



Regional District of Central Kootenay
WATER SERVICES COMMITTEE
Open Meeting Agenda

Date: Wednesday, October 4, 2023
Time: 9:00 am
Location: Hybrid Model - In-person and Remote

Directors will have the opportunity to participate in the meeting electronically. Proceedings are open to the public.

Pages

1. WEBEX REMOTE MEETING INFO

To promote openness, transparency and provide accessibility to the public we provide the ability to attend all RDCK meetings in-person or remote (hybrid model).

Meeting Time:

9:00 am PDT

Join by Video:

<https://nelsonho.webex.com/nelsonho/j.php?MTID=ma1e9678d0cea9b5a3728ea695921aad7>

Join by Phone:

1-844-426-4405 Canada Toll Free
+1-604-449-3026 Canada Toll (Vancouver)

Meeting Number (access code): 2772 144 4906

Meeting Password: JjcixGyh544

In-Person Location: RDCK Board Room, 202 Lakeside Drive, Nelson, BC

2. CALL TO ORDER & WELCOME

Chair Newell to call the meeting to order at 9:00 am.

2.1 Traditional Lands Acknowledgement Statement

We acknowledge and respect the indigenous peoples within whose traditional lands we are meeting today.

2.2 Adoption of the Agenda

RECOMMENDATION:

The Agenda for the October 4, 2023 Water Services Committee meeting be adopted as circulated.

2.3 Receipt of Minutes

5 - 10

The August 2, 2023 Water Services Committee minutes, have been received.

3. ASSET CHALLENGE: GROUNDWATER WELLS AND THE NEED FOR REDUNDANCY

11 - 19

The October 4, 2023 Asset Challenge: Water Well Failure & the Need for Redundancy presentation prepared by Jason McDiarmid, Utility Services Manager, has been received.

4. ASSET CHALLENGE: LINEAR INFRASTRUCTURE RENEWAL POTENTIAL LONG-TERM RATES REQUIREMENT

20 - 33

The October 4, 2023 Asset Challenge: Linear Infrastructure Renewal Potential Long-Term Water Rates presentation prepared by Jason McDiarmid, Utility Services Manager, has been received.

5. DECOMMISSIONING OF ASBESTOS PIPE POLICY

34 - 42

The September 18, 2023 Committee Report from Jason McDiarmid, Utility Services Manager, presenting the the proposed Board Policy - Decommissioning of Asbestos Cement Pipe in Regional District Water Services to the Water Service Committee for adoption, has been received.

RECOMMENDATION:

That the Regional District Water Services Committee recommends to the Board to adopt Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services.

6. DRINKING WATER SYSTEMS PATHOGEN RISK WATER QUALITY MANAGEMENT POLICY

43 - 52

The September 18, 2023 Committee Report from Jason McDiarmid, Utility Services Manager, presenting the latest Drinking Water Systems Pathogen Risk Water Quality Management Policy draft to the Water Services Committee for adoption, has been received.

RECOMMENDATION:

That the Regional District Water Services Committee recommends that the Board adopt Policy Number 600-03-07 Drinking Water Systems Pathogen Risk Water Quality Management, effective immediately.

RECOMMENDATION:

That Board Resolution #534/17, being:

That the Regional District Board of Directors direct Staff to implement the following water quality action plan for the Burton Water System:

- 1) Issue a long term Water Quality Advisory for Burton that can be eventually removed if there is a satisfactory history of good water sampling results.
- 2) Public facilities such as the campground, school, community center, food and beverage establishments, and the future senior's facility will be encouraged to install their own onsite water disinfection systems.
- 3) The water system will be flushed more frequently in areas where water consumption might be low.
- 4) The school and campground will be encouraged to flush and disinfect their water systems when not used for extended periods of time.
- 5) Continue with more frequent bacteriological water sampling. The Regional District is currently sampling from the wells, two distribution locations and the water storage reservoir on a weekly basis.
- 6) Consumption level chlorination will be added to the Burton water system for a minimum two week period, twice annually.

be rescinded.

7. **WORK PLAN TO LIFT MORATORIUM** 53 - 57
The September 4, 2023 Committee Report from Jason McDiarmid, Utility Services Manager, presenting a work plan to the Water Services Committee for lifting the moratorium on the intake of acquisition applications from water and wastewater systems, has been received.

8. **WATERSMART PROGRAM: REQUEST FOR DIRECTION** 58 - 61
The October 4, 2023 Committee Report from Eileen Senyk, Water Services Liaison, seeking direction regarding future direction for a Water Smart Ambassador program, has been received.

RECOMMENDATION:

That the Water Services Committee direct to staff to take no further action regarding a Water Smart Ambassador program at this time.

9. **UTILITY SERVICES FINANCIAL STATEMENTS: BUDGET & EXPENDITURES SUMMARY** 62 - 81
The August, 2023 Summary of Utility Services Financial Statements Budget & Expenditures to Date, have been received.

10. **STAFF REPORTS**

- 10.1 **Water Operations & Capital Projects Update** 82 - 88
The September 28, 2023 Committee Report from Alexandra Divlakovski, Water Operations Manager, providing an update to the Committee and highlight the larger maintenance and capital projects completed to date in 2023, has been received.

10.2 Water Quality Quarterly Report

89 - 93

The September 14, 2023 Committee Report from Nathalie Nick, Environmental Coordinator - Utility Services summarizing the water advisories issued from May 1, 2023 to August 31, 2023 for water systems operated by the RDCK, has been received.

10.3 2024 Budget Discussion Meetings

Staff is in the process of scheduling a 2024 Budget Discussion meeting with the following Water Services Community Advisory Committees (WSCACs) and Commissions of Management:

1. Balfour WSCAC
2. Grandview Properties WSCAC
3. Edgewood WSCAC
4. Sanca WSCAC
5. South Slokan WSCAC
6. Woodland Heights WSCAC
7. Woodbury Village WSCAC
8. Arrow Creek Commission of Management
9. Ymir Commission of Management
10. Riondel WSCAC
11. Erickson WSCAC.

11. CORRESPONDENCE FOR RECEIPT

94 - 98

- a. July 31, 2023 Sanca Park Water Community Advisory Committee meeting Discussion Notes

12. PUBLIC TIME

The Chair will call for questions from the public and members of the media at 11:45 am.

13. ADJOURNMENT

RECOMMENDATION:

The Water Services Committee meeting adjourn at _____ am/pm.



Water Services Committee Open Meeting **MINUTES**

A Water Services Committee meeting was held on Wednesday, August 2, 2023 at 9:00 am PDT through a hybrid meeting model.

Quorum was maintained throughout the meeting.

ELECTED OFFICIALS PRESENT:	Director T. Newell Director G. Jackman Director R. Tierney Director K. Vandenberghe Alt. Director V. McAllister Director C. Graham Director H. Cunningham Director W. Popoff Director H. Hanegraaf Director T. Weatherhead Councillor J. Elford	Area F (Committee Chair) Area A Area B Area C Area D Area E Area G Area H Area J Area K Town of Creston	In-Person In-Person In-Person In-Person In-Person In-Person In-Person
STAFF PRESENT:	U. Wolf A. Divlakovski J. McDiarmid E. Senyk S. Eckman	GM – Environmental Services Water Operations Manager Utility Services Manager Water Services Liaison Meeting Coordinator	In-Person In-Person In-Person In-Person In-Person

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1-844-426-4405 Canada Toll Free
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Meeting Number (access code): 2770 636 7247

Meeting Password: 3rtHzs3ZkZ7

In-Person Location: RDCK Board Room, 202 Lakeside Drive, Nelson, BC

2. CALL TO ORDER & WELCOME

Director Newell called the meeting to order at 9:00 am PDT.

2.1 Traditional Lands Acknowledgement Statement

We acknowledge and respect the indigenous peoples within whose traditional lands we are meeting today.

2.2 Adoption of The Agenda

Moved and Seconded,
And Resolved:

The Agenda for the August 2, 2023 Water Services Committee meeting be adopted as circulated.

Carried

2.3 Receipt of Minutes

The June 7, 2023 Water Services Committee minutes, have been received.

3. ASSET CHALLENGE: REMOVAL OF ASBESTOS CEMENT PIPE POTENTIAL COSTS

A copy of the August 2, 2023 Asset Challenge Removal of Asbestos Cement Pipe in Regional District Water Systems presentation prepared by Alex Divlakovski, Water Operations Manager, has been received.

DIRECTOR Director Cunningham joined the meeting at 9:40 am.
PRESENT

4. WEST ROBSON WATER LINE REPLACEMENT PROJECT: ALIGNMENT OPTIONS & POTENTIAL HIGH COST FOR ASBESTOS PIPE REMOVAL

The July 25, 2023 Committee Report from Alex Divlakovski, Water Operations Manager, seeking direction for a water main replacement project for Service S256, Water Utility – Area J (West Robson) that includes replacing an existing 386m length of asbestos cement pipe with industry standard PVC or HDPE pipe material, has been received.

Moved and seconded,
MOTION ONLY:

That the Board direct staff to relocate the entire water main through neighboring property to the west and abandon in place 386m of asbestos cement pipe within the West Robson Water Service.

Moved and seconded,
And resolved:

That foregoing motion, being:

That the Board direct staff to relocate the entire water main through neighboring property to the west and abandon in place 386m of asbestos cement pipe within the West Robson Water Service.

be withdrawn.

Carried

Moved and seconded,
And resolved that it be recommended to the Board:

That the Water Services Committee direct staff to replace the water main in the existing Statutory Right-of-Way within the West Robson Water Service and remove 386m of asbestos cement pipe;

AND FURTHER that Board approve an amendment to the 2023 Financial Plan for Water Utility – Area J (West Robson) Service S256 to increase Account 60000 by an additional \$20,234 from the Transfer from Reserves Account 45000 for the West Robson Asbestos Cement Pipe Replacement Capital Project (CAP1094-100).

Carried

RECESS/ The meeting recessed at 10:27 am for a break and reconvened at 10:40 am.
RECONVENED

5. DECOMMISSIONING OF ASBESTOS CEMENT PIPE POLICY

The July 26, 2023 Committee Report from Jason McDiarmid, Utility Services Manager, presenting the proposed Board Policy - Decommissioning of Asbestos Cement Pipe in Regional District Water Services to the Water Service Committee for adoption, has been received.

Action Item: That staff be directed to amend Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services as follows:

Page 1, Decommissioning of Asbestos Cement Pipe on Private Property, Clause 4) which states:

4) The cost of removal is prohibitive, and the measures referred to below can be put in place to mitigate any known health or safety risks.

be amended to read:

4) The cost/benefit of removal is not favourable, and the measures referred to below can be put in place to mitigate any known health or safety risks.

Moved and seconded,
And resolved that:

Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services be **referred** to the October 4, 2023 Water Services Committee meeting.

Carried

6. ARROW CREEK OPEN RESERVOIR: ASSET TRANSFER TO TOWN OF CRESTON & SRW

The July 20, 2023 Committee Report from Eileen Senyk, Water Services Liaison, presenting a land transfer agreement (Offer to Purchase) for the property legally described as Lot 1 District Lot 891, Kootenay Land District Plan 9964 (See plan as to Limited Access) (PID 013-048-856), which is the site of the former Arrow Creek open reservoir, has been received.

Moved and seconded,
And resolved that it be recommended to the Board:

That the Water Services Committee recommend to the Board to support the land transfer of the former Arrow Creek reservoir legally described as Lot 1 District Lot 891, Kootenay Land District Plan 9964 (See plan as to Limited Access) (PID 013-048-856) from the RDCK to the Town of Creston.

Carried

7. EDGEWOOD OLD WELLS SITE LICENCE FOR VOLUNTEER FIRE GROUP USAGE

The July 21, 2023 Committee Report from Eileen Senyk, Water Services Liaison, regarding a Site License Agreement that would enable the Edgewood Volunteer Fire Department Society to use the former Edgewood production wells, now referred to as the Eagle Creek Wells, for the purposes of emergency water supply and wildfire suppression, has been received.

Moved and seconded,
And resolved that it be recommended to the Board:

That the Water Services Committee support the Site License Agreement between the Regional District of Central Kootenay and the Edgewood Volunteer Fire Department Society for the use of the former Edgewood production wells located on the property legally described as Lot A Plan NEP91691 DL 182A Kootenay Land District & District Lot 183A (PID 028-417-445).

Carried

8. UTILITY SERVICES FINANCIAL STATEMENTS: BUDGET & EXPENDITURES SUMMARY

The June 2023 Summary of Utility Services Financial Statements Budget & Expenditures to Date, has been received.

9. STAFF REPORTS

9.1 Water Operations & Capital Projects Update

The July 26, 2023 Committee Report from Alexandra Divlakovski, Water Operations Manager, providing an update to the Committee and highlight the larger maintenance and capital projects completed to date in 2023, has been received.

10. CORRESPONDENCE FOR RECEIPT

The following correspondence has been received:

- a. July 19, 2023 letter from the Ministry of Forests re: Low Water Advisory and Voluntary Water Conservation Report.
- b. July 19, 2023 letter from the Ministry of Forests re: Low Water Advisory and Voluntary Water Conservation Request.

11. PUBLIC TIME

The Chair called for questions from the public and members of the media at 11:45 am PDT.

12. IN CAMERA

12.1 Meeting Closed to the Public

The Open meeting will be adjourned after In-Camera without reconvening back into the open session unless there is business that needs to be addressed.

Moved and seconded,
And resolved that:

In the opinion of the Board and, in accordance with Section 90 of the Community Charter the public interest so requires that persons other than DIRECTORS, ALTERNATE DIRECTORS, DELEGATIONS AND STAFF be excluded from the meeting; AND FURTHER, in accordance with Section 90 of the Community Charter, the meeting is to be closed on the basis identified in the following Subsections:

90 (1) A part of a council meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:

(i) the receipt of advice that is subject to solicitor-client privilege, including communications necessary for that purpose.

Carried

12.2 Recess of Open Meeting

Moved and seconded,
And resolved that:

The Open meeting be recessed at 11:45 am in order to conduct the Closed In Camera meeting.

13. ADJOURNMENT

Moved and Seconded,
And Resolved:

The August 2, 2023 Water Services Committee meeting adjourn at 12:01 pm PDT.

CERTIFIED CORRECT



Director T. Newell
Chair, Water Services Committee
August 2, 2023 meeting

BOARD RECOMMENDATIONS AS ADOPTED AT THE AUGUST 2, 2023 WATER SERVICES COMMITTEE MEETING

RECOMMENDATION #1

That the Water Services Committee direct staff to replace the water main in the existing Statutory Right-of-Way within the West Robson Water Service and remove 386m of asbestos cement pipe;

AND FURTHER that Board approve an amendment to the 2023 Financial Plan for Water Utility – Area J (West Robson) Service S256 to increase Account 60000 by an additional \$20,234 from the Transfer from Reserves Account 45000 for the West Robson Asbestos Cement Pipe Replacement Capital Project (CAP1094-100).

RECOMMENDATION #2

That the Water Services Committee recommend to the Board to support the land transfer of the former Arrow Creek reservoir legally described as Lot 1 District Lot 891, Kootenay Land District Plan 9964 (See plan as to Limited Access) (PID 013-048-856) from the RDCK to the Town of Creston.

RECOMMENDATION #3

That the Water Services Committee support the Site License Agreement between the Regional District of Central Kootenay and the Edgewood Volunteer Fire Department Society for the use of the former Edgewood production wells located on the property legally described as Lot A Plan NEP91691 DL 182A Kootenay Land District & District Lot 183A (PID 028-417-445).



Asset Challenge

Water Well Failure & the Need
for Redundancy

Presented by: J. McDiarmid

Date: October 04, 2023



Background

- The Burton, and West Robson have two well supply with standby power.
- Edgewood has two new wells, two abandoned back up wells and standby power planned for the new wells.
- Woodland Heights has two productions wells.
- Duhamel, Lister, Rosebery has single supply wells with no standby power.
- Standby power is planned for Lister.
- Grandview has two submersible well pumps used as lake intakes.



Well Failures – Lister Well

- 2012 - new Lister well
- 2015 - larger well pump installed due to much higher than expected systems demands
- 2020 - Well pump failed and was replaced
 - Likely cause was believed to be biofouling but this was not definitively confirmed
 - Failed during winter low demands and repairs made quickly
- 2023 - Lister well tripping on over amp
 - Issues during high demands but still producing water
 - Well rehabilitated
 - Currently still under investigation
 - Initially presumed to be biofouling or plug screens or aquafer





Well Failures – Woodland Heights Well

- 2012 (approx.) – Well pump failed and replaced
 - Failure assumed due to age
- 2021 - Well failure
 - Casing believed to have failed resulting in well plugging with sediment
 - Well rehabilitated and pump replaced resulting in lower yield
 - New well drilled and commissioned in 2022





Well Failures – Burton

- Historical Recurring Biological Hits
 - Presumed to be the result of biofouling somewhere in the water system
 - No bacteriological hits ever received from well sampling
 - Temporary seasonal chlorination ultimately implemented
- 2022 Burton well pump failure
 - Hydrogeological assessment identified fouling as the likely cause
 - Well was rehabilitated and the well pump was replaced in 2023





Well Failures – West Robson

- 2022 West Robson well pump failure
 - Mechanical separation of well pump and screen
 - Well was rehabilitated while pump removed and the well pump was replaced in 2023





Well Issues – Edgewood

- Historic Old Wells
 - Seasonal turbidity
 - Season boil water notices
- 2019 New Wells
 - Two past yield concerns resulting from large private side water leaks
 - Yield concerns early in 2023 due to lower than expected aquifer levels





Well Issues – Grandview Double Well Pump Failure

- Grandview uses two well pumps as lake intakes
- A double pump failure occurred at the same time due to unrelated causes





Well Recommendations

Near future

- Edgewood - Install planned standby power
- Lister - Install planned standby power
- Lister – Develop second well
- Duhamel – Develop second well and install standby power

Long term

- Woodland Heights – Install standby power
- Rosebery - Develop second well and install standby power

Potential Costs

- New well include hydrogeological assessment \$100k to \$200k
- Standby power \$50k to \$100k



Asset Challenge

Linear Infrastructure Renewal
Potential Long-Term Water Rates

Presented by: J. McDiarmid

Date: October 04, 2023



Background

- Regional District has asset management plans (AMPs) for all water systems.
- AMPs provide:
 - asset replacement schedules
 - required contributions to reserves
 - long-term financial positions
- Separate costing recently completed for asbestos pipe removal using \$500 per meter
- AMPs do not provide long-term rate modeling
- Long-term rate models recently created in excel



Modeling Objectives

- Complete backlogged and required pipe replacements within 25 years
- Review only water systems with significant waterline replacement requirements
- Review asbestos pipe abandonment in place vs removal
- Assume no grant funding
- Review potential impact of loans
- Hypothetical review of what rates might be required



General Findings

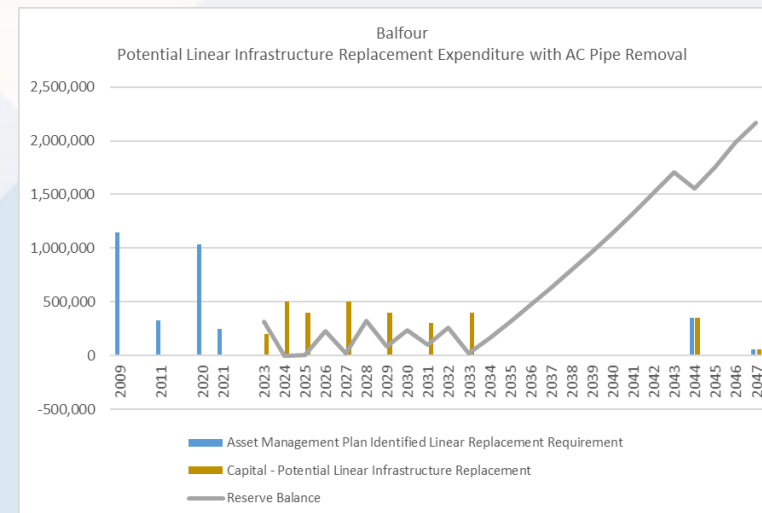
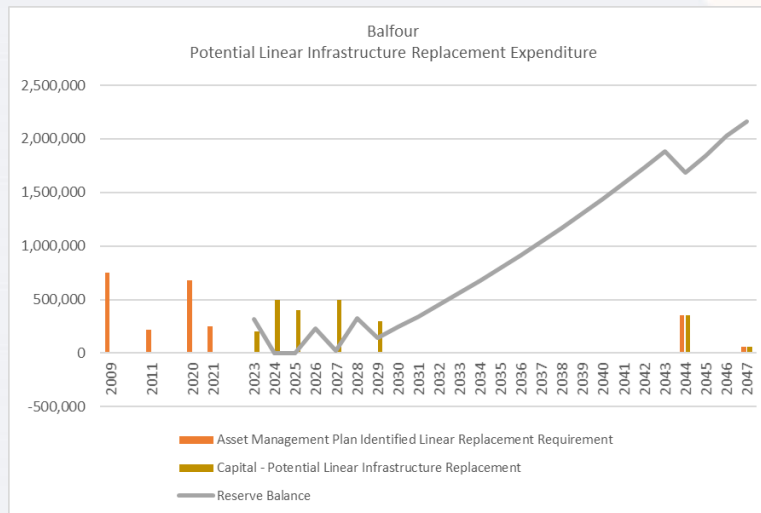
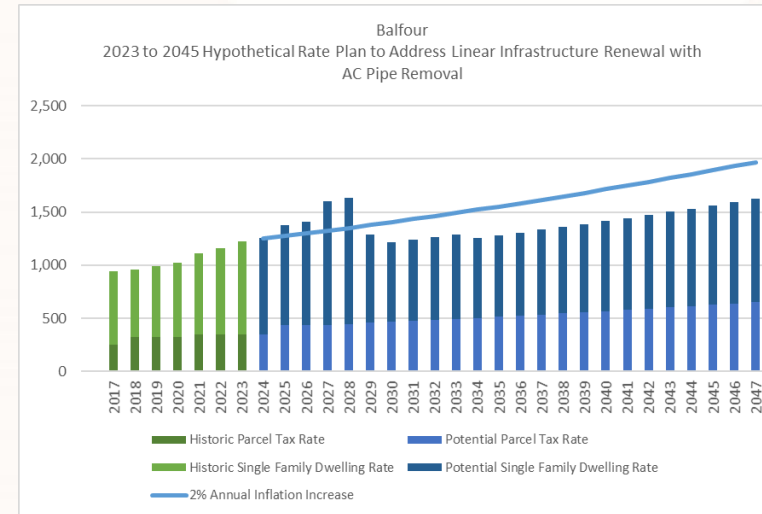
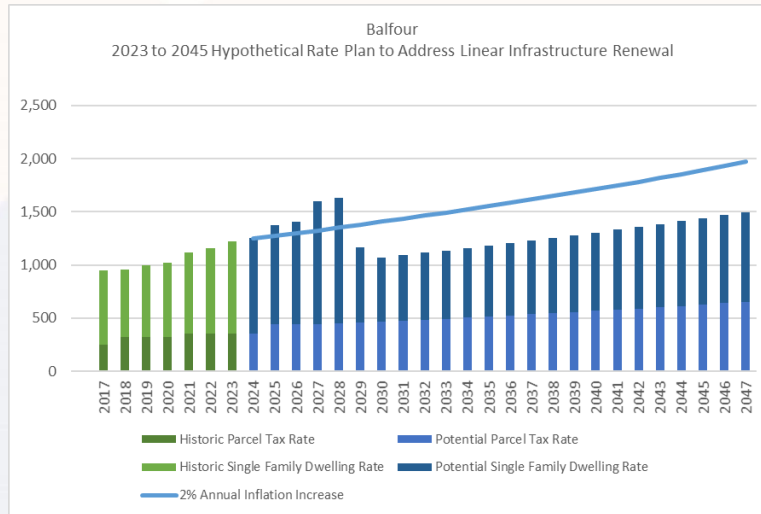
- An infinite amount of upgrade plans and potential financial models can be created
- Asbestos pipe removal will have a big impact on rates
- Many water systems have no reasonable solution to high rates
- Short-term borrowing should only be used if necessary in sort-term
- Long-term borrowing helps to reduce short-term rate peaks but results in high rates over a longer term
- Long-term borrowing is not beneficial if infrastructure upgrades are stretch over a long period of time
- Model used 20 year loans but amortization period could be from 5 to 30 years
- Grant funding would substantially reduce rates
- Further delaying large rate increase would result in even higher required rate increases



Summary of Pipe Replacements

Water System	Number of Accounts	Total Meters of Pipe Replacement	Meters per Account	Meter of Asbestos Pipe	Pipe Replacement Cost	Asbestos Pipe Removal Costs	Total Cost	Total Cost Per Account
Balfour	265	2,391	9	1,734	2,300,236	866,950	3,167,186	11,952
Burton	54	3,185	59	3,185	3,101,270	1,592,550	4,693,820	86,923
Duhamel	93	1,952	21	1,910	1,829,638	955,000	2,784,638	29,942
Edgewood	92	2,549	28	2,350	2,473,254	1,175,200	3,648,454	39,657
Erickson	653	2,184	3	19,755	21,090,527	9,877,300	30,967,827	47,424
Fauquier	93	6,305	68	6,305	6,243,491	3,152,679	9,396,169	101,034
Lister	196	21,824	111	0	21,121,804	0	21,121,804	107,764
South Slokan	50	480	10	0	1,208,974	0	1,208,974	24,179
West Robson	114	2,981	26	2,981	2,909,554	1,490,550	4,400,104	38,597
Total	1,610	43,851		38,221	62,278,747	19,110,229	81,388,975	

