

REGULAR MEETING OF COUNCIL

AGENDA

DATE:		Monday, March 2, 2015	
TIME:		4:30 p.m.	
LOCA	HON:	Council Chambers, Enderby City Hall	
1.	APPR	OVAL OF AGENDA	
2.	ADOP	TION OF MINUTES	
	Regula	ar Meeting Minutes of February 16, 2015	pg 1-5
3.	PUBL	IC AND STATUTORY HEARINGS	
4.	PETIT	IONS AND DELEGATIONS	
	Chad I Re:	Eliason, Councillor City of Salmon Arm SILGA Convention	pg 6-17
	Bernie Re:	Desrosiers, President – Shuswap Settlement Services Community Conversation and Workshop	pg 18
5.	DEVE	LOPMENT MATTERS	
	none		
6.	BUSIN	IESS ARISING FROM THE MINUTES AND/OR UNFINISHED BUSINESS	6
	none		
7.	BYLA	ws	
	none		
8.	REPO	RTS	
	<u>Mayor</u>	and Council	
	Buildin	g Permit Detail Report – January 2015	pg 19-20
	<u>Drinkir</u>	ng Water Annual Report for 2014	pg 21-33
	Waste	water Annual Report for 2014	pg 34-52

9. NEW BUSINESS

- a. <u>Enderby Return-It Recycling Depot</u> Correspondence dated February 23, 2015 pg 53-54

 Re: Additional Recycleable Materials Now Accepted
- b. Planters on Belvedere Street memo from Chief Administrative Officer dated February 25, 2015 pg 55-56
- c. <u>Digital Billboard Sponsorship Application Enderby Curling Club</u> Memo from Assistant Corporate Officer and Planning Assistant dated February i7, 2015 pg 57-58

10. PUBLIC QUESTION PERIOD

11. CLOSED MEETING RESOLUTION

Closed to the public, pursuant to Section 90 (1) (k) of the Community Charter

12. ADJOURNMENT

THE CORPORATION OF THE CITY OF ENDERBY

Minutes of a Regular Meeting of Council held on Monday, February 16, 2015 at 4:35 p.m. in the Council Chambers of City Hall

Present: Mayor Greg McCune

Councillor Tundra Baird Councillor Brad Case

Councillor Roxanne Davyduke Councillor Raquel Knust Councillor Brian Schreiner Councillor Shawn Shishido

Chief Administrative Officer – Tate Bengtson Deputy Administrative Officer – Barry Gagnon Chief Financial Officer – Jennifer Bellamy

Assistant Corporate Officer and Planning Assistant - Kurt Inglis

Recording Secretary - Bettyann Kennedy

The Press and Public

APPROVAL OF AGENDA

Moved by Councillor Case, seconded by Councillor Knust that the agenda be approved as circulated.

Carried Unanimously

ADOPTION OF MINUTES

Regular Meeting Minutes of February 2, 2015

Moved by Councillor Schreiner, seconded by Councillor Shishido that the minutes of the regular meeting of February 2, 2015 be adopted as circulated.

Carried Unanimously

PETITIONS AND DELEGATIONS

Gabriele Wesle, President - Enderby Open Air Farmers Market

Re: 2014 Report and Proposed Improvements for 2015

Gabriele Wesle reported that the 2014 season was successful in the new location behind City Hall. The market donates to Family Place, Santa's Workshop, 4-H, and awards 2 \$300 scholarships to Enderby students.

The following feedback was provided by customers and vendors:

- Gravel surface of parking lot was challenging for walkers and strollers.
- Main street location was preferred by some customers, but vendors noticed an increase in visibility due to highway exposure. More tourists stopped to shop.
- Parking was a bit more challenging.
- Morning market meant working people could not visit.
- More garbage cans needed.

- Chamber of Commerce tent was well received.
- Advertising on electronic billboard would help with exposure.

Problems and recommendations:

- Customers are cutting through the flower beds between parking lots. They suggest a
 path be developed connecting the 2 parking lots and maybe a fence by the bus shelter.
- Grading of the parking lot before market season and filling in holes.
- Having a first aid kit on site.
- Providing more garbage cans.
- Consideration is being given to have an evening market if the business community would be on board.

BUSINESS ARISING FROM THE MINUTES AND/OR UNFINISHED BUSINESS

<u>Community Book Exchange</u> – Verbal Update from Mayor McCune

A Community Book Exchange has been quite successful in a number of small communities. Decorative structures are built to store books. People can help themselves to books and leave books for others. A number of potential sites were identified. The high school woodworking class and/or Lions Club could possibly construct the boxes. Council will further explore this initiative.

REPORTS

Councillor Case

The Shuswap Trail Alliance fundraiser was a huge success. The event was sold out and raised \$35,000.

Councillor Davyduke

- AL Fortune presentation of "Grease" is Mar 2 7. Friday's show is almost sold out.
- Fireman's Suitcase Dance was sold out. There were many new faces, due in part to the electronic billboard.
- Kudos to works crew and staff for getting help in place so quickly following the slide event on Granville Avenue.
- Shuswap Trail Alliance fundraiser was a huge success.

A tour of the water and wastewater plants will take place on April 13th. Everyone to meet at the water plant at 4:30 pm.

Councillor Knust

- Attended a Seniors Wellness Fair in Armstrong.
- FACTT Seed Swap is Mar 7. Representatives from the gleaning program will be there.
- Creating a place to house fruits and vegetables. "The Hut" will be hosted by the Evangelical Chapel who will be providing refrigerators. Various markets donate leftover produce. They hope to one day have a permanent structure in a central location.
- The Resource Centre is facing a rent increase.

A date of April 18th was set for the annual Enderby Clean-Up.

Councillor Shishido

Councillor Shishido met with Bea Kirkwood-Hackett about the composting initiative.

Councillor Schreiner

Expressed appreciation to works crew and staff for dealing with the recent flooding issues around town.

Councillor Baird

- New signage for south end of town will be discussed at next C2C forum.
- Library Board meeting is on Tuesday. Enderby Library now has a self-checkout.
- Attended public skating and noted that a music system is needed. A list of other "fixes" including the clock, heating, and lights will be drafted to present to the Enderby and District Services Commission.

Mayor McCune

- Attended a Mayor/RCMP quarterly meeting. The police are facing challenges of downloading from the Federal Government. Workplace accidents are now lead by the RCMP before going to Worksafe BC. Had an informal meeting with the local RCMP.
- Technology the key focus should be the value rather than the cost.
- Reminder that the Splatsin railway corridor meeting is tomorrow from 5 -7.

NEW BUSINESS

<u>Inflow and Infiltration Management Plan</u> – Memo from Chief Administrative Officer dated February 11, 2015

Moved by Councillor Baird, seconded by Councillor Case that the Inflow and Infiltration Management Plan be received and filed.

<u>Carried</u> Unanimously

The Chief Administrative Officer made reference to the chart on page 7 of the report showing the gaps between average and maximum daily flows. When the system goes over capacity, extra testing is done. 2014 is already showing a spike similar to the one in 2012 due to "significant" storm events become more frequent and more extreme than in past history.

<u>Bylaw Dispute Adjudication System</u> – Memo from Assistant Corporate Officer and Planning Assistant dated February 12, 2015

Moved by Councillor Case, seconded by Councillor Schreiner that Council authorize staff to proceed with implementing a Bylaw Dispute Adjudication System; and

THAT Council authorize an annual expenditure of approximately \$1,000 to participate in the program.

Carried Unanimously

<u>2015 – 2017 Gardens and Grounds Maintenance Contract</u> – Memo from Chief Financial Officer dated February 12, 2015

Moved by Councillor Baird, seconded by Councillor Knust that Council award the Gardens and Grounds Maintenance Contract for 2015 – 2017 to Summer Scape Designs; and

THAT the Mayor and Chief Administrative Officer be authorized to execute the contract on behalf of the City of Enderby.

Carried Unanimously

The cost of flowers will be separate from the contract. Staff will work with staff, contractor, and Council to identify the needs of the community and to get the planters more centrally located.

PUBLIC QUESTION PERIOD

Gabriel Wesle suggested that if new soil is being placed in the garden beds, the market would provide volunteers to plant vegetables amongst the flowers. Councillor Baird will work with Gabrielle on this idea.

CLOSED MEETING RESOLUTION

Moved by Councillor Case, seconded by Councillor Shishido that, pursuant to Section 92 of the Community Charter, the regular meeting convene In-Camera to deal with matters deemed closed to the public in accordance with Section 90 (1) (c), (i), and (g) of the Community Charter.

