

JUAN DE FUCA WATER DISTRIBUTION COMMISSION

Notice of Meeting on **Tuesday, September 6, 2022 at 12 pm** Goldstream Conference Room, 479 Island Highway, Victoria, BC

For members of the **public who wish to listen to the meeting** via telephone please call **1-833-353-8610** and enter the **Participant Code 1911461 followed by #.** You will not be heard in the meeting room but will be able to listen to the proceedings.

G. Logan (Chair)	G. Baird	K. Kahakauwila	L. Szpak
J. Rogers (V. Chair)	M. Hicks	E. Logins	R. Wade

AGENDA

4	TERRITORIAL	ACKNIOWI	EDCEMENT
1.	IERRIIURIAL	ACKNOWL	.EDGEWEN I

- 2. APPROVAL OF AGENDA
- 3. ADOPTION OF MINUTES3

Recommendation: That the minutes of the July 5, 2022 meeting be adopted.

4. CHAIR'S REMARKS

5. PRESENTATIONS/DELEGATIONS

The public are welcome to attend Commission meetings in-person.

Delegations will have the option to participate electronically. Please complete the <u>online</u> application for "Addressing the Board" on our website and staff will respond with details.

Alternatively, you may email your comments on an agenda item to the Juan de Fuca Water Distribution Commission at iwsadministration@crd.bc.ca. Requests must be received no later than 4:30 p.m. two calendar days prior to the meeting.

6. GENERAL MANAGER'S REPORT

6.1. Water Supply Outlook [Verbal]

7. COMMISSION BUSINESS

7.1. Juan de Fuca Water Distribution Service 2023 Capital and Operating Budget5

Recommendation: The Juan de Fuca Water Distribution Commission recommends the Committee of the Whole recommend that the Capital Regional District Board:

- 1. Approve the 2023 Operating and Capital Budget and the Five Year Capital Plan;
- 2. Approve the 2023 Juan de Fuca Water Distribution Service retail water rate of \$2.5466 per cubic metre, adjusted if necessary, by any change in the Regional Water Supply wholesale water rate:
- 3. Direct staff to balance the 2022 actual operating deficit or surplus on the 2022 capital fund transfer; and

1

Juan de Fuca Water	r Distribution	Commission
Agenda - Septembe	er 6, 2022	

4.	Direct staff to amend the Wa	er Distribution	Local Servic	e Conditions,	, Fees and	Charges
	Bylaw accordingly.					

7.2. Summary of Recommendations from Other Water Commissions44

There is no recommendation. The Summary of Recommendations is for information only.

7.3. Water Watch Report46

There is no recommendation. The Water Watch Report is for information only.

8. NOTICE(S) OF MOTION

9. NEW BUSINESS

10. ADJOURNMENT

Next Meeting: January 3, 2023 Inaugural Meeting



MINUTES OF A MEETING OF THE Juan de Fuca Water Distribution Commission, held Tuesday, July 5, 2022 at 12 p.m., Goldstream Conference Room, 479 Island Highway, Victoria, BC

PRESENT: Commissioners: G. Logan (Chair); J. Rogers (V. Chair)(EP); G. Baird; M. Hicks

(EP); E. Logins (EP); L. Szpak;

Staff: T. Robbins, General Manager; I. Jesney, Senior Manager, Infrastructure

Engineering; D. Dionne, Administrative Coordinator (Recorder)

REGRETS: K. Kahakauwila; R. Wade

EP = Electronic Participation

The meeting was called to order at 12:03 pm.

The Chair conducted a roll call.

1. TERRITORIAL ACKNOWLEDGEMENT

The Chair provided the Territorial Acknowledgement.

2. APPROVAL OF AGENDA

MOVED by Commissioner Baird, **SECONDED** by Commissioner Szpak, That the agenda be approved.

CARRIED

3. ADOPTION OF MINUTES

MOVED by Commissioner Rogers, **SECONDED** by Commissioner Baird, That the minutes of the March 1, 2022 meeting be adopted.

CARRIED

4. CHAIR'S REMARKS

The Chair made the following remarks:

- This will be the last meeting of the Commission before summer break, he wished everyone time to enjoy, reflect and rest during the break.
- September would likely be the last meeting of the Commission for the year, and he hopes that all members will make it out to that meeting.

5. PRESENTATIONS/DELEGATIONS

There were no presentations or delegations.

6. GENERAL MANAGER'S REPORT

6.1. Water Supply Outlook

T. Robbins spoke to the item advising that a wet cool spring has left the Sooke Lake Reservoir at 94% capacity as of yesterday, and that last year at this same time the reservoir was at 85% capacity. There are no concerns with water supply at this time.

2

7. COMMISSION BUSINESS

Minutes – July 5, 2022

4

7.1. Rocky Point Water Upgrades Budget Amendment

I. Jesney introduced to the item.

MOVED by Commissioner Baird, **SECONDED** by Commissioner Szpak, The Juan de Fuca Water Distribution Commission recommends to the Capital Regional District Board:

That the 2022 Juan de Fuca Water Distribution Service capital plan and Project 18-05, Rocky Point Water Upgrades, budget be amended to \$9,725,000 to reflect an increase in Federal funding of \$411,000 for the additional archeological and environmental monitoring costs.

CARRIED

CARRIED

7.2. Summary of Recommendations from Other Water Commissions

There is no recommendation, the item is for information only.

RECEIVED FOR INFORMATION

7.3. Water Watch Report

There is no recommendation, the item is for information only.

RECEIVED FOR INFORAMTION

8. NEW BUSINESS

There was no new business.

9. ADJOURNMENT

MOVED by Commissioner Baird, **SECONDED** by Commissioner Szpak, That the July 5, 2022 meeting be adjourned at 12:07 pm.

CHAIR		
	 	
SECRETARY		



JWDC 22-05

REPORT TO JUAN DE FUCA WATER DISTRIBUTION COMMISSION MEETING OF TUESDAY, SEPTEMBER 6, 2022

SUBJECT Juan de Fuca Water Distribution Service 2023 Operating and Capital Budget

ISSUE SUMMARY

To provide an overview of the draft 2023 Juan de Fuca Water Distribution Service budget, highlighting the proposed significant changes from the 2022 budget. The report generally follows the sequence of information provided in the attached draft budget document (Appendix A).

BACKGROUND

The draft 2023 Juan de Fuca (JDF) Water Distribution Service budget has been prepared for the JDF Water Distribution Commission's (Commission) consideration. The Commission will make budget recommendations to the Capital Regional District (CRD) Board through the Committee of the Whole in September. As in previous years, the draft 2023 JDF Water Distribution Service budget has been prepared considering the CRD Board's 2023 service planning and financial expectations, which include identifying opportunities to realign or reallocate resources and seek potential efficiencies between departments and services, reviewing adjustments related to regulatory compliance, and undertaking infrastructure improvements to maintain service levels across the service area, including incremental ongoing operational and maintenance requirements in the expanding service area. The following sets out the key components of the budget.

2022 Year End Financial Projections

Year-end revenue and expenditure projections have been established and estimated variances are summarized as follows:

Budget Item	Projected Variance (\$)	Projected Variance (%)
Distribution System operating expenditures	\$158,848	-2.2%
Bulk water purchase cost	\$54,990	0.8%
Capital expenditures and transfers	\$271,663	4.0%
Debt servicing - principal and interest expenditures	-\$30,209	-1.6%
Revenue	\$167,205	0.7%
Transfers from Development Cost Charges (DCC) reserves to fund DCC debt	\$0	0.0%

Rate Base

The rate base for 2023 has increased by \$11,581,339 from 2022. This increase relates to physical plant additions, including distribution pipes, water meters and services, and pump station upgrades (Pages 3 & 4 of the budget document).

Revenue Requirement

The revenue requirement for 2023 has increased by \$840,570 over 2022. This is resulting from an increase in operational expenses of \$446,973, increased depreciation expenses of \$286,496

5

net of expired depreciation on existing assets, and a net increase in the return on the rate base of \$107,100. The increase in the return on the rate base is a result of the growing asset base (Page 5 of the budget document).

Operating Budget

The 2023 operating budget reflects an increase in non-discretionary expenses such as negotiated wage/salary increases, corporate support service allocation increases, maintenance expenses due to new infrastructure additions, and other operating expense increases such as electricity costs. The net core 2023 operating budget increase is \$446,973. Operating budget forecasts for 2024 through 2027 have been presented for information.

As reported in recent years the distribution system continues to expand at an accelerated rate due to continued growth in new land development in the service area over the last several years. For context, the following summarizes the additions in 2022 (over 2021) to the asset units in the major categories, all of which require regular maintenance to ensure reliable performance:

Water distribution mains	6,000	metres
Service laterals	470	(9-metre length average)
Fire hydrants	69	
Line valves	210	
Flush, air and check valves	16	
Water meters <50mm	430	
Water meters =/>50mm	40	

As noted previously, with at least four major developments underway in the service area, including South Skirt Mountain, Bear Mountain, Royal Bay and Centre Mountain, it is expected that the water system asset base will continue to grow significantly in the near future as initial water servicing infrastructure is installed which will impact operating and maintenance costs. Given the size of the developments and anticipated phasing and build-out timelines, it is expected that there will be an element of 'revenue lag' before revenue generated from retail water sales in these and other developments offsets the initial infrastructure operating and maintenance costs. Staff have been directed to examine this issue and possible rate options to mitigate the budget implications through a Water Rate Methodology and Option Study. Due to this study being delayed, any potential changes to the rate methodology will be presented to the Commission in 2023.

Capital Budget

There are several capital projects planned for 2023 with a total value of \$26,995,000 including \$16,435,000 in projects that are in progress or are multi-year projects, and \$6,170,000 in Development Cost Charge (DCC) projects. There are also \$1,810,000 in projects cost-shared with the Regional Water Supply Service. See pages 10 to 25 of the budget document for capital plan details.

A large portion of the work in progress and resulting capital expenditure variance is related to five major projects summarized below:

 Project 18-05 Rocky Point Upgrades - This project is cost-shared with the Federal Government through a contribution agreement with the Department of National Defence (DND). The planned carry-forward of \$1,300,000 is a result of delays encountered during the detailed design portion of the project related to a rezoning variance requirement as well as

- additional engineering to address any potential archeological issues that may be encountered during construction. The project is fully designed, tendered and construction is ongoing in 2022 and expected to be completed in the first quarter of 2023.
- 2. Project 20-07 Goldstream Asbestos Cement (AC) Replacement The planned carry-forward of \$5,200,000 is related to the majority of construction being delayed until 2023. Design for replacement was completed in 2021 and tender for construction was issued in 2021 and closed in 2022. All bids exceeded budget therefore the tender was cancelled. The project has been carried forward to the 2023 Capital Plan and will be constructed using CRD staff. The 2023 annual AC Replacement project 20-03 budget, in the amount of \$3,000,000 will be allocated to the Goldstream AC Replacement project to have sufficient budget to complete the project.
- 3. Project 21-01 Sooke Henlyn Supply and Distribution Main The start of this DCC project is dependent on development work. This work will not be complete in 2022, therefore the \$1,000,000 project has been carried-forward to 2023.
- 4. Project 23-01 Tank 4 and McCallum Pump Station (2020-2021) and Pump Station 7 and remaining Supply Main to Skirt Mountain Reservoir (2022) The project was initially put on hold temporarily over concerns with rising material costs and scheduling concerns related to timing of development servicing needs. Engineering design and construction tendering were completed in 2021, with construction started in August 2022 and expected to be completed in the first quarter of 2023, resulting in a \$5,000,000 carry-forward. The project is fully funded through the DCC Program.
- 5. Capital item 16-06 Delay in the delivery of fleet replacement vehicles is resulting in a \$990,000 carry-forward. The vehicles are expected to be delivered and paid for in 2023.

Note, the Seagirt Water Improvement District conversion to a CRD service is in progress. Once converted, the entire improvement district water system will be reconstructed and become part of the JDF Water Distribution System. The capital project (23-03) is included in the JDF Water Distribution System capital plan, with funding from the Seagirt Water Service budget (See Appendix D) in the amount of \$2,350,000.

A five-year capital plan is presented for information. The total five-year (2023-2027) capital plan budget is currently \$64,164,000.

