

(250) 245-6400

Water Sample Range Report for TOW Water Sample Range Report

Vancouver Island Health Authority

Central Island

Facility Name:TOWN OF LADYSMITH WATER WORKSFacility Type:DWTDate Range:Jan 1 2010 to Dec 31 2010Date Created:Feb 23 2011

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
Lake, Stocking Lake RAW WATER,				
Source site, Quarterly				
	03/30/2010	18.9	1.0	
	06/15/2010	21.1	L1	
	09/27/2010	198.9	1.0	
	11/30/2010	49.6	<u>L1</u>	
	Total Positive:	4	2	0
Result Values:	E - estimated	L - less than	G -	greater than

Water Sample Range Report for TOWN OF LADYSMITH WATER WORKS

Page 26 of 39

Samples that contain total coliform: Samples that contain e. coli: Samples that contain fecal coliform:	4 2 0	100.00% of total 50.00% of total 0.00% of total
Number of positive samples in last 30 days: Total number of samples:	0/0	

Comments:

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C

Environmental Health Officer Feb 23 2011

FOR FURTHER INFORMATION PLEASE CALL: Lucko, Jill (250) 755-6215 Nanaimo

Row water results.

Operator

Town Of Ladysmith Box 220 STN MAIN Ladysmith, BC V9G 1A2

(250) 245-6400

APPENDIX 'B'

Ladysmith, Town of Box 220	23Mar10 FWS
Ladysmith, BC V9G 1A2	wa
TEL: (250) 245-3995	Arrival
FAX: (250) 245-3711	Sampler
cbaker@ladysmith.ca.	

2:49p ter 2

W88416

temp.: 6.0C : Perry Madsen

Sample: 1)1280 Rocky Creek Rd 23Mar10 08:10a 2)558 Hooper Pl 23Mar10 08:30a TRIHALOMETHANES

	COMPOUNDS	1 SAMPLE	2 SAMPLE	UNITS
1) 2) 3) 4)	Bromodichloromethane Bromoform Chloroform Dibromochloromethane	1.45 <0.100 41.5 <0.100	<0.100 <0.100 47.0 <0.100	ug/L ug/L ug/L ug/L
1) 2)	SURROGATE RECOVERY Bromofluorobenzene Toluene-d8	91.5 88.2	107 99.8	아이

Comment: maximum allowable concentration of Total Trihalomethanes permitted is 100 ug/L (0.1 mg/L); Guidelines for Canadian Drinking Water Quality, 6th edition, 1996.

ND = not detected ug/L = micrograms per liter <

= less than

R. Bilodeau Analytical Chemist H. Hartmann Sr.Analytical Chemist

32

M.B. LABS LTD T: 656-1334 F: 656-0443

E: mblabs@pacificcoast.net W: www.mblabs.com

Ladysmith, Town of Box 220 Ladysmith, BC V9G 1A2

22Jun10 2:23p FWS water 2

W89920

TEL: (250) 245-3995 FAX: (250) 245-3711 cbaker@ladysmith.ca. Arrival temp.: 6.0C Sampler: P. Madsen

Samples: 1) 1280 Rocky Creek Rd 22Jun10 07:50a 2) 558 Hooper Pl. 22Jun10 08:23a

TRIHALOMETHANES

	COMPOUNDS	1 SAMPLE	2 SAMPLE	UNITS
	COMPOUNDS	SAMPLE	SAMPLE	UNIIS
1)	Bromodichloromethane	3.16	3.28	ug/L
2)	Bromoform	<0.100	<0.100	ug/L
3)	Chloroform	47.8	53.2	ug/L
4)	Dibromochloromethane	<0.100	<0.100	ug/L
	SURROGATE RECOVERY			
1)	Bromofluorobenzene	106	112	8
2)	Toluene-d8	97.2	90.1	융

Comment: maximum allowable concentration of Total Trihalomethanes permitted is 100 ug/L (0.1 mg/L); Guidelines for Canadian Drinking Water Quality, 6th edition, 1996.

ND = not detected ug/L = micrograms per liter

= less than <

> R. Bilođeau Analytical Chemist

H. Hartmann Sr.Analytical Chemist

M.B. LABS LTD T: 656-1334 F: 656-0443 .