Carried Unanimously

ADJOURNMENT

The regular meeting reconvened at 6:35 p.m.

The following item was de-classified from confidential to non-confidential:

509 Mill Avenue (Gypsy Bazaar) Unlawful Occupancy and Code Noncompliance – memo from Chief Administrative Officer dated February 12, 2015

Moved by Councillor Baird, seconded by Councillor Schreiner that Council receives and files the memoranda from the Regional District of North Okanagan Senior Building Inspector dated February 6, 2015, the City of Enderby Fire Chief and Local Assistant to the Fire Commission dated February 10, 2015, and the City of Enderby Assistant Corporate Officer and Planning Assistant dated October 23, 2014 regarding 509 Mill Avenue; and

THAT Council direct staff to deliver, concurrently with the posting of the "Do Not Occupy" notice by the Regional District of North Okanagan Senior Building Inspector, correspondence to each of the occupants explaining the risks of ongoing tenancy at 509 Mill Avenue; and

THAT Council direct staff to assemble an interagency team to assist displaced tenants of 509 Mill Avenue; and

THAT Council authorize staff to obtain an injunction against the owner of 509 Mill Avenue to end the occupation until such time as the structure is brought into compliance with the BC Building

Code, BC Fire Code, the City of Enderby Zoning Bylaw, and other applicable regulations, statutes, or codes; and

THAT Council respectfully request that the Regional District of North Okanagan consent to being added as a plaintiff in the action to be filed for the purpose of enforcing Regional District of North Okanagan Bylaw No. 1747 with respect to infractions at 509 Mill Avenue and contributes to the enforcement costs; and

THAT the rationale for proceeding with enforcement be released from in-camera, but the remainder of the memoranda, attached reports (including photographs), legal advice, and other related matters remain in-camera; and

FURTHER THAT, concurrently with the "Do Not Occupy" notice being posted, a press release be released by the City of Enderby, potentially in conjunction with RDNO, describing the matter.

<u>Carried</u> Unanimously

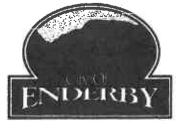
The regular meeting adjourned at 6:36 p.m.

Moved by Councillor Shishido, seconded by Councillor Knust that the meeting adjourn at 6:36 p.m.

Carried Unanimously

MAYOR	CHIEF ADMINISTRATIVE OFFICER

therage



Date of Request

REQUEST TO APPEAR AS A DELEGATION

Feb 10/15 Name of Person Making Request ____ Check Eliksen Name and Title of Presenter(s) ______ 514614 Contact Information CHAO ELTASO / Details of Presentation 3-7 minutes 7

Desired Action from Council (check all that apply)

- ☑ Information Only
- □ Proclamation
- ☐ Funding Request
- □ Road Closure
- □ Policy or Resolution

Presentation, then Ask a question or two.

Please attach any supporting documentation or presentation materials related to your delegation request.

Local Government Association Southern Interior



Awareness is Opportunity

SILGA MISSION STATEMENT

- each community within the BC Southern Interior Region to provide a strong and effective voice of common issues and regional initiatives.
- SILGA meets on average 4-6 times a year; the meeting location varies between SILGA communities.
- If your community would like SILGA to schedule a meeting in your community, just ask.





2014-2015 SILGA EXECUTIVE

President, Councillor Marg Spina

City of Kamloops

Past President, Director Rhona Martin

CSRD

1st Vice President, Councillor Chad Eliason

City of Salmon Arm

2nd Vice President, Director Patty Hanson
CORD

Director at Large, Mayor Marg Lampman

District of Lilllooet

Director at Large, Director Willow MacDonald TNRD

Director at Large, Councillor Kim Maynard
City of Princeton

Director at Large, Councillor Shelley Sim

District of Clearwater

Director at Large, Charlie Hodge

City of Kelowna

Director at Large, Vacant

Regional District Representative, Mike Macnabb **Executive Director, Alison Slater** RDNO

Kamloops

P9

SILGA Geographical Area Card of Thompson Nicola • District of Clearwater Central Columbia Shuswap Parada Revenue

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Who are SILGA Members?

City of Enderby

City of Armstrong

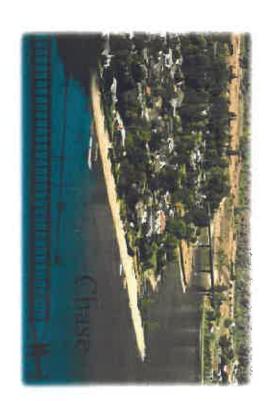
District of Summerland District of Sicamous District of Peachland District of Logan Lake District of Lillooet District of Lake Country **District of Coldstream** District of Clearwater District of Barriere City of Vernon City of Salmon Arm City of Revelstoke City of Penticton City of Merritt City of Kelowna City of Kamloops

Sun Peaks Resort Municipality Village of Lytton Village of Lumby Village of Keremeos Village of Cache Creek Village of Ashcroft Village of Clinton Village of Chase Squamish Lillooet RD **Town of Oliver** Thompson Nicola RD Okanagan Similkameen RD **District of West Kelowna Town of Princeton** Town of Osoyoos North Okanagan RD Central Okanagan RD Township of Spallumcheen Columbia Shuswap RD

What is our purpose?

- To speak as ONE voice for local government issues of our members.
- To promote and advance to the UBCM proposed changes in legislation, regulations or government policy
- To provide education to local officials, conveniently and at low cost
- To coordinate communication between SILGA members





What are SILGA's Goals?

- To identify issues that affect our members
- To encourage communication and sharing of best practices
- To provide a strong, effective voice for common issues
- To champion regional issues to UBCM and senior governments
- To strive to have the best educated elected officials in BC
- To provide professional development and education



How will we achieve our goals?

- Meet with all SILGA membership prior to the annual convention.
- Engage our membership on issues affecting them.
- Encourage our members to submit resolutions for the annual SILGA convention for discussion and support at the UBCM convention.
- Continue to increase communication with senior levels of government.





SILGA Successes

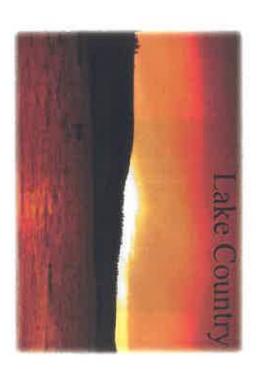
- Quagga and Zebra mussel monitoring and prevention into interior waterways
- Fire zones monitored within fire regions rather than a one size fits all approach
- Amendments to meat processing regulations to ensure small operators are still viable
- Strategic wildfire/interface fire prevention
- Finance 101

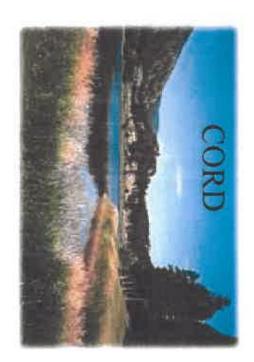




Current Issues SILGA is working on

- Doctor recruitment in rural areas
- Fire department expenses





2015 SILGA Convention Kamboops

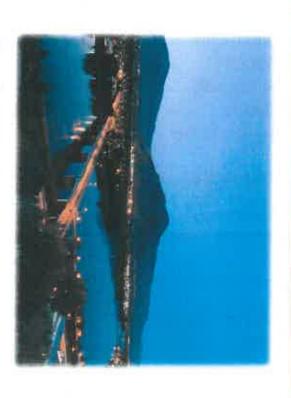
When?

April 29th to May 1st

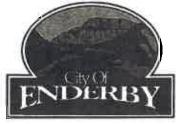
What are the benefits of attending the convention?

- Gold Star Resolutions
- Keynote Speakers
- Educational Sessions
- Networking Opportunities
 Lots of Fun!





Azerda



€ Policy or Resolution

REQUEST TO APPEAR AS A DELEGATION

Date of Request
Name of Person Making Request Bonce Desvosiers
Name and Title of Presenter(s) Bernie Degrasiers - President Shusway
Schlenet Sauce Frank Bugula President Plan B: 6 Society Contact Information Someroses @ shaw. aa 838-6445
Details of Presentation Invitation to a Head community connewsation
on March 22 Nd - Workshop - March 23
Desired Action from Council (check all that apply)
Information Only
€ Proclamation€ Funding Request
€ Road Closure

Please attach any supporting documentation or presentation materials related to your delegation request.

Please describe desired action in detail Register for event.



