



Notice of Meeting and Meeting Agenda Beddis Water Service Commission

Thursday, November 7, 2024

2:00 PM

SIMS Boardroom
124 Rainbow Road
Salt Spring Island BC

Budget

MS Teams Link: [Click here](#)

C. Cheeseman , G. Holman, M. McCormick , C. Smid,

The Capital Regional District strives to be a place where inclusion is paramount and all people are treated with dignity. We pledge to make our meetings a place where all feel welcome and respected.

1. Territorial Acknowledgment

2. Approval of Agenda

3. Adoption of Minutes

3.1. [24-1139](#) Minutes of October 16, 2023 Beddis Water Service Commission Budget Meeting

Recommendation: That the minutes of the October 16, 2023 meeting be adopted as circulated.

Attachments: [Minutes: October 16, 2023](#)

4. New Business

4.1. [24-1047](#) 2025 Operating and Capital Budget

Recommendation: That the Beddis Water Service Commission:

1. Approve the 2025 operating and capital budget as presented and that the 2024 actual operating surplus or deficit be balanced on the 2024 Reserve Funds transfer (CRF and/or ORF).

2. Recommend that the Electoral Area Committee recommend that the CRD Board approve the 2025 Operating and Capital Budget and the Five-Year Financial Plan for the Beddis Water Service as presented.

Attachments: [Staff Report: 2025 Operating and Capital Budget- Beddis](#)

[Appendix A: 2025 Budget Beddis Water Service Budget](#)

5. Adjournment

Next Meeting

-TBD



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**Minutes of the Beddis Water Service Commission Budget Meeting
Held October 16, 2023 at the Salt Spring Island Library, 129 McPhillips Avenue,
Salt Spring Island, BC**

DRAFT

Present: Director Holman, Chris Cheeseman (Chair); Michael McCormick; and Chris Smid
Staff: Karla Campbell, Senior Manager SSI Electoral Area; Lia Xu, Manager, Finance Services (via Teams); Dan Robson, Manager, Saanich Peninsula and Gulf Islands Operations (via Teams); Dean Olafson, Manager Engineering; Shayla Burnham, Committee Clerk; and, Mackenzie Williamson, A/Committee Clerk

These minutes follow the order of the agenda although the sequence may have varied.

1. Call to Order

Commissioner Cheeseman called the meeting to order at 12:38 pm.

2. Territorial Acknowledgement

The Chair provided a Territorial Acknowledgement.

3. Approval of Agenda

MOVED by Commissioner Cheeseman, **SECONDED** by Commissioner Smid, that the Beddis Water Service Commission approve the agenda of October 16, 2023 as amended by adding item number 5.2 Roberts Lake Conditional Water Licence, item number 5.3 Beddis Capital Project – Sky Valley Reservoir, item number 5.4 Cusheon Lake Leachate and PFAS testing and, item number 5.5 Leachate Transfer Station Update.

CARRIED

4. Adoption of the Minutes of October 31, 2022

MOVED by Commissioner McCormick, **SECONDED** by Commissioner Cheeseman, that the Beddis Water Service Commission meeting minutes of October 31, 2022 be approved as amended by updating item 5.1, first bullet from “18 rate payers” to “19 rate payers.”

CARRIED

5. New Business

5.1 2024 Operating and Capital Budget

MOVED by Commissioner Smid, **SECONDED** by Commissioner McCormick, that the Beddis Water Service Commission:

1. Approve the 2024 operating and capital budget as presented and that the 2023 actual operating surplus or deficit be balanced on the 2023 Reserve Funds transfer (CRF and/or ORF).
2. Recommend that the Electoral Area Committee recommend that the CRD Board approve the 2024 Operating and Capital Budget and the Five-Year Financial Plan for the Beddis Water Service as presented.

CARRIED

MOVED by Commissioner Smid, **SECONDED** by Commissioner McCormick, That the Beddis Water Service Commission request staff to conduct a review and request a cost estimate for a configuration review of the Beddis Water Service Commission Sky Valley Reservoir.

CARRIED

5.2 Roberts lake Conditional Water License

- The license is a conditional water licence that is currently active. The province is aware the dam was not constructed.
- Provincial authorization is required before constructing a dam.
- The province will initiate a referral process on an amendment upon receiving an application to construct a dam.
- There is a 30-year review clause in the *Water Sustainability Act*. The review is not until 2046.

5.3 Beddis Capital Project – Sky Valley Reservoir

- Staff circulated an additional Beddis Water Treatment Plant map for the Commissions information.
- Number of repairs from leaks reported at the location of the current Sky Valley Reservoir.

5.4 Cusheon Lake Leachate and PFAS Testing

- Quarterly testing of leachate in Cusheon Lake is planned in 2024.
- PFAS regular testing of raw water for all CRD water services is planned in 2024.

6. Next meeting – TBD

7. Adjournment

MOVED by Commissioner Cheeseman, that the meeting be adjourned at 3:04 p.m.
CARRIED

CHAIR

SENIOR MANAGER



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**REPORT TO BEDDIS WATER SERVICE COMMISSION
MEETING OF THURSDAY, NOVEMBER 07, 2024**

SUBJECT 2025 OPERATING AND CAPITAL BUDGET

ISSUE SUMMARY

To present the 2025 operating and capital budget. In accordance with Bylaw No 3247, "Beddis Water Service Commission Bylaw No. 1, 2004" the Commissions' approval of the annual budget is required.