E: mblabs@pacificcoast.net W: www.mblabs.com

Ladysmith, To Box 220 Ladysmith, BC V9G 1A2	wn of			21Ju F	WS	1:58p cer 2	w903	97
	FAI	L: (250) X: (250) aker@lady	245-3711			temp.: 5 A. Schade	5.0C	
SAMPLE	DATE	TIME	MCAA (ug/L)	DCAA (ug/L)	MBA (ug/		DBAA (ug/L)	BCAA (ug/L)
1280 Rocky Creek Rd. 558 Hooper Pl. Lab Blank) 08:30a) 08:20a	ND ND ND	17.8 16.2 ND	ND ND ND		37.4 45.2 ND	ND ND ND
So			0.030	0.030	0.0	30	0.030	0.030
REF. VALUE STD M 2SD			10.0 9.87 й 1.05	10.0 9.90 ñ 1.04	10. 9.9	0 1 ñ 1.01	10.0 9.89 й 0.991	10.0 9.90 ñ 1.01
SAMPLE		DATE	TIME	TCAA (ug/L)				
1280 Rocky Cre 558 Hooper Pl. Lab Blank		21Jul10 21Jul10		36.4 34.8 ND				
So				0.050				
REF. VALUE STD ñ 2SD				10.0 9.87 ñ 1.01				
MCAA = Monochl MBAA = Mono2br DCAA = Dichlor BCAA = Bromoch DBAA = Dibromo TCAA = Trichlo	omo Acet o Acet loro A Aceti	etic Acio ic Acid cetic Aci c Acid	1					
Comment: maxim 60.0	um all ug/L (owable co 0.06 mg/I	oncentration); EPA 816-H	of Total Hal 7-01-010 May 3	pacetic 2002.	acids (HA	A5) permitted	i is
ND = not de ug/L = microg < = less t	rams p	er liter						
			R. Bilode Analytica	au al Chemíst		H. Hart Sr.Anal	mann ytical Chemis	st
M.B. LABS LTD T: 656-1334	F: 65	6-0443	E: mblabs@p	acificcoast.	net W	: www.mbla	bs.com	

Ladysmith, Town of Box 220 Ladysmith, BC V9G 1A2

29Sep10 2:17p FWS water 2

W91657 pg2

TEL: (250) 245-3995 FAX: (250) 245-3711 cbaker@ladysmith.ca. Arrival temp.: 6.0C Sampler: P. Madsen

Samples: -1) 1280 Rocky Creek Rd 29Sep10 07:52a 2) 558 Hooper Place 29Sep10 08:30a

TRIHALOMETHANES

	COMPOUNDS	1 SAMPLE	2 SAMPLE	UNITS
1)	Bromodichloromethane	<0.100	<0.100	ug/L
2)	Bromoform	<0.100	<0.100	ug/L
3)	Chloroform	69.3	72.0	ug/L
4)	Dibromochloromethane	<0.100	<0.100	ug/L
	SURROGATE RECOVERY			
1)	Bromofluorobenzene	95.1	96.0	8
2)	Toluene-d8	101	104	O

Comment: maximum allowable concentration of Total Trihalomethanes permitted is 100 ug/L (0.1 mg/L); Guidelines for Canadian Drinking Water Quality, 6th edition, 1996.

