

RWSC 21-11

REPORT TO REGIONAL WATER SUPPLY COMMISSION MEETING OF WEDNESDAY, OCTOBER 20, 2021

<u>SUBJECT</u> Regional Water Supply Service - 2022 Operating and Capital Budget

ISSUE SUMMARY

To provide an overview of the draft 2022 Regional Water Supply Service budget, highlighting the changes from the 2021 budget and the proposed 2022 budget figures. The report generally follows the information provided in the attached draft budget document (Appendix A).

BACKGROUND

The draft 2022 Regional Water Supply Service budget has been prepared for the Regional Water Supply Commission's (Commission) consideration. The Commission will make budget recommendations to the Capital Regional District (CRD) Board through the Committee of the Whole in October, in order to establish the wholesale water rate and approve the rate by year end through adopting a rate bylaw. As in previous years, the draft 2022 Regional Water Supply Service budget has been prepared considering the CRD Board's 2022 service planning and financial expectations, which include identifying opportunities to realign or reallocate resources and seek potential efficiencies between departments and services, reviewing service levels and adjustments related to regulatory compliance, and undertaking infrastructure improvements and upgrades to maintain service levels within the region. The following sets out the key components of the budget.

2021 Year End Financial Projections

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

| Budget Item | Variance (\$) | Variance (%) |
|--|---------------|--------------|
| Supply System operating expenditures | -\$430,174 | -2.8% |
| Agricultural water rate funding | \$100,000 | 6.3% |
| Capital fund transfers | \$2,281,609 | 23.7% |
| Debt servicing - principal and interest expenditures | \$35,748 | -0.4% |
| Revenue | \$1,915,687 | 5.5% |

The lower than budgeted operating expenditures were primarily due to labour costs associated with delays/deferrals in backfilling vacant staff positions during the year. The additional revenue is a result of the unseasonal weather during the spring and summer resulting in higher water demand than budgeted. It is proposed to transfer the revenue surplus to the capital reserve fund and reduce the borrowing requirement in 2022.

2022 Budget

Rate Base

The rate base for 2022 has increased by \$4,706,828 from 2021. This increase relates to physical plant additions, including the final capitalization the Lubbe Dam improvements and Sooke Lake Intake Tower Screen replacement. The changes in physical plant and work in progress are listed on page 3 of the budget document and are used to project the 2021 year end total physical plant value and determine the 2022 rate base.

Revenue Requirement

The revenue requirement for 2022 has increased by \$1,619,597. This is resulting from an increase in operational expenses of \$808,081, an increase in depreciation expenses of \$897,416, net of expired depreciation on existing assets, offset by a decrease in the return on the rate base of \$85,900. Although the asset base continues to grow, the decrease in the return on the rate base for 2022 occurs due to lower debt levels in the service.

Operating Budget

The 2022 operating budget reflects an inflationary increase in non-discretionary expenses such as negotiated wage/salary increases, departmental support service allocation increases, and other operating expense adjustments such as chemical and electricity costs. The net core 2022 operating budget increase is \$391,081, plus additional budget requests for one-time and on-going expenditures in the amounts of \$175,000 and \$142,000 respectively. These budget adjustments are summarized as follows:

- \$25,000 one-time funding (year five of five) to support the on-going National Science and Engineering Research Council (NSERC) watershed research.
- \$150,000 one-time funding for field sampling/consulting services to establish baseline water quality and hydrology data in the Leech River consulting contracts were funded through 2020 and 2021 one-time budget increases; in year 2024, staff will determine the on-going requirement.
- \$55,000 labour budget increase (Regional Water Supply share) for FTE (full time equivalent staff position) Infrastructure Integration Technician to on-board new assets and develop asset plans for the service life of the assets in accordance with the Corporate Asset Management Strategy.
- \$438,000 labour budget increase for reassignment of 3.0 FTEs from the Capital Program to Goldstream Water Treatment Operations – this reassignment is in order to meet Provincial Environmental Operator Certification Program requirements and minimum staffing levels for continuous operations; the labour costs are now associated with the operating budget rather than the capital budget.
- \$87,000 labour budget increase (Regional Water Supply share) for FTE Contracts Coordinator to provide cross-departmental contract coordination and support corporate procurement policies and procedures for construction and service contracts; the function was previously included under a committee clerk role so this initiative results in a dedicated Contracts Coordinator role.

The budgets for drinking water quality sampling, testing and reporting, as well as the cross connection control and demand management programs for the Regional Water Supply Service are included in the overall operating budget.

Operating budget forecasts for 2023-2026 have been presented for information.

Capital Budget

There are a number of capital projects planned for 2022 with a total value of \$26,697,250, including \$9,946,000 in carry forward projects, most of which are in-stream, multi-year projects such as the Butchart Dam No. 5 project, continuing dam safety related capital work including instrumentation integration and upgrades, and the Transmission Main No.4 segment replacement project. There is also \$2,240,000 in projects cost-shared with the Juan de Fuca Water Distribution Service (pages 11-47 of the budget document). The major projects in 2022, aside from the carry forward projects, include replacing the gatehouse at the Goldstream entrance to the water supply area and beginning the process of designing and constructing a new watershed field operations building, replacement of the ultraviolet disinfection equipment at the Goldstream Water Treatment Plant, and starting detailed design work for the Transmission Main No. 3 segment replacement project.

A five year capital plan has been presented for information. The value of the five-year (2022-2026) capital plan is currently \$99,898,250, plus \$3,800,000 in projects cost-shared with the Juan de Fuca Water Distribution Service.

Capital and Debt Expenditures

The 2022 capital expenditures will be partially funded through a transfer to the water capital fund budgeted at \$10,152,385, with the balance funded from existing cash reserves and borrowed funds. See pages 11-12 of the budget document for the funding source summary. 2022 debt expenditures for existing debt servicing are budgeted to be \$8,292,927. Debt servicing expenditures will decrease by \$40,740 over 2021. Additional projected water sales revenue and corresponding capital reserve fund transfer will reduce the borrowing needs in 2022. A new loan authorization in the amount of \$46,000,000 was approved this year 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 |
|-------------|-----------------|--------------|
| LA3419-103 | April 2023 | \$7,000,000 |
| LA3451-103 | April 2023 | \$60,000,000 |
| LA3419-104 | November 2023 | \$8,000,000 |
| LA3419-105 | June 2024 | \$9,000,000 |
| LA3419-106 | October 2024 | \$1,000,000 |
| LA3661-112 | October 2025 | \$6,500,000 |
| LA3661-116 | April 2026 | \$1,500,000 |
| LA3661-118 | April 2027 | \$4,500,000 |
| LA3661-124 | April 2028 | \$1,700,000 |
| LA3902-131 | April 2030 | \$3,000,000 |
| LA3902-137 | April 2031 | \$1,500,000 |
| LA3902-145 | April 2033 | \$5,000,000 |
| LA4382-15X | April 2038-2040 | \$23,000,000 |

The long term debt obligations are summarized on the attached graphs (Appendix B).

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 8-23%, which is less than an annual benchmark rate of 25%, albeit close to the upper recommended limit until the Leech Water Supply Area land acquisition debt is retired in 2023. Additionally, the debt funding for capital investment over the next five years does not exceed 40%. A summary indicator table is provided below:

| Year | % Revenue for Debt | Capital Funded by Debt |
|------|-----------------------|---------------------------|
| 2022 | 22.7% | 0% |
| 2023 | 20.2% | 38.4% |
| 2024 | 8.7% | 32.3% |
| 2025 | 8.2% | 28.1% |
| 2026 | 7.9% | 0.0% |

A \$314,181 transfer to the vehicle/equipment replacement fund is planned in 2022. The reserve fund balance is estimated at \$2,700,884 at year end 2021 (See reserve schedule – Page 48 of the budget document).

Agricultural Water Rate Funding

The total budget for the agricultural water rate funding has been increased by \$100,000 to \$1,700,000. The 2022 agricultural water rate has been maintained at the 2021 rate of \$0.2105 per cubic metre. The Regional Water Supply agricultural water rate budget funds the difference between the municipal retail water rate and the CRD agricultural water rate. As directed by the Commission, an agricultural water rate review and options study will be undertaken in 2021/2022. A summary of the agricultural water volumes and agricultural water rate payments for 2011 to 2020 is attached for information (Appendix C).

Water Demand

Total water demand across the Region has generally continued to increase year over year recently due to the continued rate of development and growth. This trend, combined with one of the hottest and driest years on record, is expected to result in actual demand exceeding budget demand in 2021; the 2021 year-end demand is projected to be 2,500,000 cubic metres over budget at 50,500,000 cubic metres.

The recommended 2022 water rate has been calculated using a budget demand of 49,000,000 cubic metres (Page 8 of the budget document), which is 1,000,000 cubic metres more than the volume used in the 2021 budget.

Proposed 2022 Wholesale Water Rate

The recommended wholesale water rate has taken into consideration the revenue required to meet operating and capital expenditures, including debt obligations and the budget demand volume established for 2022. The proposed 2022 wholesale rate is \$0.7332 per cubic metre, a

2.57% increase over the 2021 rate. The increase in annual bulk water cost for the average household using 235 cubic metres per year would be \$4.32 (Page 9 of the budget document).

Wholesale Water Rate History and Projection

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

Alternative 1

That the Regional Water Supply Commission recommends the Committee of the Whole recommends to the Capital Regional District Board to:

- 1. Approve the 2022 Operating and Capital Budget and the Five Year Capital Plan;
- 2. Approve the 2022 wholesale water rate of \$0.7332 per cubic metre;
- 3. Approve the 2022 agricultural water rate of \$0.2105 per cubic metre;
- 4. Direct staff to balance the 2021 actual revenue and expense on the transfer to the water capital fund; and
- 5. Direct staff to amend the Water Rates Bylaw accordingly.

Alternative 2

That the Regional Water Supply Commission recommends the Committee of the Whole recommends to the Capital Regional District Board to:

- 1. Approve the 2022 Operating and Capital Budget and the Five Year Capital Plan as amended;
- 2. Approve the 2022 wholesale water rate as amended (amended rate);
- 3. Approve the 2022 agricultural water rate of \$0.2105 per cubic metre;
- 4. Direct staff to balance the 2021 actual revenue and expense on the transfer to the water capital fund; and
- 5. Direct staff to amend the Water Rates Bylaw accordingly.

IMPLICATIONS

If the proposed budget is amended, the implications could vary depending on how the budget is amended and the impact on specific initiatives (i.e. new initiatives), on-going operations, or the capital work program. 'One-time' reductions in reserve fund contributions could be considered by the Commission to help mitigate the budget and rate increases, but additional capital financing could result in the longer term. Although, staff have not recommended amending the agricultural water rate for 2022, the rate and rate methodology is under review this year and the Commission will consider the rate review recommendations in 2022.

Any changes in the recommended wholesale water rate would have to be incorporated in the Juan de Fuca Water Distribution Service and Saanich Peninsula Water Service budgets and rates; the Juan de Fuca Water Distribution Commission has approved their proposed 2022 budget and rate and the Saanich Peninsula Water Commission will consider their 2022 budget on October 21.

CONCLUSION

The draft 2022 Regional Water Supply Service budget has been prepared for the Regional Water Supply Commission's consideration. The budget has been prepared considering the Commission and CRD Board's 2022 service planning and financial expectations. A proposed increase in operating and capital funding combined with an adjusted revenue budget, is resulting in a recommended wholesale water rate of \$0.7332 per cubic metre, a 2.57% increase over the 2021 rate.

RECOMMENDATION

That the Regional Water Supply Commission recommends the Committee of the Whole recommends to the Capital Regional District Board to:

- 1. Approve the 2022 Operating and Capital Budget and the Five Year Capital Plan;
- 2. Approve the 2022 wholesale water rate of \$0.7332 per cubic metre;
- 3. Approve the 2022 agricultural water rate of \$0.2105 per cubic metre;
- 4. Direct staff to balance the 2021 actual revenue and expense on the transfer to the water capital fund; and
- 5. Direct staff to amend the Water Rates Bylaw accordingly.

| Submitted by: | Ted Robbins, B.Sc., C.Tech., General Manager, Integrated Water Services |
|---------------|--|
| Concurrence: | Larisa Hutcheson, P. Eng., General Manager, Parks & Environmental Services |
| Concurrence: | Nelson Chan, MBA, FCPA, FCMA, Chief Financial Officer |
| Concurrence: | Robert Lapham, MCIP, RPP, Chief Administrative Officer |

ATTACHMENTS

Appendix A: 2022 Regional Water Supply Service Budget Appendix B: Long Term Debt Obligations Summary Appendix C: Agricultural Water Volumes and Rate Payments for 2011 – 2020 Appendix D: Wholesale Water Rate History and Projection

2022 BUDGET

Regional Water Supply

COMMISSION REVIEW

OCTOBER 2021

Commission: Regional Water Supply

Service: 2.670 Regional Water Supply

DEFINITION:

To finance, install, operate and maintain a water supply local service in the Capital Regional District, as per the Water Supply Local Service Establishment Bylaw No. 2537.

The establishment and operation of a Regional Water Supply Commission is done by Bylaw No. 2539.

SERVICE DESCRIPTION:

Regional Water Supply is responsible for the water supply, treatment and transmission system for the Greater Victoria region, providing wholesale water to municipalities that operate municipal distribution systems. The service administration and operation is provided by the Integrated Water Services Department.

PARTICIPATION:

| City of Victoria | Town of Sidney | District of Metchosin |
|-----------------------------|---------------------------|-----------------------------|
| District of Oak Bay | District of North Saanich | District of Sooke |
| District of Saanich | Town of View Royal | Juan de Fuca Electoral Area |
| Township of Esquimalt | City of Colwood | District of Highlands |
| District of Central Saanich | City of Langford | |

MAXIMUM LEVY:

No stated limit in establishment bylaw and no ability to requisition.

MAXIMUM CAPITAL DEBT:

| Authorized: Borrowed: Remaining: | Expired | \$137,700,000 Pre - (Consolidated MFA Loan Authorizations - Regional Water Supply Water Works Facilities) \$91,400,000 Pre - (Consolidated amounts borrowed - Regional Water Supply Water Works Facilities) \$46,300,000 |
|--|---------|--|
| Authorized: Borrowed: | | \$60,000,000 (MFA Bylaw No. 3451 - Regional Water Supply Land Acquisition) \$60,000,000 (MFA Bylaw No. 3451 - Regional Water Supply Land Acquisition) |
| Authorized: Borrowed: Remaining: | Expired | \$12,500,000 2014 - (MFA Bylaw No. 3902 - Regional Water Supply Water Works Facilities) \$9,500,000 \$3,000,000 |
| Authorized: Borrowed: Remaining: | | \$46,000,000 2021 - (MFA Bylaw No. 4382 - Regional Water Supply Water Works Facilities) \$0 \$46,000,000 |

FUNDING:

Rate Base for 2022 Revenue Year

| | 2020 <u>Application</u> | 2021 <u>Application</u> | End of 2021 or '22 Applic. | Change | |
|-------------------------------|----------------------------|----------------------------|-------------------------------|-----------------|--------|
| Wholesale System | | | | | |
| Physical Plant | \$ 231,437,695 | \$ 231,156,835 | \$ 233,870,414 | \$ 2,713,579 | Note 1 |
| Construction Work In Progress | 6,285,937 | 8,055,763 | 9,949,386 | 1,893,623 | Note 1 |
| Cash Working Capital | 1,991,738 | 2,088,652 | 2,188,278 | 99,626 | |
| Inventory | 225,000 | 225,000 | 225,000 | - | |
| Total Wholesale Rate Base | \$ 239,940,370 | \$ 241,526,250 | \$ 246,233,078 | \$ 4,706,828 | |

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

Revenue Requirements for 2022 Year

| | 2020 Application | 2021 Application | 2022 Application | Change |
|--|-------------------------|-------------------------|-------------------------|-----------------------|
| Wholesale | | | | |
| Operations & maintenance | \$ 16,155,207 | \$ 16,941,286 | \$ 17,749,367 | \$ 808,081 |
| Depreciation | 6,243,311 | 6,694,087 | 7,591,503 | \$ 897,416 |
| Return on rate base | 11,626,400 | 11,252,300 | 11,166,400 | \$ (85,900) Note 1 |
| Subtotal of above | \$ 34,024,918 | \$ 34,887,673 | \$ 36,507,270 | \$ 1,619,597 |
| Non-rate revenue including unaccounted water revenue | (582,060) | (582,060) | (582,060) | \$ - |
| Total wholesale | \$ 33,442,858 | \$ 34,305,613 | \$ 35,925,210 | \$ 1,619,597 |

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

Schedule of Change in Physical Plant & Work In Progress

Wholesale

| Projected Asset Additions | Projected Assets t Additions Capitalized Projected Construction Work In Projected Constructin Work In Projected Construction Work In Projected Constructin | | Projected Assets CWIP |
|---|--|---|--------------------------|
| Lubbe Dam Safety Improvements | \$ 2,975,025 | Sooke Intake Screens | \$ 1,492,315 |
| Sooke Intake Screens Condition Assessment/Replacement | 2,136,485 | Butchart Dam #5 Remediation | 1,240,935 |
| Land Acquisition - Grant Lake Parcel | 655,432 | Post Disaster Emergency Water Supply | 737,173 |
| Meter Replacement | 386,353 | Sooke Dam Safety Improvements | 647,152 |
| Kapoor Tunnel Repairs | 365,848 | Dam Safety Review | 605,023 |
| Watershed Security Enhancements | 335,000 | SCADA Repairs and Equipment Replacement | 400,000 |
| Goldstream Water Supply Area Bridge | 325,000 | Dam Actuators | 264,966 |
| Stelly's Pump Station Assessment | 308,637 | Radio Upgrades | 250,000 |
| Leech River Restoration | 300,231 | Dam Improvements | 200,000 |
| Valve Chamber Upgrades | 300,000 | Lab Information Management System | 200,000 |
| Japan Gulch Treatment Plant Upgrades | 275,000 | Treatment Plan Communications Upgrade | 200,000 |
| Gravel Crushing | 220,000 | Cathodic Protection Program | 192,362 |
| Major Main Repairs | 200,000 | SCDA Repairs and Equipment Replacement | 189,810 |
| SCADA | 160,000 | Strategic Asset Management Plan | 179,380 |
| Watershed Culvert Replacement | 145,000 | Critical Equip Storage Building | 152,759 |
| Sooke Spillway Gate Standby Power | 143,852 | Risk and Resilience Assessment | 150,698 |
| Water Supply Eqpt Upgrades | 130,000 | Japan Gulch Treatment Plant Upgrades | 150,000 |
| Building Modification | 120,211 | Water Quality Main Lab Renovation | 140,140 |
| Water Supply Equipment Upgrades | 120,000 | Flowcam Imaging System | 140,000 |
| Air Curtain Burner | 100,000 | Hydraulic Capacity Assessment | 136,602 |
| Post Disaster Emergency Water Supply | 96,272 | Meter Replacement | 122,353 |
| Transmission System Component Replacement | 95,000 | Reservoir Log Boom Replacement | 111,759 |
| Goldstream Field Operations Centre | 89,082 | Goldstream Field Operations Centre | 100,000 |
| Goldstream Gate Upgrade | 75,000 | Treatment Plant Emergency Automation | 100,000 |
| Meter Station Backflow Installation | 75,000 | SCADA Integration | 97,967 |
| Sooke River Road Disinfection Facility Upgrade | 75,000 | Dam Emergency Plan & Manual Updates | 90,593 |
| Cathodic Protection Program | 74,625 | Dam Decommissioning | 84,874 |
| Watershed Facilities Upgrade | 64,932 | Water Quality Database Upgrade | 80,022 |
| Gravel Road Compactor | 60,000 | Building Modification | 79,415 |
| Corrosion Protection | 50,000 | Seismic Assessment | 75,532 |
| Humpback Overflow Channel Assessment | 50,000 | Supply System Vulnerability Assessment | 75,464 |
| Other Projects (15 minor projects under \$50k) | 224,704 | Asset Reconciliation/Transfer agreement study | 70,171 |
| Total projected assets capitalized | \$ 10,731,689 | Saddle Dam Piezometer | 66,936 |
| Less: current year's depreciation | (6,408,545) | High Level Output Valve Replacement | 65,874 |
| Less: change in prior year forecast addition estimates, & disposals | (1,609,565) | Goldstream Chlorination System Removal | 60,000 |
| Change in Physical Plant | \$ 2,713,579 | Sooke Lake Dam Spillway Hoist | 60,000 |
| | | Transmission system component upgrades | 55,151 |
| | | Leech River Restoration | 55,000 |
| | | | 50,040 |