BACKGROUND

The Capital Regional District (CRD) is required by legislation under the *Local Government Act* (LGA) to prepare an annual operating and capital budget and a 5-year financial plan including Operating Budgets and Capital Expenditure Plans annually. CRD staff have prepared the financial plan shown in Appendix A.

The Operating Budget includes the regular annual costs to operate the service. The Capital Expenditure Plan shows the anticipated expenditures for capital additions. These may include purchases of new assets or infrastructure, upgrades or improvements to existing assets or asset review and study work potentially leading to future capital improvements.

In preparing the Operating Budget, staff considered:

1. Actual expenditures incurred between 2022 and 2024
2. Anticipated changes in level of service (if any)
3. Maximum allowable tax requisition
4. Annual cost per taxpayer and per SFE

Factors taken into consideration in the preparation of the Capital Expenditure Plan included:

1. Available funds on hand
2. Projects already in progress
3. Condition of existing assets and infrastructure
4. Regulatory, environmental, and health and safety factors.

Adjustments for surpluses or deficits from 2024 may be made in January 2025. The CRD Board will give final approval to the budget and financial plan in March 2025.

The Financial Plan for the years 2026 – 2029 may be changed in future years.

BUDGET OVERVIEW

Operating Budget

It is projected that the 2024 operating expenses will be over budget by approximately \$7,430. Factors contributing to the operating overage include emergency response and corrective maintenance primarily due to the following events:

- Water Treatment Plant:

- Replacement of failed back up battery system (UPS and RIC).
- Replacement of four electronic actuated process valves.
- Air saturator pump repairs.
- SCADA system electronic control equipment repairs/replacement
- Water system leak repairs:
 - 1475/1483 Beddis Road
 - 131 Lionel Creek Road

The debt servicing cost will be \$7,140 below the budget since the planned new borrowing of \$340,000 in 2024 is now deferred to 2025 and 2026.

It is projected that the 2024 operating revenue will be under budget by approximately \$16,907 due primarily to lower water sales revenue.

As a result, there is an overall operating deficit of approximately \$17,197 (\$7,430 - \$7,140 + \$16,907). To balance the 2024 operating budget, it is proposed that the 2024 transfer to Capital Reserve Fund be decrease by \$12,197 and the 2024 transfer to the Operating Reserve Fund be decreased by \$5,000. Otherwise, the resulting deficiency in 2024 must immediately be included as an expenditure to be recovered from revenue in 2025 financial plan as required by *Local Government Act Section 374(11)*.

Operating costs for 2025 has increased by \$9,644 (5.2%) compared to 2024. The increase is primarily to account for core inflation, adjustments for chemical supplies and labour costs reflecting the renewed collective agreement since 2023.

Municipal Finance Authority (MFA) Debt

Currently, there is no existing outstanding debt for this service.

Operating Reserve Fund

Operating Reserve Fund (ORF) is used to fund cyclical maintenance activities, equipment and supplies purchases that typically do not occur on an annual basis to mitigate the swings in expense and revenue requirement year over year. Typical maintenance activities include hydrant/standpipe maintenance, reservoir cleaning and inspection and ground water well servicing. Additionally, the ORF is also used to respond to unforeseen events and operating emergencies.

The ORF transfers planned in the budget are evaluated and guided by the CRD Operating Reserve Guidelines endorsed by the CRD Board.

It is proposed that 2025 transfers to the operating reserve fund be set at \$11,000. The Operating Reserve Fund balance at the end of 2024 is projected to be approximately \$11,106. There is \$20,000 of planned maintenance to be funded by the ORF over the next five years.

Capital Reserve Fund

The Capital Reserve Fund (CRF) is to be used to pay for capital expenditures that are not funded by other sources such as grants, operating budget, or debt.

The CRF transfers planned in the budget are evaluated and influenced by the funding required to support the five-year capital expenditure plan and the emergency response to infrastructure failures, also guided by the CRD Capital Reserve Funding Guidelines endorsed by the CRD Board.

It is proposed that the transfer to CRF be set at \$104,470 in 2025. A total of \$208,000 will be required from capital reserves over the next five years to support the capital expenditure plan. The balance of the CRF at the end of 2024 is projected to be \$49,005.

Capital Expenditure Plan

The 5-year plan includes \$8,539,000 of expenditures to be funded by a combination of grants, the service’s Capital Reserve Fund, capital funds on hand, and new debt following a public engagement and referendum process planned in 2025.

Five (5) new projects or budget amendments were added to the 2025-2029 five-year Capital Plan as follows:

1. Investigate DAF Residuals Disposal Alternatives (25-07) - \$5,000 (Reserve)
2. Review of Sky Valley Reservoir (25-08) - \$15,000 (Reserve)
3. Beddis Intake and Screen (20-04) - \$10,000 (Capital on hand)
4. Design and Install Support for Lifting Apparatus at WTP (23-02) - \$5,000 (Capital on hand)
5. Install In-line Strainers at Stewart Road and Creekside Road PRSs (26-01) - \$9,000 (Capital on hand)

Table 2 below provides the future debt servicing cost simulation for analytical purposes with the indicative interest rate provided by MFA at the time of simulation. The debt servicing is for nine (9) projects for a total of \$8,237,000. Please refer to the 2025 – 2029 Five Year Capital Plan for details on these projects.