Balfour

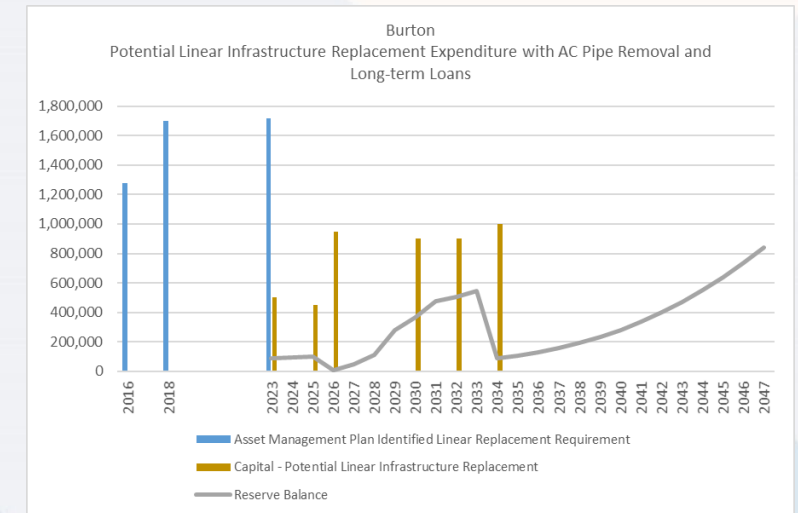
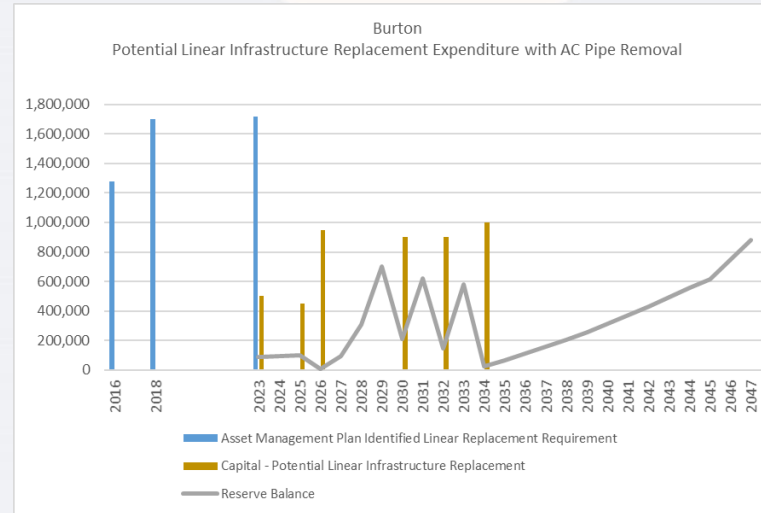
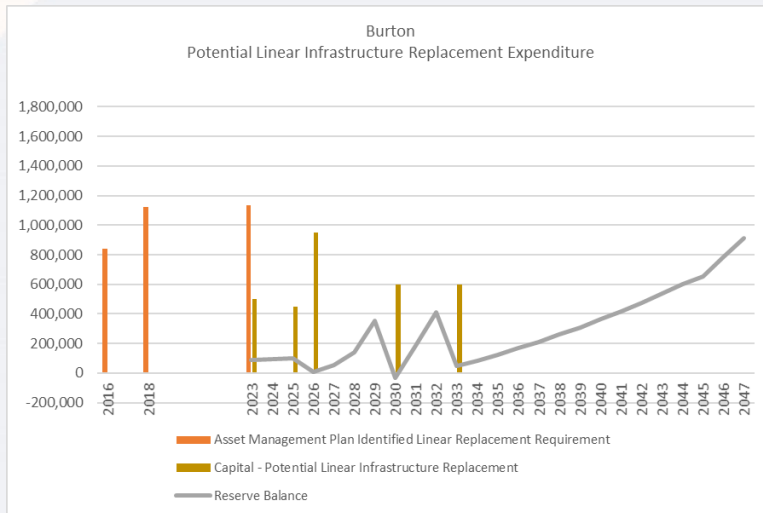
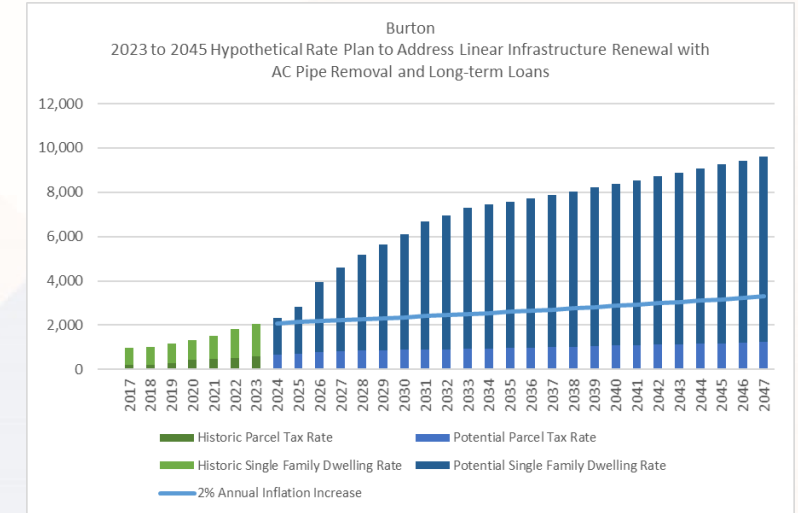
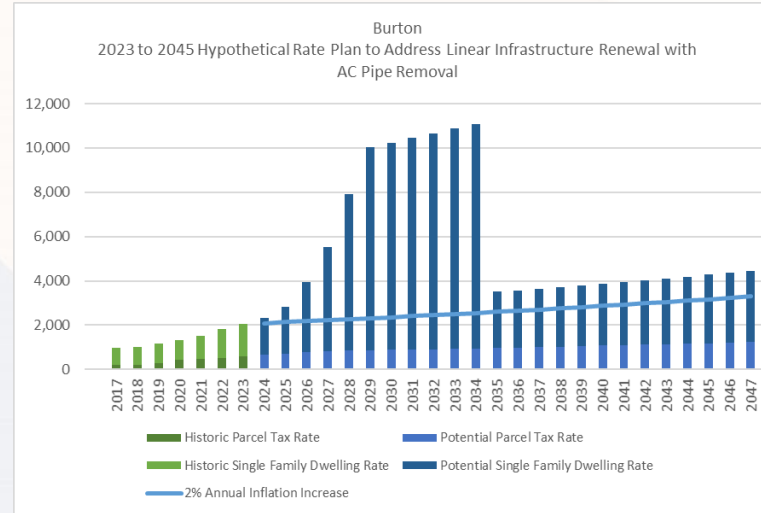
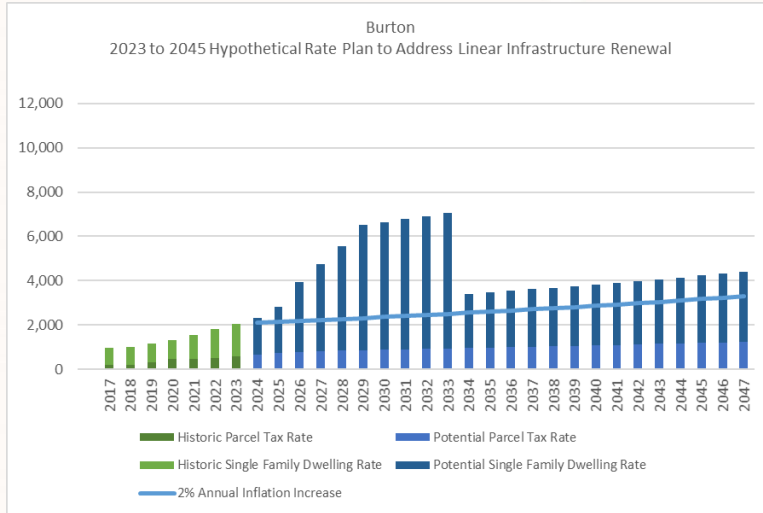


No Asbestos Pipe Removal

Asbestos Pipe Removal

- Recent development has substantially improved Balfour’s financial position
- Long-term loans would provide no benefit
- Short-term loans could reduce peak rates
- Grants could provide a reduction in rates

Burton



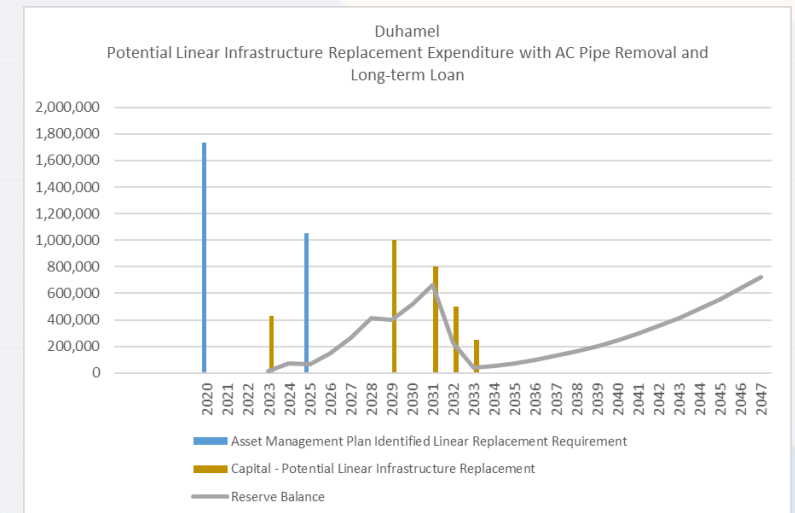
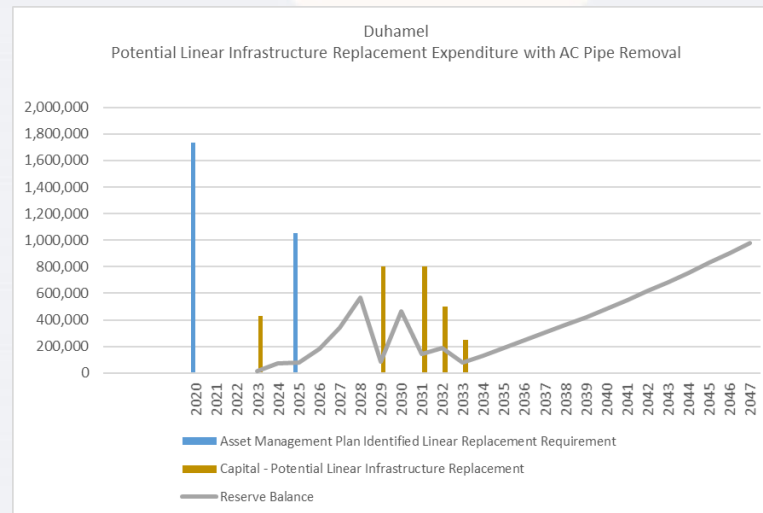
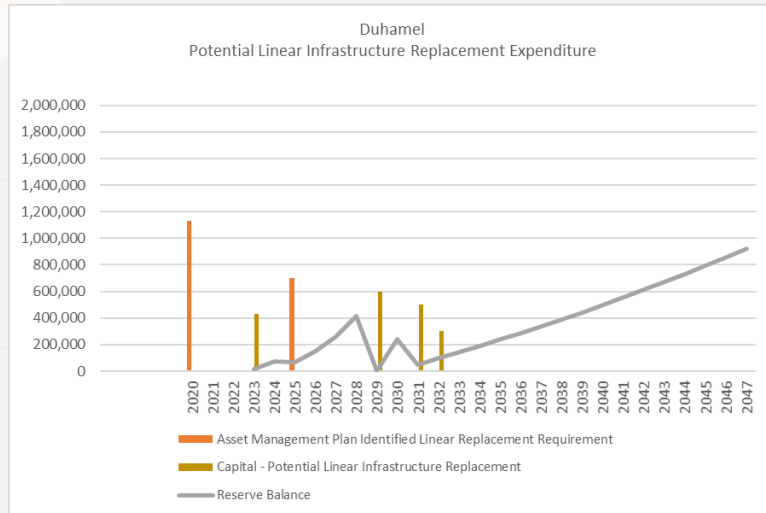
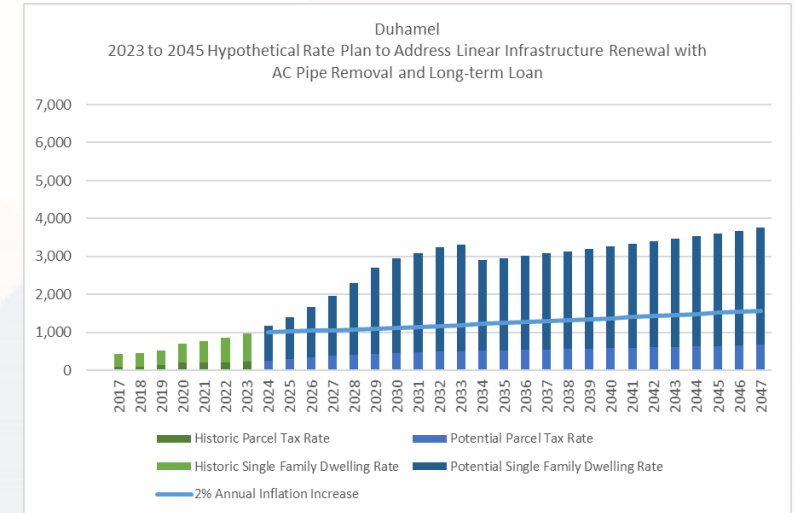
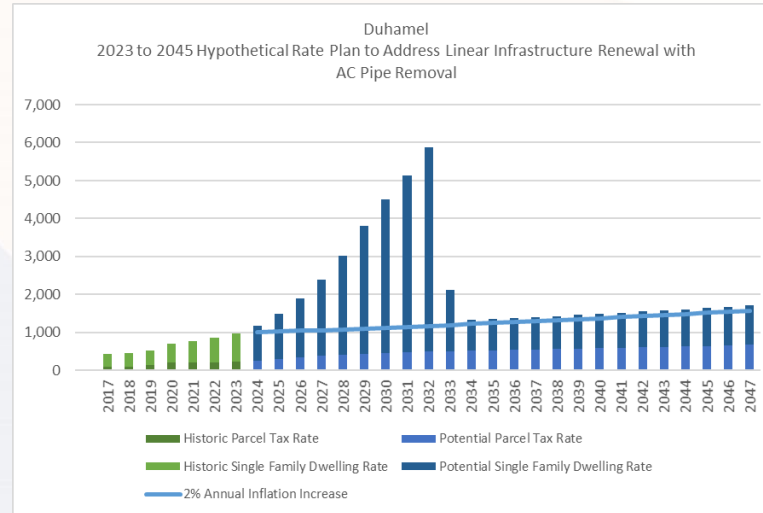
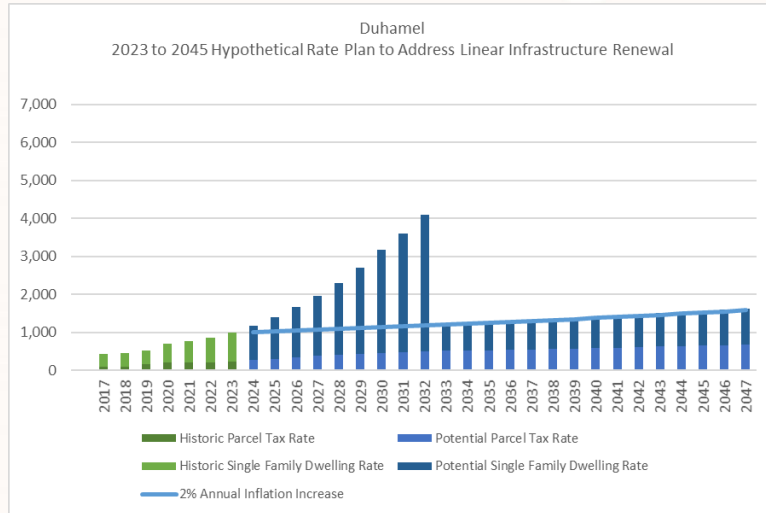
No Asbestos Pipe Removal

Asbestos Pipe Removal

Long-term Loans

- Long-term loan reduces peak rate but high rates will last longer
- Long-term loans hardly reduce peak rate as the model includes a number of spread out loans
- Grants could provide a big reduction in rates

Duhamel



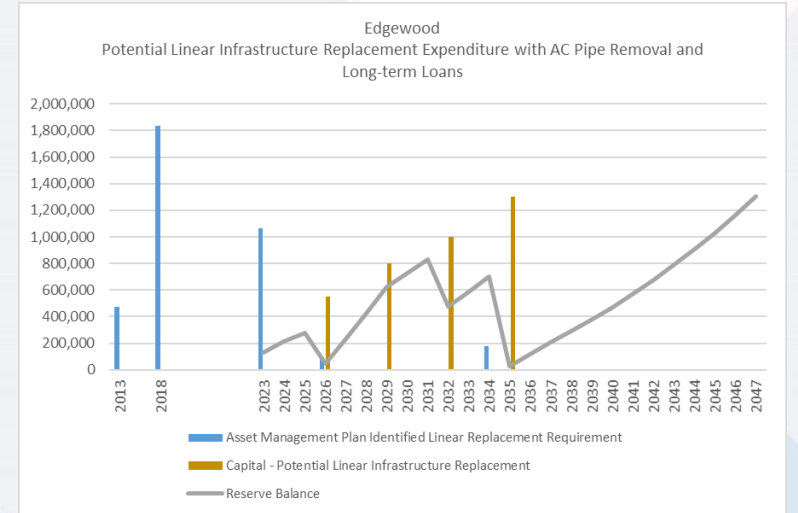
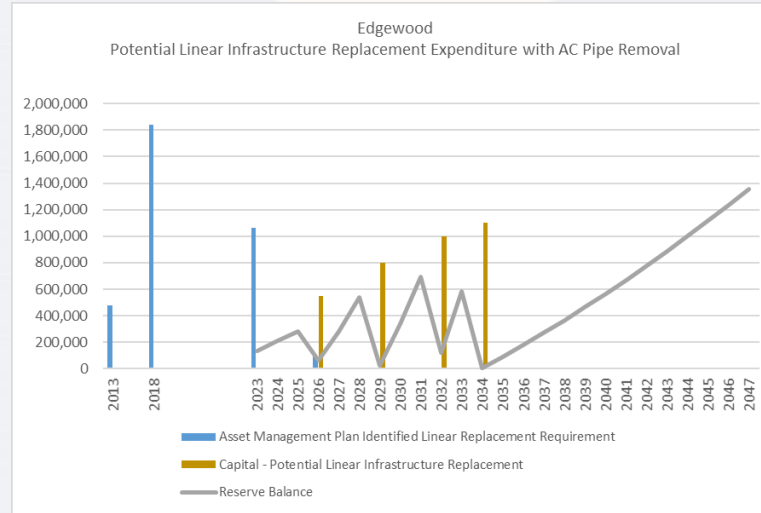
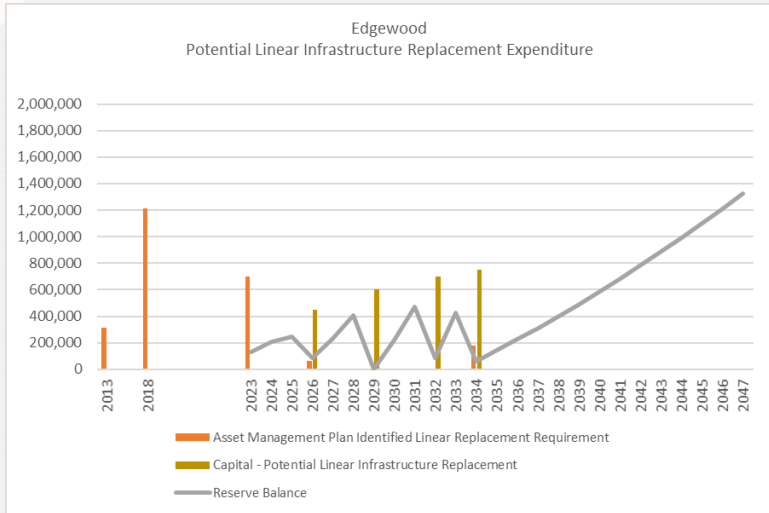
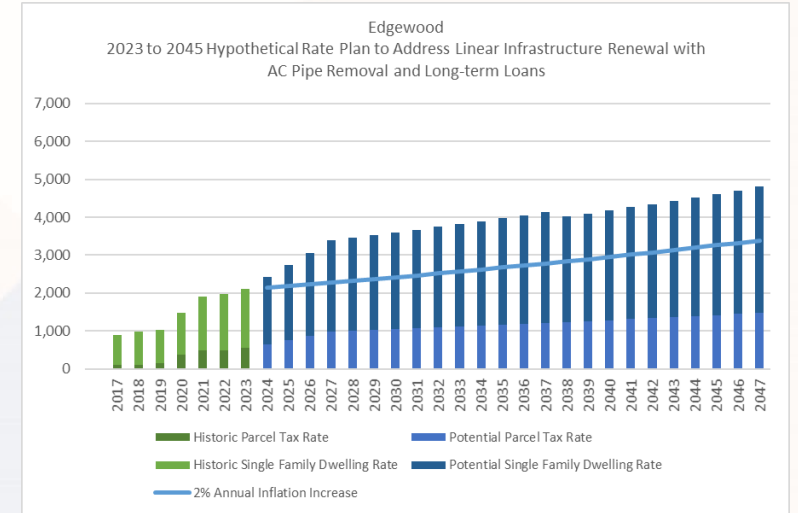
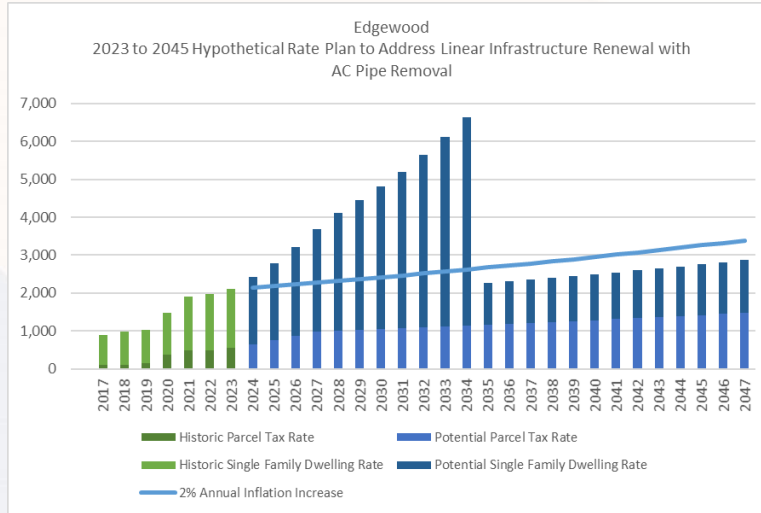
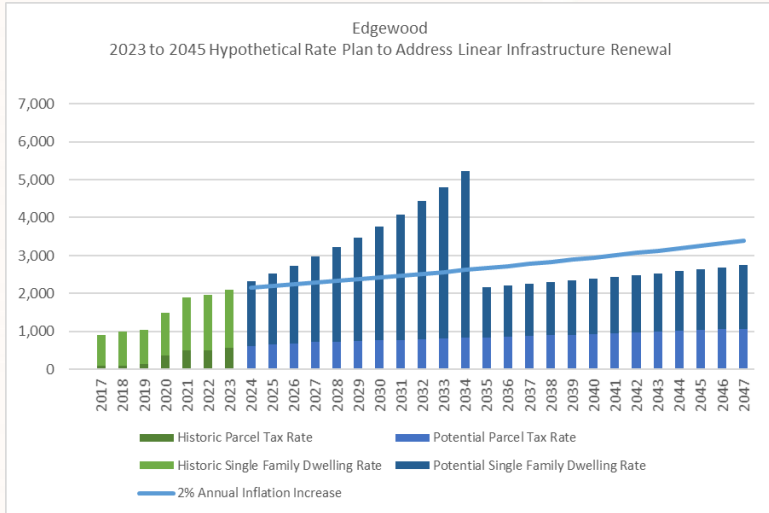
No Asbestos Pipe Removal

Asbestos Pipe Removal

Long-term Loans

- Long-term loan reduces peak rate but high rates will last longer
- Grants could provide a big reduction in rates