Capital and Debt Expenditures

The 2023 capital expenditures will be partially funded through a transfer to the water capital fund budgeted at \$6,741,200, with the balance funded through debt. 2023 debt expenditures for existing and new debt servicing are budgeted to be \$1,863,294. Debt servicing expenditures have decreased by \$30,209 from 2022. Additional projected water sales revenue and corresponding capital reserve fund transfer will reduce the borrowing needs in 2023. A loan authorization in the amount of \$14,800,000 was approved in 2021 to allow continued partial funding of the five-year capital plan. The upcoming debt retirements on existing borrowings are summarized as follows:

Loan Number	Retirement Date	Loan Amount
LA3782-118	April 2027	\$2,500,000
LA3782-124	April 2028	\$4,500,000
LA3782-127	April 2029	\$5,000,000
LA3981-137	April 2031	\$2,000,000
LA3981-145	April 2033	\$3,000,000

Loan Number	Retirement Date	Loan Amount
LA3981-150	April 2035	\$5,100,000
LA4379-15X	April 2037-2038	\$11,200,000

When assessing key financial health indicators, the service maintains an affordable level of debt over the next five years. The percentage of revenue dedicated to debt costs is forecast to be between 10 to 12%, which is less than an annual benchmark rate of 25%, and debt funding for capital investment in each of the next five years does not exceed 40%. A summary indicator table is provided below:

Year	% Revenue for Debt	Capital Funded by Debt
2023	7.8%	34.1%
2024	10.8%	38.0%
2025	11.1%	6.5%
2026	10.5%	0.0%
2027	9.7%	0.0%

For 2023, the transfer to the vehicle/equipment replacement fund was increased to \$589,457 to reflect the growth in cost of future vehicle replacement. The reserve fund balance is estimated at \$792,405 at year end 2022 (See reserve schedule – Page 28 of the budget document).

The DCC projects will be funded entirely from the DCC reserve fund, which is projected to have a balance of \$10,029,191 at year end 2022 (See reserve schedule – Page 27 of the budget document).

Bulk Water Purchase

Based on the proposed 2023 budgeted water demand and Regional Water Supply wholesale water rate, the bulk water purchase budget has been set at \$7,089,860.

Water Demand

Total water demand in the service area is generally anticipated to continue to increase year over year, primarily due to growth in the service area. The 2022 year-end demand is projected to be 75,000 cubic metres over budget at 9,375,000 cubic metres.

The recommended 2023 water rate was calculated using a budget demand of 9,210,000 cubic metres (Page 7 of the budget document), which is a decrease of 90,000 cubic metres from the volume used in the 2022 budget. For 2023 the budget demand was adjusted down to reflect the reallocation of First Nations water demand from the JDF Water Distribution Service to the Regional Water Supply Service, as a result of the Regional Water Supply Service becoming the service provider to First Nations in 2023. The budget demand adjustment and corresponding revenue adjustment implication will be partially offset by the new First Nations conveyance fee funding from the Regional Water Supply Service in the amount of \$215,000 in 2023.

Proposed 2023 Wholesale Water Rate

The proposed 2023 wholesale water rate is \$0.7698 per cubic metre, a 4.99% increase from the 2022 rate, subject to the Regional Water Supply Commission's approval.

Proposed Agricultural Water Rate

Although the agricultural water rate is currently under review, the proposed 2023 agricultural water rate was maintained at the 2022 rate of \$0.2105 per cubic metre, subject to the Regional Water Supply Commission's approval. The Regional Water Supply agricultural water rate budget funds the difference between the municipal retail water rate and the agricultural water rate.

Proposed 2023 Juan de Fuca Water Distribution Service Retail Water Rate

The recommended retail water rate has taken into consideration the revenue required to meet operating and capital expenditures, debt obligations, the bulk water purchase expense, and the budget demand volume established for 2023. The proposed 2023 Juan de Fuca Water Distribution Service retail water rate is \$2.5466 per cubic metre, a 6% increase from the 2022 rate (Page 8 of the budget document).

Retail and Wholesale Water Rate History and Projection

The retail and wholesale water rate history and projection is attached (Appendix C). The rates may be adjusted in the future to reflect actual revenue and expenditure circumstances and water demand volumes.

ALTERNATIVES

Alternative 1

The Juan de Fuca Water Distribution Commission recommends the Committee of the Whole recommend that the Capital Regional District Board:

- 1. Approve the 2023 Operating and Capital Budget and the Five Year Capital Plan;
- 2. Approve the 2023 Juan de Fuca Water Distribution Service retail water rate of \$2.5466 per cubic metre, adjusted if necessary, by any change in the Regional Water Supply wholesale water rate;
- 3. Direct staff to balance the 2022 actual operating deficit or surplus on the 2022 capital fund transfer; and
- 4. Direct staff to amend the Water Distribution Local Service Conditions, Fees and Charges Bylaw accordingly.

Alternative 2

That the Juan de Fuca Water Distribution Commission directs staff to bring back a revised 2023 Operating and Capital Budget for the Commission's consideration.

IMPLICATIONS

Financial Implications

The 2023 operating and capital budget and resulting annual water rate have been prepared to meet the needs of the service. The proposed 2023 water rate generally aligns with the rate previously presented in the five-year rate projections, although the implications of the new approach to servicing First Nations were not previously reflected in the rate projections. The proposed 2023 rate would result in a \$33.74 annual increase in the cost of water for an average household.

Juan de Fuca Water Distribution Commission – September 6, 2022 Juan de Fuca Water Distribution Service 2023 Operating and Capital Budget

6

CONCLUSION

The draft 2023 Juan de Fuca Water Distribution Service budget has been prepared for the JDF Water Distribution Commission's consideration. The Commission will make budget recommendations to the Capital Regional District Board through the Committee of the Whole in September. The draft 2023 JDF Water Distribution Service budget has been prepared considering the requirement to maintain regulatory compliance, the on-going need to undertake infrastructure renewal to ensure the system operates reliably, and annual operational adjustments, including incremental maintenance requirements associated with new development infrastructure in the expanding service area.

RECOMMENDATION

The Juan de Fuca Water Distribution Commission recommends the Committee of the Whole recommend that the Capital Regional District Board:

- 1. Approve the 2023 Operating and Capital Budget and the Five Year Capital Plan;
- 2. Approve the 2023 Juan de Fuca Water Distribution Service retail water rate of \$2.5466 per cubic metre, adjusted if necessary, by any change in the Regional Water Supply wholesale water rate:
- 3. Direct staff to balance the 2022 actual operating deficit or surplus on the 2022 capital fund transfer; and
- 4. Direct staff to amend the Water Distribution Local Service Conditions, Fees and Charges Bylaw accordingly.

Submitted by:	Ted Robbins, BSc., CTech., General Manager, Integrated Water Services
Concurrence:	Nelson Chan, MBA, FCPA, FCMA, Chief Financial Officer
Concurrence:	Kristen Morley, JD, Acting Chief Administrative Officer

ATTACHMENTS

Appendix A: 2023 Juan de Fuca Water Distribution Service Budget

Appendix B: Long Term Debt Obligations Summary

Appendix C: Retail and Wholesale Water Rate History and Projection

Appendix D: Seagirt Improvement District

10

CAPITAL REGIONAL DISTRICT 2023 BUDGET

JDF Water Distribution

COMMISSION REVIEW

SEPTEMBER 2022

Service: 2.680 JDF Water Distribution Commission: Juan De Fuca Water Distribution

DEFINITION:

To finance the administration, development, maintenance, and operational expenses, of the Juan de Fuca Water Distribution local service in the Western Communities of the Capital Regional District, as per the Water Distribution Local Service Area Establishment Bylaw No. 2538.

The establishment and operation of a Juan de Fuca water Distribution Commission is done by Bylaw No. 2540.

SERVICE DESCRIPTION:

Juan de Fuca Water Distribution Service provides retail water distribution system to participants within the Western Communities. The service administration and operation is provided by the Integrated Water Services Department.

PARTICIPATION:

City of Colwood District of Metchosin
City of Langford District of Sooke
Town of View Royal District of Highlands
Juan de Fuca Electoral Area

MAXIMUM LEVY:

The maximum amount that may be requisitioned is NIL.

MAXIMUM CAPITAL DEBT:

Authorized: Borrowed: Remaining:	Pre Consolidated MFA Loan Authorizations - Juan de Fuca Water Distribution Facilit Expired	ties -	\$19,000,000 \$17,500,000 \$1,500,000
Authorized: Borrowed: Remaining:	MFA Bylaw No. 3981 - Juan de Fuca Water Distribution Facilities Expired	- =	\$14,800,000 \$10,100,000 \$4,700,000
Authorized: Borrowed: Remaining:	MFA Bylaw No. 3164 - Juan de Fuca Water Distribution Facilities Development-DCC Expired	; - =	\$10,000,000 \$3,500,000 \$6,500,000
Authorized: Borrowed: Remaining:	MFA Bylaw No. 4379 - Juan de Fuca Water Distribution Facilities Active	2021	\$14,800,000 \$0 \$14,800,000

FUNDING:

Costs are recovered from Water Sales, and transfer from DCC reserves to service DCC debt.

Change in Service:	n Budget 2022 to 2023 2.680 Juan de Fuca Water Distribution	Total Expenditure	Comments
2022 Bud	get	22,560,391	
Change in	Labour:		
		190,190	Labour charges (salaries and overhead)
	Total Change in Labour	190,190	
Other Cha	anges:		
	Transfers to Capital Fund	366,278	
	Bulk Water Purchase	271,098	Growth of ERF contribution driven by future vehicle
	Transfer to Equipment Replacement Fund (ERF)	325,963	replacement costs
	Standard Overhead Allocation	160,579	
	Allocation - vehicles	98,020	
	Contract for Services	46,602	
	Principal & Interest Payments	(30,209)	Debt retirement of LA3164-101 for \$500,000
	Other Costs	(18,516)	
	Total Other Changes	1,219,815	
2023 Bud	get	23,970,396	
	Summary of % Expense Increase		
	Increased transfers to capital	1.6%	
	Additional required ERF contribution	1.4%	
	Additional cost due to increased bulk water rate	1.5%	
	Reduced bulk water consumption	-0.3%	
	Support services increase	0.7%	
	Balance of increase	1.3%	
	% expense increase from 2022:	6.2%	

Overall 2022 Budget Performance

(expected variance to budget and surplus treatment)

Small favourable revenue and water sales variance of \$180,200 (0.8%) as 2022 demand forecast is slightly higher than budgeted, but below prior year actual results due to more temperate spring and summer weather. This additional revenue will be partially offset by bulk water purchase overages. There is additional favourable operating variance of \$158,800 (2.2%) largely related to temporary staff vacancies. The net surplus of \$333,000 will be transferred to the Capital Reserve Fund.

Rate Base for 2023 Revenue Year

	 2021 Applic	 2022 Applic	End of 2022 for '23 Applic.	 Change	
Retail System					
Physical Plant	\$ 174,624,245	\$ 179,090,334	\$ 182,123,781	\$ 3,033,446	Note 1
Construction Work In Progress	962,562	5,668,389	14,161,175	8,492,787	Note 1
Cash Working Capital	854,959	880,685	935,791	55,106	
Inventory	 525,000	 525,000	 525,000	 <u>-</u>	
Total Retail Rate Base	\$ 176,966,766	\$ 186,164,408	\$ 197,745,747	\$ 11,581,339	

Note 1: Refer to the Schedule of Change in Physical Plant & Work in Progress for details.