Table 2 – Future New Debt Simulation

	Term	Borrowing Year	Retirement Year	Estimated Interest Rate	Principal	Principal Payment	Interest Payment	Total Annual Debt Cost
Future Borrowing(s) Estimation	25	2025	2050	4.55%	\$220,000	\$5,573	\$10,010	\$15,583
	25	2026	2051	4.40%	\$340,000	\$8,614	\$14,960	\$23,574
	25	2027	2052	4.40%	\$2,117,000	\$53,632	\$93,148	\$146,780
	25	2028	2053	4.40%	\$2,780,000	\$70,429	\$122,320	\$192,749
	25	2029	2054	4.40%	\$2,780,000	\$70,429	\$122,320	\$192,749
Total					\$8,237,000	\$208,676	\$362,758	\$571,434

At the commencement of each loan, 1% of the gross amount borrowed is withheld and retained by MFA as Debt Reserve Fund (DRF). To provide the full amount to fund the capital project, this 1% DRF amount is budgeted in operating budget in the year of borrowing. However, there is no principal payment required in the year of borrowing. The estimated debt servicing cost of \$571,434 equates to approximately \$4,201.72 cost per parcel.

Capital Projects Fund

As specific capital projects are approved, funding revenues are transferred into the Capital Project Fund from multiple funding sources, including the Capital Reserve Fund (CRF), grant funding, external contributions, and debt. Whenever possible, any funds remaining upon completion of a project will be transferred back to the reserve funding source(s) for use on future projects.

User Charge and Parcel Tax

The service is funded by parcel tax, fixed user charge and sale of water consumption. Properties connected to the water system pay the annual fixed user charge and all properties within the local service area are responsible for the parcel tax. The tiered water consumption rates are unchanged from 2024. The water consumption revenue is projected to be the same as 2024.

Table 3 below summarizes the 2025 over 2024 changes for parcel tax and user charge.

Table 3 – Parcel Tax and User Charge Summary

<i>Budget Year</i>	<i>Parcel Tax*</i>	<i>Taxable Folios Numbers</i>	<i>Parcel Tax per Folio*</i>	<i>User Charge</i>	<i>SFE Numbers</i>	<i>User Charge per SFE</i>	<i>Parcel Tax & User Charge</i>
2024	\$85,940	137	\$660.23	\$139,837	128	\$1,092.48	\$1,752.71
2025	\$94,523	136	\$731.51	\$154,020	129	\$1,193.95	\$1,925.46
Change (\$)	\$8,583	-1	\$71.28	\$14,183	1	\$101.47	\$172.75
Change (%)	9.99%	-0.73%	10.80%	10.14%	0.78%	9.29%	9.86%

* Includes the 5.25% admin fee charged by the Ministry of Finance (not CRD revenue)

RECOMMENDATION

That the Beddis Water Service Commission:

1. Approve the 2025 operating and capital budget as presented and that the 2024 actual operating surplus or deficit be balanced on the 2024 Reserve Funds transfer (CRF and/or ORF).
2. Recommend that the Electoral Area Committee recommend that the CRD Board approve the 2025 Operating and Capital Budget and the Five-Year Financial Plan for the Beddis Water Service as presented.

Submitted by:	Dan Ovington, BBA , Senior Manager, Salt Spring Island Electoral Area
Submitted by:	Jason Dales, B.Sc, WD IV, Senior Manager, Infrastructure Operations
Submitted by:	Varinia Somosan, CPA, CGA, Sr. Mgr., Financial Services / Deputy CFO
Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer

DO/JD/VS/:mw

Appendix A: [2025 Budget Beddis Water Service Budget](#)

CAPITAL REGIONAL DISTRICT

2025 Budget

Beddis Water

Commission Review

NOVEMBER 2024

DEFINITION:

To provide and operate water supply and distribution facilities for the Salt Spring Island Beddis Water System Service Area. Bylaw No. 3188 (November 24, 2004).

PARTICIPATION:

Order in Council No 176, February 24, 2005.

MAXIMUM LEVY:

Greater of \$133,000 or \$2.71 / \$1,000 of actual assessed value of land and improvements.

MAXIMUM CAPITAL DEBT:

Beddis Waterworks 1994 previous debt paid out 2011	\$95,909	
AUTHORIZED: LA Bylaw No. 3193 (November 24, 2004)	\$325,500	
BORROWED: SI Bylaw No. 3291 (Oct 2005) Matured 2020	(\$325,500)	1.80%
Remaining:	<u>\$0</u>	
AUTHORIZED: LA Bylaw No. 3825 (July 11, 2012)	\$400,000	
BORROWED: SI Bylaw No. 3882 (Jan 9, 2013) Matured 2023	(\$300,000)	3.15%
BORROWED: SI Bylaw No. 3910 (July 2013)	(\$70,000)	3.85%
Remaining: Expired	<u>\$30,000</u>	

COMMISSION:

Beddis Water Service Commission established by Bylaw No. 3693 (April 14th, 2010)

FUNDING:

Any deficiencies after user charge and/or frontage tax or parcel tax to be levied on taxable school assessments, excluding property that is taxable for school purposes by Special Act.