Valve Replacement

Sooke Lake Hydrodynamic Model

Less Prior year's projected CWIP Change in CWIP

Other Projects (43 minor projects under \$50k)

Pump Stations

Projected CWIP

50,618

50,000

50,000

678,342

9,949,386

(8,055,763)

1,893,623

\$

\$

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 (sprinklers) | 20 | | |
| Equipment | BOAT | Boats & Marine Equipment | 10 | | |
| | COMP | Computer Equipment (includes software) | 5 | | |
| | ELEC | Electronic Equipment(hydromet, weather stn eqpt) | 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 (<i>radios, phone systems</i>) | 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 | Storage tank | 40 | | |
| | TELP | Telephone and Power Lines | 50 | | |
| | TUNN | Tunnel, Culvert and Diversions | 50 | | |
| | WATP | Water Treatment Plant | 25 | | |
| | WELL | Wet well/ Well | 50 | | |
| Other Assets | CSTU | Capital Management Studies | 5 | | |
| | FENC | Fences | 15 | | |
| | LIMP | Land & Yard Improvements | 20 | | |
| Note 1: Land is not depreciated so a useful life assignment is not applicable. | | | | | |

I

| Change ir Service: | n Budget 2021 to 2022 2.670 Regional Water Supply | Total Expenditure | Comments |
|-----------------------|--|-------------------|--|
| 2021 Bud | get | 34,921,283 | |
| Change ir | n Salaries: | | |
| | Change in Labour | 438,000 | Repurpose 3.0 FTEs from Capital to Operating |
| | 1.0 FTE Infrastructure Integration Technician | 55,000 | IBC 10a-2 Infrastructure Integration Technician |
| | 1.0 FTE Contracts Coordinator | 87,000 | IBC 10e-1 IWS Administrative Contracts Coordinator |
| | Other Labour | 81,207 | |
| | Total Change in Salaries | 661,207 | |
| Other Cha | anges: | | |
| | Transfer to Capital Fund | 850,646 | |
| | Contract for Services | (25,000) | 2021 NSERC funding |
| | Contract for Services | 25,000 | 2022 NSERC funding |
| | Contract for Services | (150,000) | IBC 10d-3 2021 Watershed Hydrology Monitoring |
| | Contract for Services | 150,000 | IBC 10d-3 2022 Watershed Hydrology Monitoring |
| | Principal & Interest Payments | (40,740) | |
| | Agriculture Water Rate Funding | 100,000 | |
| | Other Costs | 46,874 | |
| | Total Other Changes | 956,780 | |
| 2022 Bud | get | 36,539,270 | |
| | % expense increase from 2021: | 4.6% | |

Overall 2021 Budget Performance

(expected variance to budget and surplus treatment)

Favourable water sales variance of \$1,792,000 (5.1%) due to higher than budgeted water sales largely a result of increased temperatures. There is an additional favourable operating variance of \$529,000 (1.5%) largely due to reduced staffing costs from vacant positions. The net surplus of \$2,300,000 will be transferred to the services' Water Capital Fund.

2022 Demand Estimate

Wholesale Demand

2022 Demand Estimate

| | Actual | Budgeted |
|-------|-------------|------------|
| | Demand | Demand |
| Years | cu.metre | cu.metre |
| | | |
| 2017 | 46,515,000 | 45,000,000 |
| 2018 | 48,300,036 | 45,000,000 |
| 2019 | 47,734,121 | 46,500,000 |
| 2020 | 48,730,475 | 48,000,000 |
| 2021 | 50,500,000* | 48,000,000 |
| | 49,000,000 | |

* Projected consumption for 2021

Summary of Wholesale Water Rates

| | 2018 | 2019 | 2020 | 2021 | 2022 | Change |
|----------------------|----------|----------|----------|----------|----------|----------|
| Wholesale water rate | | | | | | |
| Unit cost per cu.m. | \$0.6644 | \$0.6775 | \$0.6968 | \$0.7148 | \$0.7332 | \$0.0184 |

Wholesale Water Rate Increase Impact on Residential Water Bill

Average Annual Consumption : 235.0 cubic metres

| Charge for Twelve Months Const | umption | Annual Charge | A | 2022 nnual ange \$ |
|--------------------------------|-----------|------------------|----|--------------------------|
| Average Consumption | 2021 Year | \$ 167.98 | | |
| | 2022 | \$ 172.30 | \$ | 4.32 |
| Half Average Consumption | 2021 Year | \$ 83.99 | | |
| | 2022 | \$ 86.15 | \$ | 2.16 |
| Twice Average Consumption | 2021 Year | \$ 335.96 | | |
| | 2022 | \$ 344.60 | \$ | 8.65 |

CAPITAL REGIONAL DISTRICT

| | | | | 2022 BUDGET R | EQUEST | | | FUTURE PRO | JECTIONS | |
|---|--|--|--|------------------------|-------------------|--|--|--|--|--|
| Program Group: CRD-Regional Water Supply SUMMARY | 2021 BOARD BUDGET | 2021 ESTIMATED ACTUAL | 2022 CORE BUDGET | 2022 ONGOING | 2022 ONE-TIME | TOTAL (COL 4,5&6) | 2023 | 2024 | 2025 | 2026 |
| 1 | 2 | 3 | 4 | 5 | 6 | (COL 4, 5 & 6) 7 | 8 | 9 | 10 | 11 |
| | | | | | | | | | | |
| GENERAL PROGRAM EXPENDITURES: WATERSHED PROTECTION WATER MANAGEMENT WATER QUALITY CROSS CONNECTION | 5,568,054 5,610,530 1,830,256 737,690 | 5,396,029 5,562,367 1,932,040 736,076 | 5,515,703 6,272,411 1,862,117 754,239 | - - - | 175,000 - - | 5,690,703 6,272,411 1,862,117 754,239 | 5,626,017 6,397,555 1,894,732 769,271 | 5,738,538 6,525,042 1,934,572 784,643 | 5,853,308 6,654,842 1,975,240 800,308 | 5,970,374 6,787,485 2,016,770 816,283 |
| DEMAND MANAGEMENT INFRASTRUCTURE ENGINEERING FLEET OPERATION & MAINTENANCE CUETOME TECHNICAL SERVICES & CM SUPPORT # | 686,034 486,900 (297,540) 719,362 | 659,157 529,130 (240,433) 336,746 | 705,184 496,982 (314,181) 439,912 | - - - 142,000 | - | 705,184 496,982 (314,181) 581,912 | 719,221 506,930 (320,470) 594,126 | 733,564 517,070 (326,880) 606,618 | 748,216 527,420 (333,420) 619,364 | 763,160 537,960 (340,090) 632,350 |
| CUSTOMER TECHNICAL SERVICES & GM SUPPORT * | 7 19,362 | 330,740 | 439,912 | 142,000 | - | 581,912 | 594,126 | 000,018 | 619,364 | 632,350 |
| TOTAL OPERATING EXPENDITURES Percentage increase over prior year's board budget | 15,341,286 | 14,911,112 | 15,732,367 2.55% | 142,000 | 175,000 | 16,049,367 4.62% | 16,187,382 0.86% | 16,513,167 2.01% | 16,845,278 2.01% | 17,184,292 2.01% |
| AGRICULTURAL WATER RATE FUNDING | 1,600,000 | 1,700,000 | 1,700,000 6.25% | - | - | 1,700,000 6.25% | 1,750,000 2.94% | 1,800,000 2.86% | 1,850,000 2.78% | 1,900,000 2.70% |
| CAPITAL EXPENDITURES & TRANSFERS TRANSFER TO WATER CAPITAL FUND TRANSFER TO EQUIPMENT REPLACEMENT FUND TRANSFER TO DEBT RESERVE FUND | 9,297,180 297,540 51,610 | 11,596,789 297,540 33,610 | 10,152,385 314,181 30,410 | - - - | - | 10,152,385 314,181 30,410 | 11,650,000 320,465 127,410 | 16,950,000 326,874 101,410 | 18,600,000 333,411 93,810 | 19,800,000 340,080 30,410 |
| TOTAL CAPITAL EXPENDITURES & TRANSFERS | 9,646,330 | 11,927,939 | 10,496,976 | - | - | 10,496,976 | 12,097,875 | 17,378,284 | 19,027,221 | 20,170,490 |
| DEBT SERVICING DEBT - INTEREST & PRINCIPAL | 8,333,667 | 8,297,919 | 8,292,927 | - | - | 8,292,927 | 7,592,710 | 3,408,010 | 3,379,253 | 3,357,424 |
| TOTAL DEBT EXPENDITURES <u>DEFICIT TRANSFERRED TO FOLLOWING YR</u> TRANSFER TO FOLLOWING YEAR DEFICIT CARRY FORWARD | 8,333,667 | 8,297,919 | 8,292,927 | - | - | 8,292,927 | 7,592,710 | 3,408,010 | 3,379,253 | 3,357,424 |
| TOTAL EXPENDITURES | 34,921,283 | 36,836,970 | 36,222,270 | 142,000 | 175,000 | 36,539,270 | 37,627,967 | 39,099,461 | 41,101,752 | 42,612,206 |
| SOURCES OF FUNDING | | | | | | | | | | |
| REVENUE - SALES REVENUE - OTHER | (34,305,613) (615,670) | (36,097,400) (739,570) | (35,609,800) (612,470) | (142,000) - | (175,000) - | (35,926,800) (612,470) | (37,015,497) (612,470) | (38,486,991) (612,470) | (40,489,282) (612,470) | (41,999,736) (612,470) |
| TOTAL SOURCE OF FUNDING FROM OPERATIONS | (34,921,283) | (36,836,970) | (36,222,270) | (142,000) | (175,000) | (36,539,270) | (37,627,967) | (39,099,461) | (41,101,752) | (42,612,206) |
| TRANSFER FROM PRIOR YEAR TRANSFER TO FOLLOWING YEAR SURPLUS CARRY FORWARD | - | - | - | - | - | | - | - | - | - |
| TOTAL SOURCES OF FUNDING | (34,921,283) | (36,836,970) | (36,222,270) | (142,000) | (175,000) | (36,539,270) | (37,627,967) | (39,099,461) | (41,101,752) | (42,612,206) |
| Percentage increase over prior year's board budget | | | 3.73% | | | 4.63% | 2.98% | 3.91% | 5.12% | 3.67% |
| | | | | | | | | | | |

FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2022 to 2026

| Service No. | 2.670 Regional Water Supply | Carry Forward | 2022 | 2023 | 2024 | 2025 | 2026 | TOTAL |
|-------------|---------------------------------|------------------|--------------|--------------|--------------|--------------|-------------|--------------|
| | | from 2021 | | 2020 | 2024 | 2020 | 2020 | |
| | EXPENDITURE | | | | | | | |
| | Buildings | \$510,000 | \$5,110,000 | \$3,020,000 | \$20,000 | \$0 | \$0 | \$8,150,000 |
| | Equipment | \$1,060,000 | \$7,115,000 | \$2,970,000 | \$940,000 | \$760,000 | \$610,000 | \$12,395,000 |
| | Land | \$445,000 | \$1,495,000 | \$895,000 | \$590,000 | \$430,000 | \$235,000 | \$3,645,000 |
| | Engineered Structures | \$7,525,000 | \$11,550,000 | \$17,735,000 | \$19,925,000 | \$20,725,000 | \$3,000,000 | \$72,935,000 |
| | Vehicles | \$406,000 | \$1,427,250 | \$406,000 | \$290,000 | \$450,000 | \$200,000 | \$2,773,250 |
| | | \$9,946,000 | \$26,697,250 | \$25,026,000 | \$21,765,000 | \$22,365,000 | \$4,045,000 | \$99,898,250 |
| | SOURCE OF FUNDS | | | | | | | |
| | Capital Funds on Hand | \$9,655,000 | \$22,952,000 | \$12,420,000 | \$14,375,000 | \$15,575,000 | \$3,845,000 | \$69,167,000 |
| | Debenture Debt (New Debt Only) | \$0 | \$0 | \$9,700,000 | \$7,100,000 | \$6,340,000 | \$0 | \$23,140,000 |
| | Equipment Replacement Fund | \$291,000 | \$1,205,250 | \$406,000 | \$290,000 | \$450,000 | \$200,000 | \$2,551,250 |
| | Grants (Federal, Provincial) | \$0 | \$40,000 | \$0 | \$0 | \$0 | \$0 | \$40,000 |
| | Donations / Third Party Funding | \$0 | \$2,500,000 | \$2,500,000 | \$0 | \$0 | \$0 | \$5,000,000 |
| | Reserve Fund | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | \$9,946,000 | \$26,697,250 | \$25,026,000 | \$21,765,000 | \$22,365,000 | \$4,045,000 | \$99,898,250 |

FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2022 to 2026

| Service No. | 2.670/2.680 Regional Water Supply & JDF Water Distribution Combo | Carry Forward from 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | TOTAL |
|-------------|---|-------------------------------|-------------|-----------|-----------|-----------|-----------|-------------|
| | EXPENDITURE | | | | | | | |
| | Buildings | \$0 | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$400,000 |
| | Equipment | \$800,000 | \$2,160,000 | \$330,000 | \$330,000 | \$330,000 | \$250,000 | \$3,400,000 |
| | 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 |
| | | \$800,000 | \$2,240,000 | \$410,000 | \$410,000 | \$410,000 | \$330,000 | \$3,800,000 |
| | SOURCE OF FUNDS | | | | | | | |
| | Capital Funds on Hand | \$800,000 | \$2,240,000 | \$410,000 | \$410,000 | \$410,000 | \$330,000 | \$3,800,000 |
| | 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 |
| | | \$800,000 | \$2,240,000 | \$410,000 | \$410,000 | \$410,000 | \$330,000 | \$3,800,000 |

5 YEAR CAPITAL PLAN

2022 - 2026

| 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, 22-01 is a project planned to start in 2022. For projects in previous capital plans, use the same project numbers previously | | d service benefits. ment of a 40 year old roof above the swimming pool area; the new rooting system is designed to minimize maintenance and have an expected service life of 35 years". | Carryforward from 2021 Input the carryforward amount from the 2021 capital plan that is remaining to be spent. Forecast this spending in 2022 to 2026. | 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 = Economic benefit to the organization. | | | | |
|--|--|---|---|---|--|--|--|--|
| assigned. Sapital Expenditure Type Study - Expenditure for feasibility and business case report. New - Expenditure for new asset only Renewai - Expenditure upgrades an existing asset and extends the service ability or | Total Project Budget Provide the total project budget, even if it extends beyond the 5 years of this capital plan. | Eunding Source Codes Debt = Debenture Debt (new debt only) ERF = Equipment Replacement Fund Grant = Grants (Gedrael, Provincial) Cap = Capital Funds on Hand Other = Donations / Third Party Funding Res = Reserve Fund | Long-term Planning Master Plan / Servicing Plan – Plan that identifies new assets Asset Management Plan / Sustainable Service Delivery Plan condition, risk, replacement costs as well as external impacts. Replacement Plan – Plan that identifies asset replacements ba Condition Assessment = Assessment that identifies asset replace | = Integrated plan that identifies asset replacements based on level of service, criticality, sed primarily on asset age or asset material/type. | | | | |
| enhances technology in delivering that service Replacement - Expenditure replaces an existing asset Capital Projectifite Input title orgenizet. For example "Asset Name - Roof Replacement", "Main Water Pipe Replacement". | Asset Class L - Land S - Engineering Structure B - Buildings V - Vehicles | KR = Krocher Fullu STiloan = Short Term Loans WU - Water Utility If there is more than one funding source, use additional rows for the project. | Cost Estimate Class Class A (110-15%) = 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 D (15-25%) = Estimate based on limited is time information; used for program planning. Class D (150%) = Estimate based on limited is time information; used for long-term planning. | | | | | |

Service #: 2.670

Service Name: Regional Water Supply

| Project List ar | nd Budget | | | | | | | | | | | | |
|-----------------|--------------------------------|---|---|-------------------------|----------------|-------------------|---------------------------|-------------|-------------|-----------|-----------|-----------|----------------|
| Project Number | Capital Expenditure Type | Capital Project Title | Capital Project Description | Total Project Budget | Asset Class | Funding Source | Carryforward from 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 5 - Year Total |
| WATERSHED P | ROTECTION | | | | | | | | | | | | |
| Planning | | | | | | | | | | | | | |
| 17-01 | Renewal | Historic Goldstream Powerhouse Building | Repairs of historic Goldstream Powerhouse building and work toward making the site accessible to the public | \$166,000 | В | WU | - | \$10,000 | \$20,000 | \$20,000 | - | - | \$50,000 |
| 17-04 | New | Water Supply Area - Fish Stream Assessments | Inventory and assessment of fish, fish habitat, and stream channel stability in priority streams in the GVWSA. | \$325,000 | L | WU | \$18,000 | \$18,000 | - | - | - | - | \$18,000 |
| 18-10 | Study | Species-at-Risk Wildlife Habitat | Assessments (office and field) and planning for managing wildlife habitat, in particular species-at-risk habitat, in the GVWSA. | \$185,000 | L | WU | \$8,000 | \$8,000 | \$50,000 | - | - | - | \$58,000 |
| 19-30 | Study | Leech WSA Lakes/Tributaries Assessment | An assessment of the physical, chemical and biological parameters of the lakes in the Leech WSA. | \$75,000 | L | WU | \$50,000 | \$50,000 | - | - | - | - | \$50,000 |
| 20-05 | Renewal | Leech WSA Terrestrial Ecosystem Mapping & Wetland Classification/Mapping | Classification and mapping of terrestrial ecosystems and wetlands and integration with Sooke and Goldstream data. | \$180,000 | L | WU | - | \$180,000 | - | - | - | - | \$180,000 |
| 20-06 | Study | Addressing mining in Leech WSA (impacts, agreements) | Funding to support work to reduce the impact of mining claims in the Leech WSA | \$60,000 | L | WU | \$24,000 | \$24,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$64,000 |
| 20-27 | Study | GVWSA Forest Resilience - wildfire/forest modelling and forest management field trials | Modelling forest and wildfire risk under climate change scenarios & forest/fuel management field trials. | \$260,000 | L | WU | \$75,000 | \$145,000 | \$50,000 | - | - | - | \$195,000 |
| 20-28 | Study | GVWSA Forest Resilience - Assessments of forest health and resilience | Field assessments to better understand current forest neatin and resilience. | \$230,000 | L | WU | \$65,000 | \$160,000 | \$60,000 | - | - | - | \$220,000 |
| 21-19 | Study | Lakes Assessment Sooke and Goldstream WSAs | An assessment of the physical, chemical and biological parameters of the natural lakes in Socke and Goldstream WSAs | \$75,000 | L | WU | \$75,000 | \$75,000 | - | - | - | - | \$75,000 |
| 21-20 | Study | West Leech Road | Plan followed by construction of a road to access the western portion of the Leech WSA. | \$320,000 | L | WU | \$10,000 | \$110,000 | \$100,000 | \$100,000 | - | - | \$310,000 |
| 22-03 | Study | GVWSA Land Exchange/Acquisition | Land surveys, appraisals to support decisions regarding land exchange to increase catchment area or buffer water supply areas. | \$180,000 | L | WU | - | \$60,000 | \$60,000 | \$60,000 | - | - | \$180,000 |
| 23-02 | Renewal | GVWSA LiDAR Mapping | Detailed contour mapping of ground, vegetation and tree cover (3D scanning) | \$120,000 | L | WU | - | - | \$120,000 | - | - | - | \$120,000 |
| 22-04 | Renewal | GVWSA Orthophotography | Annual contribution to capture of regional digital orthophotography for baseline mapping and monitoring. | \$95,000 | L | wu | - | \$15,000 | \$15,000 | \$20,000 | \$20,000 | \$25,000 | \$95,000 |
| 22-09 | Study | GVWSA Powerlines Wildfire Risk Mitigation Plan | A detailed assessment, options and plan to reduce the risk of wildfire start from tree fall onto CRD powerlines in the GVWSA. | \$50,000 | L | wu | - | \$50,000 | - | - | - | - | \$50,000 |
| 22-10 | New | GVWSA/RWS Educational Videos | Development of educational videos to address Regional Water Supply issues of interest to the public such as: wildfire risk and mitigation; climate change; water supply master plan update. | \$60,000 | L | wu | - | \$30,000 | \$30,000 | - | - | - | \$60,000 |
| 23-05 | Study | Spill Management Plan and Implementation | Review, assessment and re-development of a spill management plan for the GVWSA along with potential procurement of additional equipment or supplies. | \$50,000 | L | wu | - | \$50,000 | - | - | - | - | \$50,000 |
| | | | | | | | | | | | | | 1 |
| Capital | | | | AF 750 000 | | 1401 | | | | | | | 0005 000 |
| 09-01 | Renewal | Leech River Watershed Restoration | A 17 year project to restore the Leech WSA lands for water supply. The GVWSA entry gatehouse at Goldstream is past end of life and is to be replaced with a purpose built structure | \$5,756,000 | L | WU | \$25,000 | \$225,000 | \$200,000 | \$200,000 | \$200,000 | - | \$825,000 |
| 16-01 | Renewal | Replace Gatehouse at Goldstream Entrance | with improved vehicle flow and security function. | \$1,800,000 | В | WU | \$310,000 | \$1,710,000 | - | - | - | - | \$1,710,000 |
| 16-06 | Renewal | Goldstream IWS Field Office1 | Renewal of Water Quality field office, lab and equipment and supplies storage and Watershed Protection office, training space and equipment storage at Goldstream entrance, replacing longstanding temporary facilities. | \$1,500,000 | в | WU | \$200,000 | \$850,000 | \$500,000 | - | - | - | \$1,350,000 |
| 16-06 | | | | \$5,000,000 | В | Other | - | \$2,500,000 | \$2,500,000 | - | - | - | \$5,000,000 |
| 17-02 | New | Leech River HydroMet System | Installation of a network of hydrometeorological stations to collect water quantity and quality information for the Leech WSA. | \$0 | E | WU | \$80,000 | \$80,000 | - | - | - | - | \$80,000 |
| 18-05 | New | GVWSA Forest Fuel Management/FireSmart Activities | Implementation of forest fuel management and FireSmart actions in strategic locations for wildfire risk management in the GVWSA. | \$850,000 | L | WU | \$50,000 | \$150,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$550,000 |
| 19-02 | New | Whiskey Creek Bridge Replacement (Sooke WSA) | | \$300,000 | s | WU | - | - | \$300,000 | - | - | - | \$300,000 |
| 19-19 | New | Hydromet Upgrades Sooke and Goldstream | Install additional hydrology monitoring sites on Sooke Lake Reservoir inflow streams and increase instrumentation on meteorological stations in Sooke and Goldstream watersheds. | \$170,000 | E | WU | \$50,000 | \$50,000 | - | - | - | - | \$50,000 |
| 20-01 | Replacement | Kapoor Main Mile 1 Bridge and Asphalt Upgrade | Replacement of the existing undersized culvert with a large bridge as well as subsequent 500 m road asphalt replacement. | \$560,000 | s | WU | - | \$400,000 | \$160,000 | - | - | - | \$560,000 |
| 20-29 | Renewal | GVWSA Gravel Crushing | Production of gravel at existing quarries in Sooke and Goldstream WSAs. | \$650,000 | S | WU | - | - | \$100,000 | - | - | \$200,000 | \$300,000 |
| 21-01 | New | 31N Bridge to Replace Undersized Culvert (Goldstream WSA) | Replacement of the existing undersized and failing culvert with a bridge structure. | \$325,000 | s | WU | \$25,000 | \$25,000 | - | - | - | - | \$25,000 |