ND = not detected ug/L = micrograms per liter < = less than

R. Bilodeau Analytical Chemist H. Hartmann Sr.Analytical Chemist

M.B. LABS LTD T: 656-1334 F: 656-0443

E: mblabs@pacificcoast.net W: www.mblabs.com

Ladysmith, Town of 29Sep10 2:17p W91657 Box 220 FWS Ladysmith, BC water V9G 1A2 2 TEL: (250) 245-3995 FAX: (250) 245-3711 Arrival temp.: 6.0C Sampler: P. Madsen cbaker@ladysmith.ca. MCAA DCAA MBAA DBAA BCAA SAMPLE DATE TIME (ug/L) (ug/L) (ug/L) (ug/L) (uq/L) 1280 Rocky Creek Rd 29Sep10 07:52a 556 Hooper Place 29Sep10 08:30a Lab Blank NÐ 26.7 ND NÐ NÐ ND ND 15.3 ND ND ND ND ND ND ND So 0,030 0.030 0.030 0.030 0.030 REF. VALUE 10.0 9.87 ñ 1.04 10.0 10.0 9.89 ñ 0.980 10.0 10.0 STD ñ 2SD 9.90 ñ 1.03 9.91 ñ 0.999 9.90 ñ 1.00 TCAA SAMPLE DATE TIME (ug/L) 1280 Rocky Creek Rd 29Sep10 07:52a 43.8 558 Hooper Place 29Sep10 08:30a 50.4 Lab Blank ND So 0.050 REF. VALUE 10.0 STD ñ 2SD 9.87 ñ 0.999 SD = standard deviation STD = secondary standard calibrated to primary standard reference material So = standard deviation at zero analyte concentration; method detection limit is generally considered to be 3x So value ND = none detected n/a = not applicable MCAA = Monochloro Acetic Acid MBAA = Mono2bromo Acetic Acid DCAA = Dichloro Acetic Acid BCAA = Bromochloro Acetic Acid DBAA = Dibromo Acetic Acid TCAA = Trichloro Acetic Acid Comment: maximum allowable concentration of Total Haloacetic acids (HAA5) permitted is 60.0 ug/L (0.06 mg/L); EPA 816-F-01-010 May 2002. ND = not detected ug/L = micrograms per liter < = less than R. Bilodeau H. Hartmann Analytical Chemist Sr.Analytical Chemist M.B. LABS LTD T: 656-1334 F: 656-0443 E: mblabs@pacificcoast.net W: www.mblabs.com

36

Ladysmith, To Box 220 Ladysmith, BC V9G 1A2	wn of			15Dec10 FWS) 2:0 water 2	5p W	: 192862
	FAX:	: (250) 2 : (250) 2 <er@ladys< td=""><td>45-3711</td><td></td><td>val temp ler: Arn</td><td></td><td></td></er@ladys<>	45-3711		val temp ler: Arn		
Samples: Quart	terly						
SAMPLE	DATE	TIME	MCAA (ug/L)	DCAA (ug/L)	MBAA (ug/L)	DBAA (ug/L)	BCAA (ug/L)
558 Hooper Pl. 1280 Rocky Creek Rd 1280 Rocky Creek Rd Lab Blank			ND ND ND ND	ND ND ND ND	ND ND ND ND	3.09 3.61 4.19 ND	ND ND ND ND
50			0.030	0.030	0.030	0.030	0.030
REF. VALUE STD ñ 2SD			10.0 9,87 ñ 1.04	10.0 9.90 ñ 1.02	10.0 9.91 ñ 0.9	10.0 992 9.89 ñ 0.97	10.0 3 9.91 ñ 0.995
SAMPLE	DATE	TIME	TCAA (ug/L)				
558 Hooper Pl. 1280 Rocky Creek Rd 1280 Rocky Creek Rd Lab Blank			45.3 44.6 46.6 ND				
So			0.050				
REF. VALUE STD ñ 2SD			10.0 9.88 ñ 0.992				
MCAA = Monochl DCAA = Dichlor DBAA = Dibromo	o Aceti	c Acid	BCAA = Bromoo	oromo Acetic A chloro Acetic oro Acetic Ac	Acid		
Comment: maxim 60.0	um allo ug/L (0	wable con .06 mg/L	ncentration of); EPA 816-F-0	Total Haloac)1-010 May 200	etic acio 2.	ds (HAA5) permi	tted is
	tected rams pe han	r liter					
			R. Bilodeau Analytical			Hartmann Analytical Ch	emist
M.B. LABS LTD T: 656~1334	F: 656	-0443	E: mblabs@pac	ificcoast.net	W: www	.mblabs.com	

Ladysmith, Box 220	Town	of		15Dec10 FWS	2:05p	W92862
Ladysmith, V9G 1A2	BC				ter 2	
		FAX: (25	50) 245-3995 50) 245-3711 adysmith.ca.		temp.: : Arnold	6.00

Samples: Quarterly 1) 558 Hooper Pl 15Dec10 08:00a 2) 1280 Rocky Creek Rd 15Dec10 08:30a

TRIHALOMETHANES

	COMPOUNDS	1 SAMPLE	2 SAMPLE	UNITS
1)	Bromodichloromethane	<0.100	<0.100	ug/L
2)	Bromoform	<0.100	<0.100	ug/L
3)	Chloroform	49.0	48.1	ug/L
4)	Dibromochloromethane	<0.100	<0.100	ug/L
	SURROGATE RECOVERY			
1)	Bromofluorobenzene	99.5	108	cio olo
2)	Toluene-d8	103	112	

Comment: maximum allowable concentration of Total Trihalomethanes permitted is 100 ug/L (0.1 mg/L); Guidelines for Canadian Drinking Water Quality, 6th edition, 1996.