- User Charge:** Fixed user charge + variable consumption charge to all metered properties
- Parcel Tax:** Annual, only on properties capable of being connected to the system, starting 2006
- User Charge:**
 - Annual Fixed Fee per per single family dwelling unit or equivalent
 - The consumption charge for water will be the total volume of water metered to the water service connections, measured in cubic meters at the following rate:
 - First 38 cubic metres or portion - \$3.10 / cubic metre
 - Next 68 cubic metres or portion - \$6.30 / cubic metre
 - Greater than 106 cubic metres - \$8.50 / cubic metre
- Water Connection Charge:** The connection charge for a service shall be the actual cost for the connection

RESERVE FUND:

Fund 1069, established by Bylaw # 3274 (April 27, 2005)

2.624 - Beddis Water	2024		BUDGET REQUEST				FUTURE PROJECTIONS			
	BOARD BUDGET	ESTIMATED ACTUAL	CORE BUDGET	ONGOING	ONE-TIME	TOTAL	2026	2027	2028	2029
<u>OPERATING COSTS</u>										
Grit & Waste Sludge Disposal	12,210	6,700	12,580	-	-	12,580	12,830	13,090	13,350	13,620
Repairs & Maintenance	6,150	21,110	6,330	-	-	6,330	6,460	6,590	26,720	27,250
Allocations	15,147	15,147	15,301	-	-	15,301	15,698	16,014	16,336	16,663
Water Testing	11,750	11,830	12,070	-	-	12,070	12,310	12,550	12,800	13,060
Electricity	11,200	9,060	11,540	-	-	11,540	11,770	12,010	12,250	12,500
Supplies	11,470	12,870	13,200	-	-	13,200	13,460	13,720	13,990	14,260
Labour Charges	106,640	110,700	111,560	-	-	111,560	113,790	116,070	118,390	120,760
Other Operating Expenses	12,310	6,890	13,940	-	-	13,940	14,490	15,087	15,725	16,417
TOTAL OPERATING COSTS	186,877	194,307	196,521	-	-	196,521	200,808	205,131	229,561	234,530
*Percentage Increase over prior year			5.2%			5.2%	2.2%	2.2%	11.9%	2.2%
<u>DEBT / RESERVES</u>										
Transfer to Operating Reserve Fund	11,910	6,910	11,000	-	-	11,000	11,220	18,000	20,000	20,000
Transfer to Capital Reserve Fund	88,000	75,803	104,470	-	-	104,470	131,650	119,305	77,430	77,135
MFA Debt Reserve Fund	3,400	-	-	2,200	-	2,200	3,400	21,170	27,800	27,800
MFA Debt Principal	-	-	-	-	-	-	5,573	14,187	67,819	138,248
MFA Debt Interest	3,740	-	-	2,503	-	2,503	13,750	48,257	148,698	271,018
TOTAL DEBT / RESERVES	107,050	82,713	115,470	4,703	-	120,173	165,593	220,919	341,747	534,201
TOTAL COSTS	293,927	277,020	311,991	4,703	-	316,694	366,401	426,050	571,308	768,731
*Percentage Increase over prior year			6.1%	1.6%		7.7%	15.7%	16.3%	34.1%	34.6%
<u>FUNDING SOURCES (REVENUE)</u>										
Transfer from Operating Reserve Fund	-	-	-	-	-	-	-	-	(20,000)	-
Sales - Water	(68,000)	(50,000)	(68,000)	-	-	(68,000)	(68,000)	(68,000)	(68,000)	(68,000)
User Charges	(139,837)	(140,930)	(151,020)	(3,000)	-	(154,020)	(184,820)	(221,780)	(299,400)	(434,130)
Other Revenue	(150)	(150)	(151)	-	-	(151)	(150)	(150)	(150)	(150)
TOTAL REVENUE	(207,987)	(191,080)	(219,171)	(3,000)	-	(222,171)	(252,970)	(289,930)	(387,550)	(502,280)
REQUISITION - PARCEL TAX	(85,940)	(85,940)	(92,820)	(1,703)	-	(94,523)	(113,431)	(136,120)	(183,758)	(266,451)
*Percentage increase over prior year										
Sales			0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%
User Fee			8.0%	2.1%		10.1%	20.0%	20.0%	35.0%	45.0%
Requisition			8.0%	2.0%		10.0%	20.0%	20.0%	35.0%	45.0%
Combined			6.1%	1.6%		7.7%	15.7%	16.3%	29.4%	39.4%

**Beddis Water Reserves
 Summary Schedule
 2025 -2029 Financial Plan**

Reserve/Fund Summary

	Estimated	Budget				
	2024	2025	2026	2027	2028	2029
Operating Reserve Fund	11,106	22,106	33,326	51,326	51,326	71,326
Capital Reserve Fund	49,005	8,475	87,125	206,430	273,860	350,995
Total	60,111	30,581	120,451	257,756	325,186	422,321

Reserve Schedule

Reserve Fund: 2.624 Beddis Water - Operating Reserve Fund

Reserve fund used for unforeseen operational repairs and maintenance; infrequent maintenance activities such as reservoir cleaning and inspection, hydrant maintenance.