Service #: 2.670 Service Name:

Regional Water Supply

| Project List a | nd Budget | | | | | | | | | | | | |
|------------------|--------------------------------|---|--|-------------------------|----------------|-------------------|---------------------------|------------------------|--------------|--------------|--------------|-------------|------------------------|
| Project Number | Capital Expenditure Type | Capital Project Title | Capital Project Description | Total Project Budget | Asset Class | Funding Source | Carryforward from 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 5 - Year Total |
| 21-26 | New | Road Deactivation/Rehabilitation in the GVWSA | Deactivate or rehabilitate unneeded roads in the Sooke and Goldstream WSAs. | \$520,000 | L | WU | - | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$500,000 |
| 21-27 | New | Autogate Installations on Primary Access Routes | Install autogates on the main access routes where the Sooke Hills Wilderness Trail and E&N rail line cross to improve security | \$800,000 | s | WU | - | \$250,000 | \$300,000 | - | - | - | \$550,000 |
| 21-28 | New | GVWSA Land Acquisition Priorities | Acquisition of land parcel near Grant Lake and security installations. | \$750,000 | L | WU | \$45,000 | \$45,000 | - | - | - | - | \$45,000 |
| 22-02 | New | Muckpile Bridge Supply and Install (Deception) | Replacement of undersized culverts with bridge which will allow for fish and western toad migration. | \$325,000 | S | WU | - | - | - | - | \$325,000 | - | \$325,000 |
| 23-04 | Renewal | 17S/Sooke Main Bridge Replacement 6M/Judge Creek Culvert Replacement (Sooke | Undersized bridge replacement | \$300,000 | S | WU | - | - | - | - | - | \$300,000 | \$300,000 |
| 24-01 | Renewal | WSA) | Undersized culvert replacement | \$200,000 | S | WU | - | - | - | \$200,000 | - | - | \$200,000 |
| 22-11 | New | Additional Boom Anchors for Sooke Lake Reservoir debris boom | The log boom protecting the Sooke Lake Reservoir Intake Tower from floating woody debris is inadequately anchored and requiring two additional anchors. | \$60,000 | E | wu | - | \$40,000 | - | - | - | - | \$40,000 |
| 22-12 | Renewal | Replace Zodiac for Sooke Lake Reservoir | The zodiac for nearshore work in Sooke Lake Reservoir is at end-of-life and requires replacement. | \$10,000 | E | WU | - | \$10,000 | - | - | - | - | \$10,000 |
| 22-13 | Renewal | Replace Storage Sheds with Containers | The existing storage shed does not provide proper storage for supplies and should be replaced with rodent proof sea containers A towable work blatform for conducting stationary on-water work activities such as boom and intake | \$50,000 | E | WU | - | \$20,000 | - | - | - | - | \$20,000 |
| 23-10 | New | Work platform for Sooke Lake Reservoir | A covaria work platform for conducting stationary on-water work activities such as boom and intake tower maintenance and spill response. A secondary wildfire camera to monitor for heat and smoke signatures in the Leech WSA during fire | \$30,000 | E | WU | - | - | \$30,000 | - | - | - | \$30,000 |
| 23-11 | New | Second Wildfire Camera for Leech WSA | season. | \$50,000 | E | wu | - | - | \$50,000 | - | - | - | \$50,000 |
| WaterShed Pro | tection Sub-To | otal | | \$22,437,000 | | | \$1,110,000 | \$7,440,000 | \$4,855,000 | \$810,000 | \$755,000 | \$735,000 | \$14,595,000 |
| NEDASTRUCT | | ERING AND OPERATIONS | | | | | | | | | 1 | | 1 |
| Planning | | | | | | | | | | | | | |
| 16-10 | New | Post Disaster Emergency Water Supply Asset Management Plan | Identify and procure emergency systems for post disaster preparedness. | \$2,050,000 | S | WU | - | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$1,000,000 |
| 17-13 | New | | Development of a plan to inform future areas of study and highlight critical infrastructure improvements. Determine the existing level-of-service for the RWSC transmission system and conduct a transient pressure analysis | \$400,000 \$250,000 | S | WU WU | \$200,000 \$100,000 | \$200,000 \$100,000 | - | - | - | - | \$200,000 \$100,000 |
| 20-08 | Study | Regional Water DCC Program | Design of a Regional DCC Program | \$200,000 | s | WU | \$100,000 | \$100,000 | - | - | - | - | \$100,000 |
| 20-10 | Study | Condition & Vulnerability Assessment | Conduct a condition assessment of critical supply infrastructure and assess its possibility of risk. | \$200,000 | S | WU | \$200,000 | \$200,000 | - | - | - | - | \$200,000 |
| 20-11 | Study | Develop Master Plan | Develop a long term strategic plan to anticipate water demand, water treatment, and future siting of facilities. From #19-15 & #20-11, develop level-of-service agreements for participating municipalities to address hydraulic | \$500,000 | s | WU | \$100,000 | \$100,000 | - | - | - | - | \$100,000 |
| 21-05 | Study | Level of Service Agreement | capacity of infrastructure. | \$150,000 | s | WU | \$150,000 | \$150,000 | - | - | - | - | \$150,000 |
| Capital 18-07 | New | Replacement of UV System | Replacement of the UV system at the Goldstream Water Treatment Plant | \$5,400,000 | E | WU | \$100,000 | \$3,100,000 | \$1,800,000 | - | - | | \$0 \$4,900,000 |
| 18-08 | Replacement | Bulk Supply Meter Replacement Program | Planned replacement of aging bulk meter replacement based upon a condition assessment and water audit. | \$2,050,000 | E | WU | \$100,000 | \$300,000 | \$200,000 | \$200,000 | \$150,000 | - | \$850,000 |
| 18-15 | Renewal | Corrosion Protection Program | Study deficiencies in the current material protection and implement recommendations. | \$1,150,000 | S | WU | \$50,000 | \$200,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 | \$800,000 |
| 18-18 | Replacement | Main No.3 Segment Replacement | Replacement of segments of Main No. 3 based upon previous studies. | \$15,600,000 | S | WU | \$150,000 | \$600,000 | \$4,900,000 | \$4,900,000 | \$4,900,000 | - | \$15,300,000 |
| 19-05 | Renewal | Repairs - Kapoor Shutdown | Repair items such as defects in the Kapoor tunnel, replacement of critical valves, intake exterior inspection and | \$600,000 | s | WU | - | - | - | \$100,000 | - | - | \$100,000 |
| 19-23 | New | Critical Spare Equipment Storage & Pipe Yard | actuator replacement while the Kapoor tunnel is shutdown. Plan, design and construct a critical equipment storage building. | \$600,000 | s | WU | \$200,000 | \$200,000 | \$300,000 | - | | | \$500,000 |
| 20-16 | Replacement | Cecelia Meter Replacement | Replacement of the Cecelia billing meter as well as its enclosure. | \$1,000,000 | S | WU | - | \$450,000 | \$450,000 | - | - | | \$900,000 |
| 20-17 | Replacement | | Plan and decommission the abandoned Smith Hill reservoir site. | \$800,000 | S | WU | - | \$150,000 | \$2.400.000 | \$500,000 | | | \$650,000 |
| 20-32 | New | pH Adjustment Facility Sooke Lake Dam Spillway Hoist and Stop Log | Design and construct a pH adjustment facility based upon the results of the pH and corrosion study. | \$2,500,000 | S | WU | - | \$100,000 | \$2,400,000 | - | | - | \$2,500,000 |
| 21-06 | Replacement | Replacement Goldstream Water Treatment Plant | Replacement of the sluice gate spillway hoist and stop logs at Sooke Lake Dam. Increase reliability and resilience of data and voice communications between the UV Plant, Sodium Hypochlorite | \$275,000 \$250.000 | E | wu | - | \$200,000 \$50.000 | - | - | - | - | \$200,000 \$50.000 |
| 21-07 | New | Communications Upgrade Goldstream Water Chlorination Gas System | Building, Ammonia Building. Plan and construct provisions for removal of chlorination system | \$200,000 | s | wu | \$100.000 | \$100,000 | | - | - | - | \$100,000 |
| 21-10 | Replacement | Removal SCADA Masterplan and System Upgrades | Update the SCADA Master Plan in conjunction with the Juan de Fuca Water Distribution, Saanich Peninsula Water | \$650.000 | Е | wu | \$50.000 | \$500.000 | _ | _ | | | \$500.000 |
| 21-10 | Replacement | SCADA masterplan and System opgrades | and Wastewater, and Core Area Wastewater Services. Upgrade vulnerable sections of the RWS Supply Main No. 4 and Main No. 1 to a resilient system to better able to | \$030,000 | E | WO | \$30,000 | \$500,000 | - | - | - | - | \$500,000 |
| 21-11 | Replacement | RWS Supply Main No. 4 Upgrade | withstand a seismic event. This is part of project partnered with the Saanich Peninsula Water system. | \$33,900,000 | s | WU | \$1,500,000 | \$1,500,000 | \$6,300,000 | \$11,400,000 | \$13,500,000 | \$900,000 | \$33,600,000 |
| 21-12 | New | CDDDE Unanda | Increased water flows in the Sooke region have resulted in an additional sodium hypochlorite dosing pump and | \$425,000 | F | wu | _ | \$350,000 | | | | | \$350.000 |
| 21-12 | New | SRRDF Upgrade Sooke River Intake Feasibility | automation for summer flows. A feasibility study for an intake from Sooke River to replace the Main No. 15 salmon fishery contribution, | \$50,000 | s | wu | - | \$50,000 | - | - | | - | \$350,000 |
| 22-15 | New | Microwave Radio Upgrades | for a variety of reasons. To provide a high bandwidth communications backbone to the RWS system, a microwave | \$300,000 | s | wu | - | \$300,000 | - | - | - | - | \$300,000 |
| 22-16 | Renewal | Goldstream WTP Drainage Improvements | communications system will be installed. Construct drainage improvements for the Goldstream Water Treatment Plant and assess | \$200,000 | s | WU | - | \$200,000 | - | - | | - | \$200,000 |
| 22-16 | New | | Construct drainage improvements for the Goldstream water Treatment Plant and assess Construct employee and public safety improvements such as a trail notification system if there was an | \$200,000 | E | WU | - | \$200,000 | - | | | | \$200,000 |
| | | Goldstream WTP Safety Improvements | ammonia spill. | , | E | WU | - | | - | - | | | |
| Intrastructure E | ngineering an | d Operations Sub-Total | | \$69,900,000 | | | \$3,150,000 | \$9,600,000 | \$16,700,000 | \$17,450,000 | \$18,900,000 | \$1,250,000 | \$63,900,000 |
| DAM SAFETY F | ROGRAM | | Database) | | | | | | | | | | |
| 16-16 | Renewal | Implications from Goldstream Dam Safety Review | Conduct dam improvements at the Goldstream dams that resulted for the Dam Safety Review and routine inspections (refer to the Dam Safety Database). | \$825,000 | s | WU | \$200,000 | \$275,000 | \$75,000 | \$75,000 | - | - | \$425,000 |
| 16-17 | Renewal | Butchart Dam No. 5 Remediation Planning & Construction | Phase 1 Rehabilitation (grouting) of Butchart Dam No. 5 and planning for Phase 2. Conduct dam improvments at the Sockel Lake Dam that resulted from the Dam Safety Review and routine | \$3,550,000 | s | WU | \$2,000,000 | \$2,000,000 | - | - | - | - | \$2,000,000 |
| 17-25 | Renewal | Implications from Sooke Lake Dam Safety Review Sooke Lake Dam - Instrumentation System | inspections (refer to the Dam Safety Database) | \$1,210,000 | s | WU | \$500,000 | \$500,000 | - | - | - | - | \$500,000 |
| 18-19 | New | Sooke Lake Dam - Instrumentation System Improvements Sooke Lake Dam - Breach Risk Reduction | Complete dam performance instrumentation system/surveillance improvements for the Sooke Lake Dam. Implement measures to reduce Sooke Lake Dam breach implications in the unlikely event of dam failure (refer to the | \$1,300,000 | S | WU | \$500,000 | \$600,000 | \$100,000 | \$100,000 | - | - | \$800,000 |
| 18-20 | New | Measures Integrate Dam Performance and Hydromet to | NHC Consulting study). Integrate the dam safety instrumentation/surveillance (i.e. piezometers and weirs) and HydroMet stations to report to | \$600,000 | s | WU | \$500,000 | \$500,000 | - | - | - | - | \$500,000 |
| 19-07 | New | SCADA | WIO through the existing SCADA system. | \$1,100,000 | E | WU | \$500,000 | \$1,000,000 | - | - | - | - | \$1,000,000 |
| 19-09 | New | Cabin Pond Dams Decommissioning | The Cabin Pond Dams (x2) have been retired from drinking water service, plan to decommission. | \$100,000 | S | WU | | - | - | \$100,000 | · · | | \$100,000 |
| 19-12 | New | Goldstream Dams Instrumentation Improvements | Conduct dam safety instrumentation/surveillance improvements (refer to report from Thurber Engineering). The existing dam safety instrumentation/surveillance equipment is getting older and will need to be | \$600,000 | s | WU | \$500,000 | - | \$100,000 | \$400,000 | - | - | \$500,000 |
| | New | Dam Safety Instrumentation | replaced/rehabilitated (does not include pending SCADA effort). | \$300,000 | E | WU | \$100,000 | \$150,000 | \$50,000 | \$50,000 | - | - | \$250,000 |

Service #: 2.670 Regional Water Supply Service Name:

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|-----------|-----|------------|--|