ND = not detected ug/L = micrograms per liter < = less than

R. Bilodeau Analytical Chemist H. Hartmann Sr.Analytical Chemist

pg2

M.B. LABS LTD T: 656-1334 F: 656~0443 E: mblabs@pacificcoast.net W: www.mblabs.com .

54

Ladysmith, Town of Box 220 Ladysmith, BC V9G 1A2 29Jul10 3:12p FWS water 3

TEL: (250) 245-3995 cbaker@ladysmith.ca.

Arrival temp.: 4.0C

W90573

Samples: 1) Holland Lake 29Jul10 08:30a 2) Stocking Lake 29Jul10 08:25a 3) Chicken Ladder 29Jul10 09:05a

			1	2	3		Max.for Aqua	tic Life	Maximum Permissible
	ELEMENTS		SAMPLE	SAMPLE	SAMPLE	UNITS	Freshwater	Marine	In Effluent **
1)	Aluminium	Al	<0.065	<0.065	<0.065	mg/L	n/a	1.50	4.00
	Antimony	Sb	<0.500	<0.500	<0.500	ug/L	n/a	200	5.00
3)	Arsenic	As	<0.500	<0.500	<0.500	ug/L	5.00	12.5	250
4)	Barium	Ba	<0.009	<0.009	<0.009	mg/L	n/a	1.00	1.00
5)	Beryllium	Be	<0.003	<0.003	<0.003	mg/L	0.010	1.50	no limit listed
6)	Boron	в	<0.050	<0.050	<0.050	mg/L	n/a	5.00	5.00
7)	Cadmium	Cd	0.415	<0.100	0.201	ug/L	1.05-2.11	0.12	10.0
8)	Calcium	Ca	1.11	2,95	1.59	mg/L	n/a	n/a	no límit lísted
9)	Chromium	Cr	<0.010	<0.010	<0.010	mq/L	0.100	0.050	0.030
10)	Cobalt	Co	<0.020	<0.020	<0.020	mq/L	1.32	n/a	0.500
11)	Copper	Сц	<0.008	<0.008	<0.008	mg/L	0.030-0.127	0.050	0.500
12)	Gold	Au	<0.040	<0.040	<0.040	mg/L	n/a	n/a	no limit listed
13)	Iron	Fe	0.074	0.034	0.036	mg/L	1.00	0.300	1.00
14)	Lanthanum	La	<0.020	<0.020	<0.020	mg/L	n/a	n/a	no limit listed
15)	Lead	Pb	<0.500	<0.500	<0.500	ug/L	30.0	50.0	100
16)	Magnesium	Mg	0.183	0.382	0.285	mg/L	n/a	n/a	no limit listed
17)	Manganese	Mn	0.010	<0.004	<0.004	mg/L	n/a	0.100	0.050
18)	Mercury	Нg	<0.100	<0.100	<0.100	ug/L	2.00	1.00	5.00
19)	Molybdenum	Мо	<0.020	<0.020	<0.020	mg/L	n/a	n/a	0.500
20}	Nickel	Ni	<0.050	<0.050	<0.050	mg/L	n/a	0.100	0.500
21)	Phosphorus	Р	<0.065	<0.065	<0.065	mq/L	n/a	0.050	1.50
22)	Potassium	к	<0.030	0.036	<0.030	mq/L	n/a	n/a	no limit listed
23)	Scandium	Sc	<0.050	<0.050	<0.050	mg/L	n/a	n/a	no limit listed
24)	Selenium	Se	<0.500	<0.500	<0.500	ug/L	10.0	10.0	100
25)	Silicon	Si	0.099	0.237	0.186	mg/L	n/a	n/a	no limit listed
26}	Silver	Ag	<0.010	<0.010	<0.010	mg/L	0.010	0.005	1.00
27)	Sodium	Na	<0.050	0.616	0.377	mg/L	n/a	n/a	no limit listed
28)	Strontium	Sr	0.005	0.009	0.008	mg/L	75.0	n/a	no limit listed
29)	Tin	Sn	<0.020	<0.020	<0.020	mg/L	n/a	n/a	no limit listed
30)	Titanium	Ti	<0.010	<0.010	<0.010	mg/L	n/a	n/a	no limit listed
31)	Tungsten	W	<0.050	<0.050	<0.050	mg/L	n/a	n/a	no limit listed
32)	Vanadium	V	<0.010	<0.010	<0.010	mg/L	n/a .	10.0	no limit lísted
33)	Zinc	Zn	<0.001	<0.001	<0.001	mg/L	0.490-1.35	0.100	5.00
Hard	iness (mg/L	CaCO3)	3.51	8.94	5.14	mg/L	0-75 mg/L =	soft	
рН	-		6.72	7.08	6.93	units	6.5-9.0	6.5-9.0	5.5-11.0

