



Notice of Meeting and Meeting Agenda Juan De Fuca Water Distribution Commission

Tuesday, July 2, 2024

12:00 PM

Goldstream Meeting Room, 479 Island Highway

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

MEMBERS:

G. Baird (Chair); J. Rogers (Vice Chair); S. Donaldson; D. Grove; C. Harder; K. Pearson;
M. Wagner; A. Wickheim

1. TERRITORIAL ACKNOWLEDGEMENT

2. APPROVAL OF AGENDA

3. ADOPTION OF MINUTES

3.1 [24-684](#) Adoption of May 7, 2024 Meeting Minutes

Recommendation: That the minutes of the May 7, 2024 Juan de Fuca Water Distribution Commission meeting be adopted.

Attachments: [Draft Minutes, May 7, 2024](#)

4. CHAIR'S REMARKS

5. PRESENTATIONS/DELEGATIONS

Delegations will have the option to participate electronically. Please complete the <https://www.crd.bc.ca/about/board-committees/addressing-the-board> application for "Addressing the Board" on our website and staff will respond with details.

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

6. GENERAL MANAGER'S REPORT

7. COMMISSION BUSINESS

7.1 [24-685](#) Juan de Fuca Water Service 2024 Mid-Year Capital Projects and Operations Update

Recommendation: There is no recommendation, this report is for information only.

Attachments: [Staff Report: 2024 Mid-Year Cap Projects & Operations Update](#)
[Appendix A: 2024 Capital Budget](#)
[Appendix B: Coppermine Pump Stations Upgrades](#)
[Appendix C: AC Pipe Replacement Program](#)
[Appendix D: William Head and VGH Meter Replacement](#)
[Appendix E: East Sooke Interconnect Watermain](#)
[Appendix F: Charters Road Watermain Replacement](#)

7.2 [24-687](#) Summary of Recommendations from Other Water Commissions

Recommendation: There is no recommendation, this report is for information only.

Attachments: [Summary of Recommendations](#)

7.3 [24-683](#) Water Watch Report

Recommendation: There is no recommendation, the report is for information only.

Attachments: [Water Watch Report](#)

8. NOTICE(S) OF MOTION

9. NEW BUSINESS

10. MOTION TO CLOSE THE MEETING

10.1 [24-686](#) Motion to Close the Meeting

Recommendation: That the meeting be closed for Intergovernmental Relations in accordance with the Community Charter, Part 4, Division 3, Section 90(2)(b). [1 Item]

11. RISE AND REPORT

12. ADJOURNMENT

Next Meeting: Tuesday, September 3, 2024



Making a difference...together

MINUTES OF A MEETING OF THE Juan de Fuca Water Distribution Commission, held Tuesday, May 7, 2024 at 12 pm, Goldstream Meeting Room, 479 Island Highway, Victoria, BC

PRESENT: Commissioners: G. Baird (Chair); J. Rogers (Vice Chair) (EP 12:22 pm); S. Donaldson; D. Grove; C. Harder; K. Pearson (12:03 pm); M. Wagner; A. Wickheim

Staff: A. Fraser, General Manager, Integrated Water Services; J. Marr, Senior Manager, Infrastructure Engineering; S. Irg, Senior Manager, Infrastructure Water Operations; N. Tokgoz, Manager, Water Distribution Engineering and Planning; D. Dionne, Administrative Coordinator (Secretary); M. Risvold, Administrative and Committee Clerk

REGRETS:

EP = Electronic Participation

The meeting was called to order at 12 pm.

1. TERRITORIAL ACKNOWLEDGEMENT

The Chair provided the Territorial Acknowledgement.

2. APPROVAL OF AGENDA

MOVED by Commissioner Harder, **SECONDED** by Commissioner Wagner, That the agenda be approved.

CARRIED

3. ADOPTION OF MINUTES

MOVED by Commissioner Pearson, **SECONDED** by Commissioner Wickheim, That the minutes of the January 9, 2024 meeting be adopted.