Edgewood



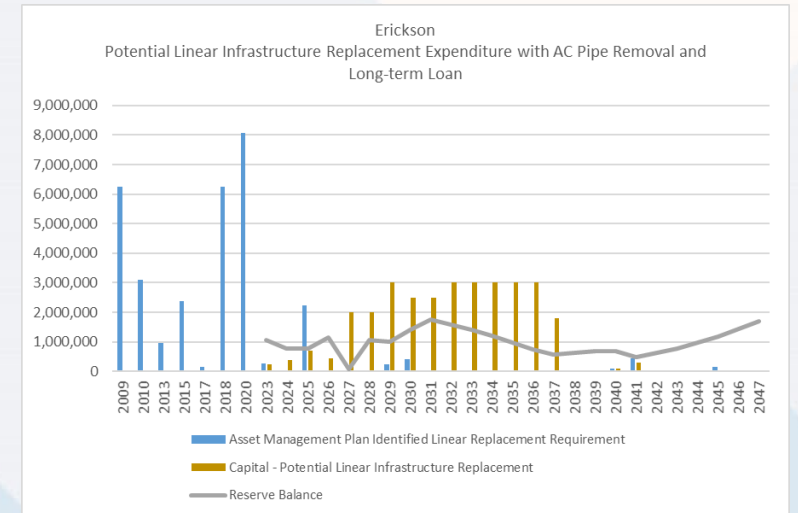
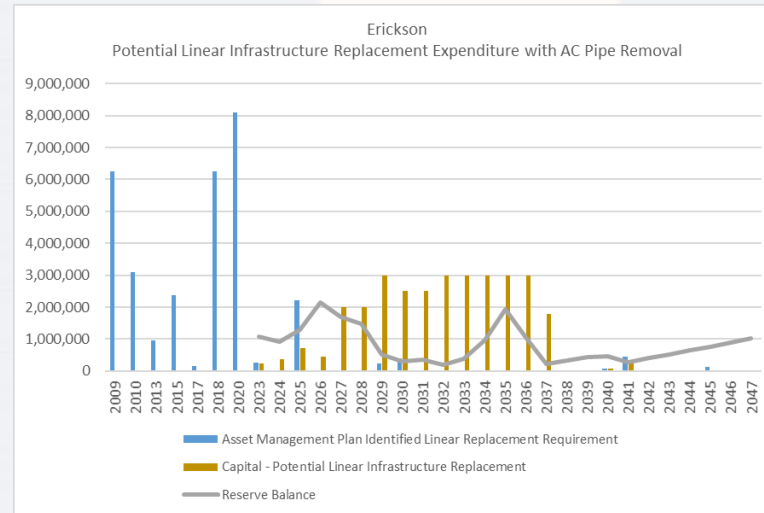
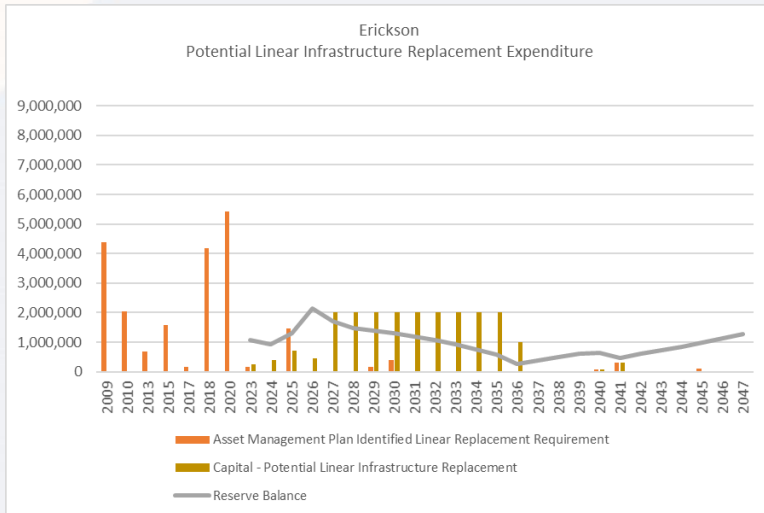
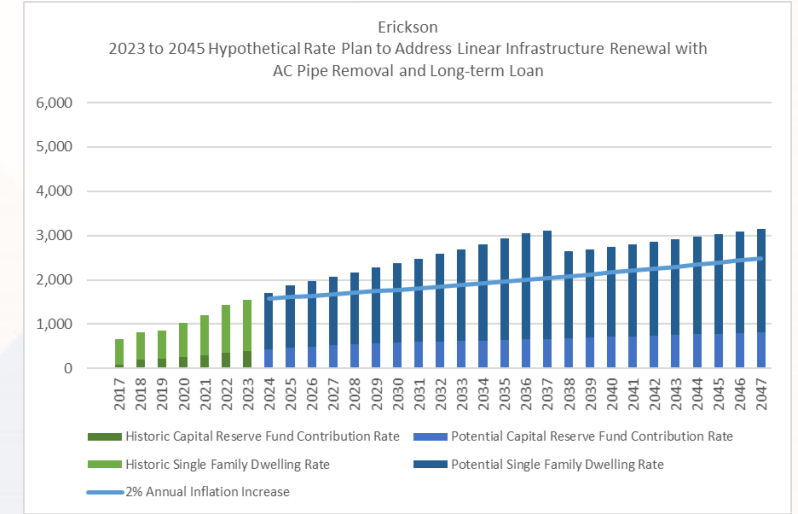
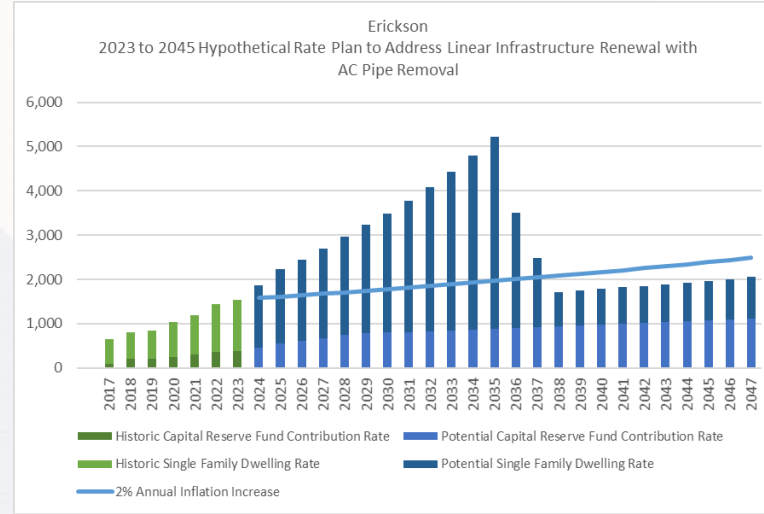
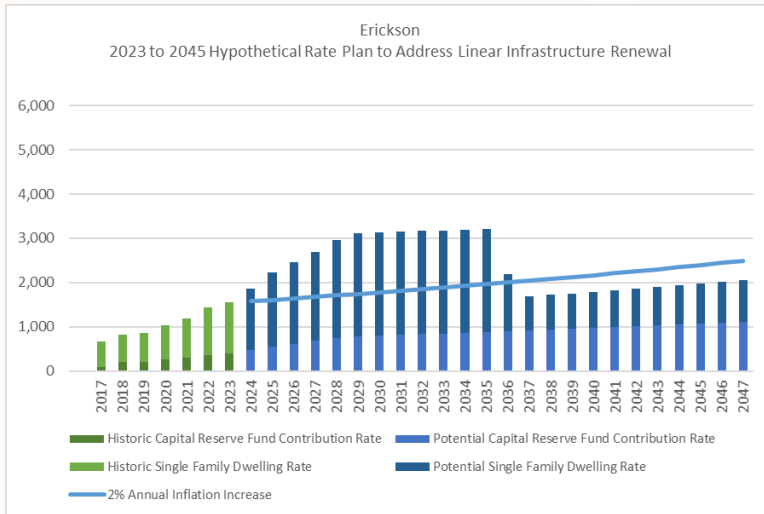
No Asbestos Pipe Removal

Asbestos Pipe Removal

Long-term Loans

- Reserves were reduced by new wells
- Long-term loan reduces peak rate but high rates will last longer
- Grants could provide a big reduction in rates

Erickson



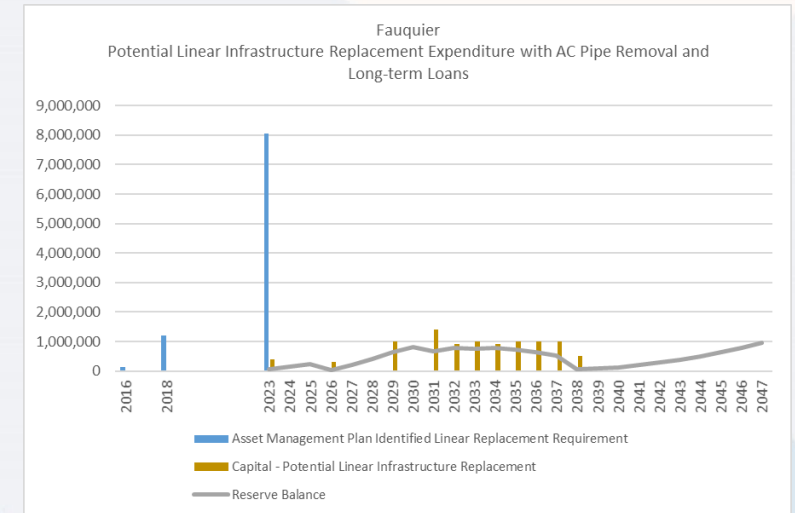
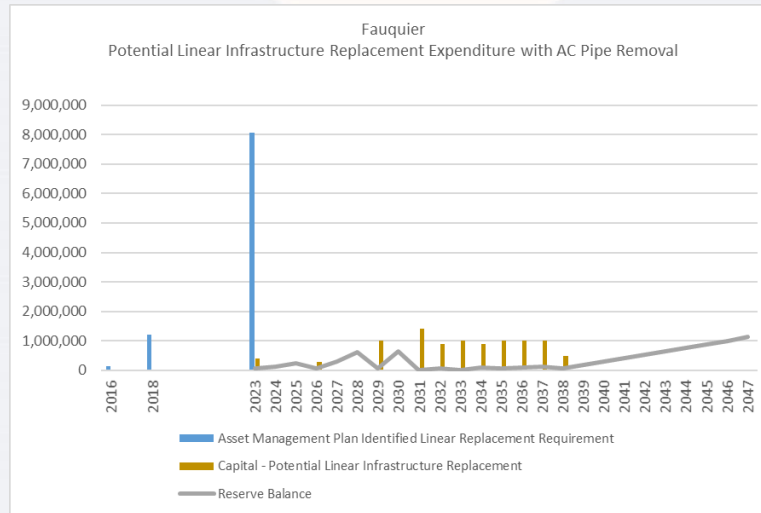
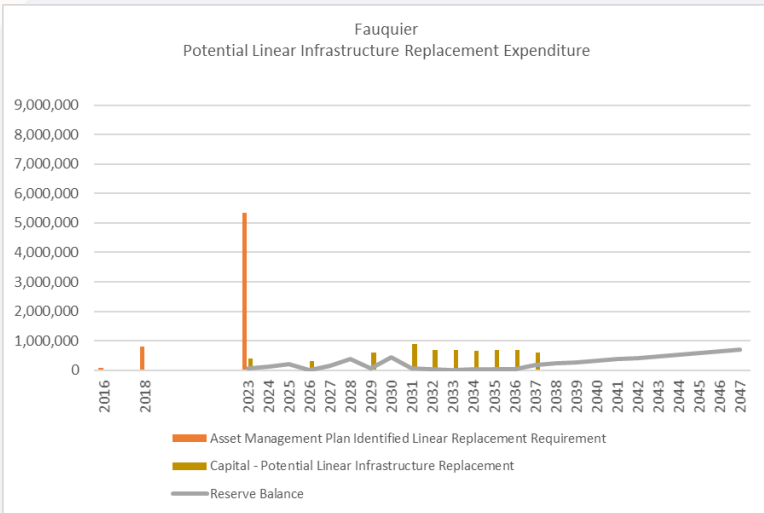
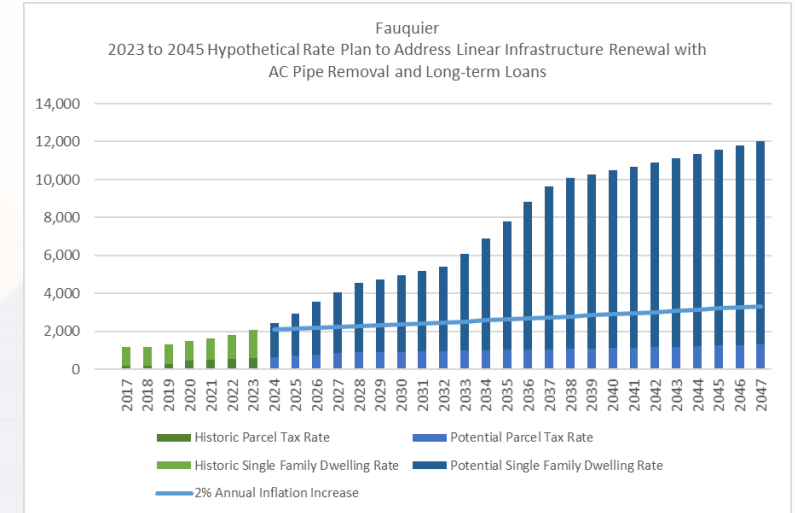
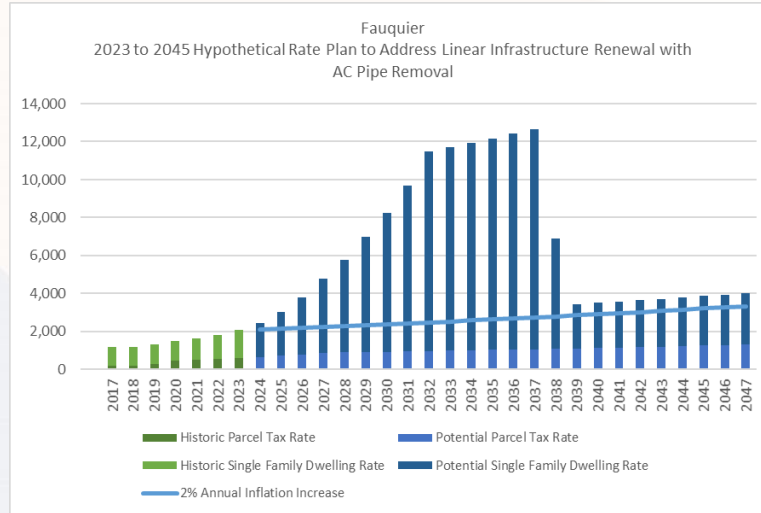
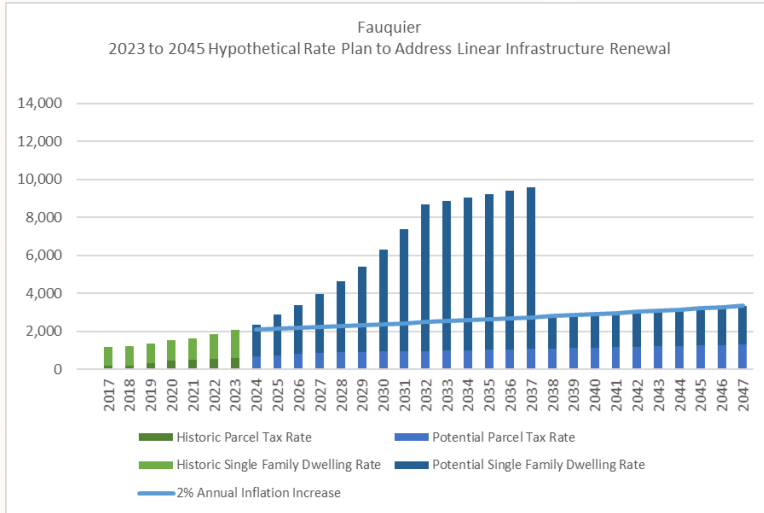
No Asbestos Pipe Removal

Asbestos Pipe Removal

Long-term Loans

- Costs only include Phase 1 metering
- Long-term loan reduces peak rate but high rates will last longer
- Many residential customers would pay more due to Ag Land Charges

Fauquier



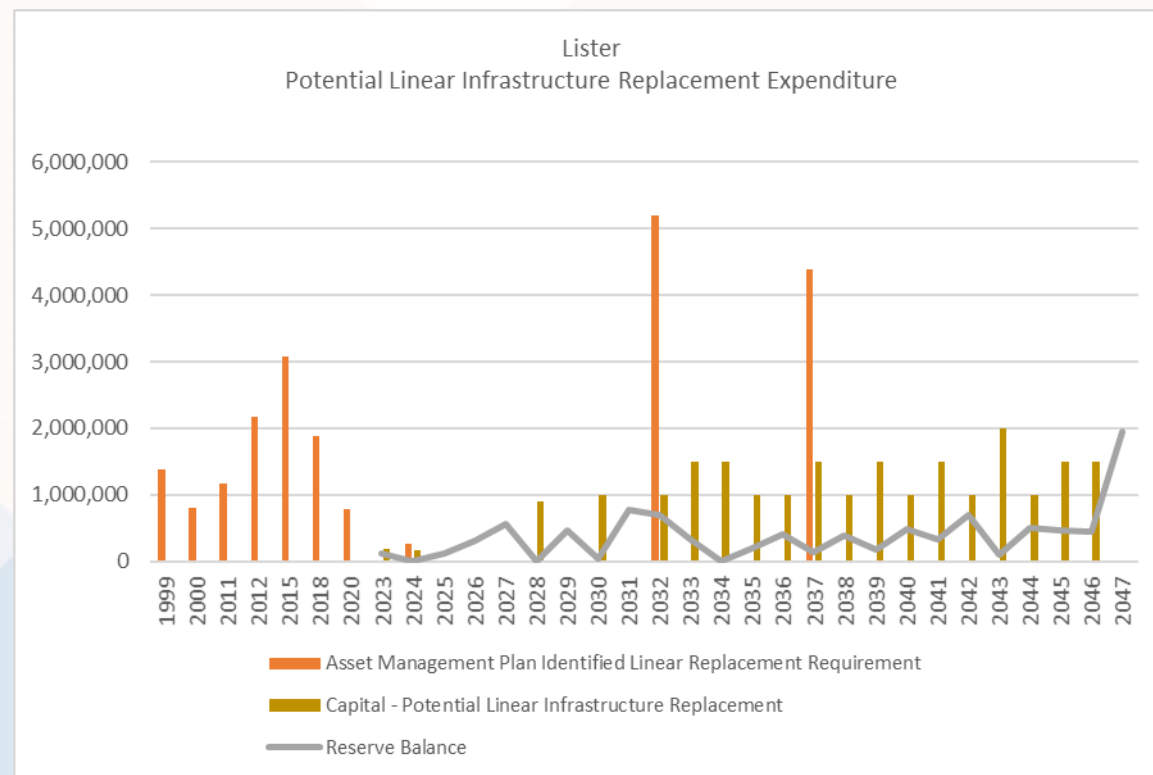
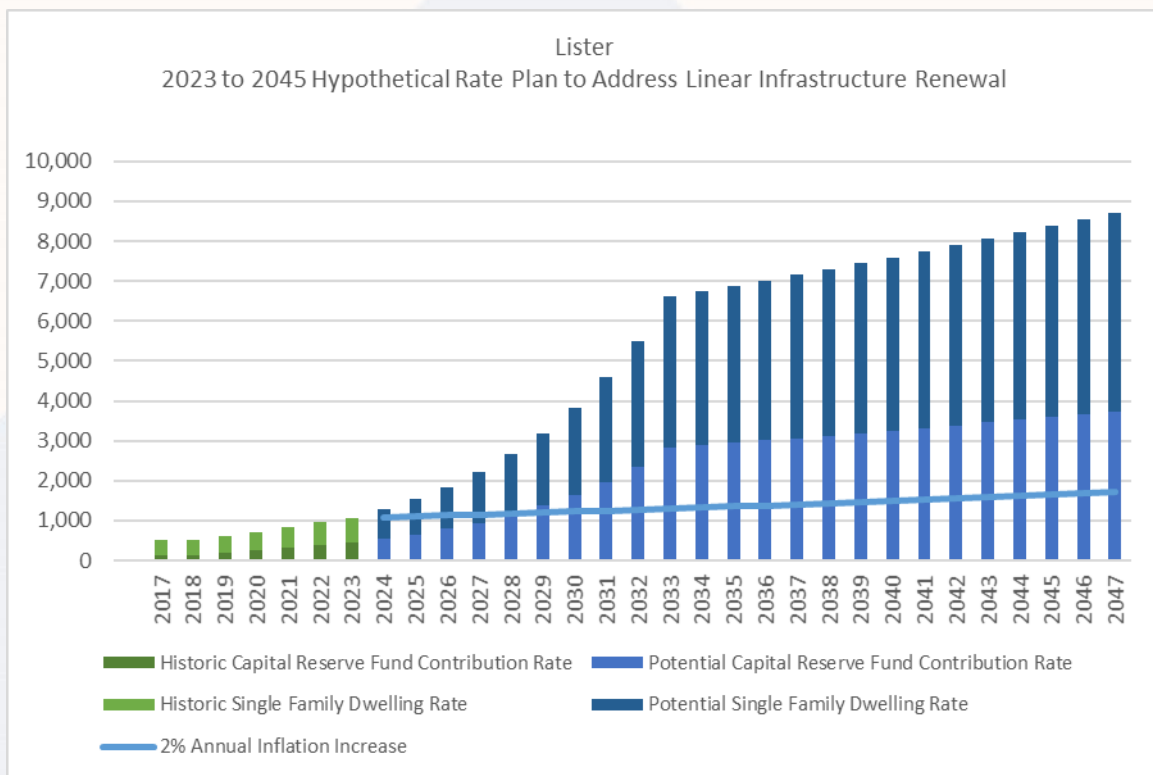
No Asbestos Pipe Removal

Asbestos Pipe Removal

Long-term Loans

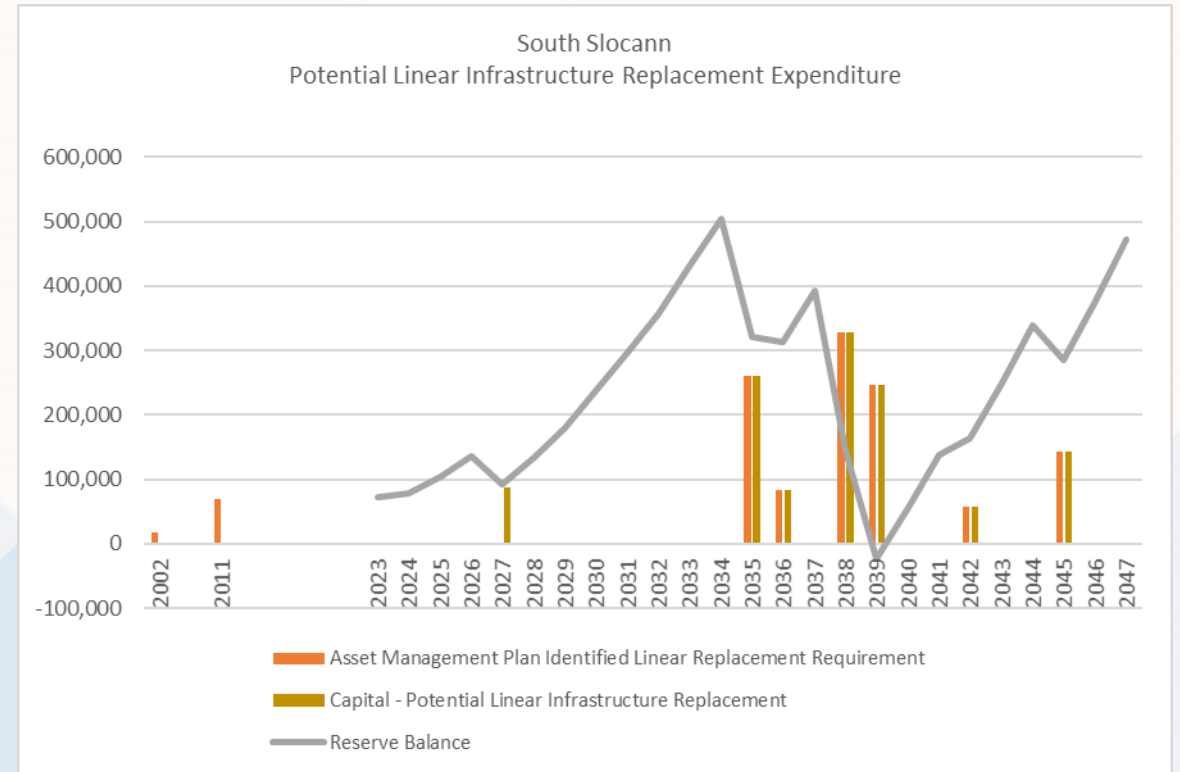
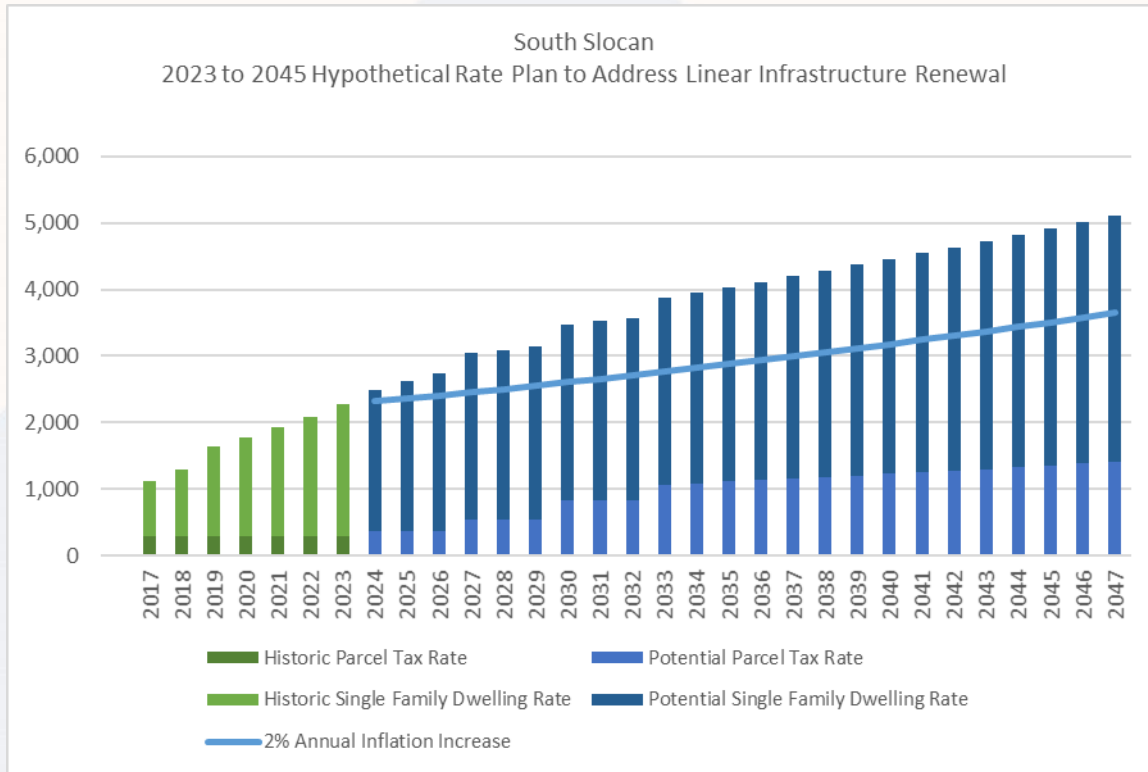
- Reserves were depleted for treatment plant
- Long-term loans hardly reduce peak rate as the model includes a number of spread out loans
- Grants could provide a big reduction in rates