Schedule of Change in Physical Plant & Work In Progress

Retail

Projected Asset Additions		Projected Assets Capitalized			
Pipes	\$	7,672,230.00			
Meters		1,550,000			
Pump Stations		1,304,985			
SCADA		230,000			
Hydrants		225,000			
Valve Replacement		200,000			
Disaster Response Studies		199,873			
Reservoir Rehabilitiation and Upgrades		100,000			
Building Modification		40,000			
Other Projects (13 minor projects under \$50k)		185,689			
Total projected assets capitalized	\$	11,707,777			
Less: current year's depreciation		(4,908,097)			
Less: change in prior year forecast addition estimates, & disposals.		(3,766,234)			
Change in Physical Plant	\$	3,033,446			

Projected Construction Work In Progress (CWIP)

Pump Stations	\$ 11,325,751
Reservoir Rehabilitiation and Upgrades	827,964
Pipes	799,303
Meters	499,479
Radio Upgrades	331,393
Reservoir Demolition	204,838
SCADA	92,476
Studies (Hydraulic model)	60,000
Other Projects (2 minor projects under \$50k)	19,971
Projected CWIP	\$ 14,161,175
Less Prior year's projected CWIP	(5,668,389)
Change in CWIP	\$ 8,492,787

Schedule of Change in Physical Plant & Work In Progress

Revenue Requirements for 2023 Year

	 2021 Application	 2022 Application	 2023 Application	 Change	-
Retail Operations & maintenance Depreciation Return on rate base	\$ 6,934,667 4,833,774 2,814,700	\$ 7,143,332 4,935,985 3,649,200	\$ 7,590,306 5,222,481 3,756,300	\$ 446,974 286,496 107,100	Note 1
Subtotal of above Non-rate revenue DCC Repayment	\$ 14,583,141 (174,500) (228,160)	\$ 15,728,517 (174,500) (30,596)	\$ 16,569,087 (174,500) (30,596)	\$ 840,570 - -	
Total retail	\$ 14,180,481	\$ 15,523,421	\$ 16,363,991	\$ 840,570	

Note 1: Return on rate base is calculated with reference to the long term Canada bond rate & the average debt rate.

Schedule A Asset Useful Life Assignments - PSAB

Classes:	<u>Code</u>	Asset Categories	Useful Life, Years
Land	LAND	Land & Rights of Way * (Note 1)	N/A
Building	BLDG	Building, Permanent	50
	BLOT	Building, Temporary/ Portable	20
	BLFX	Building fixture (<i>sprinklers</i>)	20
Equipment	BOAT	Boats & Marine Equipment	10
Equipment	COMP	Computer Equipment (includes software)	5
	ELEC	Electronic Equipment(<i>hydromet</i> , <i>weather stn eqpt</i>)	5
	FIRE	Fire & Safety Equipment	10
	GENT	Generator	20
	HYDR	Hydrants and Standpipes	20
	HYDY	Hydrology	10
	MTRS	Meters	20
	OFFE	Office Equipment	5
	OFFF	Office Furniture	10
	SCDA	SCADA Equipment	10
	SCRN	Intake Screens/Membranes (stop logs)	20
	SHOP	Shop Equipment	10
	TELE	Telecommunication Eqpt (radios, phone systems)	10
	WEQP	Water Works Eqpt(W.Quality lab, Wshed eqpt)	10
	NEW GRP	Weather stn & communication tower	15
Vehicle	VEHC	Vehicles	8
Engineering	BRDG	Bridge	50
Structure	CANL	Canal	50
	DAMS	Dam Structures	100
	PIPE	Pipelines, includes Vaults, Kiosks, Valve chambers	75
	PIPF	Pipelines, fittings	20
	PLPV	Parking lot paved	40
	PSEQ	Pump Station Equipment	20
	PSHS	Pump Station Housing	50
	PRVS	Valves, Flushes & PRV's	20
	RDGR	Roads gravel	20
	RDPV	Roads paved	40
	RESS	Reservoirs (steel & concrete)	50
	REST	Reservoirs (tower/tank)	35
	TANK TELP	Storage tank	40 50
	TUNN	Telephone and Power Lines Tunnel. Culvert and Diversions	50 50
	WATP	Water Treatment Plant	25
	WELL	Wet well/ Well	50
Other Assets	CSTU	Capital Management Studies	5
Julei Assets	FENC	Fences	15
	LIMP	Land & Yard Improvements	20
Note 1: Land is not depred		seful life assignment is not applicable.	20

2023 Demand Estimate

Retail Demand

	Years	Actual Demand cu.metre	Budgeted Demand cu.metre
	2017	8,595,300	8,000,000
	2018	8,853,800	8,200,000
	2019	8,911,315	8,600,000
	2020	9,345,130	8,900,000
	2021	10,270,472	8,900,000
	2022	9,375,000 1	9,300,000
2023 Demand Estimate		9,210,000 ²	

¹ Projected consumption for 2022

² Reduction of estimated demand reflects First Nations to Regional Water Supply wholesale customers

Summary of Retail Water Rates

	<u>2019</u>	2020	<u>2021</u>	2022	<u>2023</u>	Change
Retail (direct) water rate Unit cost per cu.m.	\$2.1132	\$2.2159	\$2.3081	\$2.4024	\$2.5466	\$0.1442

Retail Water Rate Increase Impact on Residential Water Bill

Average consumption per 2 month billing cycle: *

39.0

cubic meters (annual = 234.0 cu.m)

Charge for Two Months Consumption	Year		monthly Charge		Annual Charge	Α	2023 Innual Iange \$_
Average Consumption	2022 2023	\$ \$	93.69 99.32	\$ \$	562.16 595.90	\$	33.74
Half Average Consumption	2022 2023	\$ \$	46.85 49.66	\$ \$	281.08 297.95	\$	16.87
Twice Average Consumption	2022 2023	\$ \$	187.39 198.63	\$ \$	1,124.32 1,191.81	\$	67.49

CAPITAL REGIONAL DISTRICT

December 2000 IDENIA DECEMBER 2000			:	2023 BUDGET F	REQUEST			FUTURE PRO	JECTIONS	
Program Group: CRD-JDF Water Distribution SUMMARY	2022 BOARD BUDGET 2	2022 ESTIMATED ACTUAL 3	2023 CORE BUDGET 4	2023 ONGOING 5	2023 ONE-TIME 6	TOTAL (COL 4, 5 & 6)	2024	2025	2026	2027
	2	3	4	3	0	,	0	9	10	
OPERATING EXPENDITURES										
ALLOCATION - OPERATIONS OPERATING - OTHER COSTS SALARIES AND WAGES CONTRACT FOR SERVICES ALLOCATION - STANDARD OVERHEAD	4,851,535 873,371 550,949 306,485 560,992	4,851,284 825,966 442,817 303,425 560,992	5,140,686 809,318 565,643 353,087 721,571	- - - -	- - - -	5,140,686 809,318 565,643 353,087 721,571	5,243,712 791,381 577,789 352,022 736,003	5,348,790 726,573 590,193 359,069 750,723	5,455,639 696,811 602,854 366,170 765,737	5,563,825 694,739 615,802 373,552 781,052
TOTAL OPERATING EXPENDITURES	7,143,332	6,984,484	7,590,305	-	-	7,590,305	7,700,907	7,775,348	7,887,212	8,028,969
Percentage increase over prior year's board budget			6.26%			6.26%	1.46%	0.97%	1.44%	1.80%
BULK WATER PURCHASE	6,818,760	6,873,750	7,089,860	-	-	7,089,860	7,660,270	8,326,910	9,107,730	10,349,010
BULK WATER EXPENDITURES	6,818,760	6,873,750	7,089,860	-	-	7,089,860	7,660,270	8,326,910	9,107,730	10,349,010
CAPITAL EXPENDITURES &TRANSFERS TRANSFER TO WATER CAPITAL FUND TRANSFER TO DEBT RESERVE FUND TRANSFER TO EQUIPMENT REPLACEMENT FUND	6,374,922 66,380 263,494	6,738,461 4,500 263,494	3.98% 6,741,200 96,280 339,457	- - 250,000	- - -	3.98% 6,741,200 96,280 589,457	7,346,169 51,770 619,594	8,420,118 10,770 696,867	9,522,047 4,770 689,379	9,933,712 4,770 704,503
TOTAL CAPITAL EXPENDITURES & TRANSFERS	6,704,796	7,006,455	7,176,937	250,000	-	7,426,937	8,017,533	9,127,755	10,216,196	10,642,985
DEBT SERVICING DEBT - INTEREST & PRINCIPAL TOTAL DEBT EXPENDITURES	1,893,503 1,893,503	1,862,907 1,862,907	1,863,294 1,863,294	-	-	1,863,294 1,863,294	2,839,345 2,839,345	3,189,948 3,189,948	3,232,408 3,232,408	3,189,908 3,189,908
TOTAL EVERNDITURES	00 500 004	00 707 500	00 700 000	050.000		00 070 000	00.040.055	00 440 004	00 440 540	00 040 070
SOURCES OF FUNDING REVENUE - SALES REVENUE - OTHER TOTAL SOURCE OF FUNDING FROM OPERATIONS	(22,342,320) (187,475) (22,529,795)	22,727,596 (22,522,500) (174,500) (22,697,000)	23,720,396 (23,419,020) (301,376) (23,720,396)	(35,000) (215,000) (250,000)	- - - -	23,970,396 (23,454,020) (516,376) (23,970,396)	26,218,055 (25,772,485) (445,570) (26,218,055)	(28,011,005) (408,956) (28,419,961)	(30,036,116) (407,430) (30,443,546)	32,210,872 (31,798,879) (411,993) (32,210,872)
SOURCES OF OTHER FUNDING TRANSFER FROM DCC RESERVES TO FUND DCC DEBT	(30,596)	(30,596)	-	-	-	-	-	-	-	-
TRANSFER FROM PRIOR YEAR TRANSFER TO FOLLOWING YEAR	-	-	-	-	-	-	-	-	-	-
TOTAL SOURCES OF ALL FUNDING	(22,560,391)	(22,727,596)	(23,720,396)	(250,000)	-	(23,970,396)	(26,218,055)	(28,419,961)	(30,443,546)	(32,210,872)
Percentage increase over prior year's board budget			5.14%			6.25%	9.38%	8.40%	7.12%	5.81%

CAPITAL REGIONAL DISTRICT FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2023 to 2027

Service No.	2.680 JDF Water Distribution	Carry Forward from 2022	2023	2024	2025	2026	2027	TOTAL
	EXPENDITURE							
	Buildings	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Land	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Engineered Structures	\$15,445,000	\$25,715,000	\$11,510,000	\$8,355,000	\$7,705,000	\$6,355,000	\$59,640,000
	Vehicles	\$990,000	\$1,280,000	\$855,000	\$905,000	\$774,000	\$710,000	\$4,524,000
		\$16,435,000	\$26,995,000	\$12,365,000	\$9,260,000	\$8,479,000	\$7,065,000	\$64,164,000
	SOURCE OF FUNDS							
	Capital Funds on Hand	\$9,295,000	\$7,785,000	\$6,790,000	\$7,735,000	\$7,685,000	\$6,335,000	\$36,330,000
	Debenture Debt (New Debt Only)	\$0	\$9,200,000	\$4,700,000	\$600,000	\$0	\$0	\$14,500,000
	Equipment Replacement Fund	\$990,000	\$1,080,000	\$855,000	\$905,000	\$774,000	\$710,000	\$4,324,000
	Grants (Federal, Provincial)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Donations / Third Party Funding	\$0	\$2,760,000	\$0	\$0	\$0	\$0	\$2,760,000
	Reserve Fund	\$6,150,000	\$6,170,000	\$20,000	\$20,000	\$20,000	\$20,000	\$6,250,000
		\$16,435,000	\$26,995,000	\$12,365,000	\$9,260,000	\$8,479,000	\$7,065,000	\$64,164,000

CAPITAL REGIONAL DISTRICT FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2023 to 2027

Service No.	2.670/2.680 Regional Water Supply & JDF Wate	Carry Forward from 2022	2023	2024	2025	2026	2027	TOTAL
	EXPENDITURE							
	Buildings	\$0	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$400,000
	Equipment	\$1,100,000	\$1,730,000	\$530,000	\$330,000	\$330,000	\$340,000	\$3,260,000
	Land	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Engineered Structures	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Vehicles	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	- -	\$1,100,000	\$1,810,000	\$610,000	\$410,000	\$410,000	\$420,000	\$3,660,000
	SOURCE OF FUNDS							
	Capital Funds on Hand	\$1,100,000	\$1,810,000	\$610,000	\$410,000	\$410,000	\$420,000	\$3,660,000
	Debenture Debt (New Debt Only)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment Replacement Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Grants (Federal, Provincial)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Donations / Third Party Funding	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Reserve Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	-	\$1,100,000	\$1,810,000	\$610,000	\$410,000	\$410,000	\$420,000	\$3,660,000

CAPITAL REGIONAL DISTRICT 5 YEAR CAPITAL PLAN

2023 - 2027

Project Number

Project number format is "yy-##"

"yy" is the last two digits of the year the project is planned to start. "##" is a numberical value. For example, 23-01 is a project planned to start in

For projects in previous capital plans, use the same project numbers previously assigned.