CARRIED

4. CHAIR'S REMARKS

The Chair made the following remarks:

- He attended a water symposium put on by Capital Regional District (CRD) staff. He noted that the symposium was related to the emergency water disaster response program and extended his gratitude to S. Irg and all the staff who put time and effort into the symposium.

5. PRESENTATIONS/DELEGATIONS

There were none.

6. GENERAL MANAGER'S REPORT

6.1. Water Conservation Bylaw in Effect May 1, 2024

A. Fraser provided an update noting that the Water Conservation Bylaw No. 4099

came into effect on May 1, 2024. The Bylaw has been updated to target high summer instantaneous demand (4 am, 5 am, and 6 am) which coincides with residential watering days and irrigation systems. To help alleviate this issue, CRD added a new lawn watering time (12:01 am to 10 am on established watering days) to the Bylaw for timed irrigation systems only.

The CRD is actively engaging the irrigation industry and the community.

The CRD Website has all the information and municipalities are welcome to provide a link to this page from their websites.

[Water Conservation at Home | CRD](https://www.crd.bc.ca/education/water-conservation/at-home)

(<https://www.crd.bc.ca/education/water-conservation/at-home>)

Staff responded to questions from the Commission regarding:

- Clarification that the bylaw changes are specific to residential. There are other existing requirements related to commercial and industrial and institutional watering.
- Public awareness and advertising of the issue related to instantaneous demand.
- Clarification on how the instantaneous demand puts pressure on the treatment plant and its effect on the distribution system.

7. COMMISSION BUSINESS

7.1. Juan de Fuca Development Cost Charges (DCC) Update

J. Marr introduced the staff report.

J. Rogers joined the meeting (EP)

Staff responded to questions from the Commission regarding:

- Staff provided an update on new projects.
- Clarification that the Westhills water system is private and directly connected to the Regional Water System.
- How provincial legislation around increased affordable housing could have an impact. Staff noted that they meet with the municipalities to confirm growth estimates and update the Development Cost Charges (DCC) Bylaw every five years to help keep on track. Adjustments and new rates can be considered then.
- Whether there is risk of in-stream developments, that have already paid DCCs seeking a refund. Fees are collected at the time of the building permit; they will have paid the DCCs under the Bylaw in place at that time. Municipalities would be notified when the new Bylaw comes into effect and any DCCs would be claimed under the new Bylaw.

MOVED by Commissioner Wagner, **SECONDED** by Commissioner Grove,
That staff be directed to proceed with stakeholder engagement and continue with the 2024 Juan de Fuca Water Service Development Cost Charge Program and Bylaw update.

CARRIED

7.2. Juan de Fuca Water Distribution 2024 Capital Plan Amendment

J. Marr introduced the staff report.

Staff responded to questions from the Committee regarding:

- No impact to the planned emergency response program budget.
- Clarification of location of Project 24-02.

MOVED by Commissioner Pearson, **SECONDED** by Commissioner Grove,
The Juan de Fuca Water Distribution Commission recommends that the Capital
Regional District Board:

Approve amending the 2024 Juan de Fuca Water Distribution Service Capital Budget
and Five-Year Capital Plan to reallocate 2024 and 2025 budget updates for projects
16-05, 20-03, 21-02, 24-02 and 24-03 as outlined in Appendix A.

CARRIED

7.3. Summary of Recommendations from other Water Commissions

Item was received for information.

7.4. Water Watch Report

Item was received for information.

8. NOTICE(S) OF MOTION

There were none.

9. NEW BUSINESS

There was no new business.

10. MOTION TO CLOSE THE MEETING [DELETE IF NOT NEEDED]

The Commission moved into closed session at 12:43 pm.

MOVED by Commissioner Harder, **SECONDED** by Commissioner Donaldson,
That the meeting be closed for Intergovernmental Relations in accordance with the
Community Charter, Part 4, Division 3, Section 90(2)(b).

CARRIED

11. RISE AND REPORT [DELETE IF NOT NEEDED]

The Commission rose from its closed session at 1:05 pm without report.