Lister



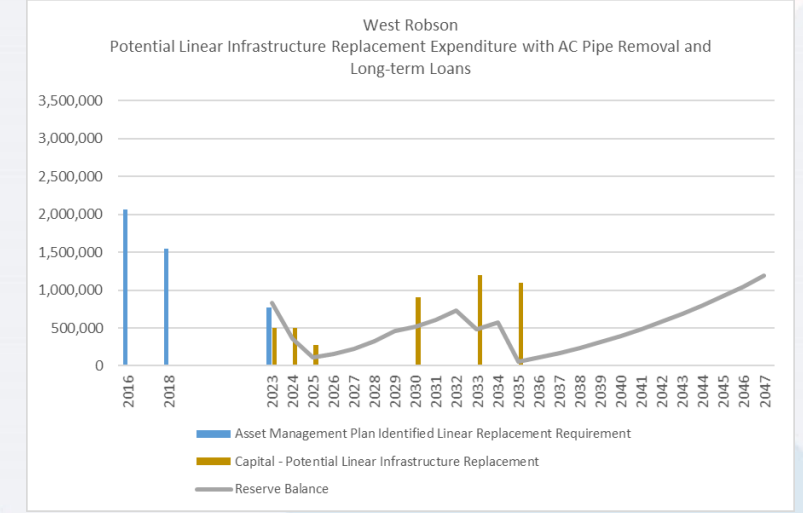
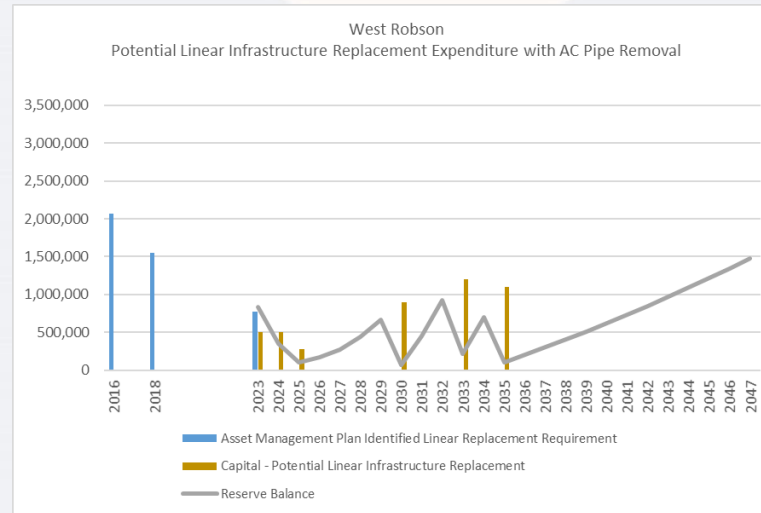
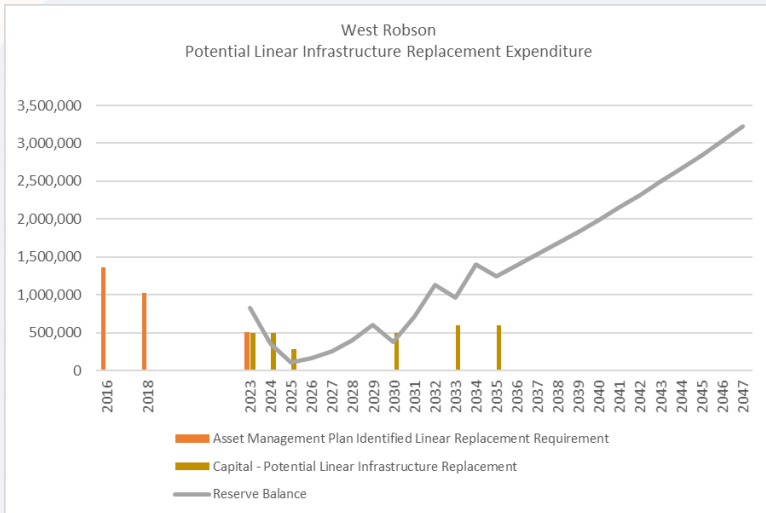
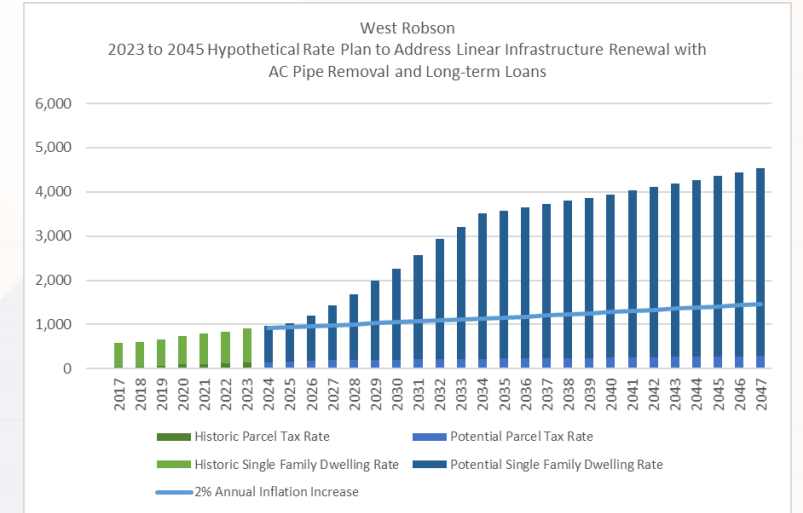
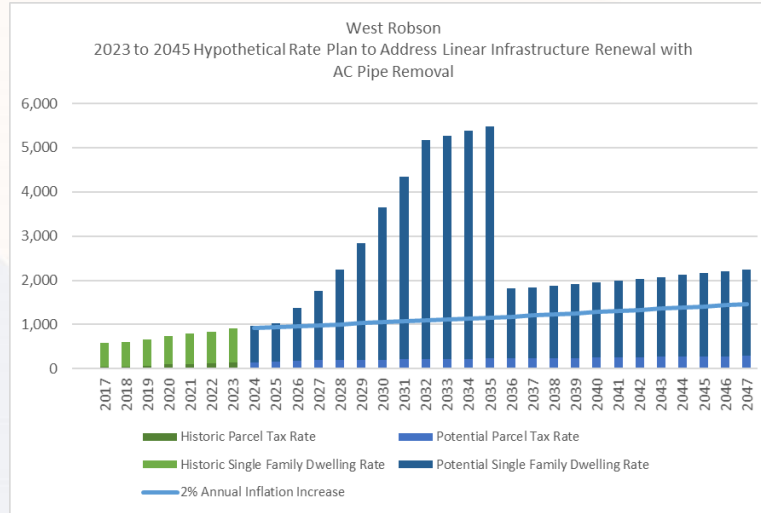
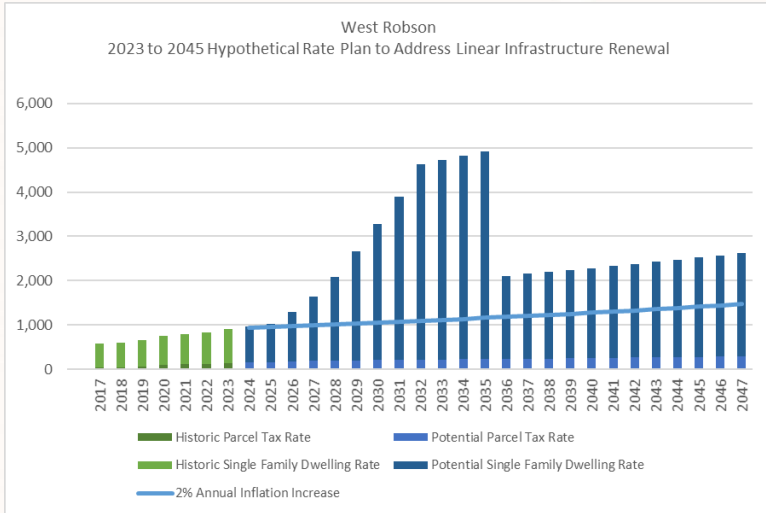
- Lister does not have asbestos pipe
- Lister is primarily glued joint irrigation type PVC pipe
- Glued joints are a significant concern but life expectancy is unknown
- Lister would not benefit from long-term loans as replacements spread out in model

South Slocan



- South Slocan does not have asbestos pipe
- Only small diameter poly and galvanized pipe in replacement schedule before 2047
- Small diameter glued joint PVC schedule pipe and cast iron pipe not due for replacement until after 2047
- Glued joint PVC pipe have had a lot of joint failures

West Robson



No Asbestos Pipe Removal

Asbestos Pipe Removal

Long-term Loans

- Long-term loan reduces peak rate but high rates will last longer
- Grants could provide a big reduction in rates



Committee Report

Date of Report: September 18, 2023
Date & Type of Meeting: October 04, 2023, Water Services Committee
Author: Jason McDiarmid, Utility Services Manager
Subject: DECOMMISSIONING OF ASBESTOS CEMENT PIPE POLICY 600-03-08
File: 5700-20-27
Electoral Area/Municipality A, B, C, D, E, F, G, H, J, & K

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to present the proposed Board Policy - Decommissioning of Asbestos Cement Pipe in Regional District Water Services to the Water Service Committee for adoption.

SECTION 2: BACKGROUND/ANALYSIS

The draft Decommissioning of Asbestos Cement Pipe in Regional District Water Services was presented to the Water Services Committee (WSC) for review and comment at their May 4, 2023 meeting and for adoption at their August 02, 2023 meeting.

The May 4, 2023 version of the policy was accidentally included in the August 02 2023 meeting agenda package instead of the latest version.

The following action items and resolutions were passed at the August 02, 2023 meeting:

Action Item: *That staff be directed to amend Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services as follows:*

Page 1, Decommissioning of Asbestos Cement Pipe on Private Property, Clause 4) which states:

4) *The cost of removal is prohibitive, and the measures referred to below can be put in place to mitigate any known health or safety risks.*

be amended to read:

4) *The cost/benefit of removal is not favourable, and the measures referred to below can be put in place to mitigate any known health or safety risks.*

Moved and seconded,
And resolved that:

*Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services be **referred** to the October 4, 2023 Water Services Committee meeting.*

The requested changes have been incorporated into the policy and the changes made between the May 04, 2023 and August 02, 2023 versions has been included in the latest version attached in redline and clean versions.

The current version changes the May 4 2023 version from 50% to 75% in the following clause.

Abandonment in place of asbestos cement pipe on Public Right of Ways, Regional District Owned Land or Crown Land is only permitted under the following conditions:

- 4) *The estimated per meter cost of asbestos cement pipe removal is greater than 75% of the estimated per meter cost of new pipe installation.*

The most recent water system asset management plans assume the following replacement costs:

Pipe Diameter (mm)	Asbestos Pipe Removal (per meter)	Pipe Replacement Cost (per meter)	Total (per meter)	Asbestos Pipe Removal Cost %
100	500	938	1,438	53%
150	500	976	1,476	51%
200	500	1,026	1,526	49%
250	500	1,114	1,614	45%

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan: Yes No Financial Plan Amendment: Yes No
 Debt Bylaw Required: Yes No Public/Gov’t Approvals Required: Yes No

Removal and proper disposal of asbestos pipe will increase water line replacement costs but removal now will eliminate more expensive removal costs sometime in the future as well as reduce future liability for the RDCK overall.

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

There is no known Canadian Federal, or Canadian Provincial legislation that requires the removal of abandoned, buried and unexposed asbestos cement pipe. See May 4, 2022 Water Services Committee report for other legislative considerations.

3.3 Environmental Considerations

Asbestos pipe abandoned in place could potentially be considered a hazardous waste in the future, particularly when it deteriorates to the point of becoming friable.

3.4 Social Considerations:

Abandonment of asbestos cement pipe in place will pose a health hazard when exposed in the future.

3.5 Economic Considerations:

Removal of asbestos cement pipe would increase water line replacement costs and result in higher customer water rates; however, the cost of removal of asbestos pipe in the future will be much higher when it deteriorates to the point of becoming friable. Future rate payers will have to pay for that legacy from past users.

3.6 Communication Considerations:

None.

3.7 Staffing/Departmental Workplace Considerations:

Staff will need to coordinate with the Ministry of Transportation and Infrastructure (MOTI) to time Regional District pipeline replacement projects with MOTI paving projects.

3.8 Board Strategic Plan/Priorities Considerations:

To Manage our Assets and Operations in a Fiscally Responsible Manner.

SECTION 4: OPTIONS & PROS / CONS

Option 1: That the Regional District Water Services Committee recommends to the Board to adopt Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services .

PROS:

- Reduced health risk for future exposures
- Reduced future liability for the whole organization.
- Eliminates future higher removal costs for all asbestos pipe that has been removed.

CONS:

- Significantly higher costs for asbestos cement water line replacement projects

Option 2: That the Regional District Water Services Committee recommends that the Board of Directors not adopt proposed Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services.

PROS:

- Lower costs for asbestos cement water line replacement projects

CONS:

- Asbestos cement pipe abandoned in place now could be considered a hazardous waste in the future
- Higher risk for future exposures
- Higher future liability for the whole organization.
- Potentially higher future removal and disposal costs, if and when removal is required

SECTION 5: RECOMMENDATIONS

That the Regional District Water Services Committee recommends to the Board to adopt Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services.

Respectfully submitted,

“Digitally Signed”

Jason McDiarmid
Utility Services Manager

CONCURRENCE

General Manager of Environmental Services – Uli Wolf
Water Operations Manager – Alexandra Divlakovski

ATTACHMENTS:

- ATTACHMENT A:** DRAFT Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services – Redline Version
- ATTACHMENT B:** Policy No. 600-03-08: Decommissioning Asbestos Cement Pipe in Regional District Water Services – Final Clean Version



Chapter: ~~[Chapter of policy]~~ 600 ENVIRONMENTAL SERVICES

Section: ~~[Section of policy]~~ 600-03 Water/Sewer

Subject: Decommissioning Asbestos Cement Pipe ~~for~~in Regional District Water Services

Board Resolution:	[Board resolution #]	Established Date:	[Date of policy]	Revised Date:	[Revised date of policy]
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POLICY:

PURPOSE:

The purpose of this policy is to identify the requirements for abandonment in place or removal of decommissioned asbestos cement pipe for Regional District owned water services.

SCOPE:

This policy applies to Regional District owned water systems and only applies to decommissioning of asbestos cement pipe after the date of this policy's adoption.

DEFINITIONS:

None.

POLICY:

Background

The Regional District has about 40.4 km of asbestos cement pipe in 9 of 20 water services owned by the Regional District that was installed between 1960 and 1995. Some of the pipe is due for replacement and abandonment in place, as is common practice for other types of pipe, could pose a health hazard when exposed in the future.

Decommissioning of Asbestos Cement Pipe on Private Property

Whenever feasible the first priority shall be to remove and properly dispose of asbestos cement pipe that is to be decommissioned on private property.

Abandonment in place of asbestos cement pipe on private property is only permitted if ~~one~~any of the following conditions applies:

- 1) Acts or Regulations do not permit removal of the pipe;
- 2) Removal of the pipe poses too great of a health and safety risk;
- 3) ~~There is no Statutory Right of Way or easement agreement for the asbestos cement pipe and the~~The property owner does not provide permission for pipe removal; ~~or~~and
- 4) The ~~cost/benefit of removal is not favourable~~cost of removal is prohibitive, and the measures referred to below can be put in place to mitigate any known health or safety risks.



If asbestos cement pipe is to be abandoned in place on private property the following measures shall be ~~taken~~considered:

- 1) The Regional District is to maintain mapping of the abandoned in place asbestos cement pipe in perpetuity and the mapping is to be made available to the public; ~~and~~
- 2) The property owner agrees to grant the Regional District a covenant under section 219 of the *Land Title Act*, acknowledging the presence of the asbestos cement pipe, agreeing to restrictions on the use of the land that will mitigate any known health or safety risks, and waiving Regional District liability; ~~or~~
- 3) ~~A legal review of any existing Existing~~ Existing easement agreements or statutory rights of way; remain on title or the terms of any updated statutory right of way or section 219 covenant the owner is prepared to agree to, when read in connection are replaced with the Regional District's statutory powers, ~~indicates new agreements~~ that allow the Regional District ~~has the rights and powers necessary to manage any known health or safety risks associated with the abandoned in place asbestos cement pipe~~ access for inspection.

Decommissioning of Asbestos Cement Pipe on Public Right of Ways, Regional District Owned Land or Crown Land

Whenever feasible the first priority shall be to remove and properly dispose of asbestos cement pipe that is to be decommissioned on public right of ways, Regional District owned land or Crown Land.

Abandonment in place of asbestos cement pipe on Public Right of Ways, Regional District Owned Land or Crown Land is only permitted under the following conditions:

- 1) Acts or Regulations do not permit removal of the pipe;
- 2) Removal of the pipe poses too great of a health and safety risk;
- 3) The Province does not provide permission for pipe removal on lands under their jurisdiction; or
- 4) The estimated per meter cost of asbestos cement pipe removal is greater than 5075% of the estimated per meter cost of new pipe installation.

If asbestos cement pipe is to be abandoned in place on public right of ways, Regional District owned land and or Crown Land, the following measure shall be taken:

- 1) The Regional District is to maintain mapping of the abandoned in place asbestos cement pipe in perpetuity and the mapping is to be made available to the public.
- 2) Considerations shall be made for grouting of the pipe to improve structural support, particularly for short sections or smaller diameter pipe where grouting may be more economical than removal.

Asbestos Cement Pipe Abandonment Planning and Design Considerations

The Ministry of Transportation and Infrastructure (MOTI) typically does not give permission to trench cut new asphalt and it would be not cost effective to pave an entire road in order to remove asbestos cement pipe. The Regional District will coordinate with MOTI on an at least 5 year time horizon for asbestos pipe replacement projects.



RELATED LEGISLATION:

There is no known Canadian Federal, or Canadian Provincial legislation that requires the removal of abandoned, buried and unexposed asbestos cement pipe.

DRAFT



Number: 600-03-08
REGIONAL DISTRICT OF CENTRAL KOOTENAY
Policy Manual

Chapter:	600 ENVIRONMENTAL SERVICES				
Section:	600-03 Water/Sewer				
Subject:	Decommissioning Asbestos Cement Pipe in Regional District Water Services				
Board Resolution:	[Board resolution #]	Established Date:	[Date of policy]	Revised Date:	[Revised date of policy]

POLICY:

PURPOSE:

The purpose of this policy is to identify the requirements for abandonment in place or removal of decommissioned asbestos cement pipe for Regional District owned water services.

SCOPE:

This policy applies to Regional District owned water systems and only applies to decommissioning of asbestos cement pipe after the date of this policy's adoption.

DEFINITIONS:

None.

POLICY:

Background

The Regional District has about 40.4 km of asbestos cement pipe in 9 of 20 water services owned by the Regional District that was installed between 1960 and 1995. Some of the pipe is due for replacement and abandonment in place, as is common practice for other types of pipe, could pose a health hazard when exposed in the future.

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Whenever feasible the first priority shall be to remove and properly dispose of asbestos cement pipe that is to be decommissioned on private property.

Abandonment in place of asbestos cement pipe on private property is only permitted if any of the following conditions applies:

- 1) Acts or Regulations do not permit removal of the pipe;
- 2) Removal of the pipe poses too great of a health and safety risk;
- 3) The property owner does not provide permission for pipe removal; and
- 4) The cost/benefit of removal is not favourable, and the measures referred to below can be put in place to mitigate any known health or safety risks.

If asbestos cement pipe is to be abandoned in place on private property the following measures shall be considered:



- 1) The Regional District is to maintain mapping of the abandoned in place asbestos cement pipe in perpetuity and the mapping is to be made available to the public;
- 2) The property owner agrees to grant the Regional District a covenant under section 219 of the *Land Title Act*, acknowledging the presence of the asbestos cement pipe, agreeing to restrictions on the use of the land that will mitigate any known health or safety risks, and waiving Regional District liability;
- 3) Existing easement agreements or statutory rights of way remain on title or are replaced with new agreements that allow the Regional District access for inspection.

Decommissioning of Asbestos Cement Pipe on Public Right of Ways, Regional District Owned Land or Crown Land

Whenever feasible the first priority shall be to remove and properly dispose of asbestos cement pipe that is to be decommissioned on public right of ways, Regional District owned land or Crown Land.

Abandonment in place of asbestos cement pipe on Public Right of Ways, Regional District Owned Land or Crown Land is only permitted under the following conditions:

- 1) Acts or Regulations do not permit removal of the pipe;
- 2) Removal of the pipe poses too great of a health and safety risk;
- 3) The Province does not provide permission for pipe removal on lands under their jurisdiction; or
- 4) The estimated per meter cost of asbestos cement pipe removal is greater than 75% of the estimated per meter cost of new pipe installation.

If asbestos cement pipe is to be abandoned in place on public right of ways, Regional District owned land and or Crown Land, the following measure shall be taken:

- 1) The Regional District is to maintain mapping of the abandoned in place asbestos cement pipe in perpetuity and the mapping is to be made available to the public.
- 2) Considerations shall be made for grouting of the pipe to improve structural support, particularly for short sections or smaller diameter pipe where grouting may be more economical than removal.

Asbestos Cement Pipe Abandonment Planning and Design Considerations

The Ministry of Transportation and Infrastructure (MOTI) typically does not give permission to trench cut new asphalt and it would be not cost effective to pave an entire road in order to remove asbestos cement pipe. The Regional District will coordinate with MOTI on an at least 5 year time horizon for asbestos pipe replacement projects.

RELATED LEGISLATION:

There is no known Canadian Federal, or Canadian Provincial legislation that requires the removal of abandoned, buried and unexposed asbestos cement pipe.



Committee Report

Date of Report: September 18, 2023
Date & Type of Meeting: October 04, 2023 Water Services Committee
Author: Jason McDiarmid, Utility Services Manager
Subject: DRINKING WATER SYSTEMS PATHOGEN RISK WATER QUALITY MANAGEMENT POLICY 600-03-07
File: 5700-20-36
Electoral Area/Municipality A, B, C, D, E, F, G, H, J & K

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to present the latest Drinking Water Systems Pathogen Risk Water Quality Management Policy draft to the Water Services Committee for adoption.

SECTION 2: BACKGROUND/ANALYSIS

A draft Drinking Water Systems Pathogen Risk Water Quality Management Policy and a summary of legal opinion was presented at the August 02, 2023 Water Services Committee meeting for information only.

Staff have received no follow up comments or questions from Water Service Committee meeting members. Staff is now requesting that the policy be adopted.

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Financial Plan Amendment:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Debt Bylaw Required:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Public/Gov't Approvals Required:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

None.

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

This proposed Drinking Water Systems Pathogen Risk Water Quality Management Policy will not bring the Sanca Park water system into compliance with the BC Drinking Water Protection Act and Regulation requirements for provision of potable water.

3.3 Environmental Considerations

None.

3.4 Social Considerations:

Implementation of the proposed Drinking Water Systems Pathogen Risk Water Quality Management Policy will improve health risk identification for potential water users in Regional District water services under long term Water Quality Advisories or Boil Water Notices.

3.5 Economic Considerations:

Implementation of water quality mitigation measures and treatment could have a substantial economic impact to customers in small water systems. This policy provides guidance on rate increase limits to implement mitigation measures and treatment, or provides alternative to manage the risk.