Capital Expenditure Type

Study - Expenditure for feasibility and business case report.

New - Expenditure for new asset only

Renewal - Expenditure upgrades an existing asset and extends the service ability or enhances technology in delivering that service

Replacement - Expenditure replaces an existing asset

Capital Project Title

Input title of project. For example "Asset Name - Roof Replacement", "Main Water Pipe Replacement*.

Capital Project Description

Briefly describe project scope and service benefits. For example: "Full Roof Replacement of a 40 year old roof above the swimming pool area; The new roofing system

Debt = Debenture Debt (new debt only)

ERF = Equipment Replacement Fund

Res = Reserve Fund

WU - Water Utility

STLoan = Short Term Loans

meets current energy standards with an expected service life of 35 years".

Funding Source Codes

Provide the total project budget, even if it extends beyond the 5 years of this

Total Project Budget

Grant = Grants (Federal, Provincial) Cap = Capital Funds on Hand Other = Donations / Third Party Funding

Asset Class L - Land

If there is more than one funding source, use additional rows for the project. S - Engineering Structure

B - Buildings V - Vehicles

capital plan.

Carryforward from 2022

Input the carryforward amount from the 2022 capital plan that is remaining to be spent. Forecast this spending in 2023 to

Project Drivers

Maintain Level of Service = Project maintains existing or improved level of service. Advance Board or Corporate Priority = Project is a Board or Corporate priority.

Emergency = Project is required for health or safety reasons.

Cost Benefit = Project provide economic benefit to the organization.

Long-term Planning

Master Plan / Servicing Plan = Plan that identifies new assets required to meet future needs.

Asset Management Plan / Sustainable Service Delivery Plan = Integrated plan that identifies asset replacements based on level of service, criticality,

condition, risk, replacement costs as well as external impacts.

Replacement Plan = Plan that identifies asset replacements based primarily on asset age and/or asset material/type.

Condition Assessment = Assessment that identifies asset replacements based on asset condition.

Cost Estimate Class

Class A (±10-15%) = Estimate based on final drawings and specifications; used to evaluate tenders.

Class B (±15-25%) = Estimate based on investigations, studies or prelimminary design; used for budget planning. Class C (±25-40%) = Estimate based on limited site information; used for program planning.

Class D (±50%) = Estimate based on little/no site information; used for long-term planning.

Service #:

Service Name: JDF Water Distribution SECTION 1: PROJECT DESCRIPTION AND BUDGET

SECTION	I. PROJECT L	DESCRIPTION AND BUDGET											
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward from 2022	2023	2024	2025	2026	2027	5 - Year Total
INFRASTRU	JCTURE ENGIN	IEERING AND OPERATIONS											
Planning													
16-03		Asset Management Plan	Combine past studies to plan out future capital expenditures.	\$150,000	S	WU	\$0	\$50,000	\$100,000	\$0	\$0	\$0	\$150,000
21-14	Renewal	Fire Storage Analysis	Assess and update the fire flow upgrade program to inform future capital works.	\$120,000	S	WU	\$120,000	\$120,000	\$0	\$0	\$0	\$0	\$120,000
Capital													
16-05	Renewal	Comprehensive Pump Station Upgrades (10 year Program)	Continue pump station condition assessments, plan and carry out upgrades.	\$5,000,000	s	wu	\$0	\$1,000,000	\$1,000,000	\$1,000,000	\$450,000	\$0	\$3,450,000
18-02	Renewal	JDF Reservoir Upgrades	Reservoir improvements are required at the JDF Reservoirs.	\$1,250,000	S	WU	\$400,000	\$400,000	\$0	\$0	\$0	\$0	\$400,000
18-03	Renewal	JDF Site Decommissioning Program	Decommissioning of facilities that are no longer in use based on preliminary work from Annual Provisional	\$1,050,000	s	wu	\$425,000	\$425,000	\$350,000	\$100,000	\$0	\$0	\$875,000
18-05	Replacement	Rocky Point Upgrades	Replacement of Rocky Point P.S., additional storage at Rocky Point Reservoir & water main upgrades. Partnered with DND.	\$9,724,000	S	WU	\$1,300,000	\$1,300,000	\$0	\$0	\$0	\$0	\$1,300,000
18-05					S	Other	\$0	\$410,000	\$0	\$0	\$0	\$0	\$410,000
18-06	New	Disaster Response Plan for Water Supply and Distribution	Determine and supply response equipment for disaster response.	\$450,000	s	WU	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
19-06	Renewal	Corrosion Protection Program	Undertake a program to assess and prevent corrosion to existing steel pipe within the Juan du Fuca water system.	\$50,000	s	WU	\$0	\$5,000	\$5,000	\$0	\$0	\$0	\$10,000
19-09	New	Distribution System Seismic Resiliency Improvements	Determine and commence improvements to the distribution system to provide seismic resiliency.	\$1,750,000	s	wυ	\$250,000	\$250,000	\$500,000	\$500,000	\$500,000	\$0	\$1,750,000
20-03	Replacement	AC Pipe Replacement Program	Replacement of aging asbestos cement pipe as highlighted in the 2019 update report	\$25,200,000	S	WU	\$0	\$3,000,000	\$3,300,000	\$3,300,000	\$3,300,000	\$3,300,000	\$16,200,000
20-04	Replacement	William Head & VGH Meter Replacement	Replacement of the meter and chambers at William Head & VGH with the possibility of resilient connections.	\$700,000	s	WU	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$200,000
20-07	Replacement	Goldstream AC Replacement	Replacement of aging asbestos cement pipe within Goldstream Rd, fromVMP to Spencer.	\$5,800,000	S	WU	\$5,200,000	\$5,200,000	\$0	\$0	\$0	\$0	\$5,200,000
21-02	Replacement	Sooke Rd - 2,200m of 600m Pipe - VMP to Jacklin	Replacement of aged, large diameter water main from Jacklin Rd to VMP	\$3,000,000	S	WU	\$200,000	\$200,000	\$2,800,000	\$0	\$0	\$0	\$3,000,000
21-13	Replacement	SCADA Master Plan Update & Upgrades	Update the SCADA Master Plan in conjunction with the RWS, Saanich Peninsula and Core Area infrastructure.	\$1,800,000	s	WU	\$600,000	\$900,000	\$300,000	\$300,000	\$300,000	\$0	\$1,800,000
22-01	New	East Sooke Interconnect Water Main	Construction approximately 430 m of watermain for system improvements.	\$500,000	S	WU	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$500,000
22-02	New	Microwave Radio Upgrades	Installation of high-bandwidth microwave radio infrastructure to accommodate CRD infrastructure	\$550,000	S	WU	\$100,000	\$200,000	\$100,000	\$100,000	\$100,000	\$0	\$500,000
23-03	New	Seagirt Watermain Extension	Seagirt water system is being replaced as part of inclusion into the JDF system.	\$2,350,000	S	Other	\$0	\$2,350,000	\$0	\$0	\$0	\$0	\$2,350,000
0 1 7 / 12				Ama 444 05 -			40 005 00-	A40 500 05-	A0 F0F 00-	AE 050 05-	A 4 700 05 -	A0 050 05-	000 105 0
Sub-rotal S	system infrastri	ucture Engineering and Operations		\$59,444,000			\$9,295,000	\$16,560,000	\$8,505,000	\$5,350,000	\$4,700,000	\$3,350,000	\$38,465,000 \$0
CUSTOME	R AND TECHNIC	CAL SERVICES											\$0
16-06	Replacement	Vehicle & equipment replacement (funding from replacement fund)	Vehicle and equipment replacement.	\$2,094,000	V	ERF	\$990,000	\$1,080,000	\$855,000	\$905,000	\$774,000	\$710,000	\$4,324,000
23-02	New	Vehicle to support the meter replacement program	Purchase of a Transit Van equiped with tools and equipment to support the meter replacement program	\$200,000	v	WU	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000
		· -											\$0
Sub-Total C	ustomer and T	echnical Services		\$2,294,000			\$990,000	\$1,280,000	\$855,000	\$905,000	\$774,000	\$710,000	\$4,524,000

Service #:

Service Name: JDF Water Distribution

SECTION	1: PROJECT	DESCRIPTION AND BUDGET											
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward from 2022	2023	2024	2025	2026	2027	5 - Year Total
ANNII AL D	ROVISIONAL IT	FEMO											\$0 \$0
17-07	New	Site Decommissioning - General	Planning for decommissioning of unused sites.	\$50,000	S	WU	\$0	\$10.000	\$10.000	\$10,000	\$10.000	\$10,000	\$50.000
17-07	Replacement		Maior main replacement under emergencies.	\$50,000	S	WU	\$0	\$10,000	\$100.000	\$100.000	\$100.000	\$10,000	\$500,000
17-12	Replacement	Large Meters/Meter Vaults Components Replacement	Replacement or repairs to components in large meters/vaults as required.	\$1,250,000	s	WU	\$0	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000
17-13	New	Site Security Upgrades	Upgrading and replacement of security systems for sites as required.	\$200,000	S	WU	\$0	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$200,000
17-15	Renewal	Distribution System Improvements	Unplanned distribution system improvements.	\$2,250,000	S	WU	\$0	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,250,000
17-16	New	Hydraulic Model Yearly Update	Annual hydraulic model update.	\$300,000	S	WU	\$0	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$300,000
21-03	Replacement	Hydrant & Flush Replacement, Upgrades and Additions	Upgrade, replacement or installation of flushes and fire hydrants, and fire flow testing.	\$1,125,000	s	WU	\$0	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$1,125,000
21-04	Replacement	Residential Service & Meter Replacement	Replacement of residential water meters as highlighted by the 2017 KWL Water Audit report.	\$6,500,000	S	WU	\$0	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$6,500,000
21-05	Replacement	Pump Station Equipment Replacements	Unplanned pump station repairs and equipment replacement	\$750,000	S	WU	\$0	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
21-06	Replacement	SCADA Equipment Replacement	Unplanned replacement of SCADA and electrical equipment.	\$500,000	S	WU	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
21-07	Renewal	Reservoir Equipment Replacement	Replacement or repairs to components at reservoir sites.	\$500,000	S	WU	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
21-09	Replacement	Valve Replacement	Unplanned replacement and repair of isolation and line valves, air valves, and pressure control valves.	\$1,000,000	S	WU	\$0	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
Sub-Total f	for Annual Prov	isional Items		\$14,925,000			\$0	\$2,985,000	\$2,985,000	\$2,985,000	\$2,985,000	\$2,985,000	\$14,925,000
DE1/E1 001		LABOR (BOO)											\$0
16-07	New	Update DCC Bylaw (Comprehensive Update in 2022)	Planned update of the DCC Bylaw.	\$295,000	s	Res	\$150,000	\$170,000	\$20,000	\$20,000	\$20,000	\$20,000	\$0 \$250,000
21-01	New	Sooke Henlyn Supply & Distribution Mains	Construction of water mains based upon development predictions from the Helgesen Pump Station westwards.	\$1,000,000	s	Res	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000
23-01	New	Tank 4 and McCallum Pump Station (2020-2021) and Pump Station 7 and remaining Supply Main to Skirt Mtn Reservoir (2022)	Upgrades to complete the South Skirt Water System	\$9,110,000	s	Res	\$5,000,000	\$5,000,000	\$0	\$0	\$0	\$0	\$5,000,000
					_						******		\$0
Sub-Total f	for Developmer	nt Cost Charges (DCC)		\$10,405,000			\$6,150,000	\$6,170,000	\$20,000	\$20,000	\$20,000	\$20,000	\$6,250,000
			GRAND TOTAL	\$87,068,000			\$16,435,000	\$26,995,000	\$12,365,000	\$9,260,000	\$8,479,000	\$7,065,000	\$64,164,000

CAPITAL REGIONAL DISTRICT **5 YEAR CAPITAL PLAN**

2023 - 2027

Project Number

Project number format is "yy-##"

"yy" is the last two digits of the year the project is planned to start. "##" is a numberical value. For example, 23-01 is a project planned to start in

For projects in previous capital plans, use the same project numbers previously assigned.

