

APPENDIX A

CAPITAL REGIONAL DISTRICT

5 YEAR CAPITAL PLAN

2024 - 2028

Service #: 2.680
 Service Name: JDF Water Distribution

				PROJECT BUDGET & SCHEDULE										
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward	2024	2025	2026	2027	2028	5 - Year Total	
INFRASTRUCTURE ENGINEERING AND OPERATIONS														
Planning														
16-03	Renewal	Asset Management Plan	Combine past studies to plan out future capital expenditures.	\$ 400,000	\$	WU	\$ 145,000	\$ 395,000	\$ -	\$ -	\$ -	\$ -	\$ 395,000	
21-14	Renewal	Fire Storage Analysis	Assess and update the fire flow upgrade program to inform future capital works.	\$ 120,000	\$	WU	\$ 120,000	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000	
Capital														
16-05	Renewal	Comprehensive Pump Station Upgrades (10 year Program)	Continue pump station condition assessments, plan and carry out upgrades.	\$ 5,600,000	\$	WU	\$ 1,700,000	\$ 3,200,000	\$ 500,000	\$ 450,000	\$ -	\$ -	\$ 4,150,000	
18-03	Renewal	JDF Site Decommissioning Program	Decommissioning of facilities that are no longer in use based on preliminary work from Annual Provisional	\$ 1,050,000	\$	WU	\$ 540,000	\$ 540,000	\$ 150,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 990,000	
18-06	New	Disaster Response Plan for Water Supply and Distribution	Determine and supply response equipment for disaster response.	\$ 450,000	\$	WU	\$ 60,000	\$ 110,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 310,000	
19-09	New	Distribution System Seismic Resiliency Improvements	Determine and commence improvements to the distribution system to provide seismic resiliency.	\$ 1,750,000	\$	WU	\$ 250,000	\$ 750,000	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ 1,750,000	
20-03	Replacement	AC Pipe Replacement Program	Replacement of aging asbestos cement pipe year over year as outlined in the May 2023 staff report. Replacement is expected to be phased until 2055 to replace all AC pipe in the distribution network.	\$ 140,000,000	\$	WU	\$ 4,060,000	\$ 7,360,000	\$ 5,520,000	\$ 3,500,000	\$ 900,000	\$ 3,600,000	\$ 20,880,000	
20-04	Replacement	William Head & VGH Meter Replacement	Replacement of the meter and chambers at William Head & VGH with the possibility of resilient connections.	\$ 700,000	\$	WU	\$ 185,000	\$ 585,000	\$ -	\$ -	\$ -	\$ -	\$ 585,000	
21-02	Replacement	Sooke Rd - 2,200m of 600mm Pipe - VMP to Jacklin	Replacement of aged, large diameter water main from Jacklin Rd to VMP	\$ 4,000,000	\$	WU	\$ 200,000	\$ 200,000	\$ 1,100,000	\$ 2,700,000	\$ -	\$ -	\$ 4,000,000	
21-13	Replacement	SCADA Master Plan Update & Upgrades	Update the SCADA Master Plan in conjunction with the RWS, Saanich Peninsula and Core Area Infrastructure.	\$ 1,900,000	\$	WU	\$ 900,000	\$ 900,000	\$ 600,000	\$ 300,000	\$ -	\$ -	\$ 1,800,000	
22-01	New	East Sooke Interconnect Water Main	Construction approximately 430 m of watermain for system improvements.	\$ 850,000	\$	WU	\$ 470,000	\$ 820,000	\$ -	\$ -	\$ -	\$ -	\$ 820,000	
22-02	New	Microwave Radio Upgrades	Installation of high-bandwidth microwave radio infrastructure to accommodate CRD infrastructure	\$ 550,000	\$	WU	\$ 150,000	\$ 250,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 450,000	
24-01	New	Charters Road Watermain Replacement	Replacement of watermain on Charters Road as part of larger transportation project being undertaken by District of Sooke.	\$ 650,000	\$	WU	\$ -	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 650,000	
24-02	New	Hwy 14 Watermain Relocation	Relocation of CRD watermain in MOTI right of way. Project work to be bundled within MOTI's project.	\$ 2,000,000	\$	WU	\$ -	\$ 820,000	\$ 1,180,000	\$ -	\$ -	\$ -	\$ 2,000,000	
24-03	New	Meter Reading Equipment	Crucial meter reading equipment required for meter reading van as required to replace failed equipment.	\$ 80,000	\$	WU	\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ 80,000	
Sub-Total System Infrastructure Engineering and Operations				\$ 160,100,000			\$ 8,780,000	\$ 16,780,000	\$ 8,600,000	\$ 6,100,000	\$ 3,750,000	\$ 3,750,000	\$ 38,980,000	