Reserve Cash Flow

Fund: Fund Centre:	1500 105206	Estimated	Budget				
		2024	2025	2026	2027	2028	2029
Beginning Balance		4,016	11,106	22,106	33,326	51,326	51,326
Transfer from Ops Budget		6,910	11,000	11,220	18,000	20,000	20,000
Expenditures		-	-	-	-	(20,000)	-
Planned Maintenance Activity						Reservoir cleaning and inspection	
Interest Income*		180					
Ending Balance \$		11,106	22,106	33,326	51,326	51,326	71,326

Assumptions/Background:

* Interest in planning years nets against inflation which is not included.

Reserve Schedule

Reserve Fund: 2.624 Beddis Water - Capital Reserve Fund - Bylaw 3274

For capital repairs, additions and improvements to water system infrastructure

Reserve Cash Flow

Fund: Fund Centre:	1069 101894	Estimated	Budget				
		2024	2025	2026	2027	2028	2029
Beginning Balance		15,873	49,005	8,475	87,125	206,430	273,860
Transfer from Ops Budget		75,803	104,470	131,650	119,305	77,430	77,135
Transfer from Cap Fund		10,829					
Transfer to Cap Fund		(54,000)	(145,000)	(53,000)	-	(10,000)	-
Interest Income*		500					
Ending Balance \$		49,005	8,475	87,125	206,430	273,860	350,995

Assumptions/Background:

* Interest in planning years nets against inflation which is not included.

CAPITAL REGIONAL DISTRICT
FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2025 to 2029

Service No.	2.624	Carry Forward from 2024	2025	2026	2027	2028	2029	TOTAL
	Beddis Water (SSI)							

EXPENDITURE

Buildings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$19,000	\$19,000	\$0	\$0	\$0	\$0	\$0	\$19,000
Land	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Engineered Structures	\$313,000	\$400,000	\$393,000	\$2,117,000	\$2,830,000	\$2,780,000	\$2,780,000	\$8,520,000
Vehicles	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$332,000	\$419,000	\$393,000	\$2,117,000	\$2,830,000	\$2,780,000	\$2,780,000	\$8,539,000

SOURCE OF FUNDS

Capital Funds on Hand	\$54,000	\$54,000	\$0	\$0	\$0	\$0	\$0	\$54,000
Debenture Debt (New Debt Only)	\$220,000	\$220,000	\$340,000	\$2,117,000	\$2,780,000	\$2,780,000	\$2,780,000	\$8,237,000
Equipment Replacement Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Grants (Federal, Provincial)	\$0	\$0	\$0	\$0	\$40,000	\$0	\$0	\$40,000
Donations / Third Party Funding	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reserve Fund	\$58,000	\$145,000	\$53,000	\$0	\$10,000	\$0	\$0	\$208,000
	\$332,000	\$419,000	\$393,000	\$2,117,000	\$2,830,000	\$2,780,000	\$2,780,000	\$8,539,000

Definitions for the 5-year Capital Plan

Asset Class	<p>Asset class is used to classify assets for financial reporting in accordance with the Public Sector Accounting Board (PSAB) 3150.</p> <p>L - Land S - Engineering Structure B - Buildings V - Vehicles E - Equipment</p>
Capital Expenditure Type	<p>Capital expenditure type is used for reporting on asset investments and may be used to justify operational needs for a service.</p> <p>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</p>
Carryforward	<p>Represents the carryforward amount from the prior year capital plan that is remaining to be spent. Forecast this spending over the next 5 years.</p>
Funding Source	<p>Debt - Debenture Debt (new debt only) ERF - Equipment Replacement Fund Grant - Grants (Federal, Provincial) Cap - Capital Funds on Hand Other - Donations / Third Party Funding Res - Reserve Fund WU - Water Utility</p> <p>If there is more than one funding source, additional rows are shown for the project.</p>

CAPITAL REGIONAL DISTRICT

5 YEAR CAPITAL PLAN

2025 - 2029

Service #:

2.624

Service Na

Beddis Water (SS)