Capital Expenditure Type

Study - Expenditure for feasibility and business case report.

New - Expenditure for new asset only

Renewal - Expenditure upgrades an existing asset and extends the service ability

or enhances technology in delivering that service **Replacement** - Expenditure replaces an existing asset

Capital Project Title

Service #:

Input title of project. For example "Asset Name - Roof Replacement", "Main Water Pipe Replacement".

Capital Project Description

capital plan.

Asset Class

B - Buildings

V - Vehicles

S - Engineering Structure

L - Land

Briefly describe project scope and service benefits.

For example: "Full Roof Replacement of a 40 year old roof above the swimming pool area; The new roofing system meets current energy standards with an expected service life of 35 years".

Carryforward from 2022

Input the carryforward amount from the 2022 capital plan that is remaining to be spent. Forecast this spending in 2023 to 2027.

Project Drivers

Maintain Level of Service = Project maintains existing or improved level of service. **Advance Board or Corporate Priority** = Project is a Board or Corporate priority. **Emergency** = Project is required for health or safety reasons.

Cost Benefit = Project provide economic benefit to the organization.

Funding Source Codes Total Project Budget

Provide the total project ERF = Equipment Replacement Fund budget, even if it extends beyond the 5 years of this

Grant = Grants (Federal, Provincial) Cap = Capital Funds on Hand

Other = Donations / Third Party Funding

Debt = Debenture Debt (new debt only)

Res = Reserve Fund

STLoan = Short Term Loans

WU - Water Utility

If there is more than one funding source, use additional rows for the project.

Long-term Planning

Master Plan / Servicing Plan = Plan that identifies new assets required to meet future needs.

Asset Management Plan / Sustainable Service Delivery Plan = Integrated plan that identifies asset replacements based on level of service, criticality,

condition, risk, replacement costs as well as external impacts.

Replacement Plan = Plan that identifies asset replacements based primarily on asset age and/or asset material/type.

Condition Assessment = Assessment that identifies asset replacements based on asset condition.

Cost Estimate Class

Class A (± 10 -15%) = Estimate based on final drawings and specifications; used to evaluate tenders.

Class B ($\pm 15-25\%$) = Estimate based on investigations, studies or prelimminary design; used for budget planning.

Class C ($\pm 25-40\%$) = Estimate based on limited site information; used for program planning.

Class D (\pm 50%) = Estimate based on little/no site information; used for long-term planning.

Service Name: Regional Water Supply & JDF Water Distribution Combo

SECTION 1: PROJECT DESCRIPTION AND BUDGET

Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward from 2022	2023	2024	2025	2026	2027	5 - Year Total
SYSTEM R	EPLACEMENT	AND UPGRADES THAT BENEFIT REGIONAL WA	ATER SUPPLY AND JUAN DE FUCA DISTRIBUTION										
16-01	Renewal	Upgrades to Buildings at 479 Island Highway	Maintenance and changes to buildings and office layouts.	\$320,000	В	WU	\$0	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$400,000
17-01	Renewal	Voice Radio Upgrade	Replacement of end of life voice radio system repeaters, office, vehicle and handheld radios.	\$1,560,000	Е	WU	\$1,000,000	\$1,300,000	\$200,000	\$0	\$0	\$0	\$1,500,000
20-01	New	Portable Pump Station	Portable pump station and generator to provide backup when a pump station is offline, in construction or to bypass a section of pipe.	\$750,000	E	WU	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$50,000
Sub-Tota	al System Rep	lacement and Upgrades That Benefit Regional W	ater Supply and Juan de Fuca Distribution	\$2,630,000			\$1,050,000	\$1,430,000	\$280,000	\$80,000	\$80,000	\$80,000	\$1,950,000
ANNULAL D	BOVIEIONAL (L CAPITAL ITEMS											\$0
ANNUAL P	KOVISIONAL (CAPITAL ITEMS											\$0
17-03	Replacement	Office Equipment, Upgrades and Replacements	Upgrade and replacement of office equipment as required.	\$225,000	Е	WU	\$0	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$225,000
17-04	Replacement	Computer Upgrades	Annual upgrade and replacement program for computers, copiers, printers, network equipment as required.	\$850,000	E	WU	\$0	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$850,000
17-05	New	Development of the Maintenance Management Systems	Develop maintenance management system.	\$100,000	Е	WU	\$50,000	\$70,000	\$20,000	\$20,000	\$20,000	\$30,000	\$160,000
17-06	Replacement	Small Equipment & Tool Replacement (Water Operations)	Replacement of tools and small equipment for Water Operations as required.	\$400,000	E	WU	\$0	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$400,000
17-07	Replacement	Small Equipment & Tool Replacement (Corporate Fleet)	Replacement of tools and small equipment for Fleet as required.	\$75,000	Е	WU	\$0	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$75,000
_													\$0
													\$0
													\$0
Sub-Tota	al for Annual P	Provisional Capital Items		\$1,650,000			\$50,000	\$380,000	\$330,000	\$330,000	\$330,000	\$340,000	\$1,710,000
			GRAND TOTAL	\$4,280,000			\$1,100,000	\$1,810,000	\$610,000	\$410,000	\$410,000	\$420,000	\$3,660,000

Service: 2.680 **JDF Water Distribution** 16-03 Asset Management Plan Combine past studies to plan out future capital expenditures. **Project Number** Capital Project Title **Capital Project Description** Project Rationale Several studies have been completed and are in progress to assess the JDF assets and programs and the proposed Strategic Asset Management Plan will consolidate the findings of the previous studies in a comprehensive approach to identify and prioritizes future capital expenditures and programs. 21-14 Fire Storage Analysis Assess and update the fire flow upgrade program to inform future capital works. Capital Project Title **Project Number Capital Project Description** Project Rationale In order to meet Fire Underwriters Survey recommendations for fire protection, it is necessary to provide certain volumes of water storage. It is proposed to assess fire storage volume requirements for different parts of the system and determine any required upgrades. Funding is required to retain a consultant to complete the analysis. 16-05 Continue pump station condition Capital Project Title Comprehensive Pump Station Upgrades (10 year Program) **Project Number** Capital Project Description assessments, plan and carry out upgrades. Project Rationale A previous capital project was completed by Delcan Corp. in 2012 which assessed each existing pump station and identified building deficiencies. This study concluded that on average approximately \$1.0M per year for the next ten years is needed to upgrade existing pump stations. Design and construction of the Ludlow Pump Station replacement was undertaken in 2020 and 2021. Ludlow has been delayed due to supply chain issues until late in 2022. Funds in 2023 are for design of and to start construction of the Coppermine PS and Bear Mountain PS #1. 18-02 JDF Reservoir Upgrades Reservoir improvements are required at the JDF Reservoirs. **Project Number** Capital Project Title **Capital Project Description** Project Rationale Numerous deficiencies at the Walfred, Peacock and Helgesen reservoirs have been identified while operating the infrastructure. In 2021 planning and design of improvements such as valve reconfiguration, site drainage and controls will be undertaken in 2022 at the Peacock, Helgesen and Walfred reservoirs. Effort carrying forward in 2023 will be the completion of Walfred. All other works are complete.

ervice:	2.680	JDF Water Distribution			
Project Number	18-03	Capital Project Title	JDF Site Decommissioning Program		Decommissioning of facilities that are no longer in use based on preliminary work from Annual Provisional
•		e decomission of the sites and then demo	ave been decommissioned within the JDF system lish them. In 2021 the Treanor pump station dem		
Project Number	18-05	Capital Project Title	Rocky Point Upgrades	Capital Project Description	Replacement of Rocky Point P.S., additional storage at Rocky Point Reservoir & water main upgrades. Partnered with DND.
-		osin water users and the expected increas	ting Rocky Point Pump Station, storage tank and e in flow associated with the Spirit Bay Developm		
Project Number	18-06	Capital Project Title	Disaster Response Plan for Water Supply and Distribution		Determine and supply response equipment for disaster response.
Project Number			Supply and Distribution	Capital Project Description	equipment for disaster response.
Project Number Project Rationale	Proposed work includes developing	g a response plan to disasters to the Juar	Supply and Distribution of the function of th	Capital Project Description unds are required to procure e	equipment for disaster response.

Service:	2.680	JDF Water Distribution			
Project Number	19-09	Capital Project Title	Distribution System Seismic Resiliency Improvements	Capital Project Description	Determine and commence improvements to the distribution system to provide seismic resiliency.
Project Rationale	Determine and commence improve	ements to the distribution system to provid	le resiliency. In 2023, sites will be prioritized	with design commencing in 2024	and construction starting in 2024.
Project Number	20-03	Capital Project Title	AC Pipe Replacement Program		Replacement of aging asbestos cement pipe as highlighted in the 2019 update report
•	criteria as age, pipe material, recoi		entified in the Water Main Upgrading and Re long-term replacement program was develo cipated construction costs.		
Project Number	20-04	Capital Project Title	William Head & VGH Meter Replacement		Replacement of the meter and chambers at William Head & VGH with the possibility of resilient connections.
Project Rationale			al Hospital meters require replacement and r tion of the meters while maintaining service.		
	20-07		Goldstream AC Replacement		Replacement of aging asbestos cement pipe within Goldstream Rd, fromVMP to
Project Number		Capital Project Title		Capital Project Description	Spencer.
Project Rationale	The existing water main within Gol transmission main and complexity	dstream Rd, from VMP to Spencer Rd, is	aging asbestos cement and identified as a ric carried out within the AC Replacement Prog completed in 2023 by CRD forces.	isk for failure. Due to the numero	us large connections to the RWS

ervice:	2.680	JDF Water Distribution			
Project Number	21-02	Capital Project Title	Sooke Rd - 2,200m of 600m Pipe - VMP to Jacklin	Capital Project Description	Replacement of aged, large diameter water main from Jacklin Rd to VMP
Project Rationale	replacement. In 2014, the design	of both phases of the water main was con	eel pipe along Sooke Road and Allendale Ro npleted by a consultant and construction of t ion assessment to determine whether this pr	the main from Wishart to VMP wa	s completed by CRD resources. Due to
Project Number	22-01	Capital Project Title	East Sooke Interconnect Water Main	Capital Project Description	Construction approximately 430 m of watermain for system improvements.
Project Rationale	Funds are required to design an the area.	d construct approximatly 430 m of a ne	ew watermain interconnection in East Soc	oke. Interconnection will provi	de redundancy and improve flows in
Project Number	22-02	Capital Project Title	Microwave Radio Upgrades	Capital Project Description	Installation of high-bandwidth microwave radio infrastructure to accommodate CRD infrastructure
•				Capital Project Description	radio infrastructure to accommodate CRD
-	Installation of high-bandwidth n	Capital Project Title		Capital Project Description Capital Project Description	radio infrastructure to accommodate CRD

Service:	2.680	JDF Water Distribution			
Project Number	17-07	Capital Project Title	Site Decommissioning - General	Capital Project Description	Planning for decommissioning of unused sites.
Project Rationale	This is a provisional item to allow e	engineering and planning reviews of old fa	cilities with a view to possible future site uses.		
Project Number	17-09	Capital Project Title	Emergency Main Replacement	Capital Project Description	Major main replacement under emergencies.
Project Rationale	This item is to fund the costs of res	sponding to emergency major main break	s and conducting replacements.		
Project Number	17-12	Capital Project Title	Large Meters/Meter Vaults Components Replacement	Capital Project Description	Replacement or repairs to components in large meters/vaults as required.
Project Rationale	This is an annual provision for the	replacement of obsolete and worn out lare	ge (greater than 2" diameter) meters, adding ne	ew meters and upgrading met	er vaults.
Project Number	17-13	Capital Project Title	Site Security Upgrades	Capital Project Description	Upgrading and replacement of security systems for sites as required.
		grading and maintaining equipment, secul pe modified to provide a larger degree of	rity and control systems at distribution facilities security.	such as pump stations, PRV o	chambers and reservoirs. Items such as

ervice:	2.680	JDF Water Distribution			
Project Number	17-15	Capital Project Title	Distribution System Improvements		Unplanned distribution system improvements.
Project Rationale			not specifically identified and budgeted. Thi elopment and taking advantage of opportun		
Project Number	17-16	Capital Project Title	Hydraulic Model Yearly Update	Capital Project Description	Annual hydraulic model update.
Project Rationale	This item is required to input the p purposes.	ipes installed that year into the hydraulic o	computer model, followed by calibration and	testing in order to keep the mode	l up to date for design and planning
Project Number	21-03	Capital Project Title	Hydrant & Flush Replacement, Upgrades and Additions		Upgrade, replacement or installation of flushes and fire hydrants, and fire flow testing.
Project Rationale	This is an annual provision for repl or fire departments.	lacing old and outdated hydrants, flushes	and associated works and access, as well a	s adding new hydrants to the sys	tem where requested by the municipalities
Project Number	21-04	Capital Project Title	Residential Service & Meter Replacement		Replacement of residential water meters as highlighted by the 2017 KWL Water Audit report.
Desired Dediesels	This is an annual provision for repl	lacing failed residential services and mete	rs, as well as proactively replacing services	and meters in areas with historic	ally large number of breaks.