Regional District of North Okanagan Building Permit Detail Report for Jan 2015

THERE ARE NO PERMITS FOR THE PERIOD

For Area: Enderby

	Area:	vay.
	Cost:	Formit:
		Cwner:
		Construction postion.
Units:	Permit Desc:	
Fir Area:	Value:	
I OTAL:	Cumulative	



Regional District of North Okanagan Building Inspections Statistical Report for Jan 2015

- China																		
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Residential	2	5		\$247,115	0	0		\$0	0	0	\$6	0	٥	\$6		°	°	\$0
Residential YTD	2	5		\$247,115	0	0		\$0	0	0	\$0	0	0	\$0		0	0	\$0
Commercial	0	2		\$110,000	0	<u> </u>	\$100	\$100,000	0	0	\$	0	0	\$0		0	0	\$0
Commercial YTD	0) 2		\$110,000	0	_	\$100	\$100,000	0	0	\$0	0	0	\$0		0	0	\$0
Industrial		0		\$0	0	0		\$6	0	0	\$0	0	0	\$0	ļ	0	0	\$0
Industrial YTD		0		\$0	0	0	:	\$0	0	0	\$0	0	0	\$0	ļ	0	0	\$0
Public	0	0		\$0	0	0		\$0	0	0	\$0	0	0	\$0		0	0	\$0
Public YTD		0		\$0	0	0		\$0	0	0	\$0	0	0	\$0		0	0	\$0
Agricultural				\$	0	0		\$0	0	0	\$6	0	0	\$0		0	0	\$0
Agricultural YTD	0	0		\$0	0	0		\$0	0	0	\$0	0	0	\$0		0	0	\$0
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Last Yr to Date	؞	, i		\$897,600		0		8	0	0	\$6		-	\$223,600		0	2 \$7.	\$74,400

Building Permits Report Page 1 of 1
Printed: 2/17/2015

Totals for all Areas:

 Vear To Date
 Units
 Permits
 Value

 Year To Date
 2
 8
 \$457,115.00

 Last Year To Date
 4
 13
 \$1,195,600.00



Asenda

MEMO

To:

Mayor and Council

From:

Tate Bengtson, CAO

Date:

February 23, 2015

Subject:

Drinking Water Annual Report for 2014

RECOMMENDATION

THAT Council receives and files the Drinking Water Annual Report for 2014.

AND THAT Council directs staff to post the Drinking Water Annual Report for 2014 on the City of Enderby website.

BACKGROUND

Pursuant to the British Columbia Drinking Water Protection Act and the British Columbia Drinking Water Regulation, the City of Enderby must publish an annual drinking water report.

Highlights

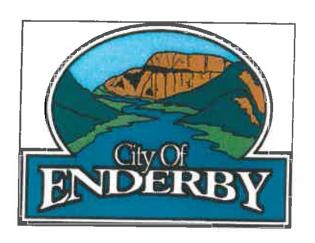
- In 2013, the total water distributed through the City of Enderby water system was 624,476 m³. The maximum one-day demand was on July 15 at 4,445 m³. By contrast, in 2013, the total water distributed was 631,787 m³ and the maximum one-day demand was on August 12 at 4,479 m³.
- In 2013, the City of Enderby spent \$461,364 to provide safe drinking water. This
 includes water treatment processes such as chlorination, ultraviolet, and filtration as well
 as improvement, repair, and maintenance of the distribution system. Materials, labour,
 and energy were the three largest cost categories.
- The total replacement value for the City of Enderby water distribution system (such as pipes and pumps) is \$18,348,214. The total replacement value for the City of Enderby water treatment system (such as buildings, clarifier, chlorinators, and ultraviolet) is \$3,579,153. Note that the valuation of the system was revised in early 2014 with the completion of the asset management inventory. This had a proportional impact upon the depreciation value, both of which decreased.
- The City contended with multiple water breaks in 2014.
- The City has made progress on its water conservation program.

The report also provides a summary of emergency response and contingency plans in accordance with Section 13(4) of the Drinking Water Regulation. The emergency response plan was last updated on February 15, 2015.

Respectfully submitted,

Tate Bengtson

Chief Administrative Officer



DRINKING WATER ANNUAL REPORT 2014



February 23, 2015

Contents

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Cross Connection Control Program	
Emergency Response Plan	

Introduction

The City of Enderby operates and maintains a public water distribution system in accordance with the Drinking Water Protection Act and Regulations¹ and the Guidelines for Canadian Drinking Water Quality.²

Pursuant to Section 15 of the British Columbia Drinking Water Protection Act and Section 11 of the British Columbia Drinking Water Regulations, the City of Enderby provides the following Annual Drinking Water Report for 2014.

The goal of the City of Enderby is to provide clean, safe, and reliable drinking water. Our drinking water must meet or exceed criteria defining "high quality drinking water." The Federal-Provincial-Territorial Committee on Drinking Water defines high quality drinking water as:

free of both disease-causing organisms and chemicals in concentrations that have been shown to cause health problems. Such drinking water has minimal taste and odour, making it aesthetically acceptable to the public for drinking.³

High quality drinking water must meet requirements with respect to the following:

- Maximum acceptable concentrations of microbiological organisms (such as enteric viruses and E. Coli);
- Maximum acceptable levels of turbidity;
- Maximum acceptable concentrations of chemical contaminants;
- Specific physical parameters; and
- Aesthetic objectives related to taste, colour, and odour.

The City accomplishes these requirements through a multi-barrier approach to treatment. A multi-barrier approach is required as "the limitations or failure of one or more barriers may be compensated for by the effective operation of the remaining barriers. This compensation minimizes the likelihood of contaminants passing through the entire system and being present in sufficient amounts to cause illness to consumers."⁴

There are a variety of potential hazards to drinking water which must be controlled. These threats involve chemical and microbiological pathogens that may be introduced at the source or intake, during treatment, or during distribution. These hazards are an ever-present risk to our drinking water supply. The City uses a robust water quality monitoring regime and multi-barrier treatment to manage these risks and protect the public.

¹ Province of BC, "Drinking Water Protection Act" (Victoria, BC: 2001).

² Health Canada, "Guidelines for Canadian Drinking Water Quality" (Ottawa, Ontario: 2012).

³ Federal-Provincial-Territorial Committee on Drinking Water and the CCME Water Quality Task Group, "From Source to Tap: Guidance on the Multi-Barrier Approach to Safe Drinking Water" (Ottawa, Ontario: 2004), 14. ⁴ Ibid., 17.

Water System Overview

The Enderby water system consists of 3 main sources:

- Brash Creek (surface water decommissioned);
- Shuswap Well (ground water; not determined if under the direct influence of surface water);
- 3. Shuswap River (surface water).

The total amount of pipe in the distribution system is 30,266 meters. This consists of 11,648 meters of PVC pipe and 18,618 meters of concrete pipe.

All water is chlorinated prior to distribution. The Shuswap River water is filtered through a two-stage rapid filtration system which reduces turbidity and minimizes the threat of giardia and cryptosporidium. The Shuswap Well and Brash Creek (prior to decommissioning) are piped into the Water Treatment Plant and the clearwell.

Under normal operation, water from the Shuswap River is filtered and chlorinated, then pumped from the clearwell through the UV disinfection system and into the distribution system to the two water reservoirs located on the Knoll. Water from the Shuswap Well is chlorinated on-site and pumped to the clearwell, then through the UV disinfection system to the reservoirs. There is a total of 2,400 m³ of reservoir capacity. Depending on demand, both systems can operate in conjunction. Each system can be isolated and run to the reservoirs alone. All water supplies can be operated with a portable generator.

It should be noted that, when water is drawn from the Shuswap Well supply, a number of customers east of the Enderby Bridge which are most proximate to the well source receive water that is not disinfected with UV light and has limited chlorine contact time. When all supply is from the Shuswap River source, all customers receive fully treated water.

Under current operating parameters, the combined source capacity of the Shuswap River and the Shuswap Well is 4,753 m³ per day. The ultimate source capacity, with infrastructure changes and assuming the capability to operate the Shuswap Well for twenty-four hours per day, is 6,135 m³.

Annual Consumption Data

In 2014, the total water distributed through the City of Enderby water system was 624,476 m³. The maximum one-day demand was on July 15 at 4,445 m³.

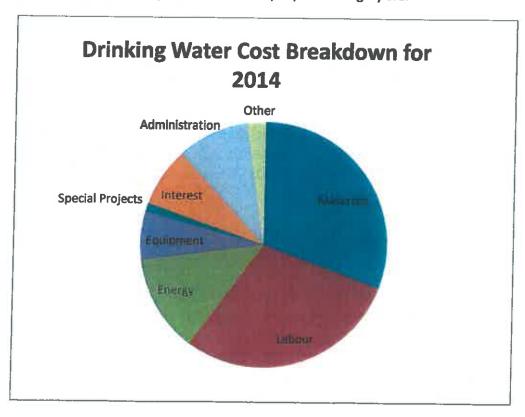
By contrast, in 2013, the total water distributed was 631,787 m³ and the maximum one-day demand was on August 21 at 4,429 m³.