12. ADJOURNMENT

MOVED by Commissioner Grove, **SECONDED** by Commissioner Harder,
That the May 7, 2024 Juan de Fuca Water Distribution Commission meeting be adjourned at
1:05 pm.

CARRIED

CHAIR

SECRETARY

DRAFT



**REPORT TO JUAN DE FUCA WATER DISTRIBUTION COMMISSION
MEETING OF TUESDAY, JULY 2, 2024**

SUBJECT **Juan de Fuca Water Service 2024 Mid-Year Capital Projects and Operations Update**

ISSUE SUMMARY

To provide the Juan de Fuca (JDF) Water Distribution Commission with a mid-year update on the JDF Water Distribution System (the System) capital program and operations updates.

BACKGROUND

Capital Program Update

The capital program reflects the planned capital spending for the next five years and forms part of the annual service budget that is approved in March each year by the Capital Regional District (CRD) Board. A total of 32 capital projects are identified in 2024 with an expenditure estimated at \$22,155,000. The majority of capital projects identified for 2024 are progressing except for capital projects 24-02 – Highway 14 Watermain Relocation and 21-01 – Sooke Henlyn Supply and Distribution Mains. These two projects are CRD funded but the delivery responsibility lies with Ministry of Transportation and the development community (Development Cost Charge Funded) respectively. Current forecasts are such that no significant spend is expected on these two projects in 2024. Refer to Appendix A for the 2024 capital budget.

16-03 | Asset Management Plan

Scope

This project's outcome will inform multiple future JDF System capital projects and programs including, but not limited to, fire storage analysis, pump station upgrades, reservoir upgrades and site decommissioning. The purpose of the Asset Management Plan (AMP) is to ensure that the JDF water system is operated and maintained in a sustainable and cost-effective manner and to provide the expected level of service for present and future customers. This AMP will provide a condition assessment of JDF water assets and include criticality analysis and risk management. The AMP will include recommended packaged capital programs to include in the CRD's future capital planning process.

Budget

The overall budget for this project is \$520,000 as it will combine the \$120,000 Fire Storage Analysis (21-14) project budget with the AMP (16-03) \$400,000 project budget.

Schedule

A Request for Proposals (RFP) for consultant services is planned to be issued by the end of summer 2024 and the project completed by spring 2025.

Community Impacts

No impacts are expected during the AMP project.

16-05 | Comprehensive Pump Station Upgrades (10-year Program) – Coppermine Pump Stations Upgrades (Appendix B)

Scope

This project is driven by the documented poor conditions and recommended replacement of the existing Copper Mine 1 and 2 pump stations and Copper Mine pressure control station. The project includes the following components:

- Design and construction of the complete replacement of the existing pump stations.
- Inclusion of a pressure control station within the new Copper Mine 1 pump station.
- Decommissioning and removal of the existing pump and pressure control stations.

Budget

The overall budget for this project is \$3.6 million.

Schedule

This project is currently designed with construction expected to start in summer 2024 and project completion scheduled for summer 2025.

Community Impacts/Permits

The primary impact will be the potential for disruption of traffic along Copper Mine Road. There may also be minor water supply outages as connections are made between existing and new system components.

Permits required for this project are:

- Island Health – Construction permit (received)
- Ministry of Transportation and Infrastructure – Roads permit (expected without issue)
- Juan de Fuca Electoral Area - building permit (expected without issue)

16-07 Update Development Cost Charge (DCC) Bylaw

Scope

Every five years the CRD updates the Development Cost Charge (DCC) bylaw to identify growth-related infrastructure requirements and the associated financial implications to the DCC program. The project includes the following components:

- Identify areas of growth which have, or will occur in member municipalities, any rezoning changes, Official Community Plan (OCP) amendments or any servicing concept changes in response to development that has occurred and identify the growth-related infrastructure requirements and associated financial implications.
- Updated water distribution model and analysis of the current distribution network, facilities and appurtenances to identify improvements needed to support development based on their OCPs and anticipated population growth within the next 5,10 and 20-year time frames.
- Conceptual designs and cost estimates for required improvements (i.e. pump stations, reservoirs, pressure control stations and pipelines).
- Updating the CRD Five-Year Capital Plan with updated DCC projects.
- Updating CRD Bylaw 2758 Development Cost Charges Bylaw (Juan de Fuca Water Distribution).