PROJECT DESCRIPTION				PROJECT BUDGET & SCHEDULE									
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward	2025	2026	2027	2028	2029	5 - Year Total auto-populates
20-02	Study	Referendum or Alternative Approval Process - Funding for Future Projects	Seek service area electors approval to fund projects	\$ 20,000	S	Cap	\$ 20,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000
26-02	New	Back up power generation equipment	Back up power design and construction. Includes construction services and CRD project management.	\$ 480,000	S	Debt	\$ -	\$ -	\$ 140,000	\$ 340,000	\$ -	\$ -	\$ 480,000
21-03	Study	Public Engagement for Future Projects	Undertake a referendum or AAP to borrow funds	\$ 10,000	S	Cap	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000
21-04	New	Design of booster pump and second reservoir at Sky Valley lower reservoir and decommission of upper reservoir.	Preliminary and detailed design of booster pump and second reservoir at Sky Valley lower reservoir. Includes CRD project management.	\$ 86,000	S	Res	\$ 53,000	\$ -	\$ 53,000	\$ -	\$ -	\$ -	\$ 53,000
23-01	Decommission	AC Pipe Removal (Early Approval)	Remove approximately 50m of abandoned AC water pipe. Includes CRD project management.	\$ 22,000	S	Res	\$ -	\$ 22,000	\$ -	\$ -	\$ -	\$ -	\$ 22,000
24-01	New	Changes to DAF control panel	Motor overload resets to be external to the controller. Provide support for ultrasonic probe.	\$ 55,000	S	Res	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
24-01	New	Changes to DAF control panel	CRD Project Management	\$ 5,000	S	Res	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000
24-05	New	Ventilation for WTP and Pump Building	A mechanical exhaust system is required to extract blue green cyanotoxins produced by blue green algae in the summer months. Relocate vent from chlorine room directly outside. Includes CRD project management.	\$ 24,000	S	Res	\$ -	\$ 24,000	\$ -	\$ -	\$ -	\$ -	\$ 24,000
24-06	Replacement	Replacement of flocculator mixer motors at WTP.	Replacement of flocculator mixer motors at WTP. Includes CRD project management.	\$ 24,000	S	Res	\$ -	\$ 24,000	\$ -	\$ -	\$ -	\$ -	\$ 24,000
24-07	Decommission	WTP Demolish old chlorine/pump building	WTP Demolish old chlorine/pump building - demolition, hazard assessment and CRD project management.	\$ 30,000	S	Debt	\$ -	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ 30,000
24-08	Renewal	WTP SCADA Upgrades - WTP Communications and Control Upgrades	To upgrade RTU programming software to Workbench.	\$ 220,000	S	Debt	\$ 220,000	\$ 220,000	\$ -	\$ -	\$ -	\$ -	\$ 220,000
25-01	Decommission	Decommission of Sky Valley Upper Reservoir	Decommission and removal of Sky Valley Upper Reservoir - demolition, hazard assessment and CRD project management.	\$ 62,000	S	Debt	\$ -	\$ -	\$ -	\$ 62,000	\$ -	\$ -	\$ 62,000
25-02	New	Booster pump and second reservoir at Sky Valley lower reservoir	Booster pump and second reservoir at Sky Valley lower reservoir - Construction, construction services and CRD project management.	\$ 1,320,000	S	Debt	\$ -	\$ -	\$ -	\$ 1,320,000	\$ -	\$ -	\$ 1,320,000
25-03	New	WTP Electrical Upgrades from 2020 AMP	Various electrical upgrades from the 2020 AMP - design. Includes construction, construction services and CRD project management.	\$ 335,000	S	Debt	\$ -	\$ -	\$ 200,000	\$ 135,000	\$ -	\$ -	\$ 335,000
25-06	Study	AC Water main Assessment and Replacement Strategy	Develop a strategy and phased program for AC pipeline replacement and first stage design. Includes CRD project management.	\$ 92,000	S	Debt	\$ -	\$ -	\$ -	\$ 92,000	\$ -	\$ -	\$ 92,000
25-04	Replacement	AC Water Main Replacement Detailed Design	Detailed Design for replacement of ~5.2 km of AC pipe. Includes CRD project management.	\$ 138,000	S	Debt	\$ -	\$ -	\$ -	\$ 138,000	\$ -	\$ -	\$ 138,000
25-05	Replacement	AC Water Main Replacement Construction	Replace ~ 5.2 km of AC Pipe at \$1k/m. Includes construction services and CRD project management.	\$ 5,560,000	S	Debt	\$ -	\$ -	\$ -	\$ -	\$ 2,780,000	\$ 2,780,000	\$ 5,560,000
27-01	Study	Update Asset Management Plan	Revise McElhanney Condition Assessment to SAMP.	\$ 50,000	S	Grant	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ -	\$ 40,000
27-01	Study	Update Asset Management Plan	CRD Project Management	\$ 10,000	S	Res	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ 10,000
25-07	Study	Investigate DAF Residual Disposal Alternatives	Investigate alternatives for the disposal of DAF residuals.	\$ 5,000	S	Res	\$ -	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000
25-08	Study	Review of Sky Valley Reservoir	Review configuration and develop cost estimate for Sky Valley Reservoir.	\$ 15,000	S	Res	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000
20-04	New	Beddis Intake and screen	Construct and install intake screen and pipe improvements	\$ 302,725	E	Cap	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000
23-02	New	Design and install support for lifting apparatus WTP	Support for a lifting apparatus is required at ceiling level to lift the 80lb lid for the Saturator and for a confined space entry apparatus over the DAF system	\$ 55,000	S	Cap	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000
26-01	New	Install Inline Strainers	Install inline strainer Stewart Rd PRS and Creekside Road PRS.	\$ 11,000	E	Cap	\$ 9,000	\$ 9,000	\$ -	\$ -	\$ -	\$ -	\$ 9,000
													\$ -
			Grand Total	\$ 8,916,725				\$ 419,000	\$ 393,000	\$ 2,117,000	\$ 2,830,000	\$ 2,780,000	\$ 8,539,000

Service: **2.624** **Beddis Water (SSI)**

Project Number 20-02 **Capital Project Title** Referendum or Alternative Approval Process - Funding for Future Projects **Capital Project Description** Seek service area electors approval to fund projects
Project Rationale Need to obtain approval from the area electors for future projects.