As per Canadian or B.C. limits Ministry of Environment - Water Quality Criteria, Report No. 80-9, 1980. Task Force of the Canadian Council of Resource & Envir. Ministers As per Canadian Environmental Quality Guidelines Summary Table. Updated Dec 2003 Chapter 4, Water: Aquatic Life. EPA-822-R-02-07 & US EPA 822/R-85-100; WHO Eniv.134 1992

> R. Bilodeau Analytical Chemist

H. Hartmann Sr.Analytical Chemist

M.B. LABS LTD T: 656-1334 F: 656-0443

E: mblabs@pacificcoast.net W:

W: www.mblabs.com

APPENDIX 'C'

Town of Ladysmith ANNUAL REPORT

(Drinking Water System Name)

January 1, 2010 - December 31, 2010
759
Town of Ladysmith
Baker
) 245-3995
er@ladysmith.ca

1 Microbiological testing completed during this reporting period:

- a. bacteriological results attached to this report.
- b. adverse bacteriological results: None detected

x Listed in table below:

Adverse Results:

Date	Total coliform	E. Coli	Reason	Corrective Action
12/14/10	7		Sampling error	Re-sampled
03/09/10	2		Sampling error	Re-sampled

2 Chemical results for this reporting period:

- a. most recent chemical analysis attached to this report.
- b. chemical parameters listed in The Guidelines for Canadian Drinking Water Quality ("the Guidelines") are:
 - X all within Guidelines
 - above the Guidelines and are listed below:

Parameters above the Guidelines:

• Parameter	Result	Max. Acceptable Concentration	Aesthetic Objective	Treatment/Corrective Action

Town of Ladysmith ANNUAL REPORT

(Drinking Water System Name)

3 Summarize additional testing and sampling carried out in accordance with the requirement of a Water Source approval, Written Order or as per the conditions of your Operating Permit.

X no additional testing

additional testing listed below:

Additional testing:

Description of parameter & reason for sampling	Health parameter or non-health related parameter	Corrective action necessary (Y/N?)	Corrective action taken

4 Water Quality Complaints:

During the course of the year, the water system:

X did not receive water quality complaints (ie taste, odour, colour, etc)

Water Quality Complaints:

Date	Water quality complaint	Corrective action taken

5 Adverse results: Total number of adverse results during this reporting period for insufficient water supply, malfunction of disinfection equipment or elevated turbidity:

No adverse results X Adverse results listed below:

Adverse Results:

Incident date	Corrective action	Corrected by
06/24/10	Malfunction of valve (fixed)	Utilities Operators
•		

	Town of Ladysmith ANNUAL REPORT (Drinking Water System Name)
6	Description of the system: Sources of raw water: Groundwater X Surface water Other (specify):
	Does the drinking water system have disinfection? X Yes No Disinfection methods (check boxes that apply): X Chlorination Ultraviolet light Ozonation Other (specify):
	Does the drinking water system have treatment? Yes X No Treatment type (check boxes that apply): Particulate cartridge filters Membrane filtration Carbon filter Sand filtration Reverse osmosis Other (specify):
7	Major expenses incurred during the period covered by the report: To purchase or install required equipment:
	To complete specialist report (specify):
8	 Further communication with users: a. Indicate how you notified system users that your annual report is available, and is free of charge:

- hand delivered
 x public access/ notice via web
 public access/notice via government office
 public access/notice via newspaper
- public access/notice via bill stuffer Г
- public access/ notice via other method (specify):

Town of Ladysmith ANNUAL REPORT (Drinking Water System Name)	

- b. Improvements or remedial actions required by the Drinking Water Officer:
 - X no action required

Drinking Water Officer inspection report attached to report actions required by Drinking Water Officer listed below:

Improvements/Remedial Actions:

Required action	Completion date				

c. Future water system improvements: no improvements planned X improvements listed below:

Future Improvements:

- Future plans	Planned completion date
Centralized Treatment Facility	March 31, 2012
Interconnecting Pipeline	December 31, 2011

d. Emergency Response Plan can be accessed by:

X posting on web

posting at nearest government office

contacting water system owner

Other (specify): _

Town of Ladysmith



STAFF REPORT

Ruth Malli, City Manager Joe Friesenhan, Director of Public Works June 29, 2011

Re: LOW CONSUMPTION TOILETS

To:

From:

Date: File No:

RECOMMENDATION(S):

That the Committee recommend that Council direct staff to prepare an amendment to Section 6.12, Water Conservation, of the Town of Ladysmith Building and Plumbing Bylaw 1994, No 1119 to reduce the average water consumption of a water closet or direct flush urinals from 6 litres per flush cycle to 4.8 litres per flush cycle, and from 3.8 litres per flush cycle to 1.9 litres per flush cycle respectively.

PURPOSE:

To update the Town of Ladysmith Building and Plumbing Bylaw 1994, to meet the new plumbing and fixture requirements in the BC Building Code.

INTRODUCTION/BACKGROUND:

In 2004, the Town amended the Building and Plumbing Bylaw 1994, No. 1119 by adding the following section:

6.12 Water Conservation

- 6.12.1 Every water closet, whether tank type or dual flush, must be a low consumption type that
 - (a) conforms with the latest Canadian Standard Association (CSA) standards, and
 - (b) has an average water consumption not exceeding 6 litres per flush cycle.
- 6.12.2 Direct flush urinals must be a low consumption type that
 - (a) conforms with the latest Canadian Standards Association (CSA) standards and
 - (b) has an average water consumption not exceeding 3.8 litres per flush cycle

The Province has recently announced that it is taking another step toward increased water efficiency through new high efficiency toilet and urinal requirements in the BC Building Code. Effective October 3, 2011, high efficiency toilets or dual flush toilets will be required in new residential buildings or when renovations involving plumbing fixtures occur. Whenever urinals are installed, high efficiency urinals will be required.

In order to meet the new requirements of the Building Code, the following addition to the Town of Ladysmith Building and Plumbing Bylaw 1994, No 1119 Amendment Bylaw (No. 11) 2004, No. 1551 is required:

6.12.1 (b) has an average water consumption not exceeding 4.8 litres per flush, and 6.12.2 (b) has an average water consumption not exceeding 1.9 litres per flush

SCOPE OF WORK: N/A

ALTERNATIVES: N/A

FINANCIAL IMPLICATIONS;

LEGAL IMPLICATIONS;

This bylaw amendment is required in order to maintain compliance with the BC Building Code.

CITIZEN/PUBLIC RELATIONS IMPLICATIONS:

Continued reduction in water consumption is consistent with the Town's sustainability initiatives and should be positively received by the general public. Builders/renovators could express concern about potential higher costs of the higher-efficiency fixtures.

INTERDEPARTMENTAL INVOLVEMENT/IMPLICATIONS: N/A

RESOURCE IMPLICATIONS:

N/A

ALIGNMENT WITH SUSTAINABILITY VISIONING REPORT:

Aligns with Sustainability Pillars #3, Green Buildings, and #5, Innovative Infrastructure.

ALIGNMENT WITH STRATEGIC PRIORITIES:

The proposed bylaw amendment aligns with Strategic Direction D – Enhanced Standard of Infrastructure – Ensure a safe and sustainable water supply.

SUMMARY:

In order to meet the new requirements of the BC Building Code, which will come into effect on October 3, 2011, the following additions to the Building and Plumbing Bylaw 1994, 1119 are required:

6.12.1 (b) has an average water consumption not exceeding 4.8 litres and 6.12.2 (b) has an average water consumption net exceeding 1.9 litres

I concur with the recommendation.

() •

Ruth Malli, City Manager

ATTACHMENTS: "None".