Service:	2.680	JDF Water Distribution			
Project Number	21-05	Capital Project Title	Pump Station Equipment Replacements	Capital Project Description	Unplanned pump station repairs and equipment replacement
Project Rationale	This is an annual provision for unp	lanned pump station repairs and equipme	ent replacement.		
Project Number	21-06	Capital Project Title	SCADA Equipment Replacement	Capital Project Description	Unplanned replacement of SCADA and electrical equipment.
Project Rationale	This is an annual provision for unp	lanned SCADA and electrical equipment i	eplacement.		
Project Number	21-07	Capital Project Title	Reservoir Equipment Replacement	Capital Project Description	Replacement or repairs to components at reservoir sites.
Project Rationale	This is an annual provisional for ur	nplanned replacement of equipment, such	as safety devices and mechanical fittings,	, at reservoir sites.	
Project Number	21-09	Capital Project Title	Valve Replacement	Capital Project Description	Unplanned replacement and repair of isolation and line valves, air valves, and pressure control valves.
Project Rationale	This is an annual provisional for ur	nplanned replacement of valves, including	air valves and check valves.		

ervice:	2.680	JDF Water Distribution			
Project Number	16-07	Capital Project Title	Update DCC Bylaw (Comprehensive Update in 2022)	Capital Project Description	Planned update of the DCC Bylaw.
	This is a provisional item to cover in 2017, with the next update sche		onsultants for advice. Every 5 years a comp	rehensive update is required and	the previous DCC update was completed
Project Number	21-01	Capital Project Title	Sooke Henlyn Supply & Distribution Mains	Capital Project Description	Construction of water mains based upon development predictions from the Helgesen Pump Station westwards.
			ion water mains connected to the Helgesen elopment proceeds towards the proposed He		sly constructed in 2011 as part of the DCC
Project Number	23-01	Capital Project Title	Tank 4 and McCallum Pump Station (2020-2021) and Pump Station 7 and remaining Supply Main to Skirt Mtn Reservoir (2022)	Capital Project Description	Upgrades to complete the South Skirt Water System
Project Rationale	Design and construct Tank 4 Pur	Otation 7 Magallum Duman Otation and			
	g., 1, 1 (II)	np Station 7, McCallium Pump Station and	remaining supply main to the Skirt Mountai	n Reservoir based upon developr	ment and demand.
,	23-02	Capital Project Title	remaining supply main to the Skirt Mountain Vehicle to support the meter replacement program	n Reservoir based upon developr	Purchase of a Transit Van equiped with tools and equipment to support the meter

Service:	2.680	JDF Water Distribution			
Project Number	23-03	Capital Project Title	Seagirt Watermain Extension		Seagirt water system is being replaced as part of inclusion into the JDF system.
Project Rationale	The Seagirt Improvement District i	s being included in the JDF Service. The	distribution system is being replaced to m	neet JDF standards and is being fun	ded by the Improvement District.

Service: 2.670/2.680 Regional Water Supply & JDF Water Distribution Combo 16-01 Upgrades to Buildings at 479 Island Maintenance and changes to buildings and Highway office lavouts. **Project Number Capital Project Title Capital Project Description** Project Rationale The budget includes the following funds to upgrade and renew the buildings at 479 Island Highway: • Repairs, upgrades and changes to the buildings (provisional \$50,000) Painting of the buildings. (provisional \$10,000 annually) • Repair and replacement of carpets, floors and walls. (provisional \$10,000 annually) Repair, refurbishment and replacement of equipment and property. (provisional \$10,000 annually) 17-01 Voice Radio Upgrade Replacement of end of life voice radio system repeaters, office, vehicle and **Project Number** Capital Project Title Capital Project Description handheld radios. Project Rationale Service Life and projected replacement: • The service life of the mobile and portable units was forecast as 10 years at minimum, 15 years at maximum in 2005. • The present radio models used in the system have just been taken out of production by the manufacturer, there will be no new units available for purchase as of July 1, 2015. • Support for repairs and maintenance of the present radio will continue for the next 3 years at least. • There are no pressing issues with equipment maintenance or repairs, present repair rates suggest we can maintain the system for the next few years, and perhaps reach a 12-15 year lifespan on Portable pump station and generator to Capital Project Description provide backup when a pump station is offline, in construction or to bypass a Project Number 20-01 Capital Project Title Portable Pump Station section of pipe. Project Rationale The RWS and JdF operation numerous water mains and pump stations. There are situations, when a pump station fails, construction of a pump station or bypassing a section of pipe, where a portable pump station with a generator is required to maintain the level of service. Funds will be used in 2020 to design and in 2021 to procure a portable pump station and generator. 17-03 Office Equipment, Upgrades and Upgrade and replacement of office Replacements equipment as required. **Capital Project Title Project Number Capital Project Description** Project Rationale Funds will be used for the replacement and upgrading of office equipment and furniture, as required.

Service: 2.670/2.680 Regional Water Supply & JDF Water Distribution Combo Annual upgrade and replacement program Project Number 17-04 Capital Project Title Computer Upgrades Capital Project Description for computers, copiers, printers, network equipment as required. Project Rationale This is an annual upgrading and replacement program of computers, photocopiers, network, monitoring and associated equipment, as required. This item has been increased from \$160,000 to \$170,000 annually to reflect actual costs. Capital Budget Network Switch Maintenance \$10,000 Additional Wireless Access Points and Maintenance \$15,000 Photocopier Replacement \$20,000 Additional Data Storage \$15,000 Replacement Computers \$75,000 Equipment Maintenance (contingency) \$23,000 Replace Access Control System - Gates/ Video Cameras \$12,000

		system.	Deve syste Capital Project Description	Development of the Maintenance Management Systems	Capital Project Title		Project Number
(Water Operations) Project Number Capital Project Title Capital Project Description for Water Operations as no Capital Project Description	Develop and	r the following projects:- Develop	proposed that funds be approved for the				
oject Rationale Funds will be used for replacement of a variety of Operations and Welding equipment such as cutting saws, portable generators, gas detectors, Hilti drills,plasma cutter, wire welder,		Replacement of tools and small of for Water Operations as required	for V	(Water Operations)	Capital Project Title	17-06	
	, etc.	asma cutter, wire welder, etc.	enerators, gas detectors, Hilti drills,plasm	quipment such as cutting saws, portable g	of a variety of Operations and Welding e	Funds will be used for replacement	oject Rationale
Project Number 17-07 Capital Project Title Small Equipment & Tool Replacement (Corporate Fleet) Capital Project Description Replacement for Fleet as required.	ıd small equipment	Replacement of tools and small of for Fleet as required.	Capital Project Description For F		Capital Project Title	17-07	Project Number

2.680 Juan de Fuca Water Distribution Summary Schedule 2023 - 2027 Financial Plan

Asset Profile

Juan de Fuca Water Distribution

Juan de Fuca assets include lands, office buildings, pump stations, pipe lines, meters, equipment, vehicles and other infrastructure.

Reserve/Fund Summary

	Estimated			Budget		
	2022	2023	2024	2025	2026	2027
DCC Reserve Account	10,029,191	6,059,191	8,239,191	10,419,191	12,599,191	14,799,191
Equipment Replacement Fund	792,405	463,862	356,706	284,323	315,802	416,805
Total	10,899,202	6,600,661	8,673,507	10,781,126	12,992,607	15,293,612

2.680 Juan de Fuca Water Distribution Development Cost Charges 2023 - 2027 Financial Plan

Development Cost Charges Reserve Schedule

Reserve Fund: Development Cost Charges for Juan de Fuca Water Distribution (Bylaw # 2758)

Fund: 1055 Fund Center: 101532	Estimated			Budget		
	2022	2023	2024	2025	2026	2027
Beginning Balance	13,147,386	10,029,191	6,059,191	8,239,191	10,419,191	12,599,191
Transfer to Cap Fund to fund DCC projects Payment of P&I on LA 3164 Payment of DCC liability	(5,477,600) (30,595)	(6,170,000) -	(20,000)	(20,000)	(20,000)	-
DCC's received From Member Municipalities Interest Income*	2,200,000 190,000	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000
Ending Balance \$	10,029,191	6,059,191	8,239,191	10,419,191	12,599,191	14,799,191

General Comments:

Development Cost Charges Reserve Funds for Juan de Fuca Water Distribution was adopted in year 2000 for the purpose of providing funds for the capital costs of water facilities in the service areas.

These Reserve funds are received from Member Municipalities as Development Cost Charges (DCC's) to provide for the capital costs attributable to water sytem capacity improvements projects specified in the DCC capital expenditure program. Municipalities collect these DCC charges through building permits that are issued to developers for subdivision development.

Future years DCC's received from member municipalities are difficult to predict, due to unknown development activity in the Municipalities, influenced by market conditions. Estimates based on recent annual collections of DCCs, and the cyclical nature of property development.

^{*} Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

2.680 Juan de Fuca Water Distribution Equipment Replacement Reserve 2023 - 2027 Financial Plan

Equipment Replacement Reserve Schedule

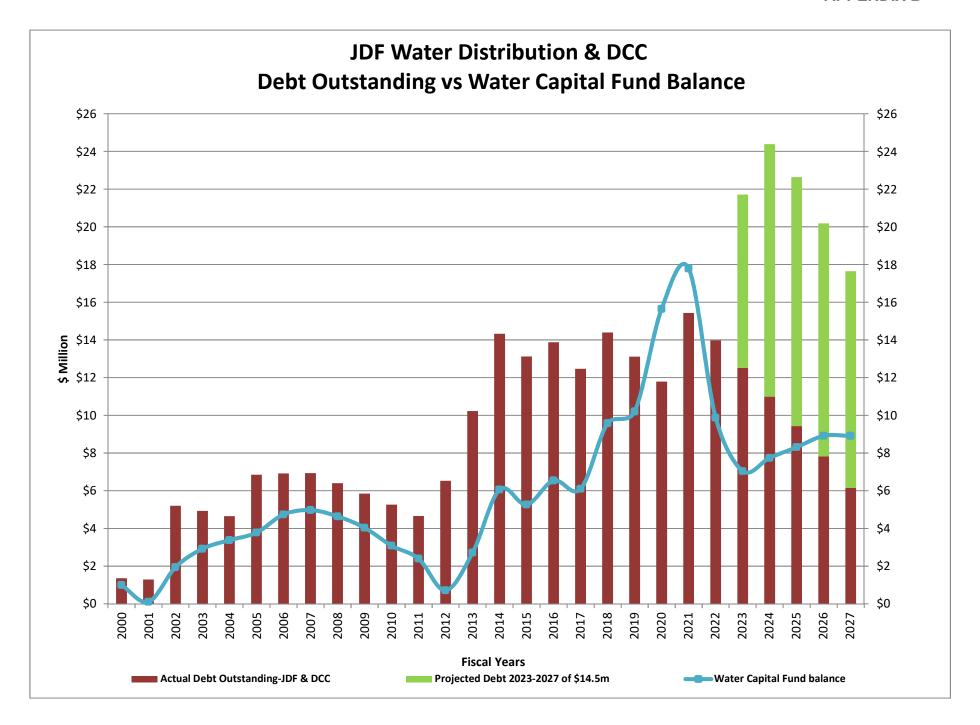
Reserve Fund: Juan de Fuca Distribution Equipment Replacement Reserve (covered by CRD-ERF Bylaw)