The following chart shows minimum, maximum, and average daily demands by month for 2014.

Month	Max. Daily Demand (m3)	Avg. Daily Demand (m ³)
January	3131	1599
February	2314	1539
March	1889	1530
April	2362	1769
May	3500	2122
June	3579	2538
July	4445	2999
August	3197	2106
September	2058	1429
October	1811	1028
November	1336	1052
December	1430	1079

Drinking Water Cost Breakdown

In 2014, the City of Enderby spent \$461,364 to provide safe drinking water. This includes water treatment processes such as chlorination, ultraviolet, and filtration as well as improvement, repair, and maintenance of the distribution system. The costs by expense category are:



The following chart describes the dollar value associated with each expense category:

Category	Value
Materials	141,256
Labour	135,958
Energy	59,055
Equipment	29,433
Special Projects	5,163
Interest	35,840
Administration	43,824
Capital	-
Other	10,835
Total	461,364

Water System Assessment and Infrastructure Deficit

The total replacement value for the City of Enderby water distribution system (such as pipes and pumps) is \$18,348,214. As of December 31, 2014, the total depreciation is \$7,909,211. The remaining value is \$10,439,003.

The total replacement value for the City of Enderby water treatment system (such as buildings, clarifier, chlorinators, and ultraviolet) is \$3,579,153. As of December 31, 2014, the total depreciation is \$1,166,529. The remaining value is \$2,412,624.

In 2014, \$152,192 was contributed to the City of Enderby water reserve fund. No funds were withdrawn from the water reserve fund during the year. The interest earned on the reserve fund was \$9,681. The balance of the City of Enderby's water reserve fund as of December 31, 2014 is \$660,441.

There were no capitalized assets for 2014.

In order to address its infrastructure deficit, the City has committed to an incremental water utility tax increase of 1% per year. This amount will be dedicated to capital renewal.

Note that there were some changes made to the overall valuation of the water system as a result of the completion of the City's asset management inventory in early 2014, which resulted in a reduction of the replacement and depreciation values.

Completed Major Projects

There were several major water infrastructure projects in 2014:

- 1. Turbidity monitoring at the Shuswap Well was integrated into the SCADA system;
- 2. Meter rate structure and billing process was tested and a rate established by bylaw, further to 2015 implementation of metered billing for all water customers;

- 3. Long-term planning analysis for water infrastructure was nearly completed;
- 4. Gunter-Ellison booster station was re-plumbed.

One project planned for 2014, cleaning of Reservoir 2, was deferred in favour of other projects.

Forthcoming Major Projects

In 2015, the following projects are scheduled:

- 1. Obtain jar testing equipment and train staff on using it to select appropriate coagulant application rate for given raw water conditions.
- 2. Clean and perform interior inspection of Reservoir 2.
- 3. Complete long-term infrastructure plan for water system.
- 4. Re-start cross connection program.
- 5. Commence source protection planning process.

Water Quality Monitoring

Daily samples are collected at the Shuswap Well and Riverbank sites and tested for pH, temperature, and turbidity. Daily samples are also collected at the Water Treatment Plant and the BCA filter for testing pH, temperature, turbidity, and colour. The clearwell is also tested on a daily basis for pH, temperature, turbidity, colour, and free and total chlorine.

Weekly system checks and distribution samples are tested for free chlorine residuals to ensure a minimum residual of 0.20 mg/L is found at the furthest points in the distribution system. Residuals were above the minimum threshold for all sample locations and dates.

At least once per month, samples are collected at 13 monitoring stations for microbiological testing, including 3 sites in east Enderby, 4 sites in west Enderby, 3 sites in central Enderby, and 3 source water sites. Monthly samples are also collected at the Shuswap Well and the Water Treatment Plant effluent point. No Coliforms or E. Coli were detected at any of the sample points with the following exceptions:

- 1) The Shuswap River raw water sample location, which had Coliform counts ranging from 23 to 400 per 100 mL and E. Coli levels ranging from undetectable to 26 per 100 mL. As Coliforms and E. Coli occur naturally in the environment, these levels are expected and help explain why the City of Enderby needs to treat its drinking water.
- 2) The Shuswap Well sample location, which had a Coliform count of 1 on December 16, 2014.
- 3) The Brash PRV sample location, which had a Coliform count of 1 on March 5, 2014.

No E. Coli was detected at any point in the distribution system.

The BCA filter backwash is sampled on a bi-monthly schedule for pH, conductivity, turbidity, total suspended solids, aluminum, and microbiology.

On a quarterly basis, trihalomethane (THM) samples are collected from the Brash PRV, Booster #1, and Valcairn stations. THMs are by-products caused by the chemical reaction between chlorine and organic

matter naturally present in water. High levels of THMs can have adverse health effects and, as a result, the *Guidelines for Canadian Drinking Water Quality* set a maximum acceptable concentration of 0.1 mg/L. All THM tests from the above sample stations reported a range well below the maximum acceptable concentration, with concentrations ranging from 0.004 to 0.034 mg/L.

Also sampled on a quarterly basis are the Shuswap Well and Shuswap River sources for total organic carbon.

The Shuswap River is sampled annually for comprehensive testing. The Shuswap Well is sampled every three years for comprehensive testing. Comprehensive tests were performed on both sources in 2014 and are as follows:

Test	l Unit	River) Well
Alkalinity, Total as CaCO3	mg/L	43	54
Chloride	mg/L	0.39	1.66
Fluoride	mg/L	<0.10	<0.10
Nitrogen, Nitrate as N	mg/L	<0.010	0.252
Nitrogen, Nitrite as N	mg/L	<0.010	<0.010
Sulfate	mg/L	5.6	5.6
UV Transmittance @ 254nm	% T	90.4	96.2
Colour, True	CU	6	<5
Cyanide, total	mg/L	<0.010	<0,010
Turbidity	NTU	1.1	0.1
pH	pH units	7.58	7.23
Conductivity (EC)	uS/cm	96	124
Hardness, Total (Total as CaCO3)	mg/L	43.4	51
Solids, Total Dissolved	mg/L	50.5	64.3
Aluminum, total	mg/L	0.07	<0.05
Antimony, total	mg/L	<0.001	<0.001
Arsenic, total	mg/L	<0.005	<0.005
Barium, total	mg/L	<0.05	<0.05
Beryllium, total	mg/L	<0.001	<0.001
Boron, total	mg/L	<0.04	<0.04
Cadmium, total	mg/L	<0.0001	<0.0001
Calcium, total	mg/L	14.1	15.4
Chromium, total	mg/L	<0.005	<0.005
Cobalt, total	mg/L	<0.0005	<0.0005
Copper, total	mg/L	<0.002	0.004
iron, total	mg/L	0.13	<0.10
Lead, total	mg/L	<0.001	<0.001
Magnesium, total	mg/L	2	3
Manganese, total	mg/L	0.009	<0.002
Mercury, total	mg/L	<0.0002	<0.0002
Molybdenum, total	mg/L	<0.001	0.001
Nickel, total	mg/L	<0.002	<0.002
Phosphorus, total	mg/L	<0.2	<0.2
Potassium, total	mg/L	0.5	1.1
Selenium, total	mg/L	<0.005	<0.005
Silicon, total	mg/L	<5	6
Silver, total	mg/L	<0.0005	<0.0005
Sodium, total	mg/L	1.3	3.7
Uranium, total	mg/L	0.0003	<0.0002

Vanadium, total	mg/L	<0.01	<0.01
Zinc, total	mg/L	<0.04	<0.04
Coliforms, Total (MPN)	MPN/100mL	> 23	<1.1
Coliforms, Fecal (MPN)	MPN/100mL	23	<1.1
E. coll (MPN)	MPN/100mL	4.4	<1.1

Environmental Operators Certification

City of Enderby operators are progressing towards required EOCP certifications. Interior Health requires that the City has a designated chief operator certified at Level III for Water Treatment and Level II for Water Distribution.