Project Number 26-02 **Capital Project Title** Back up power generation equipment **Capital Project Description** Back up power design and construction. Includes construction services and CRD project management.
Project Rationale In order to maintain potable water service in the event of an extended power outage, back up power is required.

Project Number 21-03 **Capital Project Title** Public Engagement for Future Projects **Capital Project Description** Undertake a referendum or AAP to borrow funds
Project Rationale As per Commission request (Dec. 15/2015), capital construction projects greater than \$50,000 are to be funded thru debt, in which case a referendum may be required.

Project Number 21-04 **Capital Project Title** Design of booster pump and second reservoir at Sky Valley lower reservoir and decommission of upper reservoir. **Capital Project Description** Preliminary and detailed design of booster pump and second reservoir at Sky Valley lower reservoir. Includes CRD project management.
Project Rationale Need to replace an existing reservoir with a new one and this will require a booster pump to operate it. This project is for the preliminary design.

Project Number 23-01 **Capital Project Title** AC Pipe Removal (Early Approval) **Capital Project Description** Remove approximately 50m of abandoned AC water pipe. Includes CRD project management.
Project Rationale This is for a short section of surficial abandoned asbestos pipe which needs to be removed and disposed of before it deteriorates further and enters the environment.

Project Number 24-01 **Capital Project Title** Changes to DAF control panel **Capital Project Description** Motor overload resets to be external to the controller. Provide support for ultra-sonic probe.
Project Rationale Various changes, modifications and upgrades required for the control panel for the DAF unit.

Project Number 24-05 **Capital Project Title** Ventilation for WTP and Pump Building **Capital Project Description** A mechanical exhaust system is required to extract blue green cyanotoxins produced by blue green algae in the summer months. Relocate vent from chlorine room directly outside. Includes CRD project management.
Project Rationale E H & S issue. A mechanical exhaust system is required to extract blue green cyanotoxins produced by blue green algae in the summer months. Relocate vent from chlorine room directly outside. Includes CRD project management.

Project Number 24-06 **Capital Project Title** Replacement of flocculator mixer motors at WTP. **Capital Project Description** Replacement of flocculator mixer motors at WTP. Includes CRD project management.
Project Rationale Replacement of aging flocculator mixer motors at WTP.

Service: 2.624 Beddis Water (SSI)

Project Number 24-07	Capital Project Title WTP Demolish old chlorine/pump building	Capital Project Description WTP Demolish old chlorine/pump building - demolition, hazard assessment and CRD project management.
Project Rationale WTP Demolish old chlorine/pump building - demolition, hazard assessment and CRD project management.		
Project Number 24-08	Capital Project Title WTP SCADA Upgrades - WTP Communications and Control Upgrades	Capital Project Description To upgrade RTU programming software to Workbench.
Project Rationale Replace the RTU and PLC controller due to age and criticality to current CRD I/O standards. At end of life for SCADAPAC 357e Series PLCs and add equipment feedback wiring to monitor valve position, motor speed etc. Includes CRD project management.		
Project Number 25-01	Capital Project Title Decommission of Sky Valley Upper Reservoir	Capital Project Description Decommission and removal of Sky Valley Upper Reservoir - demolition, hazard assessment and CRD project management.
Project Rationale The Sky Valley Upper Reservoir is no longer in use and needs to be decommissioned and disposed of. It will be replaced by a second reservoir at the Lower location.		
Project Number 25-02	Capital Project Title Booster pump and second reservoir at Sky Valley lower reservoir	Capital Project Description Booster pump and second reservoir at Sky Valley lower reservoir - Construction, construction services and CRD project management.
Project Rationale When the Sky Valley Upper Reservoir is decommissioned it will be replaced by a booster pump and second reservoir at the lower Sky Valley location.		
Project Number 25-03	Capital Project Title WTP Electrical Upgrades from 2020 AMP	Capital Project Description Various electrical upgrades from the 2020 AMP - design. Includes construction, construction services and CRD project management.
Project Rationale Various electrical upgrades and replacements for aging and obsolete E I & C equipment.		
Project Number 25-06	Capital Project Title AC Water main Assessment and Replacement Strategy	Capital Project Description Develop a strategy and phased program for AC pipeline replacement and first stage design. Includes CRD project management.
Project Rationale Develop a strategy and phased program for AC pipeline replacement and first stage design.		
Project Number 25-04	Capital Project Title AC Water Main Replacement Detailed Design	Capital Project Description Detailed Design for replacement of ~5.2 km of AC pipe. Includes CRD project management.
Project Rationale Detailed Design for replacement of ~5.2 km of AC pipe.		
Project Number 25-05	Capital Project Title AC Water Main Replacement Construction	Capital Project Description Replace ~ 5.2 km of AC Pipe at \$1k/m. Includes construction services and CRD project management.
Project Rationale Replace ~ 5.2 km of AC Pipe at \$1k/m. This is the construction phase of the project.		