3.6 Communication Considerations:

Public communication will be required as identified in the proposed Drinking Water Systems Pathogen Risk Water Quality Management Policy.

3.7 Staffing/Departmental Workplace Considerations:

Implementation of the proposed Drinking Water Systems Pathogen Risk Water Quality Management Policy would only result in a small annual increase in staff time required.

3.8 Board Strategic Plan/Priorities Considerations:

To Excel in Governance and Service Delivery.

SECTION 4: OPTIONS & PROS / CONS

Option 1: That the Regional District Water Services Committee recommends that the Board adopt Policy Number 600-03-07 Drinking Water Systems Pathogen Risk Water Quality Management, effective immediately; AND FURTHER, that the Board rescind Burton water quality action plan Resolution 534/17.

PROS

- Improves health risk identification for potential water users on long term Water Quality Advisories or Boil Water Notices.
- Provide a plan to manage pathogen risk in water systems.
- Defers or potentially mitigates customer economic impact resulting from required water quality upgrades.
- Provides improved clarity on chlorine disinfection when opposed by water system customers.
- Can help to limit Regional District liability.

CONS

- Does not necessarily bring the water systems into compliance with the *BC Drinking Water Protection Act* and Regulation requirements.
- Minor staff time increase required.
- Minor additional costs to effected water services.

Option 2: That the Regional District Water Services Committee recommends that the Board not adopt Policy Number 600-03-07: Drinking Water Systems Pathogen Risk Water Quality Management.

PROS

- Minor cost savings.
- Minor staff time savings.

CONS

- Customers may ignore the health risk or may not perceive an adequate level of risk and may drink the water without any treatment.

- Visitors to the community or new property owners may not be aware that the water is not potable and might drink the water.
- Continued liability to the Regional District.

SECTION 5: RECOMMENDATIONS

That the Regional District Water Services Committee recommends that the Board adopt Policy Number 600-03-07 Drinking Water Systems Pathogen Risk Water Quality Management, effective immediately; AND FURTHER, that the Board rescind Burton water quality action plan Resolution 534/17.

Respectfully submitted,

Jason McDiarmid – Utility Services Manager

CONCURRENCE

General Manager of Environmental Services – Uli Wolf

Water Operations Manager – Alexandra Divlakovski

ATTACHMENTS:

Attachment A: Proposed Policy No. 600-03-07: Drinking Water Systems Pathogen Risk Water Quality Management



Number: 600-03-07
REGIONAL DISTRICT OF CENTRAL KOOTENAY
Policy Manual

Chapter: 600 ENVIRONMENTAL SERVICES

Section: 600-03 Water/Sewer

Subject: Drinking Water Systems Pathogen Risk Water Quality Management

Board Resolution:	[Board resolution #]	Established Date:	[Date of policy]	Revised Date:	[Revised date of policy]
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POLICY:

PURPOSE:

The purpose of this policy is to identify and manage public health risks associated with a long term Water Quality Advisories and Boil Water Notices for the Regional District owned water services. This policy is not intended as a substitute for bringing a water system into compliance with the *BC Drinking Water Protection Act and Regulation* requirements for provision of potable water. The intent of this policy is only to provide guidance on pathogen risk water quality management where financial and budgetary limitations are delaying longer term, permanent solutions to water quality issues.

SCOPE:

This policy applies to all existing and future Regional District owned water services. This policy does not override or negate any Provincial Health Orders, Provincial issued construction permits, Provincial issued Water System operating permits, or direction given by Provincial Drinking Water Officers.

DEFINITIONS:

Boil Water Notices are issued when a health risk, or potential for a health risk, has been identified in a drinking water source or distribution system that can be mitigated by boiling the water. When a Boil Water Notice is issued, the Regional District and Interior Health recommend that all customers boil the water prior to consumption or drink a safe alternative.

Water Quality Advisories are issued when there is a level of risk associated with consuming the drinking water but not enough to warrant a Boil Water Notice. Typically, the Regional District issues these advisories due to increased turbidity levels, low chlorine residual, or no permanent or inadequate water system disinfection when there is a potential risk for pathogens. When a Water Quality Advisory is issued, the Regional District and Interior Health recommend, as a precaution, that young children, the elderly, and people with weak immune systems drink boiled water or a safe alternative.

Point of Entry Treatment Systems are treatment systems installed to provide treatment for an entire property that make the water potable.

POLICY:

Background

Water systems under long term Water Quality Advisories or Boil Water Notices pose a potential public health risk and increase the risk of legal liability for the Regional District. Provision of potable water to



small water systems might not be economically feasible as treatment upgrades and treatment operations and maintenance costs can be expensive on a per capita basis, and residents may refuse approval of the long term borrowing required for such upgrades.

Provision of treatment upgrades might also have other challenges such as land ownership, or public opposition to chlorine disinfection.

Potential Health Risks

Potential health risks associated with not providing potable water include:

- 1) Customers may ignore the risk or may not perceive an adequate level of risk and may drink the water without any treatment.
- 2) Customers can inadvertently ingest untreated water during showering, bathing and food preparation.
- 3) Visitors to the community or new property owners may not be aware that the water is not potable and might drink the water.
- 4) Customers may not be aware of in-home water treatment options.
- 5) Any Regional District owned water distribution lines that pass through private property to service other customers poses additional health risks from potential cross connections or sewage disposal systems.
- 6) Water may become unsafe for use and not just non-potable and this might not be detected without regular water quality testing.

Treatment Upgrades

If a Regional District water system is under a long term Water Quality Advisory or Boil Water Notice, the first priority is to review treatment upgrade options and feasibility. Feasibility considerations might include:

- 1) Drinking water quality and supply risk,
- 2) Source water treatment requirements for but not limited to turbidity, types of pathogen present, potential for disinfection byproducts, chemicals and minerals,
- 3) Land ownership and access,
- 4) Regulatory requirements,
- 5) Other system challenges such as asset renewal,
- 6) Capital costs,
- 7) Operation and maintenance costs,
- 8) Grant funding availability, and
- 9) Potential customer water rates.

If treatment upgrades to reduce or mitigate health risks are economically feasible, then treatment upgrades should be pursued. If treatment upgrades are not considered to be economically feasible in the short-term, or if residents within the system refuse approval of borrowing required to install treatment works, the Regional District may consider other options for financing treatment upgrades such as grants, or increases in fees or taxes, to build up reserves over the medium to long term.



Regional District Owned Point of Entry Treatment Systems

Point-of-Entry Treatment Systems have the potential to require a significant amount of staff time to regularly monitor and test each system. Property owner agreements to provide some monitoring and testing of Point-of-Entry Treatment Systems might be considered, if approved by Interior Health, but the Regional District would continue to hold ultimate responsibility and liability for the safe operation and maintenance of Point-of-Entry Treatment Systems.

Board approval and 100 percent customer approval is generally required to implement Regional District owned Point-of-Entry Treatment Systems within a water service area. An estimation of Capital costs, long-term operation and maintenance costs, potential rates, and any customer costs shall be provided to all customers for decision.

Access agreements are required from all property owners within a water service area, if Point-of-Entry Treatment systems are to be located on private property.

Public and Board Approval Requirements for Implementation of Water Quality Remedial Measures

Public or Board approval is not required to implement the following water quality remedial measures:

- 1) **Remediation of Short-Term Health Risk** - Public or Board approval is not required to implement measures to remedy a short-term health risk that can be undertaken within approved operating and capital budgets.
- 2) **Temporary Chlorine Disinfection** – Public or Board approval is not required for short-term, temporary chlorine disinfection.

Public or Board approval is required to implement the following long-term remedial measures:

- 1) **Long-Term Borrowing** - Public approval is required for long-term borrowing in accordance with the Local Government Act and Community Charter.
- 2) **Rate Increases** - If improvements or mitigating measures implemented result in a 75% or greater increase in total water user fees and water taxation, over a five year period, specific Board approval is required to implement the improvements or mitigating measures.
- 3) **Permanent Chlorine Disinfection** - If permanent chlorine disinfection is not already implemented and is required to remedy a Water Quality Advisory or Boil Water Notice, and the majority of customers have provided documented opposition to chlorine disinfection, Board direction is required. Not implementing permanent chlorine disinfection when economically feasible and when chlorine disinfection is not likely to pose a disinfection by-product health risk might result in a potential liability to the Regional District.

Grant Funding Opportunities

The Regional District will give reasonable consideration to applying for grant funding opportunities to remediate Water Quality Advisories or Boil Water Notices, as opportunities and staff resources permit. Application in response to any grant funding opportunity needs to consider the potential for grant application success, staff resources, grant match funding requirements, land requirements, legal requirements, licencing and permits, grant funding required timelines, number of customers benefited, and prioritization of grant applications for other projects or Regional District services.



Management of Water Services Under Long-Term Water Quality Advisories without Permanent Chlorine Disinfection

If Public or Board approval is not granted to implement required Water Quality Advisory mitigation measures, then the following water quality management plan shall be implemented, unless otherwise directed by the Board or Interior Health.

- 1) **Long-term Water Quality Advisory** - Issue a long-term Water Quality Advisory.
- 2) **Customer Annual Notice** - Customers shall be reminded at least once annually that the water system is under a long-term Water Quality Advisory by mailed letter or billing insert.
- 3) **Public Facilities** - Public facilities such as, but not limited, to campgrounds, schools, community centers, food and beverage establishments, senior's and health facilities shall be encouraged to install their own onsite water disinfection systems.
- 4) **System Flushing** - The water system shall be flushed at least twice in areas where water consumption might be low.
- 5) **Private System Flushing** - Larger private water distributions systems shall be encouraged to flush and disinfect their water systems when not used for extended periods of time.
- 6) **Bacteriological Water Testing** - Bacteriological water sampling and testing shall be conducted at least bi-weekly and as a minimum at two locations in the distribution system each time.
- 7) **Full Comprehensive Water Testing** - Full Comprehensive Water Testing shall be conducted at least every five years.
- 8) **Temporary Scheduled Chlorination** - Consumption level chlorination shall be added to the water system for a minimum two week period, twice annually.
- 9) **Chlorination Public Notice** - Reasonable public notice shall be provided for any planned chlorination.
- 10) **Rescinding Water Quality Advisory** - If there is a history of a satisfactory water sampling results, the long-term Water Quality Advisory may be rescinded with the approval of Interior Health.
- 11) **Permanent Chlorination & Ultraviolet Disinfection** – In consultation with the Provincial Drinking Water Officer and in consideration of potential disinfection by-products, staff should recommend permanent chlorination, as a minimum level of treatment. Ultraviolet disinfection might also be recommended in consultation with the Provincial Drinking Water Officer.
- 12) **Issuance of a Boil Water Notice** – If a pathogen risk cannot be mitigated by this water quality management plan, then the water system may be placed under a Boil Water Notice.

Management of Water Services Under Long-Term Boil Water Notices

If Public or Board approval is not granted to implement required measures to mitigate a Boil Water Notice, then the following water quality management plan shall be implemented, unless otherwise directed by the Board or Interior Health.

- 1) **Long-Term Boil Water Notice** - Issue a long-term Boil Water Notice.
- 2) **Water Sampling** – Long-term water sampling will be implemented to gain water quality data to aid in any future water treatment upgrade design.
- 3) **Publication of Bacteriological Sample Tests Results** - The Regional District shall not be required to regularly publish bacteriological sample results, unless otherwise directed by Interior Health. Any publication shall be accompanied by a notice that the water is considered non-potable and customers should not be using water sample test results to decide whether or not to consume the water.



- 4) **Water System Boil Water Notice Signage** - Permanent Boil Water Notice signage shall be placed at the main roadway entry points to a community, unless otherwise not approved by the Ministry of Transportation and Infrastructure.
- 5) **Private Non-Potable Water Signs** - Customers shall be encouraged to post non-potable water signs at their water fixtures. Non-Potable Water plastic labels shall be made available to customers by the Regional District.
- 6) **Annual Boil Water Notice Reminder** – Customers shall be reminded at least once annually that the water system is under a long-term Boil Water Notice by mailed letter or billing insert.
- 7) **Annual Information on Health Risks** – The Regional District shall once annually provide information on water quality health risks, or make available and remind customers that the information is available on the Regional District website.
- 8) **Annual Information on Private Water Treatment Systems** – The Regional District shall once annually provide information on private water treatment systems, or make available and remind customers that the information is available on the Regional District website.

RELATED LEGISLATION:

BC Drinking Water Protection Act and Regulation

The *BC Drinking Water Protection Act* requires the following regarding potable water:

Water supply systems must provide potable water

- 6 *Subject to the regulations, a water supplier must provide, to the users served by its water supply system, drinking water from the water supply system that*
- (a) *is potable water, and*
 - (b) *meets any additional requirements established by the regulations or by its operating permit.*

The term domestic purpose is defined the *Drinking Water Protection Act* to mean the use of water for:

- (a) *human consumption, food preparation or sanitation,*
- (b) *household purposes not covered by paragraph (a), or*
- (c) *other prescribed purposes.*

Section 3.1 of the *BC Drinking Water Protection Regulation* provides an exemption for potable water under Section 6 of Act only under the following conditions:

3.1 The following are exempt from section 6 of the Act:

- (a) *a small system, if*
 - (i) *each recipient of the water from the small system has a point of entry or point of use treatment system that makes the water potable, and*
 - (ii) *the water supplier ensures that the location of non-potable water discharge and non-potable water piping are identified by markings that are permanent, distinct and easily recognized²;*
- (b) *a water supply system, including a small system, if*
 - (i) *the system does not provide water for human consumption or food preparation purposes,*



Policy Manual

- (ii) the system is not connected to a water supply system that provides water for human consumption or food preparation purposes, and
- (iii) the water supplier ensures that the location of non-potable water discharge and non-potable water piping are identified by markings that are permanent, distinct and easily recognized.

Note 2: The Regional District would have to conduct home inspections to ensure that permanent signage is in place on every sink, shower, tub and outside faucet in order to reduce liability.

The *BC Drinking Water Protection Regulation, Schedule A* provides the minimum requirements for potable water. Health Officers can impose other requirements such as those laid out in the *Ministry of Health Drinking Water Treatment Objectives (Microbiological) for Surface Water Supplies in British Columbia, Version 1.1*. The *Regulation Schedule A* is as follows:

Schedule A
Water Quality Standards for Potable Water
(sections 2 and 9)

<i>Parameter:</i>	<i>Standard:</i>
<i>Fecal coliform bacteria</i>	<i>No detectable fecal coliform bacteria per 100 ml</i>
<i>Escherichia coli</i>	<i>No detectable Escherichia coli per 100 ml</i>
<i>Total coliform bacteria</i>	
<i>(a) 1 sample in a 30 day period</i>	<i>No detectable total coliform bacteria per 100 ml</i>
<i>(b) more than 1 sample in a 30 day period</i>	<i>At least 90% of samples have no detectable total coliform bacteria per 100 ml and no sample has more than 10 total coliform bacteria per 100 ml</i>

The *BC Drinking Water Protection Regulation* provides the following regarding posting of signs:

Public Notification

- 10 *If water provided by a domestic water system is not or may not be potable water, the owner of a public premises that is served by the domestic water system must do both of the following:*
- (a) notify the public that the water is not potable water by posting a sign at every sink or drinking water fountain accessible to the public;*
 - (b) if normal business practices provide an opportunity, verbally advise any person who may use the domestic water system for a domestic purpose that the water is not potable water.*

Interior Health Operating Permit Requirements

The *British Columbia Drinking Water Protection Act* requires that all water systems hold an Interior Health issued Operating Permit and all water systems must comply with all terms and conditions identified in the Operating Permit.



BC Plumbing Code

Division B, article 9.31.3.1 of Book I General of the BC Building Code requires every dwelling unit to be supplied with potable water. Further to this, the BC Building Code Book II Plumbing Systems, Division B, article 2.7.3.2 stipulates that:

An outlet from a non-potable water system shall not be located where it can discharge into

- a) a sink or lavatory,*
- b) a fixture into which an outlet from a potable water system is discharged, or*
- c) a fixture that is used for the preparation, handling or dispensing of food, drink or products that are intended for human consumption.*

Plumbing outlets to kitchen and bathroom sinks cannot discharge non-potable water, and non-potable water cannot be discharged to any fixture with a potable water discharge. The *BC Building Code* contains an appendix that allows for some exceptions to the requirement that non-potable water shall not be discharged to a sink or lavatory under circumstances where the use may have proven acceptable on the basis of past performance, such as, a public rest stop washroom. Given that potable water must be used for human consumption and food preparation, there are no provision for non-potable water to supply a kitchen sink.

Guidelines for Canadian Recreational Water Quality – Third Edition

The *Canadian Recreational Water Quality Guidelines* for E. coli for fresh water recreational primary contact activities is as follows:

Geometric mean concentration (minimum of five samples): ≤ 200 E. coli/100 mL

Single-sample maximum concentration: ≤ 400 E. coli/100 mL



Committee Report

Date of Report: September 27, 2023
Date & Type of Meeting: October 04, 2023, Water Services Committee
Author: Jason McDiarmid, Utility Services Manager
Subject: WORK PLAN TO LIFT THE MORATORIUM ON ACQUISITION OF WATER & WASTEWATER SYSTEMS
File: 11-5700-05-Moratorium
Electoral Area/Municipality: All Areas

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to present a work plan to the Water Services Committee for lifting the moratorium on the intake of acquisition applications from water and wastewater systems.

SECTION 2: BACKGROUND/ANALYSIS

The Regional District Board passed the following Resolution 376/23 at their June 7, 2023 meeting:

That the Board extend the moratorium on the acquisition of water and wastewater systems until June 30, 2024;

AND FURTHER, that the Board direct staff to present updated plans, policies and acceptance matrices, as required, to the Water Service Committee meeting on or before June 2024 with the intent to lift the moratorium at that time;

AND FURTHER, that the Board direct staff to review and recommend how the RDCK can support governance, asset guidance and operational supports but not ownership of independent, community operated water systems inclusive of Improvement and Irrigation Districts.

Updating plans, policies and the acceptance matrices is anticipated to take some time for drafting, review and approval. In order to reduce the volume of material under consideration at one time, staff is recommending that the work, review and approval be distributed over several Water Services Committee meetings.

In addition, adding support to other water systems could significantly complicate planning and future service delivery. A decision on what support might be provided to other water systems should be made early in the process planning process.

Staff is proposing the following work plan to rescind the moratorium.

Task	Presented to WSC Meeting	Anticipated Decision/Approval by WSC
Work plan to rescind moratorium to WSC	02-Oct-2023	Not required
Decision on Potential Provision of Service to Other Water Systems	06-Dec-2023	06-Dec-2023 or 07-Feb-2024
New modular Water Management Plan	06-Dec-2023	06-Dec-2023 or 07-Feb-2024
Acquisition Evaluation Matrix & Acceptance Criteria	07-Feb-2023	03-Apr-2024
Acquisition Plan	07-Feb-2023	03-Apr-2024
Revised Acquisition Policy, if required	03-Apr-2024	05-Jun-2024
Various Templates and Internal Procedures		Not required

Decision on Potential Provision of Service to Other Water Systems

Regional District staff already and can continue to provide minor advisory support to other water & wastewater systems but staff are conscious of time spent helping others as water staff are funded primarily by services owned by the Regional District. Further potential liability can be a concern.

If services levels are expanded, alternate funding might need to be identified or additional funding from general taxation would be needed. If the amount of support to other systems is significantly expanded, an official new Regional District service should be created.

A decision on provision of services to others is anticipated to be presented at the December 06, 2023 Water Services Committee Meeting.

New Modular Water Management Plan

In 2010, the Regional District adopted a Regional Water Management Plan that placed an emphasis on acquisition of water and wastewater systems that expressed a desire to be converted to a Regional District system.

Since 2010, the Regional District as adopted a number of new bylaws, plans and policies, and the 2010 plan needs to be updated. Staff is planning to create a modular plan to provide better flexibility and focus. An overall new Water Management Plan will be kept brief and references other bylaws, plans, and policies. The following provides a schematic of the potential overall plan.



Revised Acquisition Evaluation Matrix & Acceptance Criteria

Staff is proposing to revise the evaluation matrix to take a business case approach. Systems might be evaluated separately for Potential Service Area Benefit, Potential Regional District Service Delivery Impact, and Potential Financial Impact. Considerations for evaluation could be weighted. As an example, more emphasis can be placed on Potential Service Area Benefit, if desired.

As part of the overall evaluation, the requirements to mitigate Potential Regional District Service Delivery Impact concerns need to be reviewed. Once the potential impact mitigation is identified, the Potential Financial Impact could be evaluated. Ultimately, it would be up to the water system customers to decide whether or not they are prepared to accept the potential rates.

Acquisition Plan

Staff is proposing that the proposed Acquisition Plan be based on the existing Regional Water Management Plan acquisition sections but updated.

An emphasis will be placed on manageable water and wastewater system acquisition. The Water group went from basically no staff in the early 2000s to having too few staff from 2011 to 2012 while acquiring 9 new water systems. Most water systems came with a number of known significant issues but many more issues were identified after acquisition. At the same time a large number of Capital projects were required and there were no dedicated project management staff. Continued growth was not sustainable and it took more than 10 years of work, restructuring and staffing increases to once again consider lifting the moratorium. What was learned is that manageable growth including careful staffing level planning, identification of potential issues and mitigation requirements, identification of all potential long-term costing, and identification of potential funding and rate requirements is key.

The decision to move forward with any acquisition(s) needs to be based on a sound business case.

Revise Acquisition Policy, if required

Staff will need to review whether or not both an Acquisition Plan and Board Policy is required. If a Policy is required, the Policy will likely require updating.

Various Templates and Internal Procedures

Various templates and internal staff procedures will need to be updated or developed. It is not anticipated that Water Services Committee approval would be required.

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan: Yes No **Financial Plan Amendment:** Yes No
Debt Bylaw Required: Yes No **Public/Gov’t Approvals Required:** Yes No

Planning to lift the moratorium will require a significant amount of utilities administrative staff time but has been considered in our overall work plan.

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

It is anticipated that the Water & Wastewater System Acquisition Policy (600-03-04) will need to be updated or replaced.

3.3 Environmental Considerations

N/A.

3.4 Social Considerations:

The vast majority of Regional District services are created at the request of the public and require majority public approval for service establishment. It might not be considered fair that the Regional District has taken on water service delivery in the past for some people in our region who wanted it but currently we are not taking on any additional water services for other who might want that service delivery.

Staff field requests and questions from non-Regional District owned water systems interested in exploring the feasibility of converting to a Regional District service. Primarily, the inquiring systems face similar challenges and issues: limited and failing internal governance structures, lack of Interior Health regulatory and water quality issues understanding, lack of volunteers and volunteer burn-out, limited access to or inability to afford system

operators, inadequate and un-sustainable cost recovery mechanisms in place (utility fee and contribution to reserves for asset renewal), inability to address and implement water conservation measures, limited or no access to senior government grant funding programs, and insufficient resources to address the administrative functions of operating a water system (i.e. securing water licenses, insurances for equipment & buildings, liability insurance, utilities bill payment, and reporting on water quality & testing results). Prior to lifting the moratorium, the aforementioned issues must be considered and contemplated in tandem with the needs of the existing 18 Regional District owned and operated systems (19 services). Without adequate capacity and internal resources, acquisition of water and wastewater systems will not be tenable.

3.5 Economic Considerations:

The economic viability of some communities could be linked to the continued availability of potable water.

3.6 Communication Considerations:

Any future decision of the Board regarding the status of the moratorium will be communicated to those systems who previously submitted an informal Expression of Interest to the Regional District and if required, to the broader water and wastewater system community as well.

3.7 Staffing/Departmental Workplace Considerations:

Pending update of the framework under which the moratorium may be lifted, staff will be required to both guide and complete the 18-24 month conversion process of any applicant system. This, coupled with existing departmental workload will necessitate the prioritization of and limit on the number of incoming systems each year. Staff recommend to limit the acquisition to one system per year, but given there are various stages of assessment, public consultation and legal asset transfer, it is plausible that staff would deal with up to three systems at a time.

3.8 Board Strategic Plan/Priorities Considerations:

Water and wastewater system governance and potential system conversion is directly aligned with the following Regional District Strategic Priorities: “To excel in Governance and Service Delivery” and “To Strengthen our Relationships with our Community Partners”.

SECTION 4: OPTIONS & PROS / CONS

None.

SECTION 5: RECOMMENDATIONS

None. Report is for information only.

Respectfully submitted,

Jason McDiarmid, Utility Services Manager

CONCURRENCE

General Manager of Environmental Services – Uli Wolf

ATTACHMENTS: None



Committee Report

Date of Report: 09, 18, 2023
Date & Type of Meeting: 10, 04, 2023, Water Services Committee
Author: Eileen Senyk, Water Services Liaison
Subject: WATER SMART AMBASSADOR PROGRAM
File: 11-5780-20-2023 Water Smart
Electoral Area/Municipality All

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to seek direction from the Water Services Committee regarding future direction for a Water Smart Ambassador program.