As of December 31, 2014, City of Enderby operators are certified as follows:

Name	Title	Water Treatment	Water Distribution
Kevin Walters	Systems Operator I	Level II	Level I
Clayton Castle	Lead Hand	Level I	Operator-in-Training
Jamie Prevost	Utility Worker III	Operator-in- Training	Operator-in-Training
Robert Hubley	Utility Worker III	Operator-in- Training	Operator-in-Training
Ray Brown	Utility Worker III/Facility Maintenance Worker	Operator-in- Training	Operator-in-Training

In 2013, the City commenced cooperation with Corix Utilities' Senior Water Specialists to meet Chief Operator certification requirements and gain expert consultation and relief/emergency support.

In 2015, the City anticipates that internal staff will have the necessary certifications to serve as Chief Operator.

Major Events

The City had to contend with multiple water breaks in 2014, including ones on Granville Avenue, Enderby-Mabel Lake Road, Maud Avenue, and Stanley Avenue.

During the Cook Creek washout in early May, 2014, the City of Enderby relied upon the Shuswap Well due to elevated turbidity levels in the raw water. Other events included a power outage to the Shuswap Well caused by a major electrical storm on July 24, 2014, and a flange gasket failure that led to water flowing back into the clearwell on October 12, 2014.

Water Conservation Plan

The City of Enderby's Water Conservation Plan establishes strategies to reduce water demand throughout the community. Reducing water demand helps to protect our water resources, mitigate requirements for infrastructure expansion, and reduce operating and maintenance costs.

As of December 31, 2014, the City of Enderby has achieved a number of strategies within its Water Conservation Plan, including:

1. Education

- a. Implementing a Water Conservation Education program which uses informational materials to raise awareness of our water resources.
- b. Celebrating Drinking Water Week 2014 with a staff-guided public tour of the Water Treatment Facility.
- c. Continuing compliance patrols and enforcement by a City of Enderby Bylaw Enforcement Officer with respect to sprinkling regulations.

2. Metering and Rates

- a. Council adopted by bylaw a rate structure to balance conservation and equity.
- b. Amended the Building Bylaw to include requirements for water meters.
- c. Amended Municipal Type Service Agreement with the Splatsin Band to require water meters on reserve connections serviced by the City, which were installed by Splatsin in 2013.
- d. Amended policy for out-of-town service connections (e.g. Area F customers) to require water meters on connections serviced by the City.
- e. Completed water meter installations on all residential, commercial, industrial and civic properties within the City. Meter installations for all water customers outside of City limits have also been completed.

3. Loss Control

- a. Completed a Loss Control Program in 2012, which estimated the total Unaccounted For Water at 6.5% or 12.05 m³ per hour.
- b. Completed a Leak Detection Audit to identify and repair water leaks within municipal infrastructure.

4. Planning for the Future

a. Completed the penultimate draft of the 2015 Water Study to update for 20-year growth projections and known infrastructure implications.

Cross Connection Control Program

In 2003, Interior Health required all large water purveyors (City of Enderby included) to develop and implement a cross connection control program as a condition of operating permit. The purpose of the program is to protect public health by ensuring that the drinking water provided by the City of Enderby is not contaminated due to a backflow incident.

The City adopted a Cross Connection Control Program in 2004 and began the program implementation with assessments of a number of commercial, industrial, institutional and agricultural customers in June, 2004. The emphasis was on sites identified as high risk. Under Enderby's program, owners were expected to implement the recommendations in a timely manner and were responsible for all costs associated with their backflow prevention systems.

For a number of reasons, including cost and internal capacity limitations, the Cross Connection Control Program has not been fully implemented. It is worth noting that, based on anecdotal information, the City of Enderby's progress compares favorably with other communities.

Below is a synopsis of the categories and status as of December 31, 2013:

Hazard	Quantity	Surveyed	Not Surveyed	Vacant	Compliant*
High	54	51	0	3	36 (71%)
Medium	44	24	18	2	12 (29%)
Low	90	32	55	2	18 (21%)
TOTAL:	188	107	73	7	66 (37%)

^{*}Compliance percentages are based only on occupied sites which have been assessed/surveyed.

There are a number of outstanding high, medium and low risk sites which are not in compliance. City of Enderby staff will be meeting with Interior Health on an ongoing basis to identify a suitable model for completing the City's cross connection control obligations.

Emergency Response Plan

The City of Enderby Drinking Water Emergency Response Plan was completed in early 2013 and distributed beginning January 16, 2013. The Emergency Response Plan includes provisions for public notification and response procedures for emergency situations, such as backflow incidents, broken water mains, chlorinator failure, source and/or reservoir contamination, and spills or vehicle accidents affecting the distribution system. It also provides an emergency contact directory.

The Emergency Response Plan was most recently reviewed on February 15, 2015.

Agenda

THE CORPORATION OF THE CITY OF ENDERBY

<u>MEMO</u>

To:

Mayor and Council

From:

Tate Bengtson, CAO

Date:

February 26, 2015

Subject:

Wastewater Annual Report for 2014

RECOMMENDATION

THAT Council receives and files the Wastewater Annual Report for 2014.

AND THAT Council directs staff to post the Wastewater Annual Report for 2014 on the City of Enderby website.

BACKGROUND

The Wastewater Annual Report is produced in compliance with Section 5.3 of Waste Discharge Permit 203, issued by the Ministry of Environment to the City of Enderby. The Report was submitted to the Ministry of Environment on February 26, 2015.

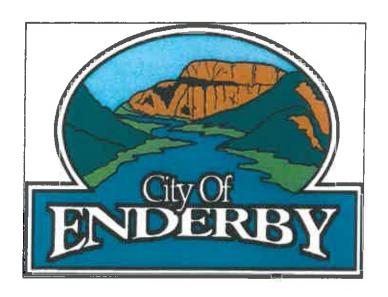
Highlights

- Continued progress on employee certifications
- Only 1 day with an excess discharge volume
- No overflow events
- Completion of Inflow and Infiltration Management Plan
- Revised valuation of replacement cost and depreciation for assets
- Continued to add 1% incremental increase to recapitalization in order to deal proactively with infrastructure deficit
- First year operating under amended permit, which introduced new specifications for total suspended solids, E. coli testing, compostable biosolids testing, upstream and downstream testing of the receiving environment, adjustments to when and how chlorine is to be applied, and specifications for response during compromised operations.

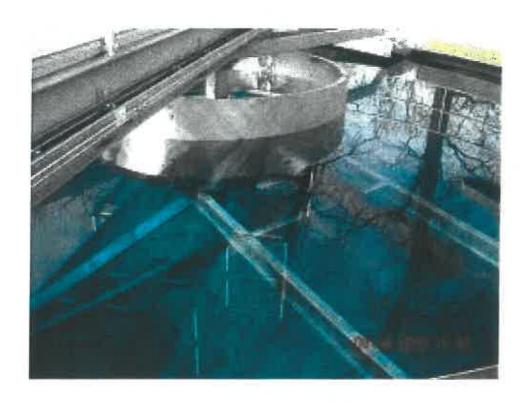
Respectfully submitted,

Tate Bengtson

Chief Administrative Officer



Wastewater Annual Report 2014 MoE Permit Number 203



February 26, 2015

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Executive Summary

The Wastewater Annual Report is produced in compliance with Section 5.3 of Waste Discharge Permit 203, issued by the Ministry of Environment to the City of Enderby. Enderby possesses a Class II Wastewater Collections System and a Class III Wastewater Reclamation Facility (WWRP). It provides primary and secondary treatment prior to discharge into the receiving environment.

The WWRP produced excellent quality of effluent in 2014. The average effluent flow was 2,033 m³ per day, which is an increase of 23 m³ per day from the 2013 average. However, the maximum daily flow was reduced from its 2013 value of 4,551 m³ to 3,683 m³.

There was 1 day, July 24, 2014, when the WWRP operated in excess of its discharge limit. During this period, the quality of effluent remained within permit parameters despite the volume increase. The excess flow was reported to the Ministry of Environment. There were no overflow events. The collection system and, by extension, the WWRP, is affected by areas of high inflow and infiltration.

As of 2014, the City of Enderby has a Systems Operator with Level I Wastewater Treatment certification, a Lead Hand who has completed Wastewater Collections I, a Utility III worker with his Wastewater Treatment I (Multi-Utility) certification, and two junior Operators-in-Training. Corix Utilities provides oversight and guidance in fulfillment of certification requirements.

Overview

The Wastewater Annual Report is produced in compliance with Section 5.3 of Waste Discharge Permit 203, issued by the Ministry of Environment to the City of Enderby. The permit was first issued in October 4, 1967. It was most recently amended on June 25, 2014.