Budget

The overall budget for this project is \$175,000. The project is on budget.

Schedule

The consultant, Urban Systems Ltd., was retained in early 2023 and has completed the draft DCC program update and report. The report was presented to the JDF Water Distribution Commission in May 2024 and the next step of public consultation of the updated DCC program was approved. Public consultation is planned for the fall of 2024 and completion of the DCC Bylaw and program update is expected by spring 2025.

Community Impacts

The primary impact will be the continued coordination between the CRD and the JDF Water Distribution Commission member municipalities and their planning departments.

20-03 | Asbestos Cement (AC) Pipe Replacement Program (Appendix C)

Scope

The JDF Water Distribution System includes a variety of pipe materials, but based on age and anticipated service life, AC watermains are known to be among the highest priority for replacement. As such, the CRD manages the AC Pipe Replacement Program which prioritizes AC pipe replacement on a combination of factors including age, leak history, flow/capacity and other ancillary information (operational input, operating pressure, proximity to other capital works, etc.).

- Design and construction of the complete replacement of AC water mains at various locations within the Juan de Fuca water distribution system.

Budget

As noted in the May 2, 2023 JDF Commission staff report, this program is expected to continue until the year 2055 and cost approximately \$130 million (2023 dollars) with an average of \$3.5 million being added per year. A larger carry forward budget from 2023 into 2024 was due to carry over of the unspent funds that were set aside for the Goldstream Avenue AC Replacement Project. This additional accumulated funding will allow for CRD staff to continue at their typical rate of replacement and also allow funding to be allocated toward a larger AC Replacement Project in Sooke that commenced design in 2024 and will be targeted for construction in 2025.

Schedule

A number of projects have already been designed and are slated for construction in 2024. The 2024 projects include:

- Lagoon Road
- Hagel Road
- Volmer Road

The above noted 2024 projects are being completed by CRD staff in addition to the East Sooke Interconnect Watermain (22-01), which is described later in this report. Additionally, design efforts are underway to progress the following 2025 projects:

- Milburn Drive
- Adye Road
- Knollwood Road
- Tipton Avenue

- Latoria Road
- Fulton Road & Haida Road
- Ronald Road
- Sooke Road (tendered project)
- Glen Lake Road (design ready but anticipated 2026 Construction)

The above noted 2024 and 2025 project locations are shown in Appendix C. It is noted that the exact timing and sequence of these projects is subject to adjustment based on other operational factors and coordination with interested parties.

Community Impacts/Permits

The primary impact will be the potential for disruption of traffic along roads that the new water mains will be installed. There may also be minor water supply outages as connections are made between existing and new system components.

Permits required vary on a location-by-location basis, however they include at a minimum:

- Island Health – Construction permit
- Various Municipalities– Roads permit

20-04 | William Head and VGH Meter Replacement (Appendix D)

Scope

The purpose of this project is to decommission the outdated water meters at the William Head and Victoria General Hospital (VGH) locations from their confined space inground chambers and install new revenue meters into above ground kiosks.

Schedule

The VGH Meter Chamber was decommissioned in June 2023 with the new revenue water meter installed in an above ground kiosk. This portion of the overall project work has been successfully completed and the hospital is pleased with the new improvements.

The William Head Meter site has been designed with decommissioning of the existing meter chamber and installation of the new above ground water meter kiosk scheduled to start August 2024. Construction is expected to be fully completed by the end of 2024.

Budget

The overall budget for this project is \$1,100,000. This project is continuing within budget.

Community Impacts/Permits

Permits required for this project are:

- Island Health – Construction permit
- District of Metchosin – Road Works Permit
- William Head Institution is informed and coordinating with the CRD

22-01 | East Sooke Interconnect Watermain (Appendix E)

Scope

This project is the construction of approximately 430 meters of watermain on East Sooke Road between Coppermine Road and Raglan Place. The interconnection will provide redundancy, reduce operational issues and improve flows in the area.