SECTION 2: BACKGROUND/ANALYSIS

Between the years 2011 to 2016, the Columbia Basin Trust (CBT) provided funding to the Regional District of Central Kootenay (RDCK) to implement a water conservation program. Funding was provided through the CBT's Water Smart Initiative. The CBT provided many resources to local governments, one of which was a public outreach program called the Central Water Smart Ambassador Program (CWSAP). The CBT developed this program to address high seasonal outdoor domestic water use in the Columbia Basin. The goal was to reduce water consumption in the Columbia Basin by 20%. The Columbia Basin CWSAP formally ended in 2015, however; since that time the CWSA program has continued at the RDCK with partial continued funding support provided by CBT. The Water Smart Ambassador program ran for its 11th year in 2021. The cost of the program in latter years with grant funding was about \$7 to \$10 per participating water service area customer. Past Water Commissions have been hesitant to pass on these costs to customers and some water systems opted out on various years.

RDCK customers have been facing high cost of living and inflationary costs in the past few years. In addition, most RDCK Water systems have been subject to large rate increases in the past 10 years, and many RDCK Water customers are likely going to be subject to additional large rate increases required to address needed aging infrastructure replacement.

If the Water Smart Ambassador Program is continued, it should be mandatory for all RDCK water systems to participate. Without grant funding it is anticipated that the program would cost \$15 to \$30 annually for each water system customer, if all water systems participated. Would the program provide enough value or should staff concentrate on other programs that might provide more value such as leak detection?

Members of the public continue to express interest in receiving the support that was once available when a Water Smart Ambassador position was staffed. These include, but are not limited to, water use assessments, drought tolerant landscaping (xeriscaping), drip irrigation systems, rainwater harvesting and interior plumbing retrofits. The RDCK does not currently have a program to support these enquiries or to provide public education regarding water conservation.

The Water Smart Ambassador program was historically administrated by Utility Services and supported by a Drinking Water Conservation Plan that was adopted by the Regional Board in 2019. However, the Water Smart Ambassador program benefits all residents of the RDCK. This raises the question of equity. Without grants, water user fees would

be required to fund the program. Is it equitable to fund and administrate this program through the Water Services, when it would benefit all residents of the RDCK? In other words, is Utility Services the appropriate service to administrate and fund this program? Should the program be funded or partially funded from general rural taxation? If rural taxation is used, a new service should be created that would require public approval for establishment. Staff is recommending that a new service not be created as this would be a very costly and time-consuming process with a low chance of success.

If the Water Services Committee recommends that staff take no further action on the program, staff would continue to generally promote the Water Smart or water conservation concept but specifically a Water Smart Ambassador position would not be staffed at this time.



Figure 1 & 2 : Examples of a Water Smart Public Outreach – Water Smart Ambassador Program, 2019

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan: Yes No Financial Plan Amendment: Yes No
 Debt Bylaw Required: Yes No Public/Gov't Approvals Required: Yes No

If a Water Smart Ambassador program is to re-commence, a source of funding must be identified. Potential sources of funding are user fees for RDCK owned water system customers, grants (if available) or a taxation service.

The cost of the program in latter years with grant funding was about \$7 to \$10 per participating water service area customer. Past Water Commissions have been hesitant to pass on these costs to customers and some water systems opted out on various years.

Without grant funding it is anticipated that the program would cost \$15 to \$30 annually for each water system customer, if all water systems participated.

Establishment of a new service in order to provide funding through rural taxation would be very time consuming and costly, and likely would not be successful due the requirements for ministerial and public approval. There are no current grant streams available to pay for the program since the CBT discontinued their Water Smart Initiative program.

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

A new taxation service can only be established by a referendum or an alternate approval process. User fees paid for by RDCK water system customers must be approved as part of the RDCK Financial Plan. It is unknown if a similar program exists as a standalone service elsewhere in the Province.

3.3 Environmental Considerations

Re-establishing the Water Smart Ambassador program is one of the actions included in the RDCK's draft Climate Action Plan. This action is part of the Water Supply pathway to climate resilience, and a step toward protecting water sources, biodiversity and aquatic habitats.

3.4 Social Considerations:

Local and Provincial governments implement water conservation measures in times of drought. Providing a service to educate members of the public regarding water conservation is a more favorable way to gain public support than punitive measures such as fines. However, given that the program was in effect for ten years, the opportunity for public education may have run its course, and enforcement is potentially a more effective tool at this point.

3.5 Economic Considerations:

Reduced water use saves wear and tear on water treatment infrastructure, which in turn decreases the cost of treating water. This is an effective way to increase the life of water system infrastructure, thereby reducing costs borne by both the customer and the RDCK.

3.6 Communication Considerations:

Engagement regarding the future of this program can happen at different levels. Here are two communication options to consider:

Option 1: Engage Community Advisory Committees (CAC) and Commissions

This would involve conducting meetings with each CAC and commission. The CACs and commissions could provide feedback to staff regarding water use practices in their communities and whether there is a need for a Water Smart Ambassador to support reduced water use.

Options 2: Engage the broader public

The RDCK has been using a platform called Engage RDCK (engage.rdck.ca) to provide information and invite questions and feedback from the public on different projects. It has been a valuable tool for other projects as it supports public communication and government transparency. Engage RDCK could be used to circulate a survey and provide a method of answering questions that people might have regarding water conservation, if the Water Smart program is continued.

3.7 Staffing/Departmental Workplace Considerations:

Both options listed in Section 3.6 will require staff time. Option 1 (engaging CACs and commissions) will require approximately 75 hours of staff time to coordinate and conduct meetings with each group. Option 2 can vary widely depending on the level of public interest. There are currently five project pages on Engage RDCK. Staff time to manage and moderate these sites has varied from approximately 15 hours in cases where public interest is low, but up to hundreds of hours for projects perceived as contentious.

3.8 Board Strategic Plan/Priorities Considerations:

A Water Smart program is a small step toward supporting the Board priority to protect water sources. It also supports the Drinking Water Conservation Plan adopted by the Board in May, 2019.

SECTION 4: OPTIONS & PROS / CONS

OPTION 1: That the Water Services Committee direct to staff to take no further action regarding a Water Smart Ambassador program at this time.

PROS:

- There would be no need to further investigate how to fund this service.
- Staff time could be used for other projects that may benefit water system customers more directly, such as leak detection or seeking grant opportunities for infrastructure upgrades.

CONS:

- Community Advisory Committees and Commissions and/or the public would not have the opportunity to provide input regarding the need for a Water Smart Ambassador program.

OPTION 2: That the Water Services Committee members consult their Community Advisory Committees and Commissions to determine if there is a need to renew the Water Smart Ambassador.

PROS:

- CAC and commission members will have the best understanding of their community's water use habits and needs as well as an understanding of what community members would be willing to pay for the service.
- If it is determined that there is no longer a need for a Water Smart Ambassador, or that water system customers are not willing to pay for the service, the WSC can provide direction to staff to take no further action.

CONS:

- If some CACs and commissions are supportive of a Water Smart Ambassador program, and others are not, it may be difficult to determine next steps.
- If there is a need for the program, the next step will be determining how to fund it, which could be controversial.

SECTION 5: RECOMMENDATIONS

That the Water Services Committee direct to staff to take no further action regarding a Water Smart Ambassador program at this time.

Respectfully submitted,



Eileen Senyk, Water Services Liaison

CONCURRENCE

Jason McDiarmid – Utility Services Manager
Uli Wolf – General Manager Environmental Services

Regional District of Central Kootenay

Unaudited Service Statement

S165 Drainage-Area A

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41010	Requisitions	15,464	15,464	15,464	0	100%
45000	Transfer from Reserves	0	0	51,000	51,000	0%
49100	Prior Year Surplus	0	2,788	2,787	(1)	100%
Revenue		15,464	18,252	69,251	50,999	26%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	0	435	2,172	1,737	20%
51020	Overtime	0	0	104	104	0%
51030	Benefits	0	63	565	502	11%
53050	Insurance	0	57	100	43	57%
54030	Contracted Services	0	0	5,000	5,000	0%
54040	Consulting Fees	0	5,849	15,000	9,152	39%
55010	Repairs & Maintenance	0	0	2,000	2,000	0%
Operating Expenses		0	6,403	24,941	18,538	26%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	0	36,000	36,000	0%
Capital Expenses		0	0	36,000	36,000	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	760	760	0	100%
59500	Transfer to Other Service	0	940	1,577	637	60%
59510	Transfer to Other Service - General Admin. Fee	300	300	300	0	100%
59550	Transfer to Other Service - Environmental Services Fee	5,673	5,673	5,673	0	100%
Non-Operating Expenses		5,973	7,673	8,310	637	92%

Total Service		9,491	4,175	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S241 Water Utility-Area A (Riondel)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	54,991	54,991	54,991	0	100%
42025	Sale of Services - Specified	0	200	0	(200)	0%
42030	User Fees	(451)	189,407	190,609	1,202	99%
43020	Grants	0	17,191	17,191	(0)	100%
45000	Transfer from Reserves	0	0	160,000	160,000	0%
49100	Prior Year Surplus	0	(5,243)	(5,300)	(57)	99%
Revenue		54,540	256,546	417,491	160,945	61%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	1,485	21,188	36,671	15,483	58%
51020	Overtime	252	1,214	2,118	904	57%
51030	Benefits	277	3,648	9,464	5,816	39%
51050	Employee Health & Safety	516	854	0	(854)	0%
51500	Directors - Allowance & Stipend	101	505	401	(104)	126%
51565	Directors - Mileage	47	187	79	(108)	237%
52010	Travel	0	0	289	289	0%
52020	Education & Training	0	10	212	202	5%
52030	Memberships, Dues & Subscriptions	0	300	312	12	96%
53030	Communication	86	691	1,115	424	62%
53050	Insurance	0	2,354	4,782	2,428	49%
53080	Licence & Permits	244	414	1,147	733	36%
54030	Contracted Services	286	2,437	9,353	6,916	26%
55010	Repairs & Maintenance	0	11,095	5,610	(5,485)	198%
55020	Operating Supplies	114	1,952	4,758	2,806	41%
55025	Chemicals	1,528	9,601	9,225	(376)	104%
55030	Equipment	0	0	0	0	0%
55040	Utilities	1,258	4,932	6,749	1,817	73%
55050	Vehicles	128	862	1,553	691	55%
Operating Expenses		6,323	62,245	93,838	31,593	66%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	0	160,000	160,000	0%
Capital Expenses		0	0	160,000	160,000	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
56010	Debenture Interest	0	1,032	3,675	2,643	28%
56020	Debenture Principal	0	0	6,699	6,699	0%
59000	Contribution to Reserve	0	87,895	87,895	(0)	100%
59500	Transfer to Other Service	0	1,710	12,236	10,526	14%
59510	Transfer to Other Service - General Admin. Fee	13,183	13,183	13,183	0	100%
59520	Transfer to Other Service - IT Fee	5,516	5,516	5,516	0	100%
59550	Transfer to Other Service - Environmental Services Fee	34,449	34,449	34,449	0	100%
Non-Operating Expenses		53,148	143,785	163,653	19,868	88%

Total Service		(4,930)	50,515	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S242 Water Utility-Area A (Sanca Park)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	15,840	15,840	15,840	0	100%
42030	User Fees	0	20,783	20,635	(148)	101%
45000	Transfer from Reserves	0	0	40,000	40,000	0%
49100	Prior Year Surplus	0	1,451	1,450	(1)	100%
Revenue		15,840	38,074	77,925	39,851	49%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	110	1,475	2,063	588	71%
51020	Overtime	0	0	226	226	0%
51030	Benefits	12	157	536	379	29%
51500	Directors - Allowance & Stipend	101	303	403	100	75%
51565	Directors - Mileage	47	187	0	(187)	0%
52010	Travel	0	0	79	79	0%
53020	Admin, Office Supplies & Postage	500	500	500	0	100%
53050	Insurance	0	125	256	131	49%
53080	Licence & Permits	45	215	337	122	64%
54010	Legal	0	0	2,000	2,000	0%
54030	Contracted Services	0	114	454	340	25%
55010	Repairs & Maintenance	0	57	563	506	10%
55020	Operating Supplies	0	0	34	34	0%
55050	Vehicles	0	45	0	(45)	0%
Operating Expenses		815	3,179	7,451	4,272	43%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	0	38,000	38,000	0%
Capital Expenses		0	0	38,000	38,000	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	21,891	21,891	0	100%
59500	Transfer to Other Service	0	0	3,904	3,904	0%
59510	Transfer to Other Service - General Admin. Fee	1,982	1,982	1,982	0	100%
59550	Transfer to Other Service - Environmental Services Fee	4,697	4,697	4,697	0	100%
Non-Operating Expenses		6,679	28,570	32,474	3,904	88%

Total Service		8,346	6,325	(0)		
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Regional District of Central Kootenay
 Unaudited Service Statement

S243 Water Utility-Area B (Lister)
 Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
42025	Sale of Services - Specified	0	10,259	0	(10,259)	0%
42030	User Fees	0	213,639	219,802	6,163	97%
43020	Grants	0	33,892	33,892	(0)	100%
45000	Transfer from Reserves	0	0	251,000	251,000	0%
45500	Transfer from Other Service	0	0	1,067	1,067	0%
49100	Prior Year Surplus	0	12,185	12,835	650	95%
Revenue		0	269,975	518,596	248,621	52%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	852	9,618	21,489	11,871	45%
51020	Overtime	0	54	226	172	24%
51030	Benefits	179	2,111	5,587	3,476	38%
51050	Employee Health & Safety	0	0	312	312	0%
51500	Directors - Allowance & Stipend	202	707	904	197	78%
53020	Admin, Office Supplies & Postage	0	0	67	67	0%
53030	Communication	42	232	541	309	43%
53050	Insurance	0	1,090	1,571	481	69%
53080	Licence & Permits	449	624	1,251	627	50%
54030	Contracted Services	190	5,850	5,824	(25)	100%
55010	Repairs & Maintenance	631	6,103	2,251	(3,852)	271%
55020	Operating Supplies	0	868	563	(305)	154%
55025	Chemicals	574	1,602	5,200	3,598	31%
55030	Equipment	0	89	225	136	40%
55040	Utilities	1,149	2,684	4,920	2,236	55%
55050	Vehicles	16	337	991	654	34%
Operating Expenses		4,284	31,968	51,922	19,954	62%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	0	250,000	250,000	0%
Capital Expenses		0	0	250,000	250,000	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	83,261	83,261	(0)	100%
59500	Transfer to Other Service	0	3,520	22,770	19,250	15%
59510	Transfer to Other Service - General Admin. Fee	10,076	10,076	10,076	0	100%
59520	Transfer to Other Service - IT Fee	5,516	5,516	5,516	0	100%
59550	Transfer to Other Service - Environmental Services Fee	95,051	95,051	95,051	0	100%
Non-Operating Expenses		110,643	197,424	216,674	19,250	91%

Total Service		(114,927)	40,583	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S244 Water Utility-Area G (Ymir)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	44,000	44,000	44,000	0	100%
42030	User Fees	140	74,557	73,148	(1,409)	102%
43030	Community Works Grants (Internal)	0	2,600	60,000	57,400	4%
43505	External Contributions & Contracts - Specified	0	6,120	6,120	0	100%
45000	Transfer from Reserves	0	0	32,000	32,000	0%
49100	Prior Year Surplus	0	(5,153)	(5,253)	(100)	98%
Revenue		44,140	122,124	210,015	87,891	58%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	685	11,784	16,379	4,595	72%
51020	Overtime	0	65	762	697	9%
51030	Benefits	117	2,085	4,259	2,174	49%
51050	Employee Health & Safety	0	0	567	567	0%
51500	Directors - Allowance & Stipend	202	808	1,004	196	80%
51565	Directors - Mileage	0	42	0	(42)	0%
52010	Travel	0	0	142	142	0%
52030	Memberships, Dues & Subscriptions	0	250	416	166	60%
53020	Admin, Office Supplies & Postage	0	0	69	69	0%
53030	Communication	70	686	1,061	375	65%
53050	Insurance	0	994	1,543	549	64%
53080	Licence & Permits	57	302	644	342	47%
54030	Contracted Services	384	3,459	7,095	3,636	49%
55010	Repairs & Maintenance	(7,944)	1,179	9,917	8,738	12%
55020	Operating Supplies	16	2,566	10,832	8,266	24%
55025	Chemicals	0	1,835	2,467	632	74%
55030	Equipment	0	0	134	134	0%
55040	Utilities	0	2,898	7,178	4,280	40%
55060	Rentals	0	0	73	73	0%
Operating Expenses		(6,414)	28,952	64,542	35,590	45%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	15,766	36,990	92,000	55,010	40%
Capital Expenses		15,766	36,990	92,000	55,010	40%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	6,049	6,049	0	100%
59500	Transfer to Other Service	0	0	11,605	11,605	0%
59510	Transfer to Other Service - General Admin. Fee	7,192	7,192	7,192	0	100%
59520	Transfer to Other Service - IT Fee	5,516	5,516	5,516	0	100%
59550	Transfer to Other Service - Environmental Services Fee	23,111	23,111	23,111	0	100%
Non-Operating Expenses		35,819	41,868	53,473	11,605	78%

Total Service		(1,031)	14,314	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S245 Water Utility-Area H (South Slocan)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	13,884	13,884	13,884	0	100%
42030	User Fees	0	106,697	105,906	(791)	101%
45000	Transfer from Reserves	0	0	5,841	5,841	0%
49100	Prior Year Surplus	0	6,215	5,226	(989)	119%
Revenue		13,884	126,796	130,857	4,061	97%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	318	10,117	16,395	6,278	62%
51020	Overtime	0	674	997	323	68%
51030	Benefits	52	1,811	4,263	2,452	42%
51050	Employee Health & Safety	0	0	89	89	0%
51500	Directors - Allowance & Stipend	0	303	504	201	60%
51565	Directors - Mileage	0	20	0	(20)	0%
52030	Memberships, Dues & Subscriptions	0	50	100	50	50%
53020	Admin, Office Supplies & Postage	0	16	31	15	51%
53030	Communication	80	706	1,075	369	66%
53050	Insurance	0	1,349	2,422	1,073	56%
53080	Licence & Permits	56	206	546	340	38%
54030	Contracted Services	0	1,358	4,501	3,143	30%
55010	Repairs & Maintenance	842	5,131	7,526	2,395	68%
55020	Operating Supplies	0	2,731	8,741	6,010	31%
55025	Chemicals	0	882	979	97	90%
55030	Equipment	0	10	0	(10)	0%
55040	Utilities	226	1,264	1,966	702	64%
Operating Expenses		1,574	26,626	50,135	23,509	53%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
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NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
56010	Debenture Interest	0	788	2,999	2,211	26%
56020	Debenture Principal	0	0	5,712	5,712	0%
59000	Contribution to Reserve	0	25,154	25,154	0	100%
59500	Transfer to Other Service	0	0	10,838	10,838	0%
59510	Transfer to Other Service - General Admin. Fee	5,214	5,214	5,214	0	100%
59520	Transfer to Other Service - IT Fee	5,516	5,516	5,516	0	100%
59550	Transfer to Other Service - Environmental Services Fee	25,289	25,289	25,289	0	100%
Non-Operating Expenses		36,019	61,961	80,722	18,761	77%

Total Service		(23,709)	38,209	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S246 Water Utility-Area D (Macdonald Creek)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41010	Requisitions	6,242	6,242	6,242	0	100%
41015	Parcel Taxes	25,023	25,023	25,023	0	100%
45000	Transfer from Reserves	0	0	62,000	62,000	0%
49100	Prior Year Surplus	0	(481)	(481)	0	100%
Revenue		31,265	30,784	92,784	62,000	33%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	0	34	500	466	7%
51030	Benefits	0	39	24	(15)	161%
51500	Directors - Allowance & Stipend	101	505	401	(104)	126%
51565	Directors - Mileage	0	71	133	62	54%
53050	Insurance	0	88	103	15	85%
54030	Contracted Services	0	0	42,000	42,000	0%
Operating Expenses		101	737	43,161	42,424	2%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	0	20,000	20,000	0%
Capital Expenses		0	0	20,000	20,000	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
56010	Debenture Interest	0	659	2,493	1,834	26%
56020	Debenture Principal	0	8,457	8,457	(0)	100%
59000	Contribution to Reserve	0	14,338	14,338	0	100%
59500	Transfer to Other Service	0	0	1,476	1,476	0%
59510	Transfer to Other Service - General Admin. Fee	125	125	125	0	100%
59550	Transfer to Other Service - Environmental Services Fee	2,734	2,734	2,734	0	100%
Non-Operating Expenses		2,859	26,313	29,623	3,310	89%

Total Service		28,305	3,733	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S247 Water Utility-Area J (Lucas Road)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	4,200	4,200	4,200	0	100%
42030	User Fees	0	4,455	10,035	5,580	44%
49100	Prior Year Surplus	0	3,086	2,508	(578)	123%
Revenue		4,200	11,741	16,743	5,002	70%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	40	892	1,253	361	71%
51030	Benefits	11	169	326	157	52%
51500	Directors - Allowance & Stipend	101	303	401	98	76%
51565	Directors - Mileage	28	56	0	(56)	0%
53050	Insurance	0	98	114	16	86%
54030	Contracted Services	0	0	541	541	0%
55010	Repairs & Maintenance	0	19	809	790	2%
55020	Operating Supplies	0	7	0	(7)	0%
55040	Utilities	0	1,058	2,606	1,548	41%
Operating Expenses		180	2,602	6,050	3,448	43%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
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NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	5,509	5,509	0	100%
59500	Transfer to Other Service	0	0	2,182	2,182	0%
59510	Transfer to Other Service - General Admin. Fee	817	817	817	0	100%
59550	Transfer to Other Service - Environmental Services Fee	2,185	2,185	2,185	0	100%
Non-Operating Expenses		3,002	8,511	10,693	2,182	80%

Total Service		1,018	627	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S248 Water Utility-Area F (Duhamel Creek)

Period: **August 2023**

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	22,080	22,080	22,080	0	100%
42030	User Fees	0	80,595	81,309	714	99%
43020	Grants	0	84,624	84,624	0	100%
43030	Community Works Grants (Internal)	0	0	150,000	150,000	0%
45000	Transfer from Reserves	0	0	280,000	280,000	0%
49100	Prior Year Surplus	0	10,090	10,089	(1)	100%
Revenue		22,080	197,389	628,102	430,713	31%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	405	6,618	11,686	5,068	57%
51020	Overtime	0	204	1,303	1,099	16%
51030	Benefits	49	1,153	3,298	2,145	35%
51500	Directors - Allowance & Stipend	101	303	502	199	60%
51565	Directors - Mileage	9	18	0	(18)	0%
53030	Communication	32	189	416	227	46%
53050	Insurance	0	993	1,682	689	59%
53080	Licence & Permits	197	347	832	485	42%
54030	Contracted Services	399	1,870	3,444	1,574	54%
55010	Repairs & Maintenance	0	0	4,002	4,002	0%
55020	Operating Supplies	0	0	92	92	0%
55030	Equipment	0	31	0	(31)	0%
55040	Utilities	0	2,253	4,546	2,293	50%
55060	Rentals	0	0	159	159	0%
Operating Expenses		1,192	13,980	31,962	17,982	44%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	20,115	128,841	430,000	301,159	30%
Capital Expenses		20,115	128,841	430,000	301,159	30%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	135,036	135,036	0	100%
59500	Transfer to Other Service	0	4,730	8,869	4,139	53%
59510	Transfer to Other Service - General Admin. Fee	5,455	5,455	5,455	0	100%
59550	Transfer to Other Service - Environmental Services Fee	16,780	16,780	16,780	0	100%
Non-Operating Expenses		22,235	162,001	166,140	4,139	98%

Total Service		(21,462)	(107,433)	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S250 Water Utility-Area B (Erickson)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
42025	Sale of Services - Specified	0	9,976	0	(9,976)	0%
42030	User Fees	232	1,540,763	1,527,967	(12,796)	101%
43020	Grants	0	90,811	90,811	0	100%
43030	Community Works Grants (Internal)	0	0	600,000	600,000	0%
45000	Transfer from Reserves	0	0	265,000	265,000	0%
45500	Transfer from Other Service	0	0	14,284	14,284	0%
49100	Prior Year Surplus	0	91,629	96,286	4,657	95%
Revenue		232	1,733,179	2,594,348	861,169	67%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	1,453	24,450	86,518	62,068	28%
51020	Overtime	0	1,172	1,661	489	71%
51030	Benefits	302	5,554	22,495	16,941	25%
51050	Employee Health & Safety	0	0	563	563	0%
51500	Directors - Allowance & Stipend	202	707	803	96	88%
51560	Directors - Travel	0	0	159	159	0%
52030	Memberships, Dues & Subscriptions	0	200	208	8	96%
53020	Admin, Office Supplies & Postage	0	0	683	683	0%
53040	Advertising	628	628	0	(628)	0%
53050	Insurance	0	4,858	4,680	(178)	104%
53080	Licence & Permits	1,708	2,458	3,244	786	76%
54010	Legal	0	0	10,000	10,000	0%
54030	Contracted Services	1,904	17,609	33,758	16,149	52%
55010	Repairs & Maintenance	5,012	26,944	45,012	18,068	60%
55020	Operating Supplies	0	2,254	3,376	1,122	67%
55025	Chemicals	0	0	2,858	2,858	0%
55030	Equipment	0	277	5,200	4,923	5%
55040	Utilities	243	1,609	1,736	127	93%
55050	Vehicles	48	948	2,878	1,930	33%
55060	Rentals	0	0	441	441	0%
Operating Expenses		11,500	89,669	226,273	136,604	40%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	96	5,356	850,000	844,644	1%
Capital Expenses		96	5,356	850,000	844,644	1%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
56110	Short-Term Financing Interest	1,200	8,887	10,038	1,151	89%
56120	Short-Term Financing Principal	0	0	76,129	76,129	0%
59000	Contribution to Reserve	0	860,040	560,040	(300,000)	154%
59500	Transfer to Other Service	0	2,200	677,316	675,116	0%
59510	Transfer to Other Service - General Admin. Fee	36,998	36,998	36,998	0	100%
59550	Transfer to Other Service - Environmental Services Fee	157,554	157,554	157,554	0	100%
Non-Operating Expenses		195,752	1,065,679	1,518,075	452,396	70%