Enderby is located in the North Okanagan Region of British Columbia. It is 4.26 km² in size and has a population of 2,932 persons (2011 Census). Enderby possesses a Class II Wastewater Collection System and a Class III Wastewater Reclamation Facility (WWRP). It provides primary and secondary treatment prior to discharge into the receiving environment. The City of Enderby Public Works staff operates the WWRP. Corix Utilities provides oversight and guidance.

The WWRP was built in 1967 and services the majority of the population of the City of Enderby, as well as several customers on the Splatsin reserve. It is located along the bank of the Shuswap River. Effluent from the WWRP is discharged into the Shuswap River. In 2003, the facility was upgraded with the addition of UV disinfection. In 2009, the facility commissioned a new circular clarifier. In 2011, the facility had a centrifuge installed to improve sludge handling.

The WWRP produced excellent quality effluent in 2014. The average effluent flow was 2,033 m³ per day, which is an increase of 23 m³ per day from the 2013 average. However, the maximum daily flow experienced a reduction its 2013 high of 4,551 m³ to 3,683 m³ on July 24, 2014.

The collection system consists of 23,750 meters of pipe and 9 lift stations located at: Peacher Crescent; Red Rock Crescent; Princess Street; Meadow Crescent; Brickyard Road; Kate Street; Kildonan Avenue; Riverdale Drive; and McGowan Street.

The collection system is operating reasonably well considering the age of the infrastructure. However, it is negatively affected by areas of high inflow and infiltration.

The City of Enderby is also compliant with the Government of Canada Effluent Regulatory Reporting requirements, which includes completion of an Identification Report and quarterly Monitoring Reports.

Permit

Waste Discharge Permit 203 was first issued on October 4, 1967. It was most recently amended on June 25, 2014. In accordance with Permit 203, the City of Enderby is authorized to discharge effluent to the Shuswap River from a municipal sewage plant subject to the following conditions:

- 1. The maximum authorized rate of discharge is 3,400 m³ per day.
- 2. The characteristics of the effluent shall be equivalent or better than:
 - a. 5-day Biochemical Oxygen Demand of 45 mg/L;
 - b. Total Suspended Solids of 45 mg/L;
 - c. When chlorine is used, a free chlorine residual prior to dechlorination of between 0.5 mg/L and 1.0 mg/L and not less than one hour's contact time at average flow rates;
 - d. When chlorine is used, dechlorinated prior to discharge to reduce the free chlorine residual below detectable limits;
- 3. Sample on a monthly basis that is analysed for:
 - a. Total Suspended Solids;
 - b. Biochemical Oxygen Demand;
 - c. Ammonia;
 - d. Total Nitrogen;
 - e. Total Phosphorus and Orthophosphate;
 - f. pH;
 - g. Temperature.
- 4. Samples twice per month for E. coli;
- 5. Sample the receiving environment upstream and downstream of the outfall on a quarterly basis for ammonia, total nitrogen, total phosphorous, orthophosphate, and E. coli;
- 6. Sample the compostable sludge twice per year in accordance with the *Organic Matter Recycling Regulation* for Class B biosolids.
- 7. Complete an Annual Report.

Under the amended permit, the WWRP only needs to use chlorine when its UV system cannot disinfect adequately; this is often the result of high flow rates or high turbidity. The amended permit also specifies requirements for spill reporting and response in the event of compromised operations. The City of Enderby was also required to complete and Inflow and Infiltration Management Plan by December 31, 2014.

Operators

As of December 31, 2014, the City of Enderby has a Systems Operator with Wastewater Treatment I, a Lead Hand who has completed Wastewater Collections I, a Utility Operator III with Wastewater Treatment I, and two Operators-in-Training. Corix Utilities has been retained under contract to provide oversight and fulfill certification requirements.

Operator	Position	Certification	
Clayton Castle	Lead Hand	WWCI	
Kevin Walters	Systems Operator I	WWTI	
Jamie Prevost	Utility Operator III	OIT	
Robert Hubley	Utility Operator III	OIT	
Ray Brown	Utility Operator III	WWTI	
WWT - Wastewater Treatment, WWC - Wastewater Collection, OIT - Operator in Training			

The City commenced its Chief Operator contract with Corix Utilities in 2012 to comply with certification requirements for operating the WWRP. The City has also identified training targets for staff focusing on wastewater operations. In 2015, the Systems Operator I will enroll in Wastewater Treatment II.

Excess Discharges, Overflows, Inflow and Infiltration

Excess Discharges

There was one day of excess discharge in 2014. On July 24, 2014, the daily discharge was 3,683 m³. During this period, the quality of effluent remained within permit parameters. The excess discharge event was reported to the Ministry of Environment and procedures for compromised operations were followed.

Overflows

There were no overflow events in 2014.

Inflow and Infiltration

Inflow & Infiltration (I/I) refers to rainwater and groundwater entering the sanitary sewer system through defects associated with design or degradation of the system or unlawful connections made to the system. I/I costs money as it contributes unnecessarily to the total flows. This unnecessary flow must, like all other wastewater, be pumped and treated. This capacity is better reserved for future customers, as this helps spread the burden of paying for the operation of the sanitary sewer system. Reducing I/I also helps to defer costly capacity-related infrastructure upgrades. Measures are being undertaken to reduce I/I.

A base infiltration rate of 20-25% of average daily flows is common in most municipalities. This is consistent with the textbook recommendation of 12 m³ per day per kilometer of sewer line. Given Enderby's 23.75 kilometers of sewer line, the textbook calculation would expect a base infiltration rate of 285 m³ per day. Assuming an average daily flow of 1,200 m³ per day, Enderby's base infiltration should be 240-300 m³ per day; however, base infiltration is approximately 500 m³ per day, which is 65% higher than typical values.

The City of Enderby was required, as part of its amended permit, to produce an Inflow and Infiltration (I/I) Management Plan. This plan was submitted to the Ministry of Environment on December 31, 2014. It was received by Enderby City Council in public meeting on February 16, 2015.

This Plan commits to four targets: reducing I/I from 65% to 50% of base daily flows within 10 years, reducing maximum daily flows to less than the maximum daily discharge as specified in the Permit for extreme weather events with less than a 5-year return interval within 10 years, completing a flood response strategy for the mitigation of I/I impacts prior to 2016, and reporting regularly on I/I in the Wastewater Annual Report.

In 2014, the City spent, or has committed to spending, \$117,000 to renew the Mill Avenue sanitary sewer main from George Street to Maud Street, and along Belvedere Street from Cliff Avenue to Mill Avenue. During reconstruction of Mill Avenue, a roof drain was observed to be plumbed into the sanitary sewer system; the property owner has been given a timeline for re-

plumbing the roof drains. In December 2014, an abandoned, uncapped service line near George Street was discovered and plugged in order to address a significant source of infiltration. Moreover, cracked asphalt around a number of sanitary sewer manholes has been renewed.

In 2015, the City intends to commence planning for separating the combined sewer on Peacher Crescent, Red Rock Crescent, and potentially a storm drain on Revel Crescent. Remediation will prove to be capital-intensive and likely subject to grant funding.

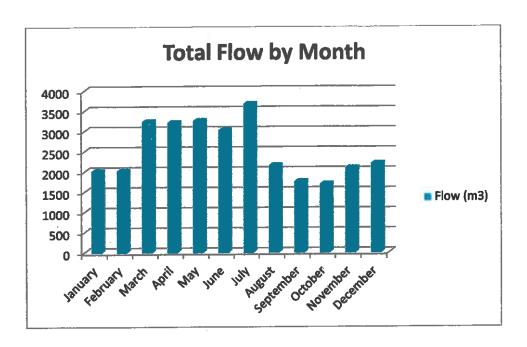
Infrastructure Value, Deficit and Renewal

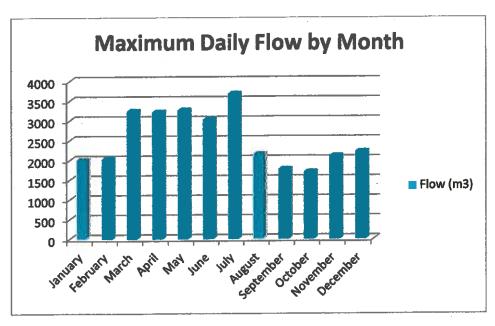
The City of Enderby's wastewater system, inclusive of treatment and collection, has a replacement value of \$24,332,896. The total loss in value to the system, representing the City's infrastructure deficit, is \$11,722,936. The remaining value is \$12,609,960. In 2014, the City contributed \$128,231 to its sewer reserve fund. It withdrew 44,554 from its sewer reserve fund. After adding interest earned, the balance as of December 31, 2014 is \$409,090.