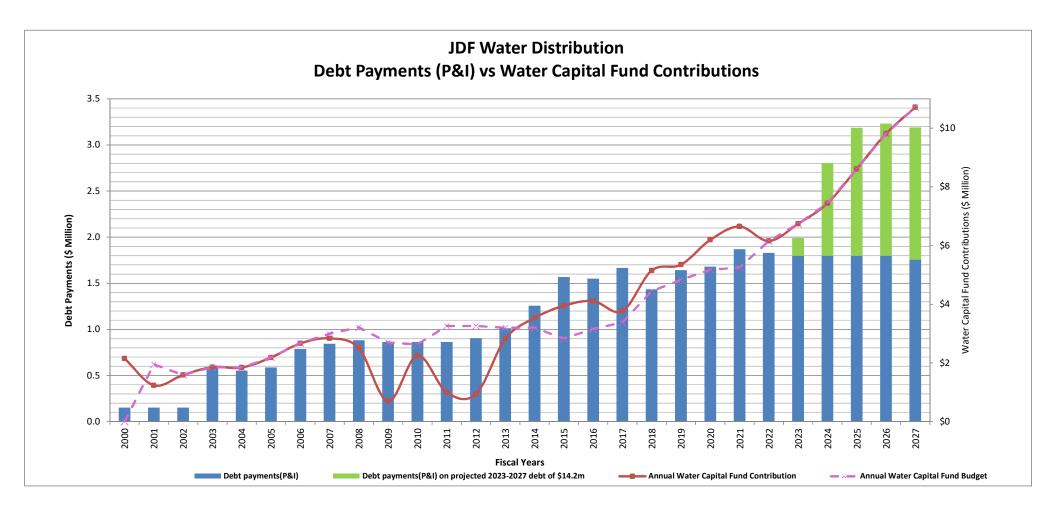
Fund: 1022 Fund Center: 101630	Actual	Estimated			Budget		
	2021	2022	2023	2024	2025	2026	2027
Beginning Balance	556,248	585,011	792,405	463,862	356,706	284,323	315,802
Equipment purchases (Based on Capital Plan)	(232,664)	(70,000)	(1,080,000)	(855,000)	(905,000)	(774,000)	(710,000)
Transfer from Operating Budget Proceeds on disposals	258,003	263,494 10,500	589,457 162,000	619,594 128,250	696,867 135,750	689,379 116,100	704,503 106,500
Interest Income*	3,424	3,400					
Ending Balance \$	585,011	792,405	463,862	356,706	284,323	315,802	416,805

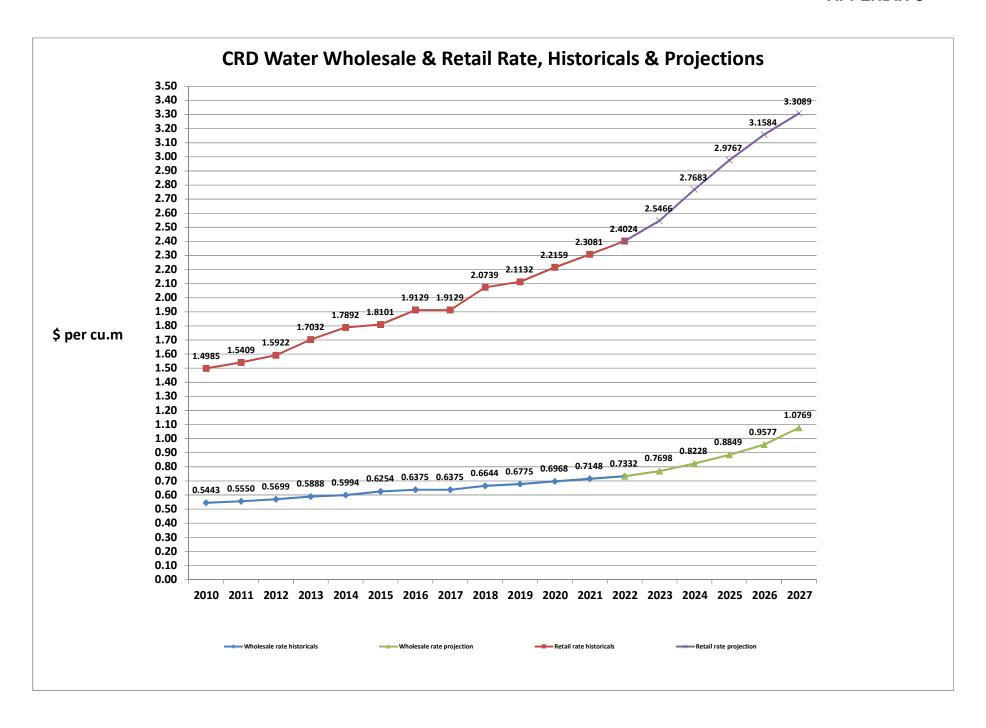
General Comments:

Reserve Fund is used for the purpose of replacing fleet vehicles including heavy equipment and associated mobile components, as outlined in the capital plan. Proceeds from disposals are estimated at 15% of replacement equipment purchases. Note not all vehicles are sold within the year in which they are replaced.

^{*} Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.







APPENDIX D

				BUDGET I	REQUEST			FUTURE PRO	JECTIONS	
2.682 - Seagirt Water System	2 BOARD	022 ESTIMATED	CORE	20	23					
- \$2.1M Water System Upgrade	BUDGET	ACTUAL	BUDGET	ONGOING	ONE-TIME	TOTAL	2024	2025	2026	2027
<u>DEBT</u>										
Water Purchase	-	-	43,453	-	-	43,453	-	-	-	-
Debt Reserve Fund	-	-	-	-	-	-	21,000	-	-	-
MFA Principal Payment	-	-		-	-		04.050	61,480	61,480	61,480
MFA Interest Payment	-	-	63,000	-	-	63,000	94,850	102,900	102,900	102,900
TOTAL DEBT	-	-	106,453		-	106,453	115,850	164,380	164,380	164,380
REQUISITION - PARCEL TAX	-	-	(106,453)	-	-	(106,453)	(115,850)	(164,380)	(164,380)	(164,380)
Percentage increase over prior year Requisition							8.8%	41.9%	0.0%	0.0%



REGIONAL WATER SUPPLY COMMISSION Wednesday, July 20, 2022 at 11:30 AM

MEETING HOTSHEET (ACTION LIST)

The following is a quick snapshot of the <u>FINAL</u> **Regional Water Supply Commission** decisions made at the meeting. The minutes will represent the official record of the meeting.

3. ADOPTION OF MINUTES

That the minutes of the June 15, 2022 meeting be adopted.

CARRIED

7. COMMISSION BUSINESS

3.1. Summary of Feedback - 2022 Regional Water Supply Service Master Plan

That the Regional Water Supply Commission:

- 1. Approve the 2022 Master Plan, as a guide to future water supply planning; and
- 2. Recommend that the Capital Regional District Board approve the 2022 Master Plan, as a guide to future water supply planning.

CARRIED

Motion Arising:

That the recommendation to approve be postponed to the next meeting to allow commissioners the opportunity to read the 2022 Master Plan, to ensure that the Plan is published on a Commission agenda and to allow the Malahat nation the opportunity to comment on the plan.

FAILED

Action:

That staff include the complete 2022 Master Plan report in the package being presented to the Board.

3.2. Bylaw No. 4509, "Capital Regional District Greater Victoria Water Supply Area Protection Bylaw No. 1, 2000, Amendment Bylaw No. 2, 2022"

The Regional Water Supply Commission recommends to the Capital Regional District Board:

- 1. That Bylaw No. 4509, "Capital Regional District Greater Victoria Water Supply Area Protection Bylaw No. 1, 2000, Amendment Bylaw No. 2, 2022", be introduced and read a first, second, and a third time.
- 2. That Bylaw No. 4509 be adopted.

CARRIED

45

Regional Water Supply Commission Hotsheet – Wednesday, July 20, 2022

2

3.3. Greater Victoria Water Supply Area 2022 Public and School Tours Summary RECEIVED

3.4. Summary of Recommendations from Other Water Commissions

RECEIVED

3.5. Water Watch Report

RECEIVED

File No. 902-03

CAPITAL REGIONAL DISTRICT - INTEGRATED WATER SERVICES Water Watch

Issued August 29, 2022

Water Supply System Summary:

1. Useable Volume in Storage:

Reservoir	August 31 5 Year Ave				Augus	% Existing Full Storage	
	ML	MIG	ML	MIG	ML	MIG	
Sooke	68,236	15,012	64,685	14,231	75,645	16,642	81.6%
Goldstream	5,843	1,286	6,622	1,457	9,004	1,981	90.8%
Total	74,079	16,297	71,307	15,688	84,649	18,623	82.5%

2. Average Daily Demand:

For the month of August	210.7 MLD	46.36 MIGD
For week ending August 28, 2022	205.5 MLD	45.21 MIGD
Max. day August 2022, to date:	240.1 MLD	52.81 MIGD

3. Average 5 Year Daily Demand for August

Average (2017 - 2021) 198.5 MLD ¹ 43.67 MIGD ²

¹MLD = Million Litres Per Day ²MIGD = Million Imperial Gallons Per Day

4. Rainfall August:

Average (1914 - 2021): 29.1 mm

Actual Rainfall to Date 1.3 mm (4% of monthly average)

5. Rainfall: Sep 1- Aug 28

Average (1914 - 2021): 1,628.7 mm

2021 - 2022 2,033.0 mm (125% of average)

6. Water Conservation Action Required:

CRD's Stage 1 Water Conservation Bylaw is now in effect through September 30, 2022. Visit our website at www.crd.bc.ca/water for scheduling information.

If you require further information, please contact:

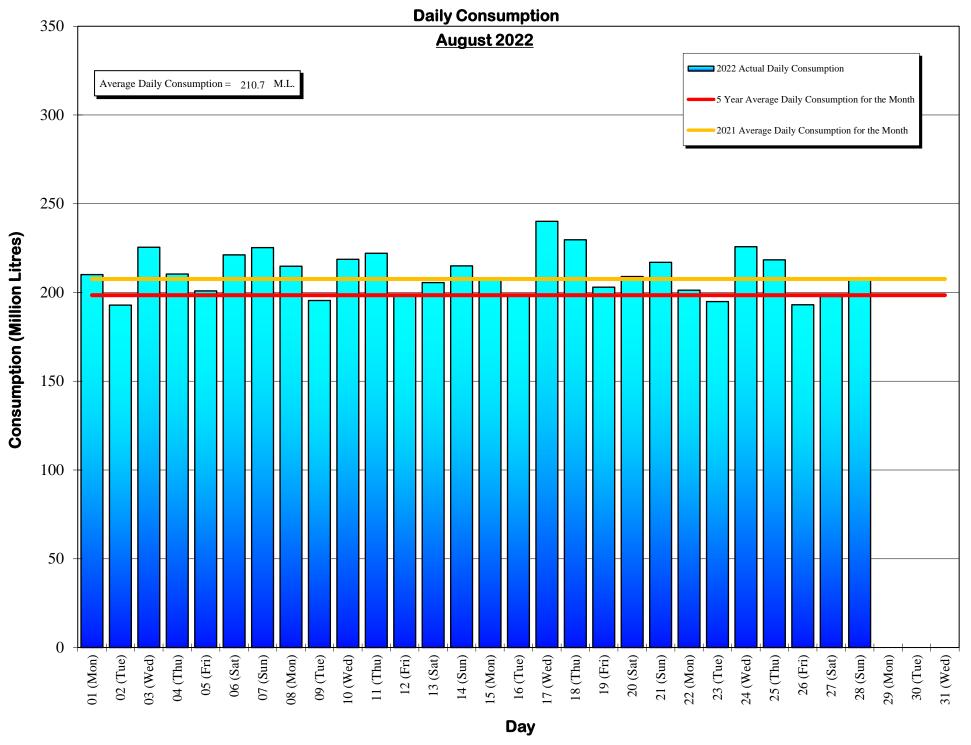
Ted Robbins, B.Sc., C.Tech General Manager, CRD - Integrated Water Services

or

Glenn Harris, Ph D., RPBio

Senior Manager - Environmental Protection

Capital Regional District Integrated Water Services 479 Island Highway Victoria, BC V9B 1H7 (250) 474-9600