YTD 2010	YTD 2011	Comparison	Demos Mth	TOTAL	DEC	NON	OCT	SEP	AUG	JUL	NNL	MAY	APR	MAR	FEB	JAN	Year t	NUL		
010	011	arison	Mth	თ							4	0	2	2	0	0	Year to Date	н	No. of Permits	Com
16	28	#DU	0	\$292,260							\$60	\$0	\$202,200	\$90,000	0\$	\$0		\$60	Values	Commercial
			Demos YTD	0							0	0	0	0	0	0		0	No. of Permits	Industrial
\$7,300,032 \$2,063,149	\$4,031,688	Value	0	\$0							0\$	\$0	\$0	\$0	\$0	\$0		\$0	Values	strial
2 79 9 46		1	L	2							0	0	0	2	0	0		0	No. of Permits	Institu
				\$20,000							\$0	\$0	\$0	\$20,000	\$0	\$0		\$0	Values	Institutional
\$8,928,174 \$4,486,270	\$4,882,852	Value		27							7	G	4	2	თ	з		7	No. of Permits (new res)	Resider
<u></u>	- 11			\$4,031,688							\$1,146,082	\$1,256,620	\$160,920	\$231,660	\$784,204	\$452,202		\$1,146,082	Values	Residential (NEW)
	Tom St	2~		47							σ	14	4	0	11	7		5	No. of Permits	Resi Adds, R
(d) V18, D'01	Tom Skarvig. Building Inspector			\$538,904							\$31,900	\$81,680	\$56,184	\$213,900	\$105,080	\$50,160		\$31,900	Values	Residential Adds, Renos, Other
	ding Inst	£	2	28							7	9	N	2	თ	ω		7	Units	Dwelling
	ector			81							13	23	7	12	16	10		13	0	Total
				\$37,120							\$9,641	\$10,773	\$3,043	\$4,091	\$5,367	\$4,205		\$9,641	Month	Bldg & Plbg
				\$4,882,852							\$1,178,042	\$1,338,300	\$419,304	\$555,560	\$889,284	\$502,362		\$1,178,042	This Month	Permit Values
	I			Ц 							\$4,882 6 52	\$3,704,810	\$2,366,510	\$1,947,206	\$1,391,646	\$502,362		\$4,882,852	2011	Permit Values

Building Permit Summary - June 2011

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TOWN OF LADYSMITH TROLLEY BUS ACTIVITY REPORT - Trollies 103/105

June 2011

Day	Date	Passenger Count	Fuel Litres	KM Start	KM Finish	Weather	Wheel Chairs	Service Dogs	Bikes
Wed	1	98	78	100905	101115	Sun/Cloud/Rain	0	1	2
Thur	2	90	84	101115	101323	Sun/Cloud/Rain	1	0	1
Fri	3	106	68	101323	101534	Sun/Cloud	1	. 0	2
Sat	4	73	72	101534	101746	Sun	0	0	2
Sun	5								
Mon	6	100	85	101746	101959	Sun	0	1	1
Tue	7	96	79	101959	102172	Sun/Cloud/Rain	1	1	3
Wed	8	86	80	102172	102383	Sun/Cloud	0	1	2
Thur	9	103	83	102383	102593	Sun/Cloud	0	0	3
Fri	10	103	82	102593	102804	Sun/Cloud	1	0	1
Sat	11	40	77	102804	103018	Sun/Rain	0	0	0
Sun	12								
Mon	13	97	65	103018	103229	Sun/Cloud	0	0	2
Tue	14	93	81	103229	103440	Sun/Cloud	0	1	1
Wed	15	87	80	103440	103651	Sun/Cloud	0	0	4
Thur	16	103	81	103651	103862	Sun	4	0	3
Fri	17	99	84	103862	104072	Sun/Cloud	0	1	4
Sat	18	85	62	104072	104284	Cloud/Rain	0	0	4
Sun	19								
Mon	20	95	66	104284	104495	Sun/Cloud	0	0	0
Tue	21	117	81	104495	104706	Sun/Cloud	1	0	1
Wed	22	143	92	104706	104914	Sun	2	1	4
Thur	23	77	78	104914	105121	Sun/Cloud	2	1	3
Fri	24	86	66	105121	105335	Sun/Cloud/Rain	0	0	1
Sat	25	73	67	105335	105549	Sun/Cloud	0	0	2
Sun	26								
Mon	27	86	69	105550	105763	Cloud/Rain	0	0	4
Tue	28	93	82	105763	105972	Sun/Cloud	2	1	2
Wed	29	88	77	105972	106186	Sun/Cloud	2	0	5
Thur	30	73	88	106186	106402	Sun/Cloud	0	1	2
TOTAL		2390	2007				17	10	59