CUSTOMER AND TECHNICAL SERVICES														
16-06	Replacement	Vehicle & equipment replacement (funding from replacement fund)	Vehicle and equipment replacement.	\$ 2,094,000	V	ERF	\$ 400,000	\$ 1,165,000	\$ 905,000	\$ 774,000	\$ 710,000	\$ 750,000	\$ 4,304,000	
23-02	New	Vehicle to support the meter replacement program	Purchase of a Transit Van equipped with tools and equipment to support the meter replacement program	\$ 200,000	V	WU	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000	
Sub-Total Customer and Technical Services				\$ 2,294,000			\$ 600,000	\$ 1,365,000	\$ 905,000	\$ 774,000	\$ 710,000	\$ 750,000	\$ 4,504,000	
ANNUAL PROVISIONAL ITEMS														
17-07	New	Site Decommissioning - General	Planning for decommissioning of unused sites.	\$ 50,000	\$	WU	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	
17-09	Replacement	Emergency Main Replacement	Major main replacement under emergencies.	\$ 500,000	\$	WU	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	
17-12	Replacement	Large Meters/Meter Vaults Components Replacement	Replacement or repairs to components in large meters/vaults as required.	\$ 1,250,000	\$	WU	\$ -	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000	
17-13	New	Site Security Upgrades	Upgrading and replacement of security systems for sites as required.	\$ 200,000	\$	WU	\$ -	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000	
17-15	Renewal	Distribution System Improvements	Unplanned distribution system improvements or decommissioning.	\$ 2,250,000	\$	WU	\$ -	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 2,250,000	
17-16	New	Hydraulic Model Yearly Update	Annual hydraulic model update.	\$ 300,000	\$	WU	\$ -	\$ 65,000	\$ 65,000	\$ 65,000	\$ 70,000	\$ 70,000	\$ 335,000	
21-03	Replacement	Hydrant & Flush Replacement, Upgrades and Additions	Upgrade, replacement or installation of flushes and fire hydrants, and fire flow testing.	\$ 1,125,000	\$	WU	\$ -	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 1,125,000	
21-04	Replacement	Residential Service & Meter Replacement	Replacement of residential water meters as highlighted by the 2017 KWL Water Audit report.	\$ 6,500,000	\$	WU	\$ -	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 6,500,000	
21-05	Replacement	Pump Station Equipment Replacements	Unplanned pump station repairs and equipment replacement	\$ 750,000	\$	WU	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 750,000	
21-06	Replacement	SCADA Equipment Replacement	Unplanned replacement of SCADA and electrical equipment.	\$ 500,000	\$	WU	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	
21-07	Renewal	Reservoir Equipment Replacement	Replacement or repairs to components at reservoir sites.	\$ 500,000	\$	WU	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	
21-09	Replacement	Valve Replacement	Unplanned replacement and repair of isolation and line valves, air valves, and pressure control valves.	\$ 1,200,000	\$	WU	\$ -	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000	
Sub-Total for Annual Provisional Items				\$ 15,125,000			\$ -	\$ 2,990,000	\$ 2,990,000	\$ 2,990,000	\$ 2,995,000	\$ 2,995,000	\$ 14,960,000	
DEVELOPMENT COST CHARGE (DCC)														
16-07	New	Update DCC Bylaw (Comprehensive Update in 2022)	Planned update of the DCC Bylaw.	\$ 295,000	\$	Res	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 165,000	\$ 245,000	
21-01	New	Sooke Henlyn Supply & Distribution Mains	Construction of water mains based upon development predictions from the Helgesen Pump Station westwards.	\$ 1,000,000	\$	Res	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	
25-02	New	Thrup Road Watermain Installation	Future budget to install new watermain along Thrup Road when District of Sooke completes connector road.	\$ 900,000	\$	Res	\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ 900,000	
Sub-Total for Development Cost Charges (DCC)				\$ 2,195,000			\$ 1,000,000	\$ 1,020,000	\$ 920,000	\$ 20,000	\$ 20,000	\$ 165,000	\$ 2,145,000	
GRAND TOTAL				\$ 179,714,000			\$ 10,380,000	\$ 22,155,000	\$ 13,415,000	\$ 9,884,000	\$ 7,475,000	\$ 7,660,000	\$ 60,589,000	