Daily Consumptions: - August 2022

Date	Total Consu		_	_	erature @ Gulch	Weather Conditions	Precipitati	ion @ Sooke Res	S.: 12:00am to
	(ML) 1.		(MIG) ^{2.}	High (°C)	Low (°C)		Rainfall (mm)	Snowfall 3. (mm)	Total Precip.
01 (Mon)	210.1		46.2	29	16	Sunny / P. Cloudy	0.0	0.0	0.0
02 (Tue)	192.9	<=Min	42.4	24	13	Sunny	0.0	0.0	0.0
03 (Wed)	225.5		49.6	26	13	Sunny / P. Cloudy	0.0	0.0	0.0
04 (Thu)	210.4		46.3	20	13	Sunny / P. Cloudy	0.0	0.0	0.0
05 (Fri)	200.9		44.2	25	11	Sunny	0.0	0.0	0.0
06 (Sat)	221.2		48.7	29	13	Sunny	0.0	0.0	0.0
07 (Sun)	225.3		49.6	31	14	Sunny	0.0	0.0	0.0
08 (Mon)	214.8		47.2	30	16	Sunny / P. Cloudy	0.0	0.0	0.0
09 (Tue)	195.5		43.0	26	16	Sunny / P. Cloudy	0.0	0.0	0.0
10 (Wed)	218.7		48.1	25	17	Sunny / P. Cloudy / Showers	0.8	0.0	0.8
11 (Thu)	222.1		48.9	26	15	Sunny / P. Cloudy	0.0	0.0	0.0
12 (Fri)	198.7		43.7	26	14	Sunny / P. Cloudy	0.0	0.0	0.0
13 (Sat)	205.6		45.2	22	14	Sunny / P. Cloudy / Showers	0.5	0.0	0.5
14 (Sun)	215.0		47.3	26	13	Sunny / P. Cloudy	0.0	0.0	0.0
15 (Mon)	207.8		45.7	28	15	Sunny	0.0	0.0	0.0
16 (Tue)	198.7		43.7	28	15	Sunny	0.0	0.0	0.0
17 (Wed)	240.1	<=Max	52.8	32	15	Sunny / P. Cloudy	0.0	0.0	0.0
18 (Thu)	229.7		50.5	32	18	Sunny / P. Cloudy	0.0	0.0	0.0
19 (Fri)	203.0		44.7	31	18	Sunny / P. Cloudy	0.0	0.0	0.0
20 (Sat)	209.0		46.0	26	15	Sunny / P. Cloudy	0.0	0.0	0.0
21 (Sun)	217.0		47.8	26	15	Sunny / P. Cloudy	0.0	0.0	0.0
22 (Mon)	201.3		44.3	29	14	Sunny / P. Cloudy	0.0	0.0	0.0
23 (Tue)	194.9		42.9	27	15	Sunny	0.0	0.0	0.0
24 (Wed)	225.8		49.7	30	17	Sunny	0.0	0.0	0.0
25 (Thu)	218.4		48.0	31	17	Sunny	0.0	0.0	0.0
26 (Fri)	193.1		42.5	23	14	Sunny	0.0	0.0	0.0
27 (Sat)	197.8		43.5	21	13	Sunny / P. Cloudy	0.0	0.0	0.0
28 (Sun)	207.2		45.6	23	14	Sunny	0.0	0.0	0.0
29 (Mon)									
30 (Tue)									
31 (Wed)									
TOTAL	5900.5	ML	1298.07 MIG				1.3	0	1.3
MAX	240.1		52.81	32	18		0.8	0	0.8
AVG	210.7		46.36	26.9	14.8		0.0	0	0.0
MIN	192.9		42.44	20	11		0.0	0	0.0

1. ML = Million Litres

2. MIG = Million Imperial Gallons

3. 10% of snow depth applied to rainfall figures for snow to water equivalent.

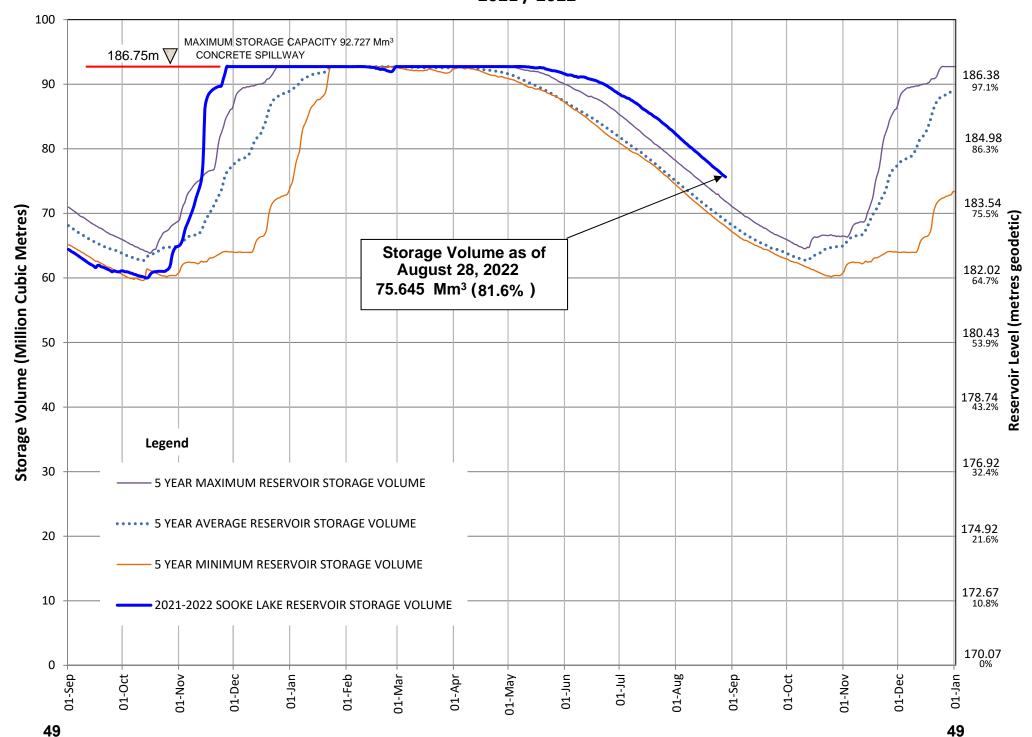
Average Rainfall for August (1914-2021)	29.1 mm
Actual Rainfall: August	1.3 mm
% of Average	4%
Average Rainfall (1914-2021): Sept 01 - Aug 28	1,628.7 mm
Actual Rainfall (2021): Sept 01 - Aug 28	2,033.0 mm

Number days with precip. 0.2 or more

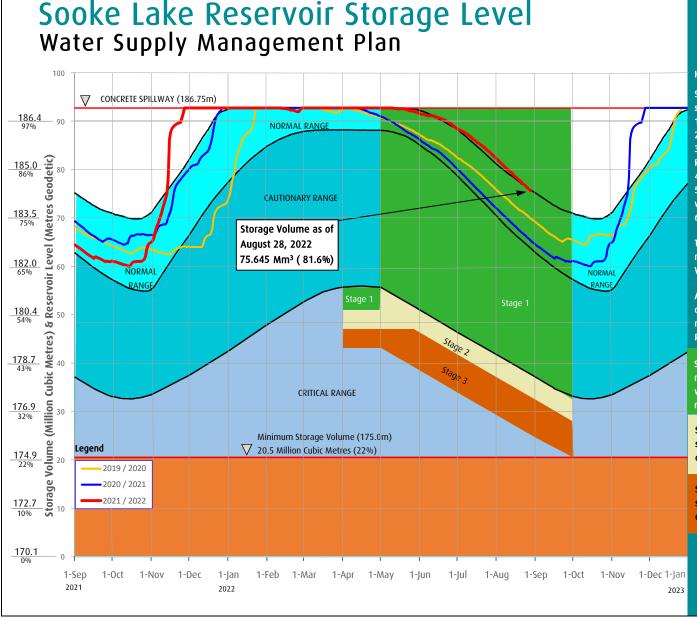
Water spilled at Sooke Reservoir to date (since Sept. 1) =

12.54 Billion Imperial Gallons
57.00 Billion Litres

SOOKE LAKE RESERVOIR STORAGE SUMMARY 2021 / 2022



50



FAQs

How are water restriction stages determined?

Several factors are considered when determining water use restriction stages, including,

- 1. Time of year and typical seasonal water demand trends;
- 2. Precipitation and temperature conditions and forecasts;
- 3. Storage levels and storage volumes of water reservoirs (Sooke Lake Reservoir and the Goldstream Reservoirs) and draw down rates;
- 4. Stream flows and inflows into Sooke Lake Reservoir;
- 5. Water usage, recent consumption and trends; and customer compliance with restriction;
- 6. Water supply system performance.

The Regional Water Supply Commission will consider the above factors in making a determination to implement stage 2 or 3 restrictions, under the Water Conservation Bylaw.

At any time of the year and regardless of the water use restriction storage, customers are encouraged to limit discretionary water use in order to maximize the amount of water in the Regional Water Supply System Reservoirs available for nondiscretionary potable water use.

Stage 1 is normally initiated every year from May 1 to September 30 to manage outdoor use during the summer months. During this time, lawn watering is permitted twice a week at different times for even and odd numbered addresses.

Stage 2 Is initiated when it is determined that there is an acute water supply shortage. During this time, lawn water is permitted once a week at different times for even and odd numbered addresses.

Stage 3 Is initiated when it is determined that there is a severe water supply shortage. During this time, lawn watering is not permitted. Other outdoor water use activities are restricted as well.

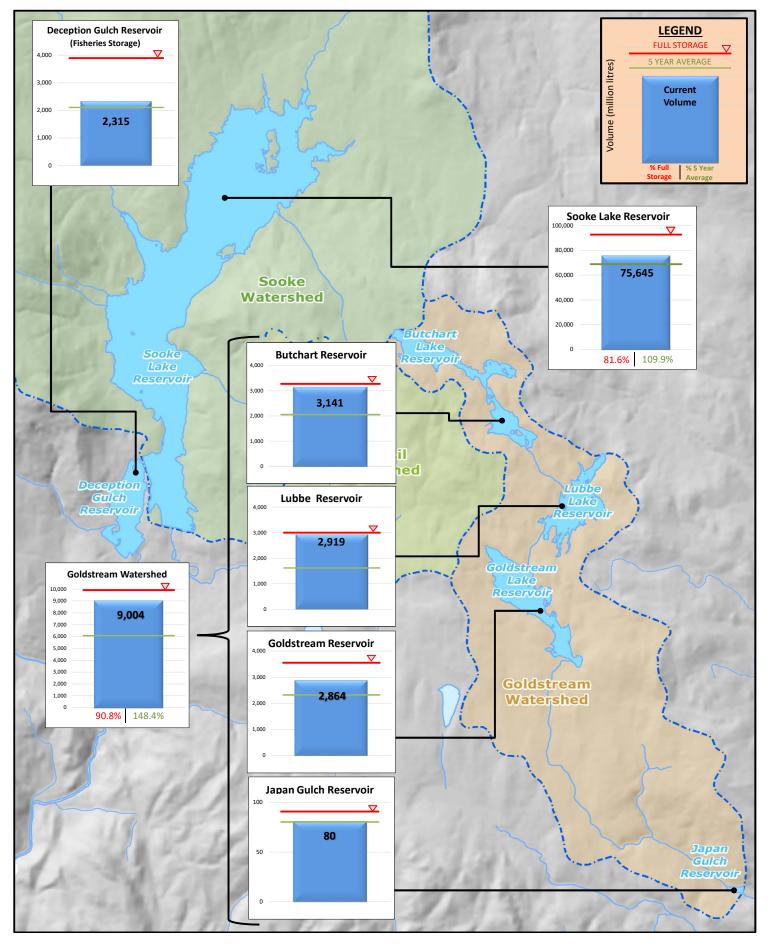
For more information, visit www.crd.bc.ca/drinkingwater



50



Useable Reservoir Volumes in Storage for August 28, 2022



51