Service: **2.624** **Beddis Water (SSI)**

Project Number 27-01 **Capital Project Title** Update Asset Management Plan **Capital Project Description** Revise McElhanney Condition Assessment to SAMP.
Project Rationale Revise McElhanney Condition Assessment to SAMP and incorporate recent facility modifications.

Project Number 25-07 **Capital Project Title** Investigate DAF Residual Disposal Alternatives **Capital Project Description** Investigate alternatives for the disposal of DAF residuals.
Project Rationale Investigate alternatives for the disposal of DAF residuals in order to reduce disposal costs.

Project Number 25-08 **Capital Project Title** Review of Sky Valley Reservoir **Capital Project Description** Review configuration and develop cost estimate for Sky Valley Reservoir.
Project Rationale Review configuration and develop cost estimate for Sky Valley Reservoir.

Project Number 20-04 **Capital Project Title** Beddis Intake and screen **Capital Project Description** Construct and install intake screen and pipe improvements
Project Rationale To resolve the intermittent operation issue where the Cusheon Lake raw water intake pumps lose their prime (become air-locked) and either pump erratically or completely stop pumping raw water into treatment. Replace temporary intake line and inlet strainer.

Project Number 23-02 **Capital Project Title** Design and install support for lifting apparatus WTP **Capital Project Description** Support for a lifting apparatus is required at ceiling level to lift the 80lb lid for the Saturator and for a confined space entry apparatus over the DAF system.
Project Rationale E H & S issue. Operations has identified an H & S issue for the maintenance of this equipment and require lifting apparatus at height in order to make the maintenance tasks for the DAF unit safe.

Project Number 26-01 **Capital Project Title** Install Inline Strainers **Capital Project Description** Install inline strainer Stewart Rd PRS and Creekside Road PRS.
Project Rationale Operations has identified that in-line strainers are required at the Stewart Road and Creekside Road locations in order to ensure consistent service and water quality.

2.624 - Beddis Water

Capital Projects

Updated @ Oct 10, 2024

Year	Project#	Status	Capital Project Description	Total Project Budget	Spending		Total Funding in Place
					Expenditure Actuals	Remaining Spending	
2019	CE.676.7501	Open	Beddis Water Intake and Screen	302,725	101,644	201,081	302,725
2019	CE.699.4503	Open	Safe Work Procedures	12,000	3,292	8,708	12,000
2020	CE.735.4502	Close	Power generation equipment-Study	10,000	-	10,000	10,000
2023	CE.831.5101	Open	Sky Valley New Booster Pump & Reservoir	33,000	2,361	30,639	33,000
2023	CE.836.2001	Open	Beddis WTP Lifting Apparatus	55,000	15,388	39,613	55,000
2023	CE.836.2002	Open	Beddis PRV Strainers	11,000	1,837	9,163	11,000
2023	CE.836.2003	Close	Replacement of Variable Frequency Drives.	9,000	7,195	1,805	9,000
2024	CE.836.4601	Open	Referendum for Borrowing/Beddis	20,000	27	19,973	20,000
2024	CE.836.4602	Open	Public Engagement/Beddis	10,000	54	9,946	10,000
			Totals	462,725	131,797	330,928	462,725

Service:

2.624 Beddis Water

Committee: Electoral Area

<u>Year</u>	<u>Taxable Folios</u>	<u>Parcel Tax per Folio</u>	<u>SFE's</u>	<u>User Charge* per SFE</u>	<u>Total Tax & Charges</u>	<u>Avg. Water Sales per SFE</u>	<u>Bylaw</u>	<u>Actual Assessments \$(000's)</u>
2012	138	\$449.63	126	\$324.56	\$774.19	\$534.88	3864	79,242
2013	137	\$500.00	126	\$324.56	\$824.56	\$539.13	3891	77,082
2014	137	\$550.00	126	\$324.56	\$874.56	\$531.59	3925	74,107
2015	137	\$550.00	127	\$453.00	\$1,003.00	\$664.41	3993	72,593
2016	137	\$549.99	127	\$561.10	\$1,111.09	\$661.42	4073	72,669
2017	137	\$549.99	127	\$561.10	\$1,111.09	\$661.42	4208	80,096
2018	137	\$554.98	127	\$595.04	\$1,150.02	\$654.76	4236	90,993
2019	137	\$554.98	127	\$639.92	\$1,194.90	\$653.54	4311	99,150
2020	137	\$554.98	127	\$686.93	\$1,241.91	\$645.67	4339	105,556
2021	137	\$564.43	127	\$831.20	\$1,395.63	\$566.93	4395	116,435
2022	137	\$575.88	128	\$900.46	\$1,476.34	\$562.50	4470	147,897
2023	137	\$617.04	128	\$1,021.02	\$1,638.06	\$562.50	4525	162,395
2024	137	\$660.23	128	\$1,092.48	\$1,752.71	\$531.25	4586	158,102
2025	136	\$731.51	129	\$1,193.95	\$1,925.46	\$527.13		

Change from 2024 to 2025

\$71.28
10.80%

\$101.47
9.29%

\$172.75
9.86%

* A variable consumption charge is paid in addition to the fixed user charge and parcel tax.

Beddis Water Funding Analysis 2021 - 2024