Total Service		(207,115)	572,474	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S251 Water Utility-Area B (Arrow Creek)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
42030	User Fees	0	0	769,996	769,996	0%
42035	User Fees - Specified	0	0	0	0	0%
45000	Transfer from Reserves	0	0	610,000	610,000	0%
45500	Transfer from Other Service	0	0	625,124	625,124	0%
49100	Prior Year Surplus	0	(36,295)	(25,494)	10,801	142%
Revenue		0	(36,295)	1,979,626	2,015,921	-2%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	6,978	65,775	125,280	59,505	53%
51020	Overtime	0	3,099	4,028	929	77%
51030	Benefits	2,732	24,665	41,342	16,677	60%
51050	Employee Health & Safety	0	0	416	416	0%
51500	Directors - Allowance & Stipend	202	1,212	1,693	481	72%
51560	Directors - Travel	0	0	28	28	0%
51565	Directors - Mileage	0	842	0	(842)	0%
52010	Travel	0	0	43	43	0%
52030	Memberships, Dues & Subscriptions	0	200	208	8	96%
53020	Admin, Office Supplies & Postage	0	0	73	73	0%
53030	Communication	191	1,657	2,850	1,193	58%
53050	Insurance	0	14,794	37,440	22,646	40%
53080	Licence & Permits	0	20	441	421	5%
54010	Legal	0	0	7,000	7,000	0%
54030	Contracted Services	7,423	19,254	28,828	9,574	67%
54040	Consulting Fees	1,500	1,500	0	(1,500)	0%
55010	Repairs & Maintenance	400	17,335	26,477	9,142	65%
55020	Operating Supplies	4,382	12,907	10,655	(2,252)	121%
55025	Chemicals	13,978	54,003	66,660	12,657	81%
55030	Equipment	0	956	5,558	4,602	17%
55035	Radio Equipment	0	234	0	(234)	0%
55040	Utilities	5,068	58,452	111,775	53,323	52%
55050	Vehicles	16	337	312	(25)	108%
55060	Rentals	0	0	1,040	1,040	0%
Operating Expenses		42,869	277,240	472,147	194,907	59%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	(3,319)	36,401	610,000	573,599	6%
Capital Expenses		(3,319)	36,401	610,000	573,599	6%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
56010	Debenture Interest	0	22,984	82,562	59,578	28%
56020	Debenture Principal	0	20,952	83,121	62,169	25%
59000	Contribution to Reserve	0	150,000	450,000	300,000	33%
59500	Transfer to Other Service	0	0	52,865	52,865	0%
59510	Transfer to Other Service - General Admin. Fee	22,826	22,826	22,826	0	100%
59520	Transfer to Other Service - IT Fee	11,032	11,032	11,032	0	100%
59550	Transfer to Other Service - Environmental Services Fee	195,073	195,073	195,073	0	100%
Non-Operating Expenses		228,931	422,867	897,479	474,612	47%

Total Service		(268,482)	(772,804)	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S252 Water Utility-Area K (Burton)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	15,496	15,496	42,191	26,695	37%
42030	User Fees	0	80,413	76,066	(4,347)	106%
43020	Grants	0	72,715	72,715	0	100%
43100	Proceeds from Borrowing	0	0	200,000	200,000	0%
44010	Penalties & Fees	0	883	0	(883)	0%
45000	Transfer from Reserves	0	0	347,000	347,000	0%
49100	Prior Year Surplus	0	15,026	15,026	(0)	100%
Revenue		15,496	184,534	752,998	568,464	25%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	407	3,409	3,452	43	99%
51020	Overtime	0	564	111	(453)	508%
51030	Benefits	87	751	898	147	84%
51500	Directors - Allowance & Stipend	69	269	267	(2)	101%
52010	Travel	0	487	331	(156)	147%
53020	Admin, Office Supplies & Postage	0	0	56	56	0%
53030	Communication	22	296	567	271	52%
53050	Insurance	0	937	1,196	259	78%
53080	Licence & Permits	149	299	676	377	44%
54030	Contracted Services	1,354	17,064	24,840	7,776	69%
55010	Repairs & Maintenance	0	35	2,896	2,861	1%
55025	Chemicals	56	104	225	121	46%
55030	Equipment	0	0	112	112	0%
55040	Utilities	1,046	3,687	9,539	5,852	39%
Operating Expenses		3,190	27,903	45,166	17,263	62%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	47,259	544,000	496,741	9%
Capital Expenses		0	47,259	544,000	496,741	9%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	128,334	128,334	0	100%
59500	Transfer to Other Service	0	0	4,729	4,729	0%
59510	Transfer to Other Service - General Admin. Fee	4,035	4,035	4,035	0	100%
59520	Transfer to Other Service - IT Fee	1,875	1,875	1,875	0	100%
59550	Transfer to Other Service - Environmental Services Fee	24,859	24,859	24,859	0	100%
Non-Operating Expenses		30,769	159,103	163,832	4,729	97%

Total Service		(18,463)	(49,731)	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S253 Water Utility-Area K (Edgewood)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	10,811	10,811	49,069	38,258	22%
42030	User Fees	0	150,511	148,895	(1,616)	101%
43020	Grants	0	10,754	10,754	0	100%
45000	Transfer from Reserves	0	0	97,000	97,000	0%
49100	Prior Year Surplus	0	12,071	9,647	(2,424)	125%
Revenue		10,811	184,146	315,365	131,219	58%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	45	2,836	2,993	157	95%
51020	Overtime	0	597	354	(243)	169%
51030	Benefits	13	645	778	133	83%
51500	Directors - Allowance & Stipend	67	267	266	(1)	100%
52010	Travel	0	71	128	57	56%
53030	Communication	0	659	1,242	583	53%
53050	Insurance	0	1,274	1,604	330	79%
53080	Licence & Permits	249	399	1,202	803	33%
54030	Contracted Services	2,083	15,231	32,122	16,891	47%
55010	Repairs & Maintenance	0	1,042	1,655	613	63%
55020	Operating Supplies	0	0	55	55	0%
55030	Equipment	0	0	55	55	0%
55040	Utilities	29	3,679	7,381	3,702	50%
Operating Expenses		2,486	26,701	49,835	23,134	54%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	31	10,450	97,000	86,550	11%
Capital Expenses		31	10,450	97,000	86,550	11%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
56110	Short-Term Financing Interest	622	4,609	6,209	1,600	74%
56120	Short-Term Financing Principal	0	0	43,883	43,883	0%
59000	Contribution to Reserve	0	75,319	75,319	0	100%
59500	Transfer to Other Service	0	1,000	8,019	7,019	12%
59510	Transfer to Other Service - General Admin. Fee	5,875	5,875	5,875	0	100%
59520	Transfer to Other Service - IT Fee	1,820	1,820	1,820	0	100%
59550	Transfer to Other Service - Environmental Services Fee	27,405	27,405	27,405	0	100%
Non-Operating Expenses		35,722	116,028	168,530	52,502	69%

Total Service		(27,428)	30,967	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S254 Water Utility-Area K (Fauquier)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	26,955	26,955	54,987	28,032	49%
42030	User Fees	0	143,282	147,216	3,934	97%
43020	Grants	0	55,931	55,931	0	100%
45000	Transfer from Reserves	0	0	416,215	416,215	0%
49100	Prior Year Surplus	0	14,526	14,530	4	100%
Revenue		26,955	240,695	688,879	448,184	35%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	23	1,144	8,357	7,213	14%
51020	Overtime	0	0	332	332	0%
51030	Benefits	8	271	2,173	1,902	12%
51500	Directors - Allowance & Stipend	67	271	336	65	81%
52010	Travel	0	120	641	521	19%
52030	Memberships, Dues & Subscriptions	0	300	0	(300)	0%
53020	Admin, Office Supplies & Postage	0	0	165	165	0%
53030	Communication	16	195	857	662	23%
53050	Insurance	0	2,643	4,570	1,927	58%
53080	Licence & Permits	251	401	516	115	78%
54030	Contracted Services	2,604	19,248	44,587	25,339	43%
55010	Repairs & Maintenance	0	1,585	9,914	8,329	16%
55020	Operating Supplies	0	465	517	52	90%
55025	Chemicals	3,234	6,342	10,065	3,723	63%
55030	Equipment	0	29	520	491	6%
55040	Utilities	360	5,612	9,941	4,329	56%
55060	Rentals	0	234	390	156	60%
Operating Expenses		6,563	38,861	93,881	55,020	41%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	360	416,215	415,855	0%
Capital Expenses		0	360	416,215	415,855	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	107,145	107,145	0	100%
59500	Transfer to Other Service	0	3,290	11,950	8,660	28%
59510	Transfer to Other Service - General Admin. Fee	7,328	7,328	7,328	0	100%
59520	Transfer to Other Service - IT Fee	5,516	5,516	5,516	0	100%
59550	Transfer to Other Service - Environmental Services Fee	46,844	46,844	46,844	0	100%
Non-Operating Expenses		59,688	170,123	178,783	8,660	95%

Total Service		(39,296)	31,350	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S255 Water Utility-Area E (Balfour)

Period: **August 2023**

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	101,088	101,088	100,380	(708)	101%
42025	Sale of Services - Specified	0	64,070	48,000	(16,070)	133%
42030	User Fees	(87)	128,155	286,726	158,571	45%
42040	Rental Income	0	3,156	5,411	2,255	58%
43020	Grants	0	95,469	95,469	(0)	100%
43030	Community Works Grants (Internal)	0	0	150,000	150,000	0%
43100	Proceeds from Borrowing	0	0	100,000	100,000	0%
45000	Transfer from Reserves	0	0	544,400	544,400	0%
45500	Transfer from Other Service	0	641	1,447	806	44%
49100	Prior Year Surplus	0	(93,297)	(123,392)	(30,095)	76%
Revenue		101,001	299,283	1,208,441	909,158	25%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	2,398	19,900	40,137	20,237	50%
51020	Overtime	0	245	2,207	1,962	11%
51030	Benefits	311	3,163	10,436	7,273	30%
51050	Employee Health & Safety	0	0	312	312	0%
51500	Directors - Allowance & Stipend	101	404	504	100	80%
52010	Travel	0	0	55	55	0%
52030	Memberships, Dues & Subscriptions	0	400	416	16	96%
53020	Admin, Office Supplies & Postage	0	0	208	208	0%
53030	Communication	257	1,156	2,028	872	57%
53050	Insurance	0	3,425	3,746	321	91%
53080	Licence & Permits	246	416	1,134	718	37%
54030	Contracted Services	286	8,692	12,510	3,818	69%
55010	Repairs & Maintenance	37	8,553	4,501	(4,052)	190%
55020	Operating Supplies	0	3,770	8,421	4,651	45%
55025	Chemicals	674	4,600	6,790	2,190	68%
55030	Equipment	0	0	1,125	1,125	0%
55040	Utilities	3,555	12,545	19,760	7,215	63%
55060	Rentals	0	0	389	389	0%
Operating Expenses		7,865	67,269	114,679	47,410	59%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	2,999	95,419	758,940	663,522	13%
Capital Expenses		2,999	95,419	758,940	663,522	13%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
56010	Debenture Interest	0	1,345	5,308	3,963	25%
56020	Debenture Principal	0	0	18,800	18,800	0%
59000	Contribution to Reserve	0	206,330	206,330	(0)	100%
59500	Transfer to Other Service	0	6,906	32,475	25,569	21%
59510	Transfer to Other Service - General Admin. Fee	16,833	16,833	16,833	0	100%
59520	Transfer to Other Service - IT Fee	5,516	5,516	5,516	0	100%
59550	Transfer to Other Service - Environmental Services Fee	49,560	49,560	49,560	0	100%
Non-Operating Expenses		71,909	286,490	334,822	48,332	86%

Total Service		18,229	(149,895)	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S256 Water Utility-Area J (West Robson)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	2,394	2,394	11,933	9,539	20%
42030	User Fees	0	85,364	84,720	(644)	101%
43020	Grants	0	83,637	83,637	0	100%
45000	Transfer from Reserves	0	0	534,400	534,400	0%
49100	Prior Year Surplus	0	(7,146)	(7,146)	0	100%
Revenue		2,394	164,249	707,544	543,295	23%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	802	9,263	14,653	5,390	63%
51020	Overtime	272	426	454	28	94%
51030	Benefits	147	1,656	3,810	2,154	43%
51500	Directors - Allowance & Stipend	101	303	403	100	75%
51565	Directors - Mileage	28	56	0	(56)	0%
53030	Communication	127	1,146	1,655	509	69%
53050	Insurance	0	908	1,456	548	62%
53080	Licence & Permits	0	150	171	21	88%
54030	Contracted Services	0	40	4,757	4,717	1%
55010	Repairs & Maintenance	0	35,075	40,043	4,968	88%
55020	Operating Supplies	0	90	220	130	41%
55025	Chemicals	0	0	49	49	0%
55030	Equipment	94	159	0	(159)	0%
55040	Utilities	1,412	4,330	6,375	2,045	68%
Operating Expenses		2,983	53,602	74,046	20,444	72%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	250	500,000	499,750	0%
Capital Expenses		0	250	500,000	499,750	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	87,673	87,673	0	100%
59500	Transfer to Other Service	0	2,970	15,194	12,224	20%
59510	Transfer to Other Service - General Admin. Fee	6,654	6,654	6,654	0	100%
59520	Transfer to Other Service - IT Fee	1,820	1,820	1,820	0	100%
59550	Transfer to Other Service - Environmental Services Fee	22,157	22,157	22,157	0	100%
Non-Operating Expenses		30,631	121,274	133,498	12,224	91%

Total Service		(31,220)	(10,878)	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S257 Water Utility-Area F (Woodland Heights)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	6,993	6,993	6,986	(7)	100%
42030	User Fees	0	33,462	31,946	(1,516)	105%
45000	Transfer from Reserves	0	0	10,000	10,000	0%
49100	Prior Year Surplus	0	(77,098)	146	77,244	-52807%
Revenue		6,993	(36,643)	49,078	85,721	-75%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	468	3,452	7,308	3,856	47%
51020	Overtime	0	136	554	418	25%
51030	Benefits	84	607	1,900	1,293	32%
51500	Directors - Allowance & Stipend	101	303	504	201	60%
51565	Directors - Mileage	9	18	0	(18)	0%
53030	Communication	73	273	650	377	42%
53050	Insurance	0	461	618	157	75%
53080	Licence & Permits	49	199	557	358	36%
54030	Contracted Services	0	529	1,745	1,216	30%
55010	Repairs & Maintenance	12	41	649	608	6%
55020	Operating Supplies	0	147	111	(36)	133%
55025	Chemicals	0	145	495	350	29%
55040	Utilities	633	1,187	2,207	1,020	54%
Operating Expenses		1,429	7,498	17,298	9,800	43%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	7,490	10,000	2,510	75%
Capital Expenses		0	7,490	10,000	2,510	75%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	7,674	7,674	0	100%
59500	Transfer to Other Service	0	0	5,829	5,829	0%
59510	Transfer to Other Service - General Admin. Fee	2,665	2,665	2,665	0	100%
59550	Transfer to Other Service - Environmental Services Fee	5,612	5,612	5,612	0	100%
Non-Operating Expenses		8,277	15,951	21,780	5,829	73%

Total Service		(2,713)	(67,582)	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S258 Water Utility-Area E (Grandview)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	17,160	17,160	17,160	0	100%
42025	Sale of Services - Specified	0	7,500	0	(7,500)	0%
42030	User Fees	(73)	43,743	70,085	26,342	62%
45000	Transfer from Reserves	0	0	22,828	22,828	0%
49100	Prior Year Surplus	0	(15,675)	(17,612)	(1,937)	89%
Revenue		17,088	52,728	92,461	39,733	57%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	1,003	9,585	11,838	2,253	81%
51020	Overtime	0	206	602	396	34%
51030	Benefits	142	1,628	3,078	1,450	53%
51050	Employee Health & Safety	0	0	45	45	0%
51500	Directors - Allowance & Stipend	101	404	502	98	80%
52030	Memberships, Dues & Subscriptions	0	200	208	8	96%
53020	Admin, Office Supplies & Postage	0	32	4	(28)	790%
53030	Communication	80	708	1,144	436	62%
53050	Insurance	0	1,485	2,552	1,067	58%
53080	Licence & Permits	32	202	203	1	99%
54030	Contracted Services	0	3,080	3,746	667	82%
55010	Repairs & Maintenance	214	6,434	8,000	1,566	80%
55020	Operating Supplies	0	1,456	1,000	(456)	146%
55025	Chemicals	(107)	749	596	(153)	126%
55040	Utilities	1,032	3,986	5,984	1,998	67%
Operating Expenses		2,497	30,155	39,502	9,347	76%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	0	12,000	12,000	0%
Capital Expenses		0	0	12,000	12,000	0%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	941	941	0	100%
59500	Transfer to Other Service	0	536	9,994	9,458	5%
59510	Transfer to Other Service - General Admin. Fee	6,517	6,517	6,517	0	100%
59520	Transfer to Other Service - IT Fee	5,516	5,516	5,516	0	100%
59550	Transfer to Other Service - Environmental Services Fee	17,991	17,991	17,991	0	100%
Non-Operating Expenses		30,024	31,501	40,959	9,458	77%

Total Service		(15,433)	(8,928)	(0)		
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Regional District of Central Kootenay

Unaudited Service Statement

S259 Water Utility-Area D (Woodbury)

Period: August 2023

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	17,466	17,466	17,466	0	100%
42030	User Fees	(95)	38,181	37,486	(695)	102%
43020	Grants	0	49,976	49,976	0	100%
43025	Grants - Specified	0	0	284,322	284,322	0%
43030	Community Works Grants (Internal)	0	1,750	0	(1,750)	0%
45000	Transfer from Reserves	0	0	27,000	27,000	0%
49100	Prior Year Surplus	0	50,590	49,372	(1,218)	102%
Revenue		17,371	157,963	465,622	307,659	34%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	123	2,244	8,352	6,108	27%
51020	Overtime	0	0	217	217	0%
51030	Benefits	19	403	2,172	1,769	19%
51500	Directors - Allowance & Stipend	101	303	403	100	75%
51565	Directors - Mileage	0	71	133	62	54%
53020	Admin, Office Supplies & Postage	0	16	0	(16)	0%
53030	Communication	0	0	541	541	0%
53050	Insurance	0	595	1,983	1,389	30%
53080	Licence & Permits	20	190	676	486	28%
54010	Legal	0	0	14,500	14,500	0%
54030	Contracted Services	0	346	1,190	844	29%
55010	Repairs & Maintenance	0	550	1,082	532	51%
55020	Operating Supplies	0	167	1,072	905	16%
55025	Chemicals	(80)	(32)	595	627	-5%
55040	Utilities	0	877	2,380	1,503	37%
Operating Expenses		182	5,730	35,296	29,566	16%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	127,764	342,437	214,673	37%
Capital Expenses		0	127,764	342,437	214,673	37%

NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	53,938	53,938	0	100%
59500	Transfer to Other Service	0	1,870	14,901	13,031	13%
59510	Transfer to Other Service - General Admin. Fee	4,256	4,256	4,256	0	100%
59550	Transfer to Other Service - Environmental Services Fee	14,794	14,794	14,794	0	100%
Non-Operating Expenses		19,050	74,858	87,889	13,031	85%

Total Service		(1,862)	(50,389)	0		
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Regional District of Central Kootenay

Unaudited Service Statement

S260 Water Utility-Area H (Rosebery)

Period: **August 2023**

REVENUE

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	6,280	6,280	6,280	0	100%
42025	Sale of Services - Specified	0	4,037	0	(4,037)	0%
42030	User Fees	0	24,160	23,741	(419)	102%
49100	Prior Year Surplus	0	(801)	(803)	(2)	100%
Revenue		6,280	33,676	29,218	(4,458)	115%

OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	474	6,351	4,695	(1,656)	135%
51020	Overtime	0	376	111	(265)	338%
51030	Benefits	76	1,134	1,221	87	93%
51500	Directors - Allowance & Stipend	202	505	504	(1)	100%
51565	Directors - Mileage	0	20	0	(20)	0%
53030	Communication	21	171	416	245	41%
53050	Insurance	0	420	748	328	56%
53080	Licence & Permits	19	19	165	146	11%
54030	Contracted Services	1,560	1,610	976	(634)	165%
55010	Repairs & Maintenance	184	2,318	1,166	(1,152)	199%
55020	Operating Supplies	0	147	90	(57)	163%
55025	Chemicals	21	166	199	33	83%
55040	Utilities	582	867	1,776	909	49%
Operating Expenses		3,140	14,103	12,067	(2,036)	117%

CAPITAL EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
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NON-OPERATING EXPENSES

Account	Workorder	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	2,082	2,082	0	100%
59500	Transfer to Other Service	0	0	8,110	8,110	0%
59510	Transfer to Other Service - General Admin. Fee	2,006	2,006	2,006	0	100%
59550	Transfer to Other Service - Environmental Services Fee	4,953	4,953	4,953	0	100%
Non-Operating Expenses		6,959	9,041	17,151	8,110	53%

Total Service		(3,819)	10,532	(0)		
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Committee Report

Date of Report: September 28, 2023
Date & Type of Meeting: October 4, 2023, Water Services Committee
Author: Alexandra Divlakovski, Water Operations Manager
Subject: OPERATIONS MAINTENANCE AND CAPITAL UPDATE
File: 11-5700-01-2023
Electoral Area/Municipality: All Areas

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to provide an update to the Committee and highlight the larger maintenance and capital projects completed to date in 2023.

SECTION 2: BACKGROUND/ANALYSIS

This report does not necessarily include annual preventative maintenance. Examples of preventative maintenance include; equipment oil changes, distribution system flushing, distribution valve exercising, daily/weekly system checks, hydrant inspections, vegetation care and fleet management.

WATER EAST

Arrow Creek

Operations and Maintenance

- Membrane Filter Trains 2 and 3 are currently passing MITs, we have replaced many leaking/broken piping tubes and O rings connecting the 3 stacks of membrane modules on the back of Train 3 Cassette frames. Fiber repairs for Train 1 have started, now that flow demand is much lower we will be turning off Trains (unless needed because of demand) that are not passing MITs until repaired and passing.
- Will be performing Recovery Cleans of the membranes, also Intake Pond and Johnson Screen Cleaning in October.

Capital

- Intake Erosion Protection:
 - Repair area of erosion in the concrete in a corner of the intake diversion will be completed in 2024.
- UV Reactor Replacement:
 - Interior Health Construction Permit has been issued and preliminary site visit for measurements to install new UV units has been completed.
 - UV reactors and controls are currently being constructed.

Ongoing Considerations

The Arrow Creek water treatment plant has historically reached maximum emergency rated capacity in high demand months (July-August).

Erickson

Operations and Maintenance

- Small project servicing the bottom 4 residential properties of Goat Canyon Road (end of Moore Rd). Removal of small trees and bushes along ROW and 300 ft of new 50mm Municipal PE pipe (trace wire as well) installed replacing existing brittle 50mm PVC piping (new pipe was disinfected, bacteriological samples taken and pressure tested before being connected to distribution system), also old wooden valve pit was eliminated, new 2" PRV/pit installed and 4 services upgraded with new ¾" main & curb stops and service valve stands to bring valve access to ground surface. A new standpipe was also installed for flushing and testing.
- Re-servicing of 2 neighboring properties on Erickson Rd. that have completed a boundary adjustment to allow one property to now own all the agricultural land and the other to be strictly residential. A new ¾" service was tapped into the main to service the strictly residential property but is still unconnected. Both properties need to update their piping connections inside the properties so that the 2 can be permanently separated and 2 old service connections for the strictly residential can be abandoned when they connect to the new ¾" service.
- There are several agricultural service connections that need new meters/pits due to dead batteries on old meters and re-servicing due to boundary adjustments and new infrastructures (Irrigation, commercial, etc) on the property.
- Kalen Luck started as the new permanent full time Water East Operator In June of this year and has been a welcomed addition to the team.
- A leak repair on old steel water main on Lamont Road.
- Service valve updates from gate valves to curb stops.

Capital

- Locating and marking all service valves for properties 5 acres or more (Industrial, Commercial, Institutional and Agricultural) for Phase 1 of the metering program. This will confirm the number and size of meters required for the procurement portion of the project, and is ongoing.
- Design for replacing line PN95 along Erickson Road has been awarded. Construction to be completed in 2024.

Ongoing Considerations

Asbestos cement and steel pipe sections of distribution system require replacement and/or relocation off private land.