| | and Budget | | | | | | | | | | | | |
|--|---|---|--|--|--|---|---|---|--|---|--|--|---|
| Project Number | Capital Expenditure Type | Capital Project Title | Capital Project Description | Total Project Budget | Asset Class | Funding Source | Carryforward from 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 5 - Year Total |
| 20-19 | Replacement | Goldstream System High Level Outlet Valve Replacements | The Goldstream and Butchart high level outlet valves have been identified as requiring replacement. | \$200,000 | s | WU | \$50,000 | \$150,000 | - | - | - | - | \$150,000 |
| 21-03 | New | Deception Dam - Dam Safety Review 2021 & Improvements | Conduct a Dam Safety Review and improvements for the Deception Dam. | \$300,000 | s | WU | \$100,000 | \$200,000 | - | - | - | - | \$200,000 |
| 21-04 | New | Saddle Dam - Dam Safety Review 2021 & Improvements | Conduct a Dam Safety Review and improvements for the Saddle Dam. | \$200,000 | s | WU | \$100,000 | \$100,000 | - | - | - | - | \$100,000 |
| 21-21 | Replacement | Goldstream Dams - 4 Low Level Gate Improvements | Logistics planning in 2021, installation in 2022 | \$150,000 | s | WU | \$100,000 | \$100,000 | - | - | - | - | \$100,000 |
| 21-22 22-08 | Study New | Charters Dam - Dam Safety Review 2021 Deception Dam Surveillance Improvements | Legislated obligation to conduct Dam Safety Review. Replace and supplement the Dam Safety Instrumentation at Deception Dam. | \$250,000 \$450,000 | S S | WU WU | \$50,000 | \$150,000 \$150,000 | - \$300,000 | - | - | - | \$150,000 \$450,000 |
| 23-01 | New | Sooke Lake Dam Update Seismic Assessment | Conduct a seismic assessment of the Sooke Lake Dam as per the previous Dam Safety Reviews. | \$150,000 | Е | WU | - | - | \$150,000 | - | - | - | \$150,000 |
| 23-07 | Renewal | Sooke Lake Dam Spillway and Gates Retrofit | Detail and construct seismic retrofits for the existing structures initially focusing on the spillway and gates structures. | \$450,000 | s | WU | - | - | \$150,000 | \$300,000 | - | - | \$450,000 |
| 23-08 | Study | Regional Watershed Dams – Flood Forecasting System | Update the existing flood forecasting system (WD4Cast) to a modern version including Standard Operating Procedures and training for staff. | \$300,000 | s | WU | - | - | \$150,000 | \$150,000 | - | - | \$300,000 |
| 23-09 | Study | Sooke Lake Dam - Dam Safety Review 2023 & Addressing Implications | Conduct a Dam Safety Review (recommended 10 year review cycle) | \$800,000 | s | WU | - | - | \$200,000 | \$300,000 | \$300,000 | - | \$800,000 |
| 25-01 | Study | Goldstream Dam - Dam Safety Review 2025 & Addressing Implications | Conduct a Dam Safety Review in 2023 (recommended 10 year review cycle) | \$350,000 | s | WU | - | - | - | - | \$150,000 | \$200,000 | \$350,000 |
| 25-02 | Study | Probable Maximum Flood and Inflow Design Flood Updates | Update the previous edition from 2015 (recommended 10 year review cycle). | \$150,000 | s | WU | - | - | - | - | \$150,000 | - | \$150,000 |
| Dam Safety Pr | ogram Sub-To | tal | | \$13,335,000 | | | \$5,200,000 | \$5,875,000 | \$1,275,000 | \$1,475,000 | \$600,000 | \$200,000 | \$9,425,000 |
| WATER QUALI | | | | | | | | | | | | | |
| 20-04 21-13 | New | Sooke Lake HyDy Model Development | Critical data collection, model building+calibration, model utilization for 3 different scenarios | \$340,000 \$150,000 | E | WU WU | \$80,000 | \$260,000 \$10,000 | \$30,000 | \$30,000 | - | - | \$320,000 \$10,000 |
| 21-13 | New Renewal | Flowcam Imaging System Microbiological plate pourer | Utilize semi-automated algal analysis to meet increased demands without increasing FTEs Automation of manual process to increase capacity/worker safety | \$30,000 | F | WU | - | \$10,000 | - | - | - | - | \$10,000 |
| 22-05 | New | WQ Lab Capital Improvements | Building improvements in the lab | \$40,000 | B | WU | - | \$40,000 | | - | | - | \$40,000 |
| 22-05 | Study | Sooke Lake Food Web Study | Assess the aquatic food web structure and create an inventory of fish and invertebrate species and distribution in Sooke Lake Reservoir - to be used as indicators of stream health | \$100,000 | s | WU | - | \$100,000 | - | - | - | - | \$100,000 |
| 22-07 | Study | Bulk-Water Connection Backflow Protection Study | | \$50,000 | s | WU | - | \$50,000 | - | - | - | - | \$50,000 |
| 23-06 | Study | GVDWS Nitrification Study | Investigate nitrification occurrence and potential impacts on drinking water quality | \$50,000 | S | WU | - | - | \$50,000 | - | - | - | \$50,000 |
| 22-19 | New | Microbiological Media Preparator Boat Motor Replacement with Electric Outboards | Microbiological media preparator for automation of manual/hazardous tasks 50hp and 15hp motor replacement due to age and water quality concerns, large electric outboards are already | \$45,000 | E | WU | - | \$45,000 | - | - | - | - | \$45,000 |
| 24-02 | Replacement | (Sooke and Goldstream Boats) | available from Torgeedo for instance | \$60,000 \$865,000 | E | WU | - \$80,000 | \$60,000 \$565,000 | - \$80,000 | - \$30,000 | - \$0 | - \$0 | \$60,000 \$675,000 |
| Water Quality S | Sub-lotal | | | \$865,000 | | | \$80,000 | \$565,000 | \$80,000 | \$30,000 | \$0 | \$0 | \$675,000 |
| ANNUAL PROV | VISIONAL | | | | | | | | | | | | |
| 17-27 | Replacement | Watershed Bridge and Culvert Replacement Watershed Security Infrastructure Upgrade and | Replacement of small culverts and bridges throughout the GVWSA. | \$1,000,000 | S | WU | - | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$1,000,000 |
| 17-28 | Replacement | | New, upgrade and replacement of security infrastructure in the GVWSA. | | | | | | | | | | |
| 17-29 17-30 | | Replacement | | \$600,000 | E | WU | - | \$150,000 | \$150,000 | \$150,000 | \$100,000 | \$100,000 | \$650,000 |
| | | Replacement Water Supply Area Equipment Replacement Transmission Main Repairs | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. | \$600,000 \$425,000 \$1,000,000 | E E S | WU WU WU | - | \$150,000 \$85,000 \$200,000 | \$150,000 \$85,000 \$200,000 | \$150,000 \$85,000 \$200,000 | \$100,000 \$85,000 \$200,000 | | \$650,000 \$425,000 \$1,000,000 |
| 17-31 | Replacement | Water Supply Area Equipment Replacement | Hydrometeorological, fireweather and wildfire suppression equipment replacement. | \$425,000 | E | WU | | \$85,000 | \$85,000 | \$85,000 | \$85,000 | \$100,000 \$85,000 | \$425,000 |
| 17-31 17-33 | Replacement Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission System Components Replacement | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. | \$425,000 \$1,000,000 \$400,000 \$1,000,000 | E S S E | WU WU WU WU | | \$85,000 \$200,000 \$80,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 | \$100,000 \$85,000 \$200,000 \$80,000 \$200,000 | \$425,000 \$1,000,000 \$400,000 \$1,000,000 |
| 17-31 | Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission System Components Replacement | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of incidental equipment and parts associated with the disinfection system. Annual update of the regional hydraulic model. | \$425,000 \$1,000,000 \$400,000 | E S S | WU WU WU | | \$85,000 \$200,000 \$80,000 | \$85,000 \$200,000 \$80,000 | \$85,000 \$200,000 \$80,000 | \$85,000 \$200,000 \$80,000 | \$100,000 \$85,000 \$200,000 \$80,000 | \$425,000 \$1,000,000 \$400,000 |
| 17-31 17-33 | Replacement Replacement Replacement Renewal | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of incidental equipment and parts associated with the disinfection system. | \$425,000 \$1,000,000 \$400,000 \$1,000,000 | E S S E | WU WU WU WU | | \$85,000 \$200,000 \$80,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 | \$100,000 \$85,000 \$200,000 \$80,000 \$200,000 | \$425,000 \$1,000,000 \$400,000 \$1,000,000 |
| 17-31 17-33 17-34 | Replacement Replacement Replacement Renewal Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of incidental equipment and parts associated with the disinfection system. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviewes, but brought up in Dam Safety Inspections and Dam Safety Reviews and | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$100,000 | E S S E S | WU WU WU WU | - | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 | \$100,000 \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$100,000 |
| 17-31 17-33 17-34 19-16 19-22 21-15 | Replacement Replacement Replacement Replacement Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address itesm in the dam safety databaserisk registry Items not covered by the SCADA Replacement and SCADA Master Plan, but Integral in maintaining the SCADA System and revenue meter system. Replace correction protection assets, such as coatings, for the transmission system when identified. | \$425,000 \$1,000,000 \$400,000 \$100,000 \$100,000 \$1,500,000 \$750,000 \$250,000 | E S E S E S | WU WU WU WU WU WU WU | - | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$100,000 \$85,000 \$200,000 \$200,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$425,000 \$1,000,000 \$400,000 \$100,000 \$100,000 \$1,500,000 \$750,000 \$250,000 |
| 17-31 17-33 17-34 19-16 19-22 21-15 21-16 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Vave Chamber Upgrades | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement and repair of transmission components. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address Items in the dam safety database/risk registry. Items not covered by the SCADA Replacement and SCADA Master Plan, but integral in maintaining the SCADA System and revenue meter system. Replace corrosion protection assets, such as coatings, for the transmission system when identified. Replace corrosion protection assets, such as coatings, for the transmission system when identified. | \$425,000 \$1,000,000 \$400,000 \$100,000 \$100,000 \$1,500,000 \$750,000 \$250,000 \$1,000,000 | E S E S E S S S | WU WU WU WU WU WU WU WU | - | \$85,000 \$200,000 \$80,000 \$20,000 \$300,000 \$150,000 \$50,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$300,000 \$150,000 \$50,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$300,000 \$150,000 \$50,000 \$200,000 | \$100,000 \$85,000 \$200,000 \$200,000 \$200,000 \$20,000 \$300,000 \$150,000 \$20,000 | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$1,500,000 \$7,50,000 \$2,50,000 \$1,000,000 |
| 17-31 17-33 17-34 19-16 19-22 21-15 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission Main Repairs Transmission Main Repairs Danis Marking Arats Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Valve Chamber Upgrades Water Cuality Equipment Replacement | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of incidental equipment and parts associated with the disinfection system. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address itesm in the dam safety diabase/risk registry. Items not covered by the SCADA Replacement and SCADA Master Plan, but Integral in maintaining the SCADA System and revenue meter system. Replace corrosion protection assets, such as coatings, for the transmission system when identified. Replace failing valves and appurtenances along the RWS supply system. | \$425,000 \$1,000,000 \$400,000 \$100,000 \$100,000 \$1,500,000 \$750,000 \$250,000 | E S E S E S | WU WU WU WU WU WU WU WU | - | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$100,000 \$85,000 \$200,000 \$200,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 | \$425,000 \$1,000,000 \$400,000 \$100,000 \$100,000 \$1,500,000 \$750,000 \$250,000 |
| 17-31 17-33 17-34 19-16 19-22 21-15 21-15 21-16 21-17 21-18 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Vaive Chamber Upgrades Water Quality Equipment Replacement LIMS support | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement and repair of transmission components. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address Items in the dam safety database/risk registry. Items not covered by the SCADA Replacement and SCADA Master Plan, but integral in maintaining the SCADA System and revenue meter system. Replace corrosion protection assets, such as coatings, for the transmission system when identified. Replace corrosion protection assets, such as coatings, for the transmission system when identified. | \$425,000 \$1,000,000 \$400,000 \$100,000 \$100,000 \$1500,000 \$750,000 \$250,000 \$1,000,000 \$250,000 | E S S S E S E S E E | WU WU WU WU WU WU WU WU | - | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 \$300,000 \$150,000 \$50,000 \$200,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 \$300,000 \$150,000 \$50,000 \$200,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 \$300,000 \$150,000 \$50,000 \$200,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 \$300,000 \$150,000 \$150,000 \$200,000 \$200,000 | \$100,000 \$85,000 \$200,000 \$200,000 \$200,000 \$20,000 \$20,000 \$300,000 \$150,000 \$50,000 \$50,000 | \$425,000 \$1,000,000 \$400,000 \$100,000 \$1,500,000 \$750,000 \$250,000 \$250,000 |
| 17-31 17-33 17-34 19-16 19-22 21-15 21-15 21-16 21-17 21-18 Annual Provisi | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Valve Chamber Upgrades Water Quality Equipment Replacement LIMS support | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of incidental equipment and parts associated with the disinfection system. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address itesm in the dam safety diabase/risk registry. Items not covered by the SCADA Replacement and SCADA Master Plan, but Integral in maintaining the SCADA System and revenue meter system. Replace corrosion protection assets, such as coatings, for the transmission system when identified. Replace failing valves and appurtenances along the RWS supply system. | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$100,000 \$100,000 \$150,000 \$250,000 \$250,000 \$250,000 \$250,000 \$100,000 | E S S S E S E S E E | WU WU WU WU WU WU WU WU | - - - - - - - - - - - - | \$85,000 \$200,000 \$80,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$200,000 | \$85,000 \$200,000 \$80,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$200,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$250,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$250,000 | \$100,000 \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$50,000 \$200,000 \$200,000 | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$100,000 \$1,500,000 \$750,000 \$250,000 \$250,000 \$250,000 \$125,000 |
| 17-31 17-33 17-34 19-16 19-22 21-15 21-15 21-16 21-17 21-18 Annual Provisi | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement ND TECHNICA | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Valve Chamber Upgrades Water Chamber Upgrades Water Support List Support SERVICES | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Ernergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of incidental equipment and parts associated with the disinfection system. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address Items in the dam safety diatabase/firsk registry. Items not covered by the SCADA Replacement and SCADA Master Plan, but integral in maintaining the SCADA System and revenue meter system. Replace corrosion protection assets, such as coutings, for the transmission system when identified. Replacement of water quality equipment for the water quality lab and water quality operations Supported LIMS database This is for replacement of vehicles and equipment used by CRD Water Services for the day-to-day operation and | \$425,000 \$1,000,000 \$1,000,000 \$1,000,000 \$100,000 \$100,000 \$1,500,000 \$250,000 \$1,000,000 \$250,000 \$1,000,000 \$100,000 \$100,000 \$100,000 \$100,000 | E S S S E E E E | WU WU WU WU WU WU WU WU | - - - - - - - - - - - - - - - - - - - | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$50,000 \$200,000 \$200,000 \$200,000 \$200,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$200,000 \$200,000 \$200,000 \$250,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$50,000 \$200,000 \$200,000 \$200,000 \$200,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$200,000 \$50,000 \$1,660,000 | \$100,000 \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 | \$425,000 \$1,000,000 \$1000,000 \$10,000 \$10,000 \$1,500,000 \$750,000 \$250,000 \$1,000,000 \$250,000 \$1250,000 \$1250,000 |
| 17-31 17-33 17-34 19-16 19-22 21-15 21-16 21-17 21-18 Annual Provisi CUSTOMER AI 17-35 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Valve Chamber Upgrades Water Cuality Equipment Replacement LIMS support SERVICES Vehicle & Equipment Replacement (Funding from Replacement Fund) | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement of incidental equipment and parts associated with the disinfection system. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address itesm in the dam safety database/risk registry. Items not covered by the Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address itesm in the dam safety database/risk registry. Items not covered by the SCADA Replacement and SCADA Master Plan, but Integral in maintaining the SCADA System and revenue meter system. Replace corrosion protection assets, such as coatings, for the transmission system when identified. Replace corrosion protection assets, such as coatings, for the transmission system when identified. Support for LIMS database This is for replacement of vehicles and equipment used by CRD Water Services for the day-to-day operation and maintenance of the supply system. | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$100,000 \$100,000 \$150,000 \$250,000 \$100,000 \$250,000 \$100,000 \$250,000 \$100,000 \$250,000 \$2495,000 | E S S S E E E E V | WU ERF | - - - - - - - - - - - - - - - - - - - | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 \$150,000 \$150,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$1,710,000 \$1,205,250 | \$85,000 \$200,000 \$80,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$200,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$250,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$250,000 | \$100,000 \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$50,000 \$200,000 \$200,000 | \$425,000 \$1,000,000 \$400,000 \$10,000 \$10,000 \$10,000 \$750,000 \$250,000 \$125,000 \$125,000 \$125,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$125,0000\$1000\$1000\$1000\$1000\$1000\$1000\$100 |
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| 17-31 17-33 17-34 19-16 19-22 21-15 21-16 21-17 21-18 Annual Provisi CUSTOMER AI 17-35 20-22 20-23 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement ND TECHNICA Replacement New New | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission Main Repairs Transmission System Components Replacement Disinfection Equipment Parts Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Comosion Protection Valve Chamber Upgrades Water Quality Equipment Replacement LIMS support SERVICES Vehicle & Equipment Replacement (Funding from Replacement Fund) Vehicle for the Dam Safety Program | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Ernergency repairs to the transmission mains. Replacement of negarior 1 transmission components. Replacement of negarior 1 transmission components. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address Items in the dam safety database/risk registry. Items not covered by the SCADA Replacement and SCADA Master Plan, but integral in maintaining the SCADA System and revenue meter system. Replace for table safety database first, such as coultings, for the transmission system when identified. Replacement of water quality equipment for the water quality lab and water quality operations Support for LIMS database This is for replacement of vehicles and equipment used by CRD Water Services for the day-to-day operation and maintenance of the supply system. New Transit Van | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$1,000,000 \$100,000 \$100,000 \$250,000 \$100,000 \$250,000 \$100,000 \$6,375,000 \$8,375,000 \$2,495,000 \$80,000 \$82,000 | E S S E S S E E S V V V | WU WU WU WU WU WU WU WU WU WU WU WU | - - - - - - - - - - - - - - - - - - - | \$85,000 \$200,000 \$80,000 \$200,000 \$20,000 \$150,000 \$150,000 \$250,000 \$50,000 \$50,000 \$50,000 \$51,710,000 \$1,710,000 \$1,205,250 \$80,000 \$80,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$20,000 \$150,000 \$150,000 \$150,000 \$250,000 \$250,000 \$1,710,000 \$406,000 - | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$50,000 \$200,000 \$200,000 \$200,000 \$200,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$200,000 \$50,000 \$1,660,000 | \$100,000 \$55,000 \$200,000 \$80,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$50,000 \$50,000 \$225,000 \$50,000 \$200,000 | \$425,000 \$1,000,000 \$400,000 \$11,000,000 \$11,000,000 \$150,000 \$750,000 \$250,000 \$1250,000 \$11,000,000 \$250,000 \$125,000 \$125,000 \$38,450,000 \$2,551,250 \$80,000 \$80,000 |
| 17-31 17-33 17-34 19-16 21-15 21-16 21-17 21-18 Annual Provisi CUSTOMER AI 17-35 20-23 21-30 21-30 22-18 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement ND TECHNICA Replacement New New New New | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission Main Repairs Transmission Main Repairs Transmission Main Repairs Supply System Components Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Valve Chamber Upgrades Water Cuality Equipment Replacement LIMS support SERVICES Vehicle & Equipment Replacement (Funding from Replacement Fund) Vehicle for the CSS Support Program Vehicle for We CSS Support Program Vehicle for Warehouse Operations Electric Vehicle Charging Stations | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement and repair of transmission components. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address items in the dam safety diadbase/fisk resistry Items not covered by the SCADA Replacement and SCADA Master Plan, but integral in maintaining the SCADA System and revenue meter system. Replace corroration profection assets, such as coatings, for the transmission system when identified. Replace failing valves and appurtnances along the RWS supply system. Replace failing valves and appurtnances along the RWS supply system. Support for LIMS database This is for replacement of vehicles and equipment used by CRD Water Services for the day-to-day operation and mainterance of the supply system. New Transit Van New Transit Van New pick up | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$1,000,000 \$100,000 \$100,000 \$100,000 \$250,000 \$100,000 \$250,000 \$100,000 \$4,375,000 \$2,495,000 \$80,000 \$82,000 \$80,000 | E S S S S E E E V V V V V V | WU WU WU WU WU WU WU WU WU WU WU WU WU W | | \$85,000 \$200,000 \$80,000 \$20,000 \$150,000 \$150,000 \$150,000 \$150,000 \$1,710,000 \$1,710,000 \$1,1205,250 \$80,000 \$82,000 \$82,000 \$40,000 | \$85,000 \$200,000 \$20,000 \$20,000 \$20,000 \$150,000 \$150,000 \$150,000 \$150,000 \$220,000 \$150,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$250,000 \$20,000 \$300,000 \$ | \$85,000 \$200,000 \$200,000 \$20,000 \$20,000 \$150,000 \$150,000 \$150,000 \$150,000 \$220,000 \$1,710,000 \$2290,000 - - - - | \$85,000 \$200,000 \$80,000 \$20,000 \$150,000 \$150,000 \$150,000 \$150,000 \$200,000 \$250,000 \$1,660,000 \$450,000 - - - - - | \$100,000 \$55,000 \$200,000 \$80,000 \$200,000 \$300,000 \$150,000 \$550,000 \$550,000 \$550,000 \$220,000 \$1,660,000 \$200,000 - - | \$425,000 \$1,000,000 \$400,000 \$10,000 \$1,000,000 \$150,000 \$750,000 \$250,000 \$250,000 \$12,000 \$12,000 \$12,500,000 \$22,551,250 \$80,000 \$80,000 \$40,000 \$40,000 |
| 17-31 17-33 17-34 19-16 19-22 21-16 21-16 21-16 21-17 21-18 Anual Provisi CUSTOMER AI 17-36 20-22 20-23 21-30 21-30 22-18 | Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement ND TECHNICA Replacement New New New New | Water Supply Area Equipment Replacement Transmission Main Repairs Transmission Main Repairs Transmission Main Repairs Transmission Main Repairs Supply System Components Replacement Supply System Computer Model Update Dam Improvements SCADA Repairs & Equipment Replacement Corrosion Protection Valve Chamber Upgrades Water Cuality Equipment Replacement LIMS support SERVICES Vehicle & Equipment Replacement (Funding from Replacement Fund) Vehicle for the CSS Support Program Vehicle for We CSS Support Program Vehicle for Warehouse Operations Electric Vehicle Charging Stations | Hydrometeorological, fireweather and wildfire suppression equipment replacement. Emergency repairs to the transmission mains. Replacement and repair of transmission components. Replacement and repair of transmission components. Annual update of the regional hydraulic model. Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address items in the dam safety diadbase/fisk resistry Items not covered by the SCADA Replacement and SCADA Master Plan, but integral in maintaining the SCADA System and revenue meter system. Replace corroration profection assets, such as coatings, for the transmission system when identified. Replace failing valves and appurtnances along the RWS supply system. Replace failing valves and appurtnances along the RWS supply system. Support for LIMS database This is for replacement of vehicles and equipment used by CRD Water Services for the day-to-day operation and mainterance of the supply system. New Transit Van New Transit Van New pick up | \$425,000 \$1,000,000 \$400,000 \$100,000 \$1,000,000 \$1,000,000 \$1,500,000 \$750,000 \$250,000 \$250,000 \$3100,000 \$3100,000 \$375,000 \$3,75,000 \$3,75,000 \$3,25,000 \$3,25,000 \$3,25,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,20,000 \$3,000 \$3,000,000 \$3,000 \$3,000 \$3,000,000 \$3,000 \$3,000,000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,0000 \$3,00000 \$3,0000 \$3,0000 \$3,0000 \$3,00000 \$3,00000 \$3,00000 \$3,00000 \$3,0000000 \$3,0000000000 | E S S S S E E S S E V V V V V V V E | WU WU | - - - - - - - - - - - - - - - - - - - | \$85,000 \$200,000 \$80,000 \$200,000 \$200,000 \$300,000 \$150,000 \$150,000 \$250,000 \$250,000 \$1,710,000 \$1,710,000 \$1,205,250 \$80,000 \$80,000 \$40,000 | \$85,000 \$200,000 \$80,000 \$20,000 \$20,000 \$20,000 \$150,000 \$150,000 \$150,000 \$250,000 \$250,000 \$1,710,000 \$406,000 - | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$200,000 \$50,000 \$200,000 \$200,000 \$200,000 \$200,000 | \$85,000 \$200,000 \$200,000 \$200,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$200,000 \$50,000 \$1,660,000 | \$100,000 \$55,000 \$200,000 \$80,000 \$200,000 \$300,000 \$150,000 \$50,000 \$50,000 \$50,000 \$50,000 \$225,000 \$50,000 \$200,000 | \$425,000 \$1,000,000 \$400,000 \$1,000,000 \$1,000,000 \$1,500,000 \$750,000 \$250,000 \$1,000,000 \$250,000 \$1,000,000 \$250,000 \$31,000,000 \$2,551,250 \$8,450,000 \$82,000 \$80,000 \$40,000 |