Schedule

The East Sooke Interconnect Design was completed in February 2024 and construction by CRD forces is expected to commence in the third quarter of 2024.

Budget

The overall budget for this project is \$850,000.

Community Impacts/Permits

The primary impact will be the potential for disruption of traffic along East Sooke Road where the new watermain will be installed. CRD will work with their traffic control company and the Ministry of Transportation to communicate any disruptions and minimize impacts to the community. There may also be minor water supply outages as connections are made between existing and new system components.

Permits required for this project are:

- Island Health – Construction permit
- Ministry of Transportation and Infrastructure – Roads permit

24-01 | Charters Road Watermain Replacement (Appendix F)

Scope

This project is to replace aging AC watermain along Charters Road as part of the District of Sooke's (DOS) larger Active Transportation Project. The DOS is constructing a new active transportation corridor along Charters Road between Golledge Avenue and Throup Road, where a CRD AC watermain currently exists. Given the high priority of replacing the watermain on Charters Road within the AC Replacement Program, the CRD and DOS saw an opportunity to coordinate efforts. They entered into a memorandum of understanding, resulting in the watermain replacement being constructed through the DOS's contract and funded by the CRD.

Schedule

The District of Sooke issued a tender for the Charters Road Active Transportation Project, which includes replacing the CRD's AC watermain, in May 2023. Hazelwood Construction was awarded the construction contract in August 2023, with construction starting in January 2024. A portion of the watermain replacement was completed in February 2024, and the remaining work is expected to be finished by the end of September 2024.

Budget

The overall budget for this project is \$650,000.

Community Impacts/Permits

The District of Sooke is managing this project and associated community engagement.

Operations Update

Operating budgets are on track to date with no major variances anticipated for the remainder of the year. The following are highlights, to date in 2024, of activities undertaken by Water Operations.

Emergency response:

The System is remotely monitored 24 hours, seven days a week by the Goldstream Water Treatment Plant. A Water Operator is on call continuously outside of regular work hours and responds to emergency callouts. To date, there has been one watermain break (May 27) on Glen Lake Road in Langford.

The leak occurred during regular working hours and an Operations crew in the area was able to quickly respond and begin repairs.

Flushing Program:

The annual uni-directional flushing program has concluded the winter/spring session and will commence again in September. Flushing of water mains within the System is on a two-year cycle, with approximately half of the system flushed each year. The program is on schedule to complete flushing the required 50% of the system in 2024.

Meter and Service Line Replacement:

Year-to-date, Water Operations has replaced approximately 600 residential meters and 260 service lines that were leaking or at end of service life.

Developer Connections:

Expansion of the System continues, driven by development. To date approximately 31 developer connections have been completed with 30 to 40 more anticipated by the end of 2024.

CONCLUSION

This report provides the Juan de Fuca Water Distribution Commission with updates on the major capital projects for the Juan de Fuca Water Distribution System. In addition, information has been provided regarding operational issues.

RECOMMENDATION

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

Submitted by:	Jared Kelly, P.Eng., Manager, Capital Projects
Submitted by:	Natalie Tokgoz, P.Eng., Manager, Water Distribution Engineering and Planning
Concurrence:	Shayne Irg, P.Eng., Senior Manager, Water Infrastructure Operations
Concurrence:	Joseph Marr, P.Eng., Senior Manager, Infrastructure Engineering
Concurrence:	Alicia Fraser, P. Eng., General Manager, Integrated Water Services
Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer

ATTACHMENT(S)

- Appendix A: 2024 Capital Budget
- Appendix B: Coppermine Pump Stations Upgrades
- Appendix C: AC Pipe Replacement Program
- Appendix D: William Head and VGH Meter Replacement
- Appendix E: East Sooke Interconnect Watermain
- Appendix F: Charters Road Watermain Replacement