In order to deal with its infrastructure deficit, the City has committed to increasing its sewer revenues by a minimum of 1% per year, which will be invested in recapitalization. While this amount represents a relatively small proportion of the shortfall, it is hoped that the demonstrated commitment to infrastructure renewal and asset management can position the City to partner with senior government on future infrastructure grant programs.

Note that there were some changes made to the overall valuation of the water system as a result of the completion of the City's asset management inventory in early 2014, which resulted in a reduction of the replacement and depreciation values.

Flow Data Monthly and Historical Trends





There was a decrease in both the average daily flows and the maximum daily flows in 2014.

All units in m ³	2014	2013	2012	2011	2010	2009	2008
Average Daily Flow	2033	2010	2165	1954	1690	1787	1725
Maximum Daily Flow	3683	4551	5681	3305	3152	2981	2631

Effluent Laboratory Analytical Data

January

Nitrogen, Nitrate as N	21.3
Nitrogen, Nitrite as N	<0.010
Phosphate, Ortho as P	2.53
Temperature	21.1
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	19
Nitrogen, Ammonia as N, Total	0.071
Nitrogen, Total Kjeldahl	4.58
Phosphorus, Total Kjeldahl	2.94
Phosphorus, Total Kjeldahl	
Dissolved	2.62
Solids, Total Suspended	3
Solids, Volatile Suspended	3
Turbidity	2.6
рН	6.98
Conductivity (EC)	542
Nitrogen, Ammonia as N, Un-	
lonized	<0.001
Nitrogen, Nitrate+Nitrite as N	21.3
Nitrogen, Total	25.9
Coliforms, Total (MPN)	23
Coliforms, Fecal (MPN)	9.1
E. coli (MPN)	9.1

February

Nitrogen, Nitrate as N	13.6
Nitrogen, Nitrite as N	<0.010
Phosphate, Ortho as P	1.26
Temperature	22.5
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	28
Nitrogen, Ammonia as N, Total	0.156
Nitrogen, Total Kjeldahl	2.27
Phosphorus, Total Kjeldahl	3.52
Phosphorus, Total Kjeldahl	
Dissolved	2.38
Solids, Total Suspended	1
Solids, Volatile Suspended	1
• •	

Turbidity	1.9
рН	7.08
Conductivity (EC)	507
Nitrogen, Ammonia as N, Un-	
lonized	0.001
Nitrogen, Nitrate+Nitrite as N	13.6
Nitrogen, Total	15.8
Coliforms, Total (MPN)	93
Coliforms, Fecal (MPN)	9.1
E. coli (MPN)	3.6

March

Nitrogen, Nitrate as N	7.83
Nitrogen, Nitrite as N	<0.010
Phosphate, Ortho as P	0.01
Temperature	22.7
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	19
Nitrogen, Ammonia as N, Total	0.132
Nitrogen, Total Kjeldahl	1.93
Phosphorus, Total Kjeldahl	0.61
Phosphorus, Total Kjeldahl	
Dissolved	0.57
Solids, Total Suspended	1
Solids, Volatile Suspended	1
Turbidity	1.7
pH	7.74
Conductivity (EC)	743
Nitrogen, Ammonia as N, Un-	
lonized	0.003
Nitrogen, Nitrate+Nitrite as N	7.83
Nitrogen, Total	9.76
Coliforms, Total (MPN)	23
Coliforms, Fecal (MPN)	<3.0
E. coli (MPN)	<3.0

April

Nitrogen, Nitrate as N	12.2
Nitrogen, Nitrite as N	<0.010
Phosphate, Ortho as P	0.64
Temperature	22
BOD. 5-day Carbonaceous	<10

Chemical Oxygen Demand	24
Nitrogen, Ammonia as N, Total	0.051
Nitrogen, Total Kjeldahl	1.54
Phosphorus, Total Kjeldahl	1.77
Phosphorus, Total Kjeldahl	
Dissolved	1.69
Solids, Total Suspended	2
Solids, Volatile Suspended	2
Turbidity	1.8
pH	7.44
Conductivity (EC)	682
Nitrogen, Ammonia as N, Un-	
lonized	<0.001
Nitrogen, Nitrate+Nitrite as N	12.2
Nitrogen, Total	13.7
Coliforms, Total (MPN)	150
Coliforms, Fecal (MPN)	43
E. coli (MPN)	43

May

	Nitrogen, Nitrate as N	16.3
	Nitrogen, Nitrite as N	< 0.010
	Phosphate, Ortho as P	0.36
	Temperature	22
	BOD, 5-day Carbonaceous	<10
	Chemical Oxygen Demand	22
	Nitrogen, Ammonia as N, Total	0.076
	Nitrogen, Total Kjeldahl	1.42
	Phosphorus, Total Kjeldahl	3.75
	Phosphorus, Total Kjeldahl	
	Dissolved	2.62
	Solids, Total Suspended	2
	Solids, Volatile Suspended	2
	Turbidity	2.2
	pH	7.5
	Conductivity (EC)	603
ĺ	Nitrogen, Ammonia as N, Un-	
	lonized	0.001
distribus	Nitrogen, Nitrate+Nitrite as N	16.3
	Nitrogen, Total	17.7
-	Coliforms, Total (MPN)	9.1
***************************************	Coliforms, Fecal (MPN)	3.6
	E. coli (MPN)	<3.0

June

Nitrogen, Nitrate as N	11.5
Nitrogen, Nitrite as N	< 0.010
Phosphate, Ortho as P	1.18
Temperature	21
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	14
Nitrogen, Ammonia as N, Total	0.046
Nitrogen, Total Kjeldahl	1.29
Phosphorus, Total Kjeldahl	2.09
Phosphorus, Total Kjeldahl	
Dissolved	1.9
Solids, Total Suspended	3
Solids, Volatile Suspended	8
Turbidity	1.7
pH	6.93
Conductivity (EC)	586
Nitrogen, Ammonia as N, Un-	
lonized	< 0.001
Nitrogen, Nitrate+Nitrite as N	11.5
Nitrogen, Total	12.8
Coliforms, Total (MPN)	6.2
Coliforms, Fecal (MPN)	<3.0
E. coli (MPN)	<3.0

July

Coliforms, Total	DGT8
Background Colonies	> 200
E. coli	<1
Coliforms, Total	DGT14
Background Colonies	> 200
E. coli	<1
Alkalinity, Total as CaCO3	
Nitrogen, Nitrate as N	21.5
Nitrogen, Nitrite as N	<0.010
Phosphate, Ortho as P	1.94
Temperature	22
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	16
Nitrogen, Ammonia as N, Total	0.076
Nitrogen, Total Kjeldahl	0.84
Phosphorus, Total Kjeldahl	8.59
Phosphorus, Total Kjeldahl	4.91

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City of Enderby

Wastewater Annual Report 2014

Dissolved	
Solids, Total Suspended	2
Solids, Volatile Suspended	2
Turbidity	1.8
pH	7
Conductivity (EC)	559
Nitrogen, Ammonia as N, Un-	
Ionized	< 0.001
Nitrogen, Nitrate+Nitrite as N	21.5
Nitrogen, Total	22.3
Coliforms, Total (MPN)	150
Coliforms, Fecal (MPN)	<3.0
E. coli (MPN)	<3.0

August

	Coliforms, Total (MPN)	240
	Coliforms, Fecal (MPN)	3.6
	E. coli (MPN)	3.6
	Alkalinity, Total as CaCO3	
	Nitrogen, Nitrate as N	22.1
	Nitrogen, Nitrite as N	0.074
	Phosphate, Ortho as P	1.22
	Temperature	23
	BOD, 5-day Carbonaceous	<10
	Chemical Oxygen Demand	23
	Nitrogen, Ammonia as N, Total	0.147
	Nitrogen, Total Kjeldahl	1.84
	Phosphorus, Total Kjeldahl	3.19
	Phosphorus, Total Kjeldahi	(4
	Dissolved	3.09
	Solids, Total Suspended	<1
	Solids, Volatile Suspended	<1
	Turbidity	1.5
	рН	7.26
	Conductivity (EC)	499
-	Nitrogen, Ammonia as N, Un-	
	lonized	0.001
	Nitrogen, Nitrate+Nitrite as N	22.1
	Nitrogen, Total	24
	Coliforms, Total (MPN)	1100
	Coliforms, Fecal (MPN)	93
	E. coli (MPN)	93