CAPITAL REGIONAL DISTRICT

5 YEAR CAPITAL PLAN

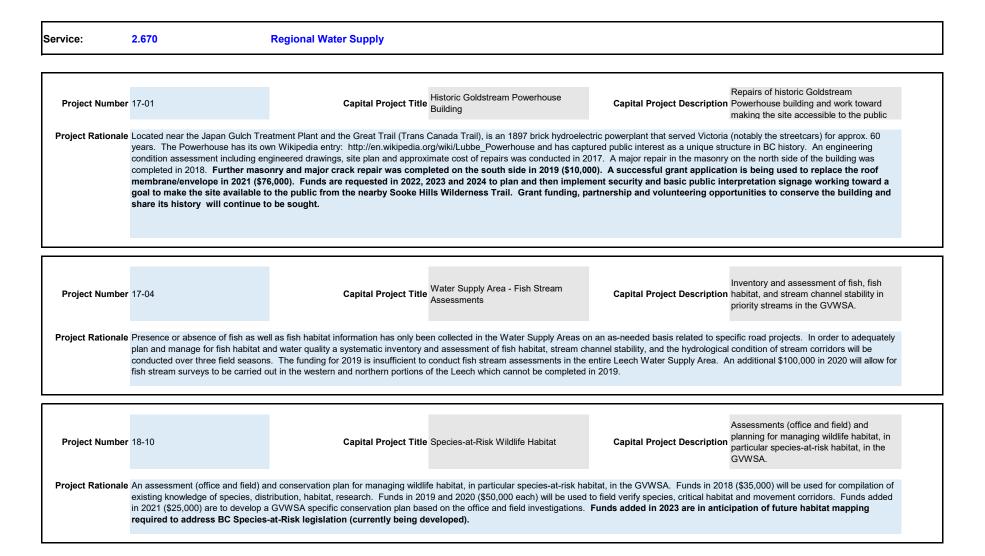
2022 - 2026

| 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, 22-01 is a project planned to start in 2022. | | ind service benefits. ement of a 40 year old roof above the swimming pool area; The new roofing system is designed to minimize maintenance and have an expected service life of 35 years". | Carryforward from 2021 Input the carryforward amount frin tge 2021 capital plan that is remaining to be spent. Forecast this spending in 2022 to 2026. | 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 - Economic benefit to the organization. |
|--|--|--|---|---|
| For projects in previous capital plans, use the same project numbers previously assigned. Sudy - Expenditure Type Study - Expenditure for new asset only New - Expenditure for new asset only Renewal - Expenditure upgrades an existing asset and extends the service | Total Project Budget Provide the total project budget, even if it extends beyond the 5 years of this capital plan. | Funding Source Codes Debt = Debenture Debt (new debt only) ER = Equipment Replacement Fund Grant = Grants (Federal, Provincial) Cap = Capital Funds on Hand Other = Donations / Third Party Funding Res = Reserve Fund | Lang-term Planning Master Plan / Servicing Plan = Plan that identifies new ass Asset Management Plan / Sustainable Service Delivery P condition, risk, replacement costs as well as external impact Replacement Plan = Plan that identifies asset replacements Condition Assessment = Assessment that identifies asset replacement | l an = Integrated plan that identifies asset replacements based on level of service, criticality, s. · based primarily on asset age or asset material/type. |
| 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". | Asset Class L - Land S - Engineering Structure B - Buildings V - Vehicles | kes = keseve ruiu Stlaan = Short Fern Loans WU - Water Utility If there is more than one funding source, use additional rows for the project. | Cost Estimate Class Class A (±10-15%)) = Estimate based on final drawings and s Class B (±15-25%) = Estimate based on investigations, studi Class C (±25-40%) = Estimate based on limited site informati Class D (±50%) = Estimate based on limited information | es or prelimminary design; used for budget planning. ion; used for program planning. |

Service #: 2.670/2.680

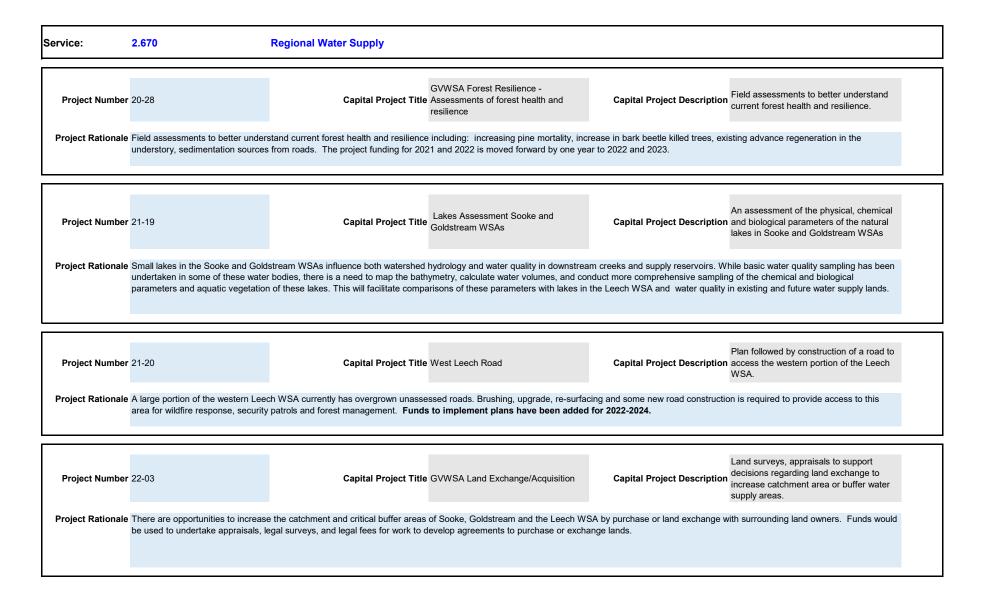
Service Name: Regional Water Supply & JDF Water Distribution Combo

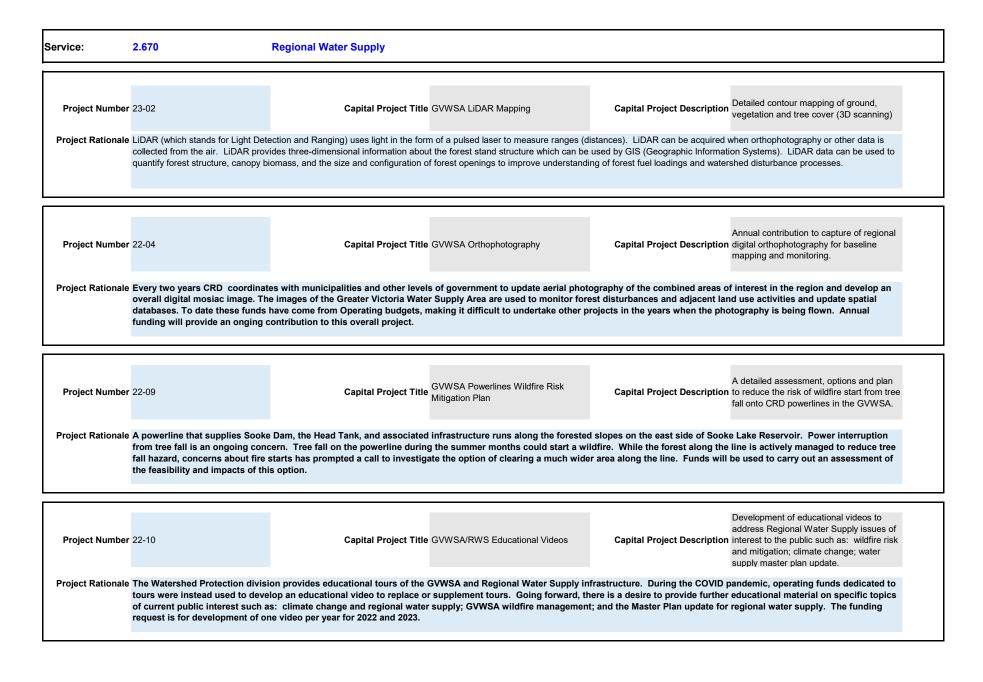
| Project Lis | Project List and Budget | | | | | | | | | | | | |
|-------------------|--|--|--|-------------------------|----------------|-------------------|---------------------------|-------------|-----------|-----------|-----------|-------------|----------------|
| Project Number | Capital Expenditure Type | Capital Project Title | Capital Project Description | Total Project Budget | Asset Class | Funding Source | Carryforward from 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 5 - Year Total |
| SYSTEM R | SYSTEM REPLACEMENT AND UPGRADES THAT BENEFIT REGIONAL WATER 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 | E | WU | \$600,000 | \$1,250,000 | \$0 | \$0 | \$0 | \$0 | \$1,250,000 |
| 20-01 | New | | 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 | Е | wu | \$200,000 | \$550,000 | \$0 | \$0 | \$0 | \$0 | \$550,000 |
| | Sub-Total System Replacement and Upgrades That Benefit Regional Water Supply and Juan de Fuca Distribution | | \$2,630,000 | | | \$800,000 | \$1,880,000 | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$2,200,000 | |
| ANNUAL P | ROVISIONAL (| CAPITAL ITEMS | | | | | | | | | | | |
| 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 | E | wu | \$0 | \$50,000 | \$20,000 | \$20,000 | \$20,000 | \$20,000 | \$130,000 |
| 17-06 | | Small Equipment & Tool Replacement (Water Operations) | Replacement of tools and small equipment for Water Operations as required. | \$400,000 | Е | wu | \$0 | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$0 | \$320,000 |
| 17-07 | Replacement | Small Equipment & Tool Replacement (Corporate Fleet) | Replacement of tools and small equipment for Fleet as required. | \$75,000 | E | WU | \$0 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$15,000 | \$75,000 |
| Sub-Tota | al for Annual P | rovisional Capital Items | | \$1,650,000 | | | \$0 | \$360,000 | \$330,000 | \$330,000 | \$330,000 | \$250,000 | \$1,600,000 |
| | | | GRAND TOTAL | \$4,280,000 | | | \$800,000 | \$2,240,000 | \$410,000 | \$410,000 | \$410,000 | \$330,000 | \$3,800,000 |



| | 2.670 | Regional Water Supply | | | |
|----------------|---|--|---|--|---|
| Project Number | 19-30 | | ch WSA Lakes/Tributaries essment | Capital Project Description | An assessment of the physical, chemical and biological parameters of the lakes in the Leech WSA. |
| - | | h Water Supply Area and prepare for use of Lo nain Leech WSA source waterbodies will be co Supply). | | | |
| Project Number | 20-05 | Capital Project Title Map | ch WSA Terrestrial Ecosystem ping & Wetland sification/Mapping | Capital Project Description | Classification and mapping of terrestrial ecosystems and wetlands and integration with Sooke and Goldstream data. |
| - | mapping to a standard that match wetland mapping in the Leech WS | al ecosystem mapping received from the previ es Sooke and Goldstream for consistent data SA to a standard that matches Sooke and Gold red forward from 2020 to 2021. The project he | and analysis. There has been no de dstream for consistent data and analy | tailed mapping of Leech WSA wet sis. The projects have been com | ands. The project is to conduct detailed |
| | | | | | |
| Project Number | 20-06 | Capital Project Title Add | ressing mining in Leech WSA pacts, agreements) | Capital Project Description | Funding to support work to reduce the impact of mining claims in the Leech WSA |
| - | | Capital Project Title Addi (imp | acts, agreements) | | impact of mining claims in the Leech WSA |
| - | Assessment and/or studies and/o | r funds to buy and cancel mining claims to GVV Capital Project Title wildf | acts, agreements) | es and with the goal of reducing | impact of mining claims in the Leech WSA |

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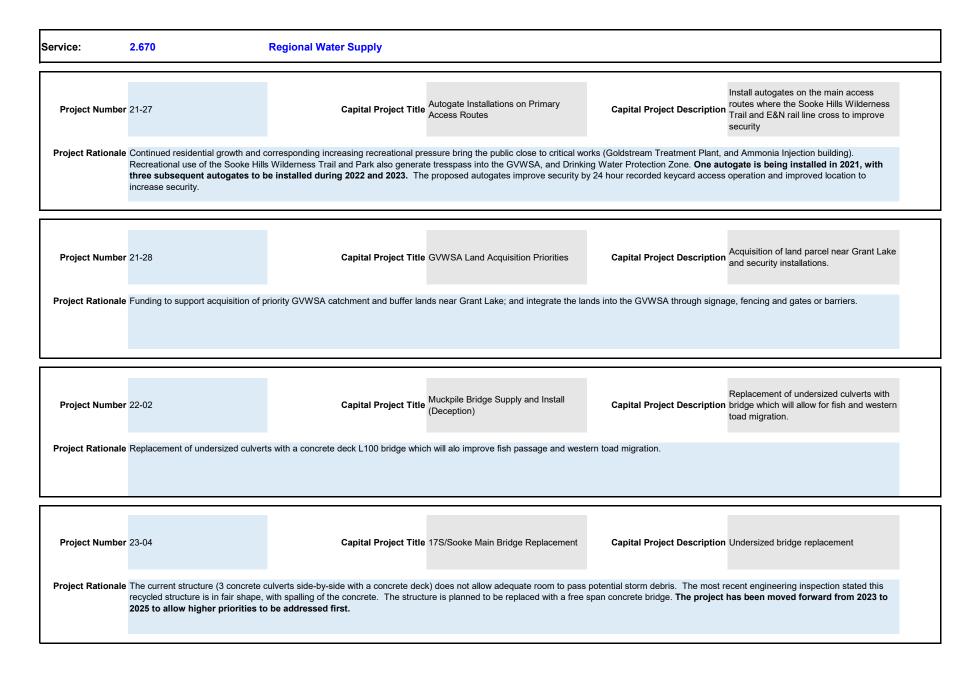




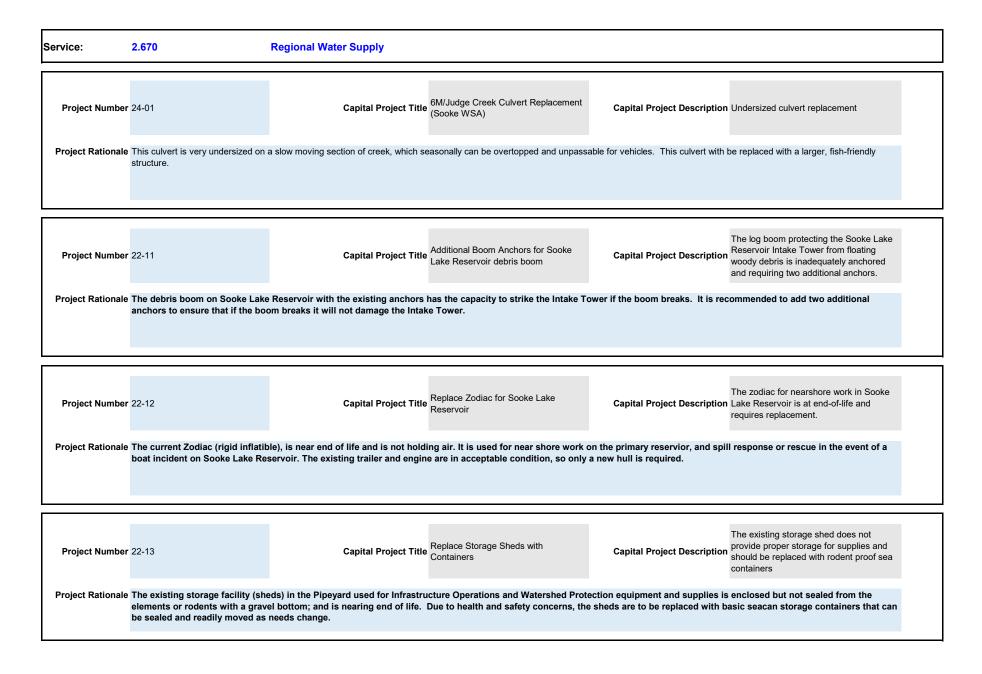
| vice: | 2.670 | Regional Water Supply | | | |
|----------------|--|---|---|--|---|
| Project Number | 23-05 | Capital Project Title | Spill Management Plan and Implementation | Capital Project Description | Review, assessment and re-development of a spill management plan for the GVWSA along with potential procurement of additional equipment or supplies. |
| - | more comprehensive spill mana | s plan to protect water quality and othe agement plan for the GVWSA that cons r a separate funding request may follow | siders improved materials, technology | | ew, assessment and re-development of a ling may allow for procurement of |
| Project Number | 09-01 | Capital Project Title | Leech River Watershed Restoration | Capital Project Description | A 17 year project to restore the Leech WSA lands for water supply. |
| | | ore the Leech WSA lands for water supply \$\$5,517,000; however total capital expe | | | |
| Project Number | 16-01 | Capital Project Title | Replace Gatehouse at Goldstream Entrance | Capital Project Description | The GVWSA entry gatehouse at Goldstream is past end of life and is to be replaced with a purpose built structure with improved vehicle flow and security function. |
| - | secured area. A site design and p this project has increased since th | he current location is no longer considered | cing and upgraded autogates (17-09) is p | planned requiring funding consisten Preliminary design and cost estim | t with the project. The scope and scale of |
| | requeeted failding. The doolgh a | | sphait, automateu gates, and the custom | building. | |
| Project Number | | Capital Project Title | | | Renewal of Water Quality field office, lab and equipment and supplies storage and Watershed Protection office, training space and equipment storage at Goldstream entrance, replacing |