Lister

Operations and Maintenance

- 4 mainline repairs in the summer and a new road crossing on Lister Road to replace service line broken under pavement.
- Well Pump amperage increased to the point that the pump faulted several times when trying to turn on. An emergency pulling and inspection of the pump and well remediation (super chlorination, casing and well screen jetting/flushing) was performed by Wild West Drilling. In the process it was found that 2 of the 5 capacitors in the pump controller needed to be replaced, that was done and when the pump was put back into service the amperage went back down to a normal level at a throttled flow rate.
- Further investigation on well condition is ongoing.

Capital

- Procurement of standby power generator in progress.

- Design for replacing line PN13 along Crestview Road is out for tender. Construction to be completed over 2024.

Ongoing Considerations

No irrigation privileges beyond 1 acre of domestic irrigation is allowed in Lister due to the existing high water demand of the system as compared to what the groundwater well can produce.

Riondel

Operations and Maintenance

- Semi-annual Clean In Place (CIP) was done on the membranes.
- The main WTP chlorine dosing pump was not pumping and getting air locked, a new diaphragm and repair kit was put in.
- WTP would not run in auto only in hand (manual), after some troubleshooting had to change out the level switch in the break tank, the cause of the issue.
- Issues with the main chlorine dosing pump again had to switch out with the maintenance clean chlorine dosing pump and now looking at repairing the pump, if unable will have to purchase a new dosing pump.
- Indian Creek intake/dam cleaning

Capital

- Procurement of standby power generator in progress.
- Reservoir valve chamber and meter design to be completed in 2023.

Ongoing Considerations

High water demand in the summer months has resulted in issuing conservation measures. The golf course is a large water consumer, and the system would benefit from the golf course securing a separate water source.

Sanca

Operations and Maintenance

- Replaced a broken curb stop valve at residence on Sanca Park Road.

Capital

- Renewed correspondence between the Regional District and Sanca Creek Beach Resort Cooperative Association regarding potentially disconnecting and/or relocating two northern properties currently serviced by the system.

Ongoing Considerations

This system remains on a long term Boil Water Notice. Proposed borrowing for a water treatment plant was presented to the community in 2016, however, it was not approved.

WATER WEST

Balfour

Operations and Maintenance

- Leak detection on Upper Balfour Road
- Replace power source for turbidity analyser

Capital

- Balfour Wharf Road water main replacement completed

Ongoing Considerations

Metering has reduced consumption and identified customer leakage that was repaired, leading to an overall conservation of approximately 25% from 2019 - 2021. There remains, however, significant system leakage that requires location and repair work.

Burton

Operations and Maintenance

- Generator service completed

Capital

- No capital projects work completed in the reporting period

Ongoing Considerations

The system is on a long term Water Quality Advisory due to historical water quality concerns. The groundwater source may be considered Groundwater at Risk of Containing Pathogens (GARP) virus only as it is within the 300m setback from a source of probable viral contamination. GARP virus only wells are identified as requiring 4-log reduction of viruses (disinfection) and zero total and fecal coliforms per Provincial treatment guidelines.

Duhamel

Operations and Maintenance

- Leak repair on Lower Six Mile Road

Capital

- Installation of water main casings across Highways 3A (awarded) and across Tees and Barnes Road completed. Construction/installation of new water main to be completed in summer 2024.

Ongoing Considerations

A significant portion of the distribution system is located on private land. Asbestos cement pipe within the distribution system requires replacement.

Edgewood

Operations and Maintenance

- Backflow prevention device testing

Capital

- Fencing around well heads as part of the Source Water Protection Plan completed.
- Procurement of standby power generator in progress.
- Disconnection of old wells from distribution system.

Ongoing Considerations

Old well abandonment or usage conversion to fire protection completed.

Fauquier

Operations and Maintenance

- Intake dredged.

Capital

- Awarded contract for completing water main replacement, to begin in late September.

Ongoing Considerations

Asbestos cement pipe within the distribution system requires replacement. UV disinfection was required by Interior Health at the time of treatment plant construction but at a later date. Piloting required to assess potential UV transmittance improvement before a UV system can be chosen.

Grandview

Operations and Maintenance

- New upper pressure zone for development tied into distribution system.

Capital

- New pressure reducing valve station installed.

Ongoing Considerations

A higher occupancy rate for this system would improve financial sustainability.

Rosebery

Operations and Maintenance

- Repaired a substantial leak on the supply line to the reservoir.
- Replaced level sensor in the reservoir.

Capital

- No capital projects work completed in the reporting period

Ongoing Considerations

A higher occupancy rate for this system would improve financial sustainability.

South Slocan

Operations and Maintenance

- 5-year dam inspection with province completed.
- Replaced broken valve in treatment plant.
- Addressed ant infestation in water treatment building.

Capital

- No capital projects work completed in the reporting period.

Ongoing Considerations

The distribution system is comprised of aged materials, and likely has significant leakage.

Woodlands

Operations and Maintenance

- System is now supplied from the new well source.

Capital

- No capital projects work completed in the reporting period.

Ongoing Considerations

The new well may offer additional capacity should it be required in the future.

Woodbury

Operations and Maintenance

- Annual flushing and valve exercising.

Capital

- Interior Health Construction Permit received, construction of water treatment plant upgrades to begin late September 2023.

Ongoing Considerations

This system is on a long standing Boil Water Notice due to historical water quality concerns and insufficient treatment. Upgrades to the existing water treatment plant is anticipated in fall 2023.

West Robson

Operations and Maintenance

- Well pump control issue repaired.

Capital

- Design for replacing line PN01 from the reservoir to Broadwater Road has been awarded. Construction to be completed in 2024.

Ongoing Considerations

Asbestos cement pipe in the distribution system requires replacement.

Ymir

Operations and Maintenance

- Annual cleaning of intake.

Capital

- Controls upgrade project to begin construction this fall.
- Installation of reservoir outflow meter planned for fall 2023

Ongoing Considerations

ATCO is planning a logging development in the Ymir Water System watershed. The RDCK is working with ATCO and the Ymir community on this issue.

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan: Yes No Financial Plan Amendment: Yes No
Debt Bylaw Required: Yes No Public/Gov't Approvals Required: Yes No

All items mentioned in the body of the report are included in the 2022 financial plan.

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

Some items listed in the body of the report require regulatory approval.

3.3 Environmental Considerations

N/A

3.4 Social Considerations:

The items in the body of the report benefit the water system users by providing safe, reliable water sources.

3.5 Economic Considerations:

Several items in the body of the report help reduced water system leakage which help with capacity issues making water available for other potential users.

3.6 Communication Considerations:

The public will be notified before planned service interruptions or water quality impacts.

3.7 Staffing/Departmental Workplace Considerations:

N/A

3.8 Board Strategic Plan/Priorities Considerations:

To Excel in Governance and Service Delivery.

SECTION 4: OPTIONS & PROS / CONS

None.

SECTION 5: RECOMMENDATIONS

None. For information only.



Respectfully submitted,

Alexandra Divlakovski, Water Operations Manager

CONCURRENCE

ATTACHMENTS: NONE



Committee Report

Date of Report: September 14, 2023
Date & Type of Meeting: October 4, 2023, Water Services Committee
Author: Nathalie Nick, Environmental Coordinator – Utility Services
Subject: RDCK WATER SYSTEM ADVISORIES
File: 5700-02-2023
Electoral Area/Municipality All

SECTION 1: EXECUTIVE SUMMARY

The purpose of this report is to summarize the water advisories issued from May 1, 2023 to August 31, 2023 for water systems operated by the Regional District.

SECTION 2: BACKGROUND/ANALYSIS

The two types of water advisories issued and detailed in this report are Water Quality Advisories and Boil Water Notices. On very rare occasion, a Do Not Consume Notice may be issued for a variety of reasons. A Water Quality Advisory alerts water users that water quality is reduced, and those with compromised or sensitive immune systems should boil water prior to consumption. A Boil Water Notice alerts water users that water quality is potentially or currently a health risk, and water must be boiled prior to consumption. A Do Not Consume Notice alerts water users that water quality is potentially or currently a health risk, and water must not be consumed or used for food preparation, but may still be used for bathing.

Notices and advisories detailed in this report are one of three categories: long-term advisories, temporary (current) advisories, and advisories that have been issued and rescinded within the reporting period.

LONG TERM ADVISORIES				
RDCK Water System	Advisory Type	Date of Advisory	Reason for Advisory	Action
Burton	Water Quality Advisory	Jan. 12, 2017	Re-occurring presence of E.Coli and Total Coliform	Water Quality Action Plan implemented as per Board Resolution 534/17.
Sanca Park	Boil Water Notice	Jun. 2000	Lack of treatment infrastructure	A Risk Management Policy will be presented to the Nov 04 2023 Water Services Committee.
Woodbury Village	Boil Water Notice	Oct. 5, 2018 (upgraded from long term water quality notice)	Preventative due to occasional occurrence of Coliform bacteria	Providing temporary chlorination disinfection. Upgrades planned for 2023.

TEMPORARY ADVISORIES				
RDCK Water System	Advisory Type	Date of Advisory	Reason for Advisory	Action
Balfour	Boil Water Notice Localized	May 9, 2023	Water main repair	Advisory in place until main repaired and water quality test results good
Duhamel	Boil Water Notice	August 24, 2023	Water main break	This notice was issued as a precaution, as line did not depressurize. Notice was immediately rescinded
Edgewood	Boil Water Notice	June 13, 2023	Water main infrastructure maintenance	Advisory in place until maintenance completed and water quality test results good
Erickson	Boil Water Notice Localized	May 3, 2023	Water main repair	Advisory in place until main repaired and water quality test results good
Fauquier	Water Quality Advisory	May 1, 2023	Elevated turbidity due to freshet	Advisory in place until turbidity levels returned to normal
Grandview	Boil Water Notice Localized	June 26, 2023	Tie-in to new pressure reducing station	Advisory in place until tie-in completed and water quality test results good
Grandview	Boil Water Notice Localized	Aug 1, 2023	Water main repair	Advisory in place until main repaired and water quality test results good
Lister	Boil Water Notice Localized	June 29, 2023	Water main repair	Advisory in place until main repaired and water quality test results good
Lister	Boil Water Notice Localized	Aug 23, 2023	Water main repair	Advisory in place until main repaired and water quality test results good
South Slokan	Boil Water Notice	June 5, 2023	Low water levels	Precautionary measure due to low water levels in reservoir
West Robson	Boil Water Notice	Aug 4, 2023	Depressurization of the main during repairs	Advisory in place until main repaired and water quality test results good

ADVISORIES RESCINDED				
RDCK Water System	Advisory Type	Date of Advisory	Date of Rescind	Reason for Rescind
Balfour	Boil Water Notice Localized	May 9, 2023	May 12, 2023	Water main break was repaired*
Duhamel	Boil Water Notice	April 28, 2023	May 9, 2023	Precautionary measure due to main break no longer needed and water quality tests indicated quality was good*
Duhamel	Boil Water Notice	Aug 24, 2023	Aug 24, 2023	There was a potential for water main depressurization during a leak repair. Depressurization did not occur and the Boil Water Notice was not required.
Edgewood	Boil Water Notice	June 13, 2023	June 26, 2023	Water infrastructure maintenance completed*
Erickson	Boil Water Notice Localized	May 3, 2023	May 9, 2023	Water main break was repaired*
Fauquier	Water Quality Advisory	May 1, 2023	July 25, 2023	Turbidity levels returned to normal
Grandview	Boil Water Notice Localized	June 26, 2023	July 4, 2023	Tie-in to new pressure reducing station completed*
Grandview	Boil Water Notice Localized	Aug 1, 2023	Aug 9, 2023	Water main break was repaired*
Lister	Boil Water Notice Localized	June 26, 2023	July 7, 2023	Water main break was repaired*
Lister	Boil Water Notice Localized	Aug 23, 2023	Aug 24, 2023	Water main break was repaired*
South Slocan	Water Quality Advisory	April 14, 2023	May 15, 2023	Turbidity levels returned to normal
South Slocan	Boil Water Notice	June 5, 2023	June 9, 2023	Water levels returned to normal
West Robson	Boil Water Notice	Aug 4, 2023	Aug 17, 2023	Water main repairs completed*

*Notice/advisory issued as a precautionary measure and will be/was rescinded after two consecutive water quality tests indicated that water quality is/was good in the water system.

SECTION 3: DETAILED ANALYSIS

3.1 Financial Considerations – Cost and Resource Allocations:

Included in Financial Plan:

Yes No

Financial Plan Amendment:

Yes No

Debt Bylaw Required:

Yes No

Public/Gov't Approvals Required:

Yes No

N/A

3.2 Legislative Considerations (Applicable Policies and/or Bylaws):

Under the BC Ministry of Health and as a requirement for Interior Health operating permits, water quality must be monitored and reported to Health Authorities and the water user community.

3.3 Environmental Considerations

N/A

3.4 Social Considerations:

Safe drinking water is integral to public health and well-being, and effectively communicated water quality notifications that outline potential health risks offers security to water users within RDCK water systems.

3.5 Economic Considerations:

N/A

3.6 Communication Considerations:

When a water system advisory is issued, and depending on the level of health risk, community residents are notified via:

- Media Release platforms (Facebook, RDCK website, etc.)
- Voyent Notifications via text, email, and/or phone call
- Door hangers
- Sandwich board signs

3.7 Staffing/Departmental Workplace Considerations:

N/A

3.8 Board Strategic Plan/Priorities Considerations:

Staff are committed to the ongoing safe and sustainable provision of drinking water within the District's 19 water systems. This is aligned with the overarching strategic priority *'to excel in Governance and Service Delivery.'*

Via a robust notification system, we remain committed to being innovative and offering multiple channels of information so residents can get access to water quality information in a timely fashion.

SECTION 4: OPTIONS & PROS / CONS

N/A

SECTION 5: RECOMMENDATIONS

None, this is for information purposes only.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'N. Nick', enclosed within a circular scribble.

Nathalie Nick, Environmental Coordinator – Utility Services

CONCURRENCE

Utility Services Manager – Jason McDiarmid

ATTACHMENTS: NONE



REGIONAL DISTRICT OF CENTRAL KOOTENAY

**Sanca Park Water Community Advisory Committee
DISCUSSION OUTLINE & NOTES**

Time: 9:00 am PDT
Date: Monday, July 31, 2023
Location: Hybrid Model

Join by Video:

<https://nelsonho.webex.com/nelsonho/j.php?MTID=m4467e95c98a772d5d2692d5a6a215051>

Join by Meeting Number:

Meeting Number (access code): 2774 536 1737
Meeting Password: 8eDhCKt3e5Q (83342583 from phones)

Join by Phone:

+1-604-449-3026 Canada Toll (Vancouver)

In-Person Meeting Location for Hybrid Meeting Model

The following location has been determined to hold the in-person meeting for the Sanca Park Water Community Advisory Committee:

Location Name: RDCK Board Room
Location Address: 202 Lakeside Drive, Nelson, BC

The facility listed above is able to accommodate the remote requirements for the meeting.

COMMITTEE MEMBERS

John Vander Heide
Mike Thompson
Peter Cartwright
Melissa Izon
Director G. Jackman

STAFF

Uli Wolf	General Manager, Environmental Services
Jason McDiarmid	Utility Services Manager
Alex Divlakovski	Water Operations Manager

1. WELCOME AND INTRODUCTIONS

Uli Wolf, General Manager of Environmental Services the meeting to order at 9:00 am.

2. STAFF VERBAL REPORTS

2.1 Operation and Maintenance

- Excavated and replaced the curb stop valve at 10881 Sanca Park Road as it would not close.
- Currently under Stage 2 Water Conservation Measures.
- Bacteriological testing completed 2023-06-06 results show 12 total coliforms and 2 E. coli (CFU/100ml).
- Only RDCK staff or RDCK contractors are permitted to operate water connection shut off valves.
- If a valve is operated by a property owner and damaged, property owner would be liable for repair costs.
- If a valve operated by RDCK and damaged, the water system would pay the repair costs.

2.2 Capital Projects / System Upgrades

- Renewed correspondence between the Regional District and Sanca Creek Beach Resort Cooperative Association regarding potentially disconnecting and/or relocating two northern properties currently serviced by the system.

2.3 Water Intake Statutory Right-of-Way

- No new information since last meeting.
- Property owner still waiting for independent power provider water license before executing SRow.
- New water licenses can take years.

2.4 North Property Removal from Water Service Area

- John Vander Heide spoke with property owner.
- Property owner had a person from their business contact the Regional District.
- Business contact indicated property owner will be applying for a water license.
- Regional District provided a letter of support for the water license application.
- New water licenses can take years.
- The Water Community Advisory Committees would like staff to follow up with Water Stewardship Division to see if we can speed up the water licence application for the north property owner.
- Water Stewardship might not be able to tell us whether or not the property owner has applied for a water licence due to privacy legislation.

3. COMMISSION versus WATER COMMUNITY ADVISORY COMMITTEES

- There was a discussion on the differences and similarities between Commissions and Water Community Advisory Committees (CACs).

- RDCK Staff to confirm how long CAC appointment are and how many people can be appointed to a CAC. Manager Wolf confirmed that existing Sanca CAC members were pointed for nearly 3 years.
- Post meeting follow up: Water and Wastewater System Community Advisory Committee Bylaw No. 2858, 2023 provides the following “Members are appointed by resolution of the RDCK Board. Each CAC will include a minimum of three (3) and a maximum of six (6) community members, all of whom must reside within the utility service area or be the registered owner of property within the service area.”, and “The term of a CAC member shall be three (3) years.

4. 2023-2027 FINANCIAL PLAN AND JUNE 2023 FINANCIAL STATEMENT

The 2023-2027 Financial Plan for Service S242 and the June 2023 Financial Statement for Sanca Park Water, has been received.

5. ADJOURNMENT

Meeting adjourned at 10:30 am.

Regional District of Central Kootenay

Unaudited Service Statement

S242 Water Utility-Area A (Sanca Park)

Period: June 2023

REVENUE

Account	Project	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
41015	Parcel Taxes	0	0	15,840	15,840	0%
42030	User Fees	0	20,636	20,635	(1)	100%
45000	Transfer from Reserves	0	0	40,000	40,000	0%
49100	Prior Year Surplus	0	1,451	1,450	(1)	100%
Revenue		0	22,087	77,925	55,838	28%

OPERATING EXPENSES

Account	Project	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
51010	Salaries	166	765	2,063	1,298	37%
51020	Overtime	0	0	226	226	0%
51030	Benefits	11	68	536	468	13%
51500	Directors - Allowance & Stipend	0	202	403	201	50%
51565	Directors - Mileage	47	140	0	(140)	0%
52010	Travel	0	0	79	79	0%
53020	Admin, Office Supplies & Postage	0	0	500	500	0%
53050	Insurance	125	125	256	131	49%
53080	Licence & Permits	0	170	337	167	50%
54010	Legal	0	0	2,000	2,000	0%
54030	Contracted Services	10	19	454	435	4%
55010	Repairs & Maintenance	0	0	563	563	0%
55020	Operating Supplies	0	0	34	34	0%
55050	Vehicles	45	45	0	(45)	0%
Operating Expenses		404	1,535	7,451	5,916	21%

CAPITAL EXPENSES

Account	Project	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
60000	Capital Expenditures	0	0	38,000	38,000	0%
Capital Expenses		0	0	38,000	38,000	0%

NON-OPERATING EXPENSES

Account	Project	Current Month	Year To Date Actuals	Total Year Budget	Budget Remaining	Budget Utilization
59000	Contribution to Reserve	0	21,891	21,891	0	100%
59500	Transfer to Other Service	0	0	3,904	3,904	0%
59510	Transfer to Other Service - General Admin. Fee	0	0	1,982	1,982	0%
59550	Transfer to Other Service - Environmental Services Fee	0	0	4,697	4,697	0%
Non-Operating Expenses		0	21,891	32,474	10,583	67%

Total Service		(404)	(1,339)	(0)		
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**Regional District of Central Kootenay
S242 Water Utility-Area A (Sanca Park)**

2023 to 2027 Financial Plan

SYSTEM INFORMATION AND RATES

	No.	2022	2023	2024	2025	2026	2027
Active Accounts	28						
Service Charges % Increase SAN-DWELLING-SINGLE FAMILY	28	-15% 723	2% 737	2% 752	2% 767	2% 782	2% 798
Parcel Tax % Increase		0%	0%	0%	0%	0%	0%
Parcel Tax	32	495	495	495	495	495	495
Total							

REVENUE

Account	2019	2020	2021	Average	2022 Budget	2022 YTD Actual	2022 Est Year End	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
41010 Requisitions												
41015 Parcel Taxes	15,840	15,840	15,840	15,840	15,840	15,840	15,840	15,840	15,840	15,840	15,840	15,840
42020 Sale of Services												
42030 User Fees	22,798	23,612	24,141	23,517	20,230	20,533	20,533	20,635	21,047	21,468	21,898	22,336
43100 Proceeds from Borrowing												
45000 Transfer from Reserves			4,853	4,853	45,000	0	0	40,000	0	0	0	0
49100 Prior Year Surplus	201	1,127	2,283	1,204	717	717	717	1,450	0	(0)	0	(0)
Revenue	38,839	40,579	47,117	45,414	81,787	37,090	37,090	77,925	36,888	37,308	37,738	38,175

OPERATING EXPENSES

Account	2019	2020	2021	Average	2022 Budget	2022 YTD Actual	2022 Est Year End	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
51010 Salaries	2,353	2,064	1,815	2,077	1,976	1,586	1,943	2,063	2,104	2,146	2,189	2,233
51020 Overtime	0	0	0	0	216	0	0	226	230	235	239	244
51030 Benefits	202	204	144	183	296	165	206	536	547	558	569	581
51500 Directors - Allowance & Stipend					0	386	386	403	411	419	428	436
52010 Travel	99	17		58		76	76	79	81	82	84	86
53020 Admin, Office Supplies & Postage	407	400	400	402	424	500	500	500	500	500	500	500
53040 Advertising	0			0			0	0	0	0	0	0
53050 Insurance	106	103	123	111	246	158	158	256	261	266	271	277
53080 Licence & Permits	170	150	312	211	324	85	235	337	344	351	358	365
54010 Legal	0	0	0	0	0	0	0	0	0	0	0	0
54010 - SROW for intake					2,000	0	0	2,000	0	0	0	0
54010 - Water Quality Risk Management Plan					5,000	0	0	0	0	0	0	0
54030 Contracted Services	909	1,222	71	734	437	150	78	454	464	473	482	492
55010 Repairs & Maintenance	507	0	488	331	541	0	0	563	574	585	597	609
55020 Operating Supplies	45	0	0	15	33	0	0	34	35	36	36	37
55050 Vehicles	44			44			0	0	0	0	0	0
55030 Equipment			577	577			0	0	0	0	0	0
Operating Expenses	4,842	4,160	3,353	4,167	11,493	3,106	3,582	7,451	5,550	5,651	5,754	5,859

CAPITAL EXPENSES

Account	2019	2020	2021	Average	2022 Budget	2022 YTD Actual	2022 Est Year End	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
60000 CAP1006-100 North Water Line Relocation					38,000	0	0	38,000				
Capital Expenses	0	0	0	0	38,000	0	0	38,000	0	0	0	0

NON-OPERATING EXPENSES

Account	2019	2020	2021	Average	2022 Budget	2022 YTD Actual	2022 Est Year End	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
56010 Debenture Interest	1,208	0		604								
56020 Debenture Principal	15,695	0		7,848								
56110 Short-Term Financing Interest		597	151	374								
56120 Short-Term Financing Principal		15,695	20,548	18,122								
59000 Contribution to Reserve	3,924	3,053	3,231	3,403	20,440	20,440	20,440	21,891	21,128	21,243	21,362	21,481
59500 Transfer to Other Service	1,343	2,657	3,327	2,442	2,407	1,984	2,171	3,903	2,388	2,436	2,485	2,534
59510 Transfer to Other Service - General Admin. Fee	3,490	3,581	3,689	3,587	3,873	3,873	3,873	1,982	2,022	2,062	2,103	2,145
59550 Transfer to Other Service - Environmental Services Fee	7,210	8,553	11,524	9,096	5,574	5,574	5,574	4,697	5,800	5,916	6,034	6,155
Non-Operating Expenses	31,662	34,136	42,470	44,870	32,294	31,871	32,058	32,473	31,338	31,657	31,984	32,316

Total Service	0	2,114	1,450	0	(0)	0	(0)	0
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59500 TRANSFER TO OTHER SERVICE

Account	Work Order	2019	2020	2021	Average	2022 Budget	2022 YTD Actual	2022 Est Year End	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
59500	OPR324-100												
59500	OPR324-112	1,080	2548	2962	2,197	1,984	1,984	1,984	3,621	2,100	2,142	2,185	2,229
59500	OPR324-117	263	109	365	246	423	0	187	282	288	294	300	306
Total Transfer to Other Service		1,343	2,657	3,327	2,442	2,407	1,984	2,171	3,903	2,388	2,436	2,485	2,534

RESERVES

	2022	2023	2024	2025	2026	2027
Balance Previous Year	42,173	63,035	45,556	67,140	89,054	111,307
Interest (Assumed 1%)	422	630	456	671	891	1,113
Contribution	20,440	21,891	21,128	21,243	21,362	21,481
Withdrawal	0	(40,000)	0	0	0	0
Total	63,035	45,556	67,140	89,054	111,307	133,901

2021 Asset Management Plan Identified Contribution to Reserves (Revised Pipe Replacement Costs)

25 Year	12,150
100 Year	22,600
Total	34,750