September

Coliforms, Total (MPN)	43
Coliforms, Fecal (MPN)	9.1
E. coli (MPN)	3.6
Coliforms, Total (MPN)	23
Coliforms, Fecal (MPN)	3.6
E. coli (MPN)	3.6
Coliforms, Total (MPN)	93
Coliforms, Fecal (MPN)	15
E. coli (MPN)	9.1
Nitrogen, Nitrate as N	23
Nitrogen, Nitrite as N	0.022
Phosphate, Ortho as P	1.07
Temperature	22
Alkalinity, Total as CaCO3	
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	17
Nitrogen, Ammonia as N, Total	0.114
Nitrogen, Total Kjeldahl	1.6
Phosphorus, Total Kjeldahl	4.45
Phosphorus, Total Kjeldahl	
Dissolved	3.14
Solids, Total Suspended	3
Solids, Volatile Suspended	3
Turbidity	2.4
pH	6.93
Conductivity (EC)	463
Nitrogen, Ammonia as N, Un-	
Ionized	< 0.001
Nitrogen, Nitrate+Nitrite as N	23
Nitrogen, Total	24.6
Coliforms, Total (MPN)	43
Coliforms, Fecal (MPN)	23
E. coli (MPN)	9.1

October

Coliforms, Total (MPN)	4600
Coliforms, Fecal (MPN)	23
E. coli (MPN)	3.6
Nitrogen, Nitrate as N	29.5
Nitrogen, Nitrite as N	0.034
Phosphate, Ortho as P	1.04
Temperature	21

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City of Enderby

Wastewater Annual Report 2014

Alkalinity, Total as CaCO3	
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	10
Nitrogen, Ammonia as N, Total	0.145
Nitrogen, Total Kjeldahl	1.54
Phosphorus, Total Kjeldahl	5
Phosphorus, Total Kjeldahl	
Dissolved	3.62
Solids, Total Suspended	3
Solids, Total Volatile	184
Solids, Volatile Suspended	
Turbidity	1.7
pН	7.02
Conductivity (EC)	481
Nitrogen, Ammonia as N, Un-	
lonized	<0.001
Nitrogen, Nitrate+Nitrite as N	29.5
Nitrogen, Total	31
Coliforms, Total (MPN)	4600
E. coli (MPN)	3.6

November

Coliforms, Total (MPN)	91
E. coli (MPN)	3.6
Nitrogen, Nitrate as N	24.3
Nitrogen, Nitrite as N	0.078
Phosphate, Ortho as P	2.59
Temperature	21
Alkalinity, Total as CaCO3	
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	13
Nitrogen, Ammonia as N, Total	0.093
Nitrogen, Total Kjeldahl	1.58
Phosphorus, Total Kjeldahl	3.32
Phosphorus, Total Kjeldahl	
Dissolved	2.62
Solids, Total Suspended	1
Solids, Volatile Suspended	1
Turbidity	1.2
pH	7.4
Conductivity (EC)	493
Nitrogen, Ammonia as N, Un-	
lonized	<0.001
Nitrogen, Nitrate+Nitrite as N	24.4

Nitrogen, Total	26
Coliforms, Total (MPN)	460
Coliforms, Fecal (MPN)	43
E. coli (MPN)	43

December

Nitrate as N	17.7
Nitrite as N	0.115
Phosphate, Ortho as P	1.73
Temperature	22
Alkalinity, Total as CaCO3	
BOD, 5-day Carbonaceous	<10
Chemical Oxygen Demand	16
Ammonia as N, Total	0.072
Nitrogen, Total Kjeldahi	1.32
Phosphorus, Total Kjeldahl	2.21
Phosphorus, Total Kjeldahl	
Dissolved	1.74
Solids, Total Suspended	<1
Solids, Volatile Suspended	<1
Turbidity	0.8
pH	7.72
Conductivity (EC)	599
Ammonia as N, Un-Ionized	0.002
Nitrate+Nitrite as N	17.8
Nitrogen, Total	19.1
Coliforms, Total (MPN)	3.6
Coliforms, Fecal (MPN)	<3.0
E. coli (MPN)	<3.0

City of Enderby

FEB 2 5 2015

JOHN DOKJUN KIM

Enderby Return-It Recycling Depot 904 Belvedere Street, PO Box 355 Enderby, BC VOE 1VO

Tel: (250)838-9556 Email:djkim1130@hanmail.net

February 23, 2015

To: City of Enderby, Regional District of North Okanagan, Okanagan Advertiser, River Talk

Re; Recycle smoke and carbon monoxide alarms, batteries and cellphones

To whom it may concerns:

Enderby Return-It Recycling Depot is now a collection site for smoke and carbon monoxide alarms, batteries and cellphones. Please see the attached information. Please let the public know about this new program.

Regards

John Dokjun Kim

Enderby Return-It Recycling Depot

RECYCLE

your BATTERIES and CELLPHONES

here!



Recharging the planet. Recycling your batteries."

call² recycle⁸

call2recycle.ca

THE CORPORATION OF THE CITY OF ENDERBY

<u>MEMO</u>

To:

Mayor and Council

From:

Tate Bengtson, CAO

Date:

February 25, 2015

Subject:

Planters on Belvedere Street

RECOMMENDATION

THAT Council advises staff as to its wishes for the planters on Belvedere Street.

BACKGROUND

The current design for renewal of Belvedere Street between Cliff Avenue and Mill Avenue preserves the existing two planters near the intersection with Cliff Avenue (see below).





However, there had previously been some discussion about eliminating the fixed-in-place planters due to issues with vehicles turning. With the elimination of those planters, there would be some potential to add a parking stall, or at least reduce conflicts between parking stalls and traffic flow on Belvedere Street, particularly in the vicinity of the intersecting lane running eastwest.

Eliminating the planters would involve removing the two trees on the east side, as the raised bed suggests that part of the root structure for both trees would be at, and potentially above, the sidewalk grade. The costs to eliminate the planters would be relatively minimal in the context of the broader work.

Alternatively, rather than completely eliminate the two planters, they could be replaced with shortened, at-grade, fixed-in-place flower planter beds akin to the 30th Avenue revitalization in Vernon or above-grade circular planters akin to what is already located on Cliff Avenue and elsewhere in the community. The above-grade planters would be the most cost-effective in terms of installation and ongoing maintenance costs. Either solution would allow for the smoother flow of traffic, enhance parking, and maintain flora in this vicinity.

In summary, Council may wish to consider one of the following:

- 1) Proceed as planned, protecting the existing planters;
- 2) Alter the design to delete the existing fixed-in-place planters and do not provide for replacement means to maintain flora in this vicinity, at least at this time;
- 3) Alter the design to delete the existing fixed-in-place planters and provide for an alternative means to maintain flora in this vicinity.

Respectfully submitted.

Tate Bengtson

Chief Administrative Officer

Azenda

THE CORPORATION OF THE CITY OF ENDERBY

MEMO

To:

Tate Bengtson, Chief Administrative Officer

From:

Kurt Inglis, Assistant Corporate Officer and Planning Assistant

Date:

February 17, 2015

Subject:

Digital Billboard Sponsorship Application - Enderby Curling Club

RECOMMENDATION

THAT Council considers the Enderby Curling Club's sponsorship application valued at \$1,400 in-kind.

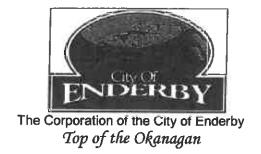
BACKGROUND

The Enderby Curling Club has submitted a Digital Billboard Sponsorship Application and is requesting an in-kind sponsorship valued at \$1,400 (2 weeks of advertising) for messaging related to community events.

The Enderby Curling Club is a local sports association and therefore qualifies for a digital billboard sponsorship from Council.

Respectfully Submitted,

Kurt Inglis, Assistant Corporate



619 Cliff Avenue P. O. Box 400 Enderby, B. C. V0E 1V0 Tel: (250) 838-7230 Fax: (250) 838-6007 Website: www.cityofenderby.com

Digital Billboard Sponsorship Application

Please Note: This form must be submitted at	tleast bu days prior to the requested start date of initial messaging.
Name of Organization/Society:	Enderby Curling Club
Name of Applicant:	Sandra Farynuls 250 - 838 - 9652
Phone Number:	250 -838-9652
Email:	starynuk@telus.net
Nature of Messaging:	Community Event
(community events, programming,	
announcements, etc.)	
Annual Sponsorship Needs:	\$ 1400.00
Requested Value of Sponsorship:	\$ 1400.00
NOTE: Each message will be displayed for a mof three weeks. One week of messaging = \$700	ninimum of one week, which may be non-consecutive days, to a maxim 0 in-kind value.)
Sandra Farynick	<u> Feb. 16/15</u>
Signature of Applicant	Date