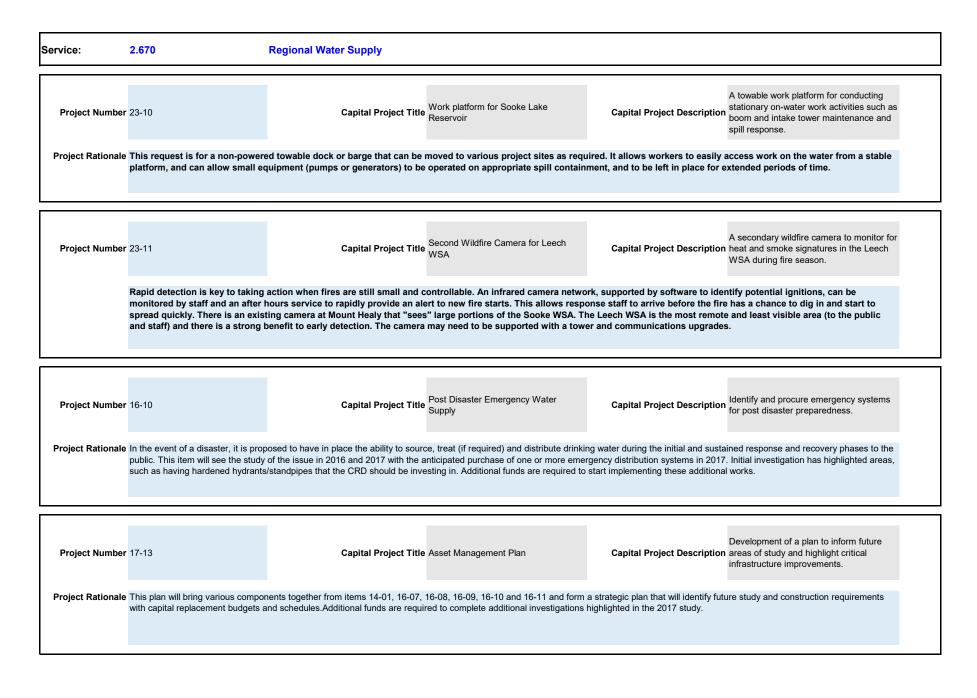
| | 2.670 | Regional Water Supply | | | |
|-------------------------------------|--|--|--|---|--|
| Project Number | 17-02 | Capital Project Title | Leech River HydroMet System | Capital Project Description | Installation of a network of hydrometeorological stations to collect water quantity and quality information for the Leech WSA. |
| | station is capturing flow and turbidi and various restoration manageme watershed. This capital project firs 2018 (\$80,000). Additional funding | ity measurements 3.8 km downstream of ent measures on Leech River water quali st funded a design study of the most effe g requests of \$30,000 in 2020 (new total | ty and quantity, a network of hydrological ctive and efficient monitoring system that | er. In order to understand and pre- l measuring stations is needed furth t could be implemented (\$10,000) p al \$25,000) to provide assistance in | dict the effect of precipitation, storm events ner upstream in the Leech River rior to funding implementation beginning in accessing and addressing safety issues |
| Project Number | 18-05 | Capital Project Title | GVWSA Forest Fuel Management/FireSmart Activities | Capital Project Description | Implementation of forest fuel management and FireSmart actions in strategic locations for wildfire risk management in the GVWSA. |
| | order to complete priority fuel mana | agement projects over and above existir experienced in the first year of tenderin | 18 CRD staff completed two new fuel red ig staff effort which will be focused on ma g fuel management work. The need for f | intenance of existing fuel managed | sites. A requested increase from \$75,000 |
| | | | | | |
| Project Number | | Capital Project Title | Whiskey Creek Bridge Replacement (Sooke WSA) | Capital Project Description | Replacement of the existing undersized bridge with a longer and higher concrete structure. |
| Project Number Project Rationale | 19-02 Whiskey Creek bridge is located or | Capital Project Title | (Sooke WSA) | and other critical IWS infrastructure | bridge with a longer and higher concrete structure. e. Whiskey Creek requires a larger bridge |
| Project Number Project Rationale | 19-02 Whiskey Creek bridge is located or as it has been overtopped by storn priorities to be addressed first. | Capital Project Title n the Leechtown Main Road, one of the n events in the past and this poses wate | (Sooke WSA) main access routes to Sooke Lake Dam a | and other critical IWS infrastructure The project has been moved forwa | bridge with a longer and higher concrete structure. e. Whiskey Creek requires a larger bridge |

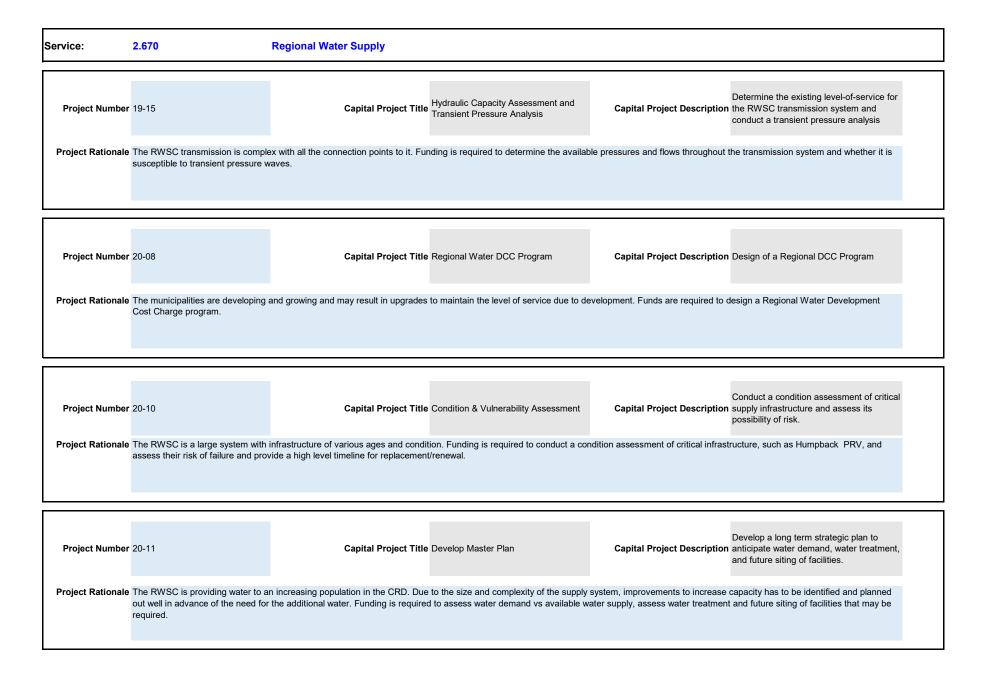
| Service: | 2.670 | Regional Water Supply | | | |
|-------------------|--|--|---|---------------------------------------|---|
| Project Number | 20-01 | Capital Project Title | Kapoor Main Mile 1 Bridge and Asphalt Upgrade | Capital Project Description | Replacement of the existing undersized culvert with a large bridge as well as subsequent 500 m road asphalt replacement. |
| Project Rationale | installed to improve water carrying | capacity at peak flows, fish passage and ward from 2021 to 2022 to allow highe | | I of the bridge will also be repaired | The culvert will be removed and a bridge or replaced as a component of the project. ace the bridge in 2022 and replace the |
| Project Number | 20-29 | Capital Project Title | GVWSA Gravel Crushing | Capital Project Description | Production of gravel at existing quarries in Sooke and Goldstream WSAs. |
| Project Rationale | Production of 19 mm road surfa | cing gravel from GVWSA quarries are | required every few years to maintain r | oads. Gravel production needs | are anticipated in 2023 and 2026. |
| Project Number | 21-01 | Capital Project Title | 31N Bridge to Replace Undersized Culvert (Goldstream WSA) | Capital Project Description | Replacement of the existing undersized and failing culvert with a bridge structure. |
| Project Rationale | The undersized and failing culvert estimated cost for bridge supply a | | er Supply Area requires replacement with | a bridge structure in 2021. Fundir | ig has been increased to reflect an |
| Project Number | 21-26 | Capital Project Title | Road Deactivation/Rehabilitation in the GVWSA | Capital Project Description | Deactivate or rehabilitate unneeded roads in the Sooke and Goldstream WSAs. |
| Project Rationale | | | SAs that could be rehabilitated and remo progress on the roads identified to be de | | undue impact to operations, wildfire |



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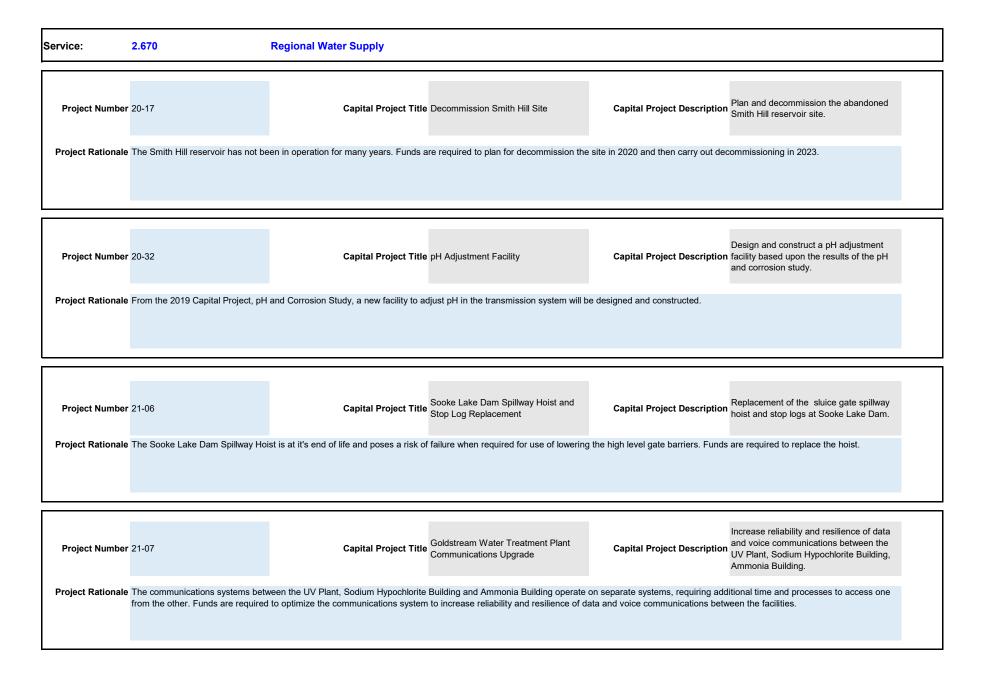


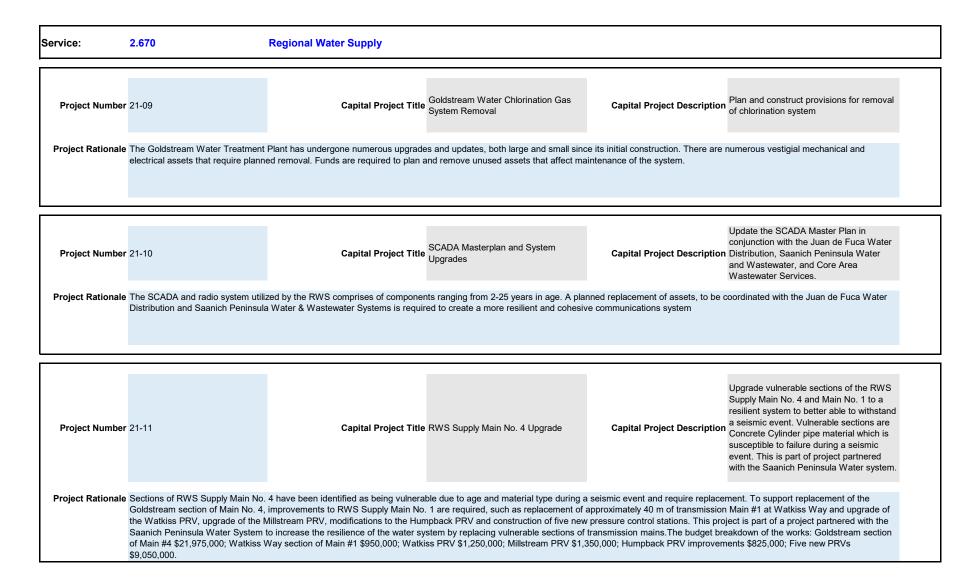


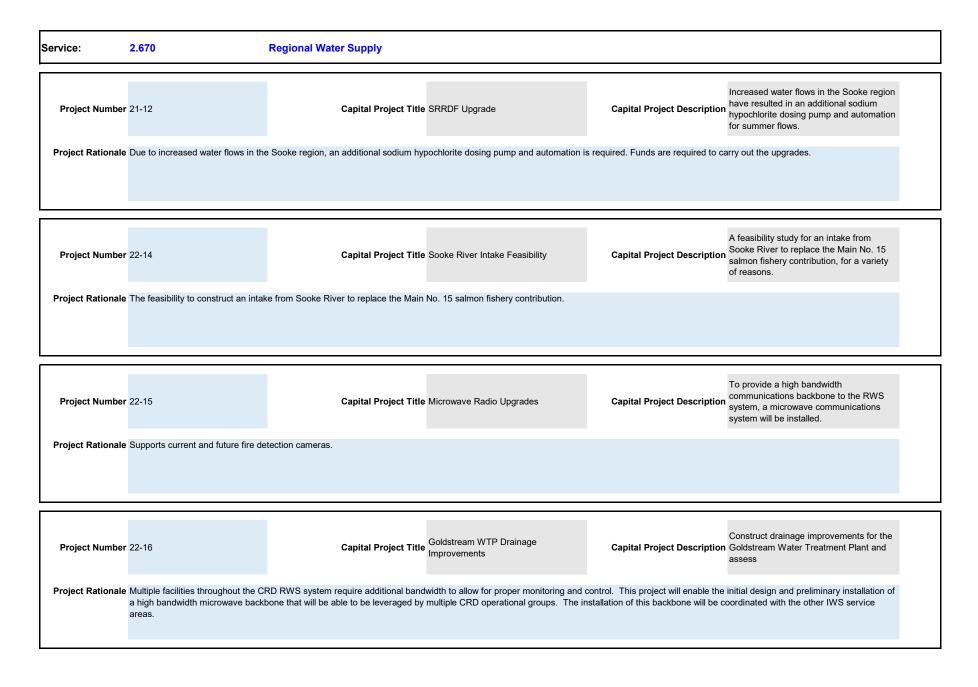


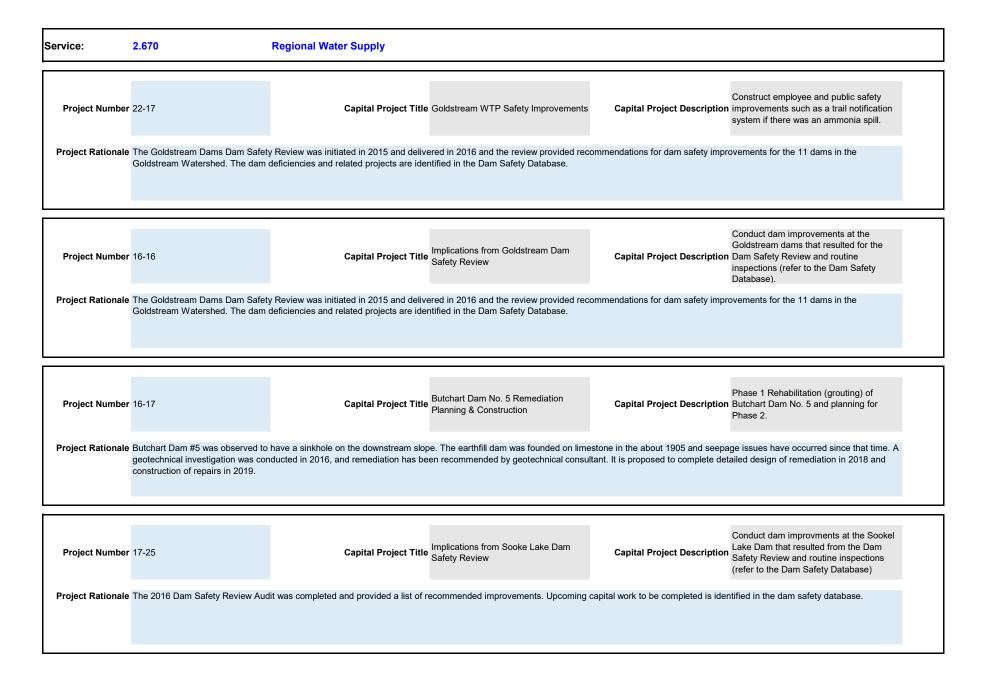
| Service: | 2.670 | Regional Water Supply | | | |
|-------------------|---|--|--|---|---|
| Project Number | 21-05 | Capital Project Title | Level of Service Agreement | Capital Project Description | From #19-15 & #20-11, develop level-of- service agreements for participating municipalities to address hydraulic capacity of infrastructure. |
| Project Rationale | The RWSC supplies water directly developed to address hydraulic ca | | d upon Capital Projects #19-15 and #20-7 | level-of-service agreements for | participating municipalities will be |
| Project Number | 18-07 | Capital Project Title | Replacement of UV System | Capital Project Description | Replacement of the UV system at the Goldstream Water Treatment Plant |
| Project Rationale | outlet valves are in place, but requ | ire 24" stainless steel piping to insert uni | ters Creek plant are required to be install ts into place. Funding is required to reloc ars to correspond with construction over t | ate existing UV disinfection units to | |
| Project Number | 18-08 | Capital Project Title | Bulk Supply Meter Replacement Program | Capital Project Description | Planned replacement of aging bulk meter replacement based upon a condition assessment and water audit. |
| Project Rationale | | | ted equipment that measure flow and volu neter and appurtenances.Funding is requi | | |
| Project Number | 18-15 | Capital Project Title | Corrosion Protection Program | Capital Project Description | Study deficiencies in the current material protection and implement recommendations. |
| Project Rationale | implementations of cathodic protect | ction ranging from interior/exterior coating | rrious infrastructure, including steel pipes, gs for pipe and passive anodes to impres ucture with recommendations for addition | sed current systems with variable | results and condition. Funding is required |

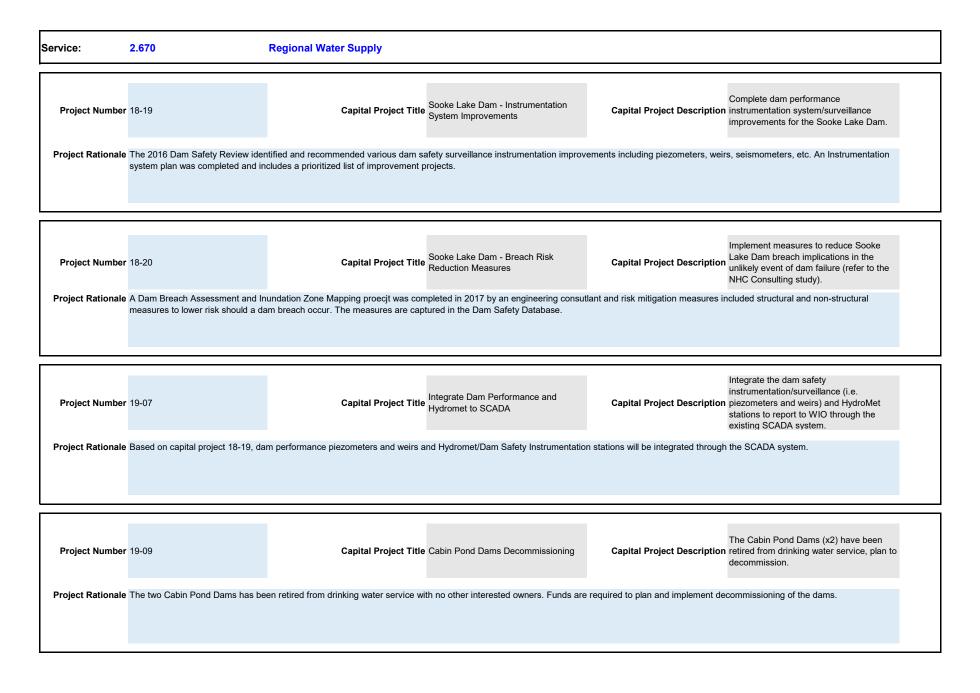
| Service: | 2.670 | Regional Water Supply |
|-------------------|--|--|
| Project Number | 18-18 | Capital Project Title Main No.3 Segment Replacement Capital Project Description Replacement of segments of Main No. 3 based upon previous studies. |
| Project Rationale | #3 on Wale Road, Island Hwy. and | mately 70 years old. Some section of the 22 km main are steel pipe in known potentially corrosive soils. It is proposed to eventually replace a segment or Main I Adams Place in Colwood and View Royal. Conceptual design and options analysis will be undertaken in 2018 with detailed design and construction ding is required to retain a consultant to undertake design and to construct a replacement to Main No. 3. |
| Project Number | 19-05 | Capital Project Title Repairs - Kapoor Shutdown Capital Project Description Repair items such as defects in the Kapoor tunnel, replacement of critical valves, intake exterior inspection and actuator replacement while the Kapoor tunnel is shutdown. |
| Project Rationale | | spection numerous deficiencies were noted. Some of the repairs were made and inspected in 2017. Funds are required to complete remaining identified orks, such as head tank valve maintenance, dive inspection of the Intake Tower, hydraulic actuator line replacement, that can only be conducted when the |
| Project Number | 19-23 | Capital Project Title Critical Spare Equipment Storage & Capital Project Description Plan, design and construct a critical Pipe Yard Plan, design and construct a critical equipment storage building. |
| Project Rationale | Additional and accessible storage storage building accessible by load | is required at the pipe yard for critical spare equipment such as repair bands and clamps. Funds are required to pland, design and construct an equipment ding vehicles. |
| Project Number | 20-16 | Capital Project Title Cecelia Meter Replacement Capital Project Description Replacement of the Cecelia billing meter as well as its enclosure. |
| Project Rationale | The St Giles and Cecelia meters a | re aging and in hard to maintain locations. Funding is required to construct new meter sites and decommission and demolition the old sites. |