DONATIONS FOR June 2011 - \$1057.46

DONATIONS YEAR-TO-DATE \$3961.68

AVERAGE DAILY RIDER COUNT FOR June 2011 - 91



Ladysmith Fire | Rescue

P.O. Box 760 Ladysmith, B.C. V9G 1A5 Phone: 250-245-6436 • Fax: 250-245-0917



FIRE CHIEF'S REPORT

MONTH: June, 2011

TYPE OF CALL OUT	J	F	М	А	М	J	J	А	s	0	N	D	YEAR'S TOTALS
Alarms Activated: Pulled Station			1										1
By mistake		2	3		3								8
Electrical problem	4	1		1	2								8
Due to cooking		1		1	1	2							5
Assistance			1										
Burning Complaint					1	9							10
Fire: Structure	2	1			1	1							5
Chimney	3		2										5
Interface / Bush	1				1	2							3
Vehicle		2	1								-		3
Other	1			1	2								4
Hazardous Materials	2	1		2	1	1							7
Hydro Lines: Down / Fire	2	-	1						1				3
Medical Aid	4	1	2	5	1								13
Mutual Aid	1		1	-	1								3
MVI	3	2	4	1	3	2							15
Rescue				2									2
MONTH TOTALS (not incl. Practises)	22	11	15	13	17	17							95
Practises (Totals for each Month)	4	4	5	4	5	4							26

ALARMS ACTIVATED (location/owner):

- Alarms activated 840 Esplanade, due to cooking 1.
- Alarms activated 840 Esplanade, due to burnt 2. toast.

COMPARISONS:

Year to Date / 11 _95_ (excl. practises)

Year to Date / 10 <u>80</u> (excl. practises)

Year to Date / 09 <u>78</u> (excl. practises)

APPROVED: Low Fire Chief

COASTAL ANIMAL CONTROL SERVICES OF BC LTD (250) 748-3395

2202 Herd Rd. Duncan, BC. V9L 6A6

TOWN OF LADYSMITH POUND REPORT RECEIVED June 2011 JUL 07 2011

Disposition of Impounde	d Dogs	Current Month	2011 Totals		
Stray dogs impounded		2	12		
Stray dogs claimed		2	11		
Stray dogs put up for adop	tion	0	1		
Stray dogs euthanized		0	0		
Stray livestock / cats		0	0		
Other		0	0		
Calls Received and Inves	tigated	15	54		
Aggressive dogs		3	8		
Dogs at large		3	16		
Confined dog		2	8		
Noise (barking) complaint	5	3	9		
Other non specific dog rela	ated calls	3	12		
Wildlife / livestock / cats		1	1		
After hour call outs		0	4		
Monthly Pound and Boar	rd Fees Collected	\$200.00	\$1260.00		
Impound fees		\$150.00	\$900.00		
Daily board fees		\$50.00	\$360.00		
Tickets issued		2	4		
Unlicenced dog		\$100.00	\$100.00		
Dog at large		\$100.00	\$200.00		
Dangerous dog not muzzle	ed (12e)	\$0	\$250.00		
Habitually noisy		\$0	\$0		
	Tags	2	23		
Licencing Statistics	Revenue	\$60.00	\$630.00		

Judi Burnett

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CAS Summary of Service Calls, Ladysmith 15 calls in total 01-Jun-11 to 30-Jun-11

Issue	Call #	Received	Туре	Completed	
Aggressive		3			· · · · · · · · · · · · · · · · · · ·
	873	[.] 28-Jun-11	Dog	30-Jun-11	
	864	13-Jun-11	Dog	24-Jun-11	
	863	07-Jun-11	Dog	24-Jun-11	
At large		3			
	871	24-Jun-11	Ďog	27-Jun-11	
	868	22-Jun-11	Dog	30-Jun-11	
	867	20-Jun-11	Dog	21-Jun-11	
Cats/Wildlife	/Livestoc	k 1			
	870	22-Jun-11	Dog	23-Jun-11	
Confined	2. مار	2	\$\$\$\$\$U\$, , , , , , , , , , , , , , , , , , ,
	865	16-Jun-11	Dog	18-Jun-11	
	861	02-Jun-11	Dog	03-Jun-11	
Noisy		3			
	874	29-Jun-11	Dog	04-Jul-11	
	872	28-Jun-11	Dog		
	866	20-Jun-11	Dog	22-Jun-11	
Other		3			
	875	30-Jun-11	Dog	04-Jul-11	
	869	23-Jun-11	Dog	06-Jul-11	
	862	03-Jun-11	Dog	17-Jun-11	

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