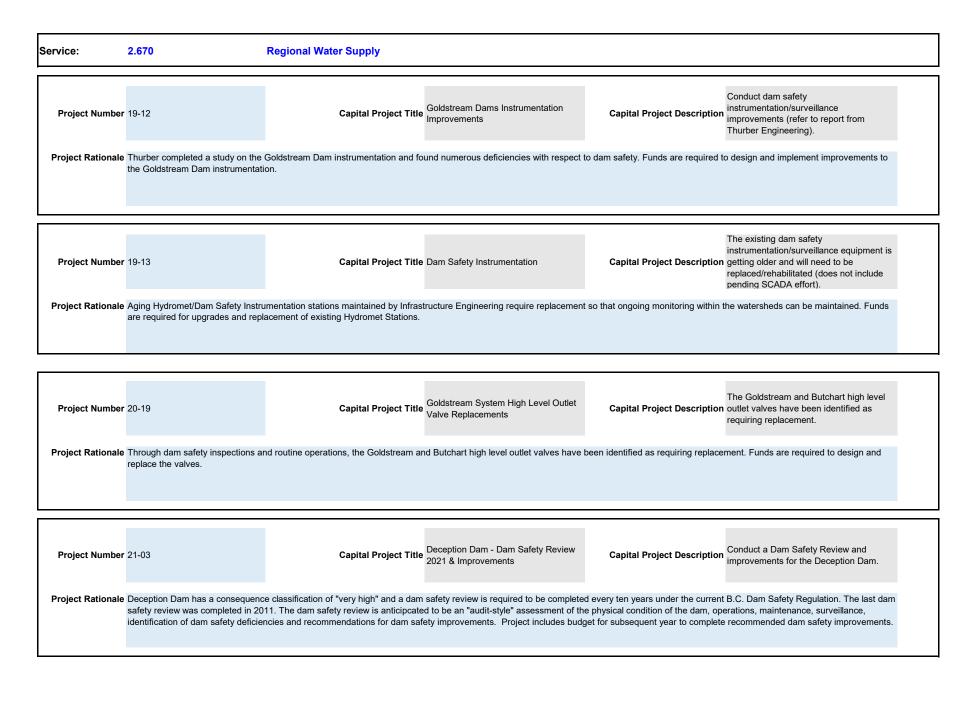


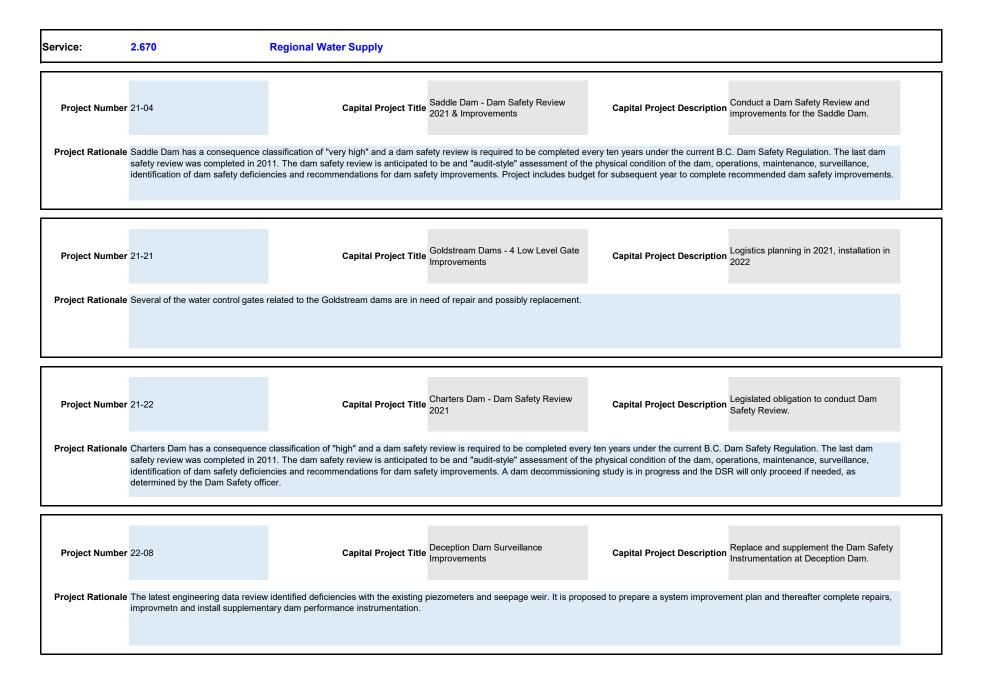


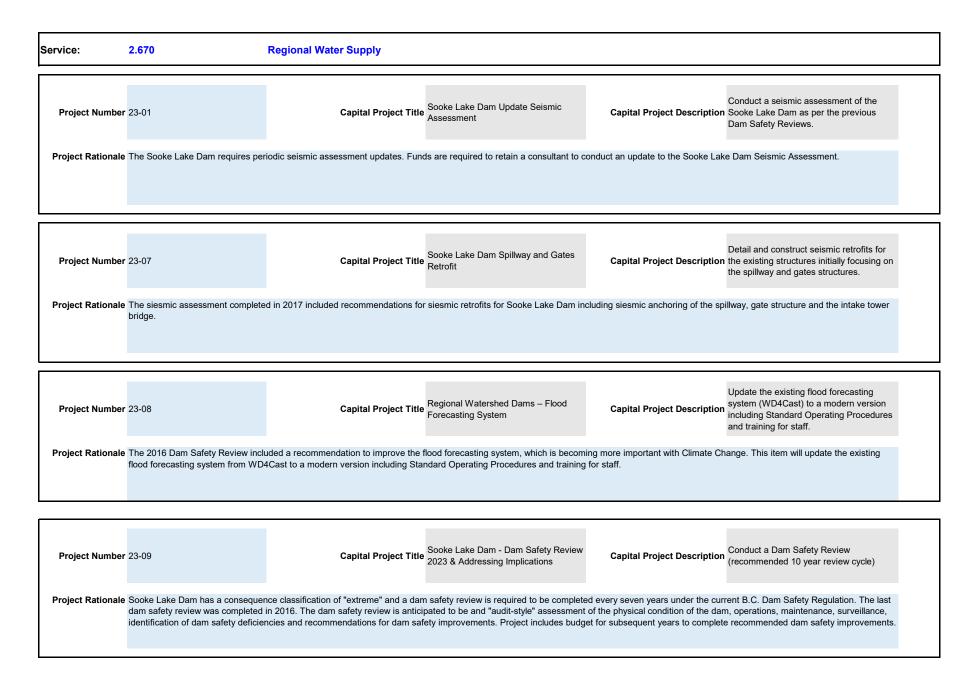






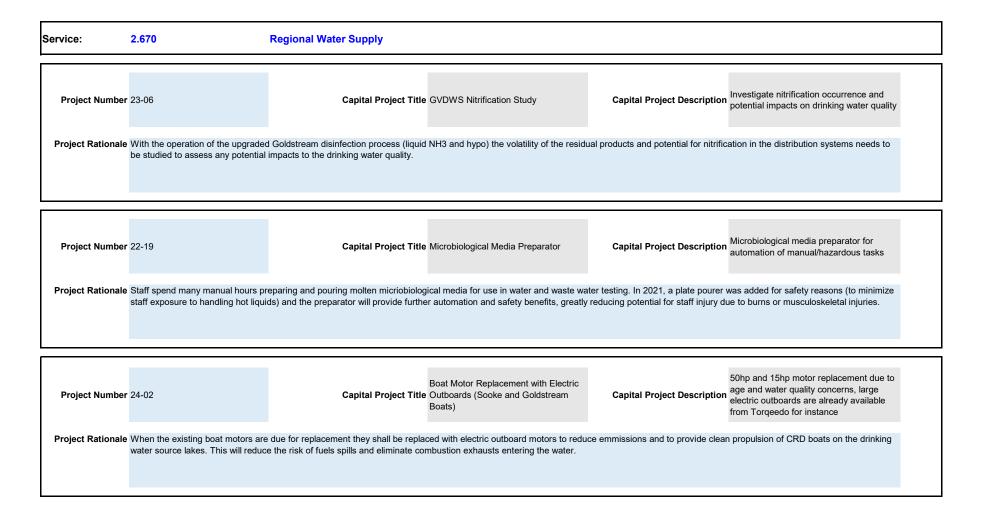


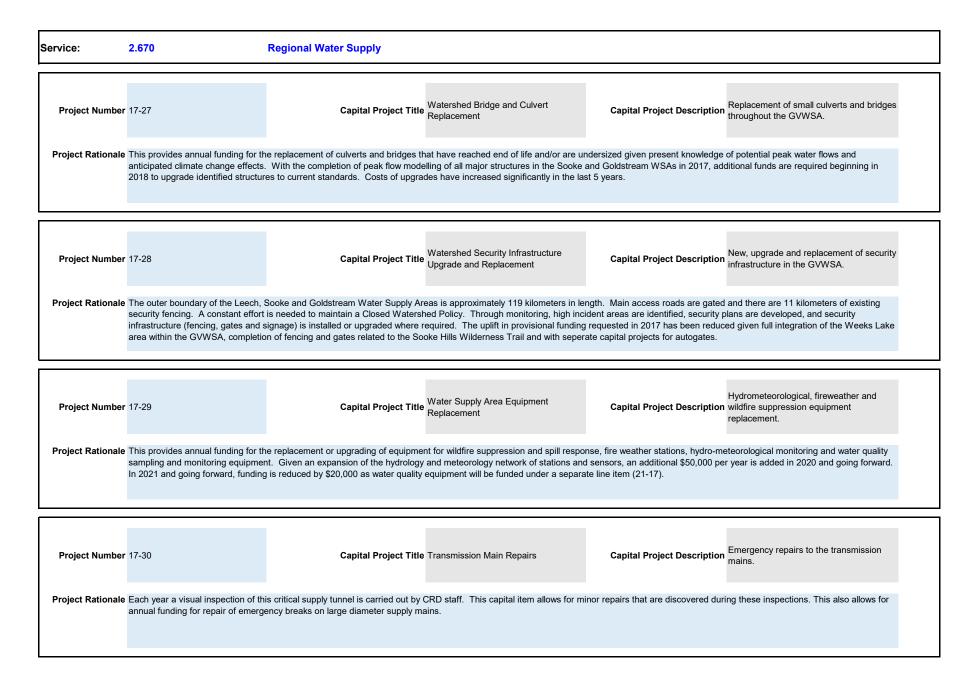




| | 2.670 | Regional Water Supply | | |
|------------------|---|--|--|---|
| Project Number | 25-01 | Capital Project Title Goldstream Dam - Dam Sal 2025 & Addressing Implicat | fety Review Capital Project Description | Conduct a Dam Safety Review in 2023 (recommended 10 year review cycle) |
| - | Regulation. The last dam safety re | have a consequence classification of "low" to "high" and a dam safe view was completed in 2015. The dam safety review is anticipated to cation of dam safety deficiencies and recommendations for dam safe ments. | be and "audit-style" assessment of the physica | l condition of the dam, operations, |
| Project Number | 25-02 | Capital Project Title Probable Maximum Flood a Design Flood Updates | nd Inflow Capital Project Description | Update the previous edition from 2015 (recommended 10 year review cycle). |
| roject Rationale | The various Dam Safety Reviews | and Canadian Dam Safety Guideline recommend updating the reserv | voir inflow design flood and freeboard analysis e | very ten years. |
| | | | | |
| | | | | |
| Project Number | 20-04 | Capital Project Title Sooke Lake HyDy Model De | evelopment Capital Project Description | Critical data collection, model building+calibration, model utilization for 3 different scenarios |
| roject Rationale | This project consists of the followir model and calibrate it against exis | Capital Project Title Sooke Lake HyDy Model De g different phases: 2020/2021 Procurement/Rental of monitoring equing data; 2022 Consulting contract to run the model for a North Basir Sooke Lake; 2024 Consulting Contract for investigating impacts of w | uipment to fill critical data gaps; 2022 Consulting n intake scenario; 2023 Consulting Contract to r | building+calibration, model utilization for 3 different scenarios |
| roject Rationale | This project consists of the followir model and calibrate it against exis diversion of Leech River water into | g different phases: 2020/2021 Procurement/Rental of monitoring equing data; 2022 Consulting contract to run the model for a North Basir | uipment to fill critical data gaps; 2022 Consulting n intake scenario; 2023 Consulting Contract to r wind induced seiches in Sooke Lake. | building+calibration, model utilization for 3 different scenarios |

| Service: | 2.670 | Regional Water Supply |
|-------------------------------------|-------------------------------------|---|
| Project Number Project Rationale | Currently microbiological media is | Capital Project Title Microbiological plate pourer Capital Project Description Automation of manual process to increase capacity/worker safety eated to melting on a hotplate and manually poured into Petri dishes, and sample workload has increased such that staff spend a significant amount of time risk of burn injuries from handling hot, sterilized media in glassware. |
| Project Number | 22-05 | Capital Project Title WQ Lab Capital Improvements Capital Project Description Building improvements in the lab |
| Project Rationale | Replacement of floor covering and | wooden cabinetry original to the building due to deterioration/ wear and tear. |
| Project Number | 22-06 | Capital Project Title Sooke Lake Food Web Study Capital Project Description Assess the aquatic food web structure and create an inventory of fish and invertebrate species and distribution in Sooke Lake Reservoir - to be used as indicators of stream health |
| Project Rationale | and how they may change over tin | algal data as an indicator for stream health and condition assessment in the source waters. To gain a better understanding of the source water conditions a it is necessary to expand this indicator system for other trophic levels in the food web. Sooke Lake Reservoir is of particular interest as the primary and S and therefore a aquatic food web study will be commissioned on this lake. |
| | | |
| Project Number | 22-07 | Capital Project Title Bulk-Water Connection Backflow Protection Study Investigate all bulk-water connections to Capital Project Description Capital Project Title Protection Study Capital Project Description |
| Project Rationale | that are unknown if protected. Also | uiring backflow considerations for the design of new connections to CRD supply mains, there are a number of existing connections that are unprotected or there are numerous bulk-water connections to municipal mains (Stratas, First Nation lands, federal lands) that may be unprotected. This study is to create an ins to public water systems in the GVDWS and to assess the risk of backflow. |





| Service: | 2.670 | Regional Water Supply | | | |
|-------------------------------------|---------------------------------------|--|---|-----------------------------|---|
| Project Number Project Rationale | | | Transmission System Components Replacement pair of supply system components that fa | Capital Project Description | components. |
| | | | | | |
| Project Number | 17-33 | Capital Project Title | Disinfection Equipment Parts Replacement | Capital Project Description | Replacement of incidental equipment and parts associated with the disinfection system. |
| Project Rationale | | | | | , installing and replacing shut off valves on caping around the UV building to reduce |
| Project Number | 17-34 | Capital Project Title | Supply System Computer Model Update | Capital Project Description | Annual update of the regional hydraulic model. |
| Project Rationale | This item is to allow for staff and c | onsultant time each year to keep the hyd | raulic computer model current. | | |
| Project Number | 19-16 | Capital Project Title | Dam Improvements | | Items not covered by Dam Safety Reviews, but brought up in Dam Safety Inspections and Dam Safety Reviews and address itesm in the dam safety database/risk registry |
| Project Rationale | | | nor improvements at each dam annually. ements resulting from Dam Safety Inspe | | nature and are typically not covered in the |

| Service: | 2.670 | Regional Water Supply | | | | |
|-------------------|--|---|---|-------------------------------------|---|--|
| Project Number | 19-22 | Capital Project Title | SCADA Repairs & Equipment Replacement | | Items not covered by the SCADA Replacement and SCADA Master Plan, but integral in maintaining the SCADA System and revenue meter system. | |
| Project Rationale | This item is to allow for unplanned | SCADA repairs and equipment replacen | nent not covered by the capital projects So | CADA Replacement. | | |
| | | | | | | |
| Project Number | 21-15 | Capital Project Title | Corrosion Protection | Capital Project Description | Replace corrosion protection assets, such as coatings, for the transmission system when identified. | |
| Project Rationale | There are numerous assets with w when identified. | arying levels of corrosion protection throu | ughout the RWS system. Funds are requir | red to ensure that corrosion protec | tion assets are replaced or rehabilitated | |

| Service: | 2.670 | Regional Water Supply |
|-------------------------------------|-------------------------------------|--|
| Project Number Project Rationale | | Capital Project Title Valve Chamber Upgrades Capital Project Description Replace failing valves and appurtenances along the RWS supply system. solation and air valves along the transmission system, usually in underground chambers. Funds are required for replacement of valves and chamber upgrades |
| Project Number Project Rationale | | Capital Project Title Water Quality Equipment Replacement Capital Project Description Replacement of water quality lab and water quality operations Ne replacement or upgrading of equipment for the water quality lab, sampling, and operations. Of this provisional budget, \$20,000 was previously included in nual provisional budget) |
| Project Number | 21-18 | Capital Project Title LIMS support Capital Project Description Support for LIMS database |
| Project Rationale | Provides for support for the labora | tory information management system |
| Project Number | 17-35 | Capital Project Title Vehicle & Equipment Replacement (Funding from Replacement Fund) Capital Project Description (Funding from Replacement Fund) This is for replacement of vehicles and equipment used by CRD Water Services for the day-to-day operation and maintenance of the supply system. |
| Project Rationale | | and equipment used by CRD Water Services for the day-to-day operation and maintenance of the supply system. The Equipment Replacement Fund is used ests have been adjusted to align with the pricing for electric vehicles. |

| Service: | 2.670 | Regional Water Supply |
|-------------------|--------------------------------------|---|
| Project Number | 20-22 | Capital Project Title Vehicle for the Dam Safety Program Capital Project Description New Transit Van |
| Project Rationale | An additional pick up is required fo | or the dam safety program. The request has been adjusted to align with the pricing for an electric Transit Van. |
| Project Number | 20-23 | Capital Project Title Vehicle for the CSE Support Program Capital Project Description New Transit Van |
| Project Rationale | A new Transit van is required to s | upport the Confined Space Entry Support program. The request has been adjusted to align with the pricing for an electric Transit Van. |
| Project Number | 21-30 | Capital Project Title Vehicle for Warehouse Operations Capital Project Description New pick up |
| Project Rationale | | to source supplies and materials in support of the remote sites. This warehouse worker will maintain wastewater stores and will travel and transport as required pickup truck will be required. The request has been aligned with the pricing for an electric Pick Up. |
| Project Number | 22-18 | 7 Dual charging stations at 479 Island Capital Project Title Electric Vehicle Charging Stations Capital Project Description Hwy and 1 Dual charging station at the Watershed Protection FOC |
| Project Rationale | | d at 479 Island Hwy and the Watershed Protection FOC in order to charge the EV's being purchased during 2021, 2022 and future budget periods. The duced when more than one is installed at a time. There are grants available that will cover approx. 50% of all costs. |



2.670/2.680

| Project Number | 16-01 | Capital Project Title | Upgrades to Buildings at 479 Island Highway | Capital Project Description | Maintenance and changes to buildings and office layouts. |
|-------------------------------------|---|---|---|---|---|
| | Repairs, upgrades and changes is Painting of the buildings. (provision Repair and replacement of carpe | funds to upgrade and renew the buildings to the buildings (provisional \$50,000) onal \$10,000 annually) ts, floors and walls. (provisional \$10,000 ement of equipment and property. (provis | annually) | | |
| Project Number | 17-01 | Capital Project Title | Voice Radio Upgrade | Capital Project Description | Replacement of end of life voice radio system repeaters, office, vehicle and handheld radios. |
| | o : | mont | | | |
| | The present radio models used in Support for repairs and maintena | l portable units was forecast as 10 years n the system have just been taken out of nce of the present radio will continue for | production by the manufacturer, there wi the next 3 years at least. | ll be no new units available for purc | chase as of July 1, 2015. . and perhaps reach a 12-15 year lifespan |
| | The service life of the mobile and The present radio models used ir Support for repairs and maintena There are no pressing issues with on the present equipment. | I portable units was forecast as 10 years in the system have just been taken out of nce of the present radio will continue for h equipment maintenance or repairs, pres | production by the manufacturer, there wi the next 3 years at least. | ll be no new units available for purc | and perhaps reach a 12-15 year lifespan |
| Project Number Project Rationale | The service life of the mobile and The present radio models used ir Support for repairs and maintena There are no pressing issues with on the present equipment. 20-01 The RWS and JdF operation nume | I portable units was forecast as 10 years in the system have just been taken out of nce of the present radio will continue for h equipment maintenance or repairs, pres | production by the manufacturer, there wi the next 3 years at least. sent repair rates suggest we can maintain Portable Pump Station ere are situations, when a pump station f | Il be no new units available for purc n the system for the next few years, Capital Project Description iails, construction of a pump station | and perhaps reach a 12-15 year lifespan Portable pump station and generator to provide backup when a pump station is offline, in construction or to bypass a section of pipe. |

Service:

2.670/2.680

Regional Water Supply & JDF Water Distribution Combo

| Project Number | 17-04 | Capital Project Title | Computer Upgrades | Capital Project Description | Annual upgrade and replacement program for computers, copiers, printers, network equipment as required. |
|-----------------------------------|---|---|---|------------------------------------|---|
| | \$170,000 annually to reflect actua Capital Budget Network Switch Maintenance \$10, Additional Wireless Access Points | al costs. ,000 s and Maintenance \$15,000 | copiers, network, monitoring and associate | ed equipment, as required. This it | em has been increased from \$160,000 to |
| | Photocopier Replacement \$20,000 Additional Data Storage \$15,000 Replacement Computers \$75,000 Equipment Maintenance (continge Replace Access Control System - Total Capital \$170,000 |) ency) \$23,000 | | | |
| | | | | | |
| Project Number | 17-05 | Capital Project Title | Development of the Maintenance Management Systems | Capital Project Description | Develop maintenance management system. |
| oject Rationale | The maintenance management sy | | user needs and to facilitate reporting. It is | | system. |
| oject Rationale | The maintenance management sy Asset onboarding process and a f | vstem needs further development to meet fault code reporting process for the CMMS | user needs and to facilitate reporting. It is | proposed that funds be approved | system. |
| oject Rationale Project Number | The maintenance management sy Asset onboarding process and a f | vstem needs further development to meet fault code reporting process for the CMMS Capital Project Title | user needs and to facilitate reporting. It is S. Small Equipment & Tool Replacement | proposed that funds be approved | system. for the following projects:- Develop and Replacement of tools and small equipment for Water Operations as required. |
| oject Rationale | The maintenance management sy Asset onboarding process and a f | vstem needs further development to meet fault code reporting process for the CMMS Capital Project Title | user needs and to facilitate reporting. It is S. Small Equipment & Tool Replacement (Water Operations) | proposed that funds be approved | system. for the following projects:- Develop and Replacement of tools and small equipment for Water Operations as required. |

Asset Profile

Regional Water Supply

System assets include the lands, dams and source water reservoirs within the water supply areas, intake and source conduits, two water treatment plants, pressure regulating facilities, nine supply mains, three balancing reservoirs and revenue water meters in the water transmission system.

Equipment Replacement Reserve Schedule

Reserve Fund: 2.670 Regional Water Supply Equipment Replacement Reserve (covered by CRD-ERF Bylaw)

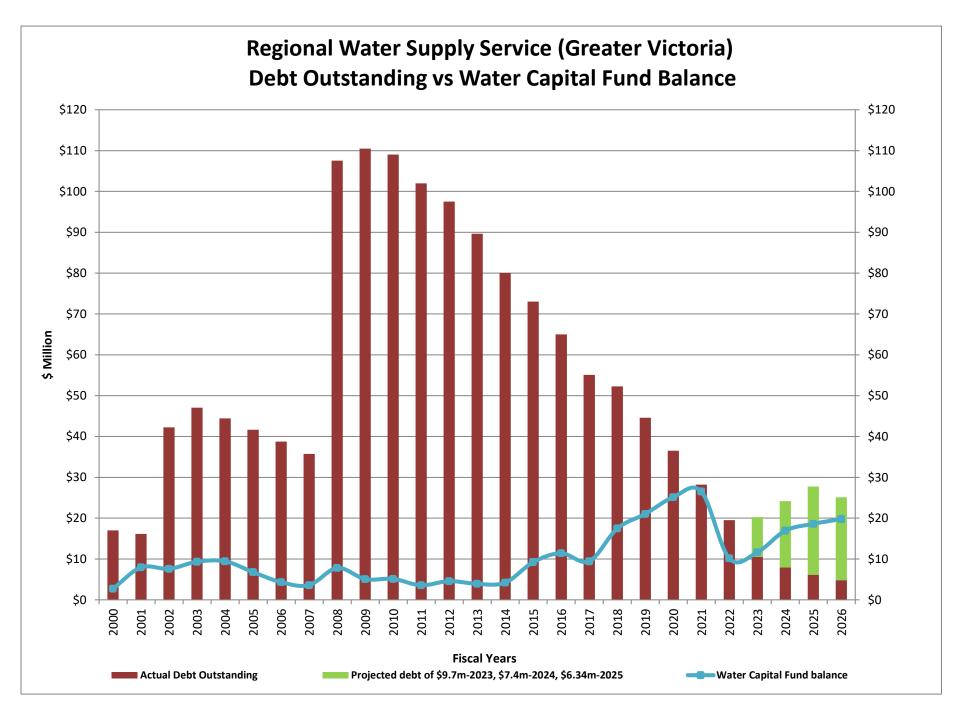
| Fund: 1022 Fund Center: 101454 | Actual | Estimate | Budget | | | | |
|---|-----------|-----------|-------------|-----------|-----------|-----------|-----------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Beginning Balance | 2,031,817 | 2,364,344 | 2,700,884 | 1,990,603 | 1,965,968 | 2,046,342 | 1,997,253 |
| Equipment purchases (Based on Capital Plan) | (27,153) | (19,000) | (1,205,250) | (406,000) | (290,000) | (450,000) | (200,000) |
| Transfer from Operating Budget | 299,294 | 297,540 | 314,181 | 320,465 | 326,874 | 333,411 | 340,080 |
| Proceeds on disposals | 40,475 | 38,000 | 180,788 | 60,900 | 43,500 | 67,500 | 30,000 |
| Interest Income* | 19,911 | 20,000 | | | | | |
| Ending Balance \$ | 2,364,344 | 2,700,884 | 1,990,603 | 1,965,968 | 2,046,342 | 1,997,253 | 2,167,333 |

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 B



APPENDIX C

REGIONAL WATER SUPPLY COMMISSION

Agricultural Water Rate Funding Comparisons 2011 - 2020

| | No. of | No. of | AR | AG | Avg AR | Avg AG | 4 | Agri Rate | Aç | gri Fixed | | Total | A | vg Agri | %age | | Rate | e Different | |
|---------------------------------------|------------|------------|--------------------|--------------------|-------------------|----------------|----------|----------------------|----------|------------------|----------|-------------------------|----------|-----------------|-------------------|--------------------|------|------------------------|------------------------|
| | AR | AG | Volume | Volume | Volume | Volume | Co | nsumption | | Charge | | ri Subsidy | | Cost | of Total | Munici | | Agri | Muni-CRD Diff |
| | Accounts | Accounts | m3 | m3 | m3 (Vol/Accts) | m3 | | Costs | | Costs | | Paid out ns + Fixed) | (Pa | \$ id/Accts) | Total Paid out | Rate m3 | • | Rate m3 | m3 |
| | | | | | | | | | | | | | | | | Α | | В | A - B |
| Western Communities & Sooke * 2020 | 84 | 15 | 42,432 | 51,118 | 505 | 3,408 | \$ | 187,605 | \$ | | s | 187,605 | \$ | 1,895 | 11.9% | \$ 2.21 | 150 | \$ 0.2105 | \$ 2.0054 |
| 2020 | 86 | 14 | 36,598 | 50,277 | 426 | 3,591 | \$ | 165,297 | \$ | - | ŝ | 165.297 | ŝ | 1,653 | 11.1% | \$ 2.11 | | \$ 0.2105 \$ 0.2105 | |
| 2018 | 95 | 18 | 40,657 | 19,669 | 428 | 1,093 | \$ | 112,411 | ŝ | | š | 112,411 | \$ | 995 | 7.9% | \$ 2.07 | | \$ 0.2105 | |
| 2017 | 81 | 11 | 33,458 | 11,628 | 413 | 1,057 | \$ | 76,754 | \$ | - | \$ | 76,754 | \$ | 834 | 5.6% | \$ 1.91 | | \$ 0.2105 | |
| 2016 | 80 | 11 | 41,248 | 8,652 | 516 | 787 | \$ | 84,950 | \$ | - | \$ | 84,950 | \$ | 934 | 5.9% | \$ 1.91 | | \$ 0.2105 | \$ 1.7024 |
| 2015 | 79 | 11 | 33,537 | 7,078 | 425 | 643 | \$ | 64,968 | \$ | - | \$ | 64,968 | \$ | 722 | 5.1% | \$ 1.81 | | \$ 0.2105 | \$ 1.5996 |
| 2014 | 79 | 11 | 29,419 | 9,074 | 372 | 825 | \$ | 60,769 | \$ | - | \$ | 60,769 | \$ | 675 | 5.6% | \$ 1.78 | | \$ 0.2105 | |
| 2013 | 80 | 11 | 25,532 | 5,578 | 319 | 507 | \$ | 46,438 | \$ | - | \$ | 46,438 | \$ | 510 | 4.7% | \$ 1.70 | | \$ 0.2105 | \$ 1.4927 |
| 2012 2011 | 79 75 | 13 11 | 23,617 27,910 | 5,932 4,893 | 299 372 | 456 445 | \$ \$ | 40,828 43,641 | \$ \$ | 1 | \$ \$ | 40,828 43,641 | \$ \$ | 444 507 | 4.3% 5.2% | \$ 1.59 \$ 1.54 | | \$ 0.2105 \$ 0.2126 | |
| | | | | | | | | | | | | | | | | | | | |
| Central Saanich 2020 | 278 | 49 | 375,646 | 233,214 | 1,351 | 4,759 | \$ | 873,579 | \$ | 6,768 | \$ | 880,347 | \$ | 2,692 | 56.0% | \$ 1.80 |)47 | \$ 0.2105 | \$ 1.5942 |
| 2019 | 276 | 47 | 421,804 | 210,499 | 1,528 | 4,479 | \$ | 862,430 | ŝ | 2,162 | ŝ | 864,592 | ŝ | 2,677 | 58.0% | \$ 1.72 | | \$ 0.2105 | \$ 1.5155 |
| 2018 | 278 | 49 | 378,593 | 297,433 | 1,362 | 6,070 | \$ | 866,699 | \$ | 7,003 | \$ | 873,702 | \$ | 2,672 | 61.3% | \$ 1.63 | | \$ 0.2105 | |
| 2017 | 296 | 49 | 398,087 | 298,522 | 1,345 | 6,092 | \$ | 792,125 | \$ | 7,003 | \$ | 799,128 | \$ | 2,316 | 58.7% | \$ 1.55 | | \$ 0.2105 | \$ 1.3470 |
| 2016 | 297 | 51 | 446,241 | 303,419 | 1,502 | 5,949 | \$ | 879,396 | \$ | 7,191 | \$ | 886,587 | \$ | 2,548 | 61.1% | \$ 1.51 | | \$ 0.2105 | \$ 1.3034 |
| 2015 | 294 | 51 | 412,060 | 246,292 | 1,402 | 4,829 | \$ | 739,282 | \$ | 7,144 | \$ | 746,426 | \$ | 2,164 | 58.4% | \$ 1.45 | | \$ 0.2105 | |
| 2014 2013 | 294 296 | 49 | 361,801 | 190,895 | 1,231 | 3,896 | \$ | 596,515 | \$ | 6,808 | \$ | 603,323 | \$ | 1,759 | 55.7% | \$ 1.40 | | \$ 0.2105 \$ 0.2105 | |
| 2013 2012 | 290 | 45 41 | 321,518 325,663 | 194,848 210,906 | 1,086 1,163 | 4,330 5,144 | \$ \$ | 542,837 518,454 | \$ \$ | 4,186 5,658 | \$ \$ | 547,023 524,112 | \$ \$ | 1,604 1,633 | 55.7% 55.6% | \$ 1.37 \$ 1.28 | | \$ 0.2105 \$ 0.2105 | \$ 1.0525 \$ 0.9662 |
| 2012 | 210 | 38 | 312,702 | 169,206 | 1,489 | 4,453 | \$ | 462,183 | ŝ | 5,244 | ŝ | 467,427 | ŝ | 1,885 | 56.1% | \$ 1.28 | | \$ 0.2105 \$ 0.2126 | |
| North Saanich ** | | | | | | | | | | | | | | | | | | | |
| 2020 | 102 | 16 | 57,433 | 108,453 | 563 | 6,778 | \$ | 223,532 | \$ | _ | s | 223,532 | \$ | 1,894 | 14.2% | \$ 1.55 | 580 | \$ 0.2105 | \$ 1.3475 |
| 2019 | 94 | 15 | 58,278 | 95,030 | 620 | 6,335 | \$ | 201,370 | ŝ | - | ŝ | 201,370 | ŝ | 1,847 | 13.5% | \$ 1.52 | | \$ 0.2105 | |
| 2018 | 100 | 16 | 97,574 | 70,666 | 976 | 4,417 | \$ | 220,982 | \$ | - | \$ | 220,982 | \$ | 1,905 | 15.5% | \$ 1.52 | | \$ 0.2105 | |
| 2017 | 100 | 13 | 151,773 | 53,551 | 1,518 | 4,119 | \$ | 245,456 | \$ | - | \$ | 245,456 | \$ | 2,172 | 18.0% | \$ 1.46 | 643 | \$ 0.2105 | \$ 1.2538 |
| 2016 | 100 | 12 | 148,450 | 36,774 | 1,485 | 3,065 | \$ | 230,697 | \$ | - | \$ | 230,697 | \$ | 2,060 | 15.9% | \$ 1.45 | | \$ 0.2105 | |
| 2015 | 106 | 14 | 151,656 | 38,066 | 1,431 | 2,719 | \$ | 230,948 | \$ | - | \$ | 230,948 | \$ | 1,925 | 18.1% | \$ 1.42 | | \$ 0.2105 | |
| 2014 | 98 | 14 | 133,853 | 30,372 | 1,366 | 2,169 | \$ | 194,919 | \$ | - | \$ | 194,919 | \$ | 1,740 | 18.0% | \$ 1.39 | | \$ 0.2105 | \$ 1.1869 |
| 2013 | 102 99 | 13 | 141,845 | 30,647 | 1,391 | 2,357 | \$ \$ | 200,004 | \$ | - | \$ \$ | 200,004 | \$ | 1,739 | 20.4% | \$ 1.37 \$ 1.37 | | \$ 0.2105 | |
| 2012 2011 | 101 | 13 13 | 117,497 106,393 | 45,227 34,921 | 1,187 1,053 | 3,479 2,686 | э \$ | 188,679 163,558 | \$ \$ | | \$ | 188,679 163,558 | \$ \$ | 1,685 1,435 | 20.0% 19.6% | | | \$ 0.2105 \$ 0.2126 | \$ 1.1595 \$ 1.1574 |
| Saanich | | | | | | | | | | | | | | | | | | | |
| 2020 | 68 | 53 | 40,416 | 144,443 | 594 | 2,725 | \$ | 268,877 | \$ | 10,867 | \$ | 279,745 | \$ | 2,312 | 17.8% | \$ 1.66 | \$50 | \$ 0.2105 | \$ 1.4545 |
| 2020 | 68 | 51 | 37,086 | 140,512 | 545 | 2,755 | \$ | 249,436 | ŝ | 10,007 | ŝ | 259,714 | ŝ | 2,182 | 17.4% | \$ 1.61 | | \$ 0.2105 \$ 0.2105 | |
| 2018 | 70 | 49 | 37,503 | 111,896 | 536 | 2,284 | \$ | 208,786 | \$ | 9,996 | \$ | 218,782 | \$ | 1,839 | 15.3% | \$ 1.59 | | \$ 0.2105 | \$ 1.3805 |
| 2017 | 80 | 50 | 38,201 | 132,092 | 478 | 2,642 | \$ | 229,604 | \$ | 9,719 | \$ | 239,324 | \$ | 1,841 | 17.6% | \$ 1.56 | | \$ 0.2105 | \$ 1.3495 |
| 2016 | 71 | 53 | 36,409 | 139,764 | 513 | 2,637 | \$ | 237,745 | \$ | 10,056 | \$ | 247,802 | \$ | 1,998 | 17.1% | \$ 1.56 | | \$ 0.2105 | \$ 1.3495 |
| 2015 | 75 | 51 | 74,841 | 129,225 | 998 | 2,534 | \$ | 226,276 | \$ | 9,727 | \$ | 236,003 | \$ | 1,873 | 18.5% | \$ 1.54 | | \$ 0.2105 | \$ 1.3315 |
| 2014 | 72 | 53 50 | 46,230 | 177,633 | 642 | 3,352 | \$ | 213,981 179,004 | \$ | 9,883 9,655 | \$ | 223,863 | \$ \$ | 1,791 1,641 | 20.7% 19.2% | \$ 1.45 \$ 1.34 | | \$ 0.2105 \$ 0.2105 | |
| 2013 2012 | 65 68 | 50 47 | 35,745 38,212 | 122,456 138,455 | 550 562 | 2,449 2,946 | \$ \$ | 179,004 | \$ \$ | 9,655 | \$ \$ | 188,659 189,701 | э \$ | 1,641 | 20.1% | \$ 1.34 \$ 1.23 | | \$ 0.2105 \$ 0.2105 | |
| 2011 | 71 | 46 | 101,235 | 121,896 | 1,426 | 2,650 | \$ | 149,584 | \$ | 9,118 | \$ | 158,703 | \$ | 1,356 | 19.0% | \$ 1.15 | | \$ 0.2126 | |
| | | | | | | | | | | | | | | | | | | | |
| Totals 2020 | 532 | 133 | 515,927 | 537,228 | 970 | 4,039 | \$ | 1,553,594 | \$ | 17,635 | s | 1,571,229 | \$ | 2,363 | 100% | | | | |
| 2019 | 524 | 127 | 553,766 | 496,318 | 1,057 | 3,908 | | 1,478,533 | \$ | 12,440 | \$ | 1,490,973 | \$ | 2,290 | 100% | | | | |
| 2018 | 543 | 132 | 554,327 | 499,664 | 1,021 | 3,785 | | 1,408,879 | \$ | 16,999 | \$ | 1,425,878 | \$ | 2,112 | 100% | | | | |
| 2017 | 557 | 123 | 621,519 | 495,793 | 1,116 | 4,031 | | 1,343,940 | \$ | 16,722 | \$ | 1,360,663 | \$ | 2,001 | 100% | | | | |
| 2016 | 548 | 127 | 672,348 | 488,609 | 1,227 | 3,847 | | 1,432,788 | \$ | 17,247 | \$ | 1,450,036 | \$ | 2,148 | 100% | | | | |
| 2015 | 554 | 127 | 672,094 | 420,661 | 1,213 | 3,312 | | 1,261,474 | \$ | 16,871 | \$ | 1,278,344 | \$ | 1,877 | 100% | | | | |
| 2014 2013 | 543 543 | 127 119 | 571,304 524,640 | 407,973 353,529 | 1,052 966 | 3,212 2,971 | \$ \$ | 1,066,184 968,283 | \$ \$ | 16,691 13,841 | \$ \$ | 1,082,874 982,124 | \$ \$ | 1,616 1,484 | 100% 100% | | | | |
| 2013 2012 | 543 526 | 119 | 524,640 504,989 | 400,520 | 960 | 3,513 | Դ Տ | 908,283 928,426 | э \$ | 14,893 | э \$ | 962,124 943,320 | э \$ | 1,464 | 100% | | | | |
| 2012 | 457 | 108 | 548,240 | 330,916 | 1,200 | 3,064 | \$ | 818,967 | | 14,362 | | 833,329 | \$ | 1,475 | 100% | | | | |
| | | | | | - | | | | | | | | | | | | | | |

Western Communities do not charge a fixed charge

** North Saanich charges the fixed charge on property taxes

AR - Agriculture/Residential customers receive a rebate on consumption over 455 cubic meters annual as the meter feeds both premise and land. AG - Agriculture customers receive a rebate on the entire consumption annually as the meter is dedicated only for land.

APPENDIX D