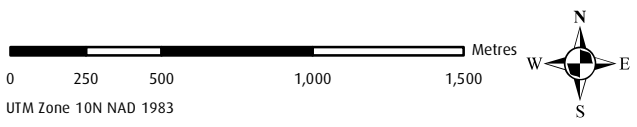
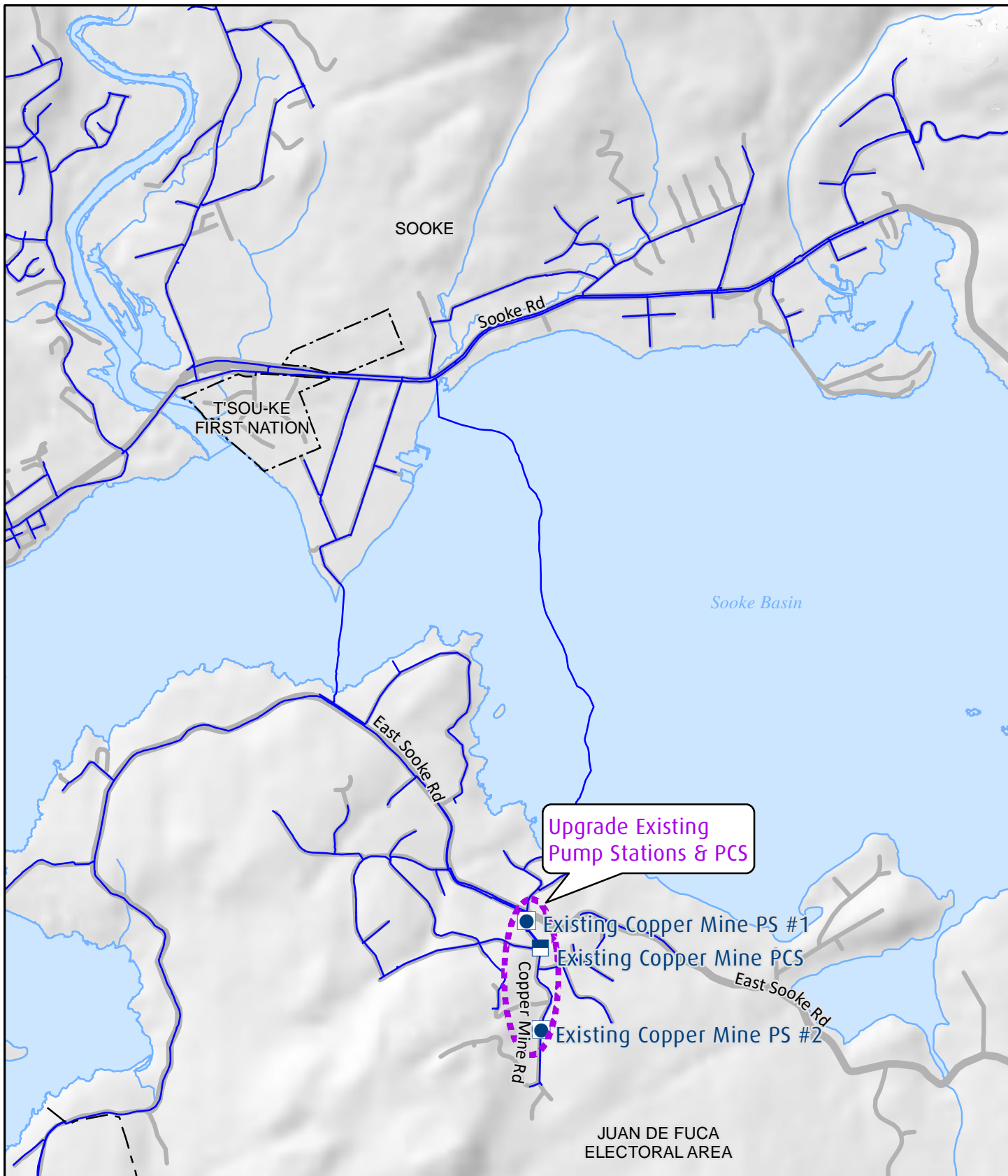
CAPITAL REGIONAL DISTRICT

5 YEAR CAPITAL PLAN

2024 - 2028

Service #: 2.680
 Service Name: JDF Water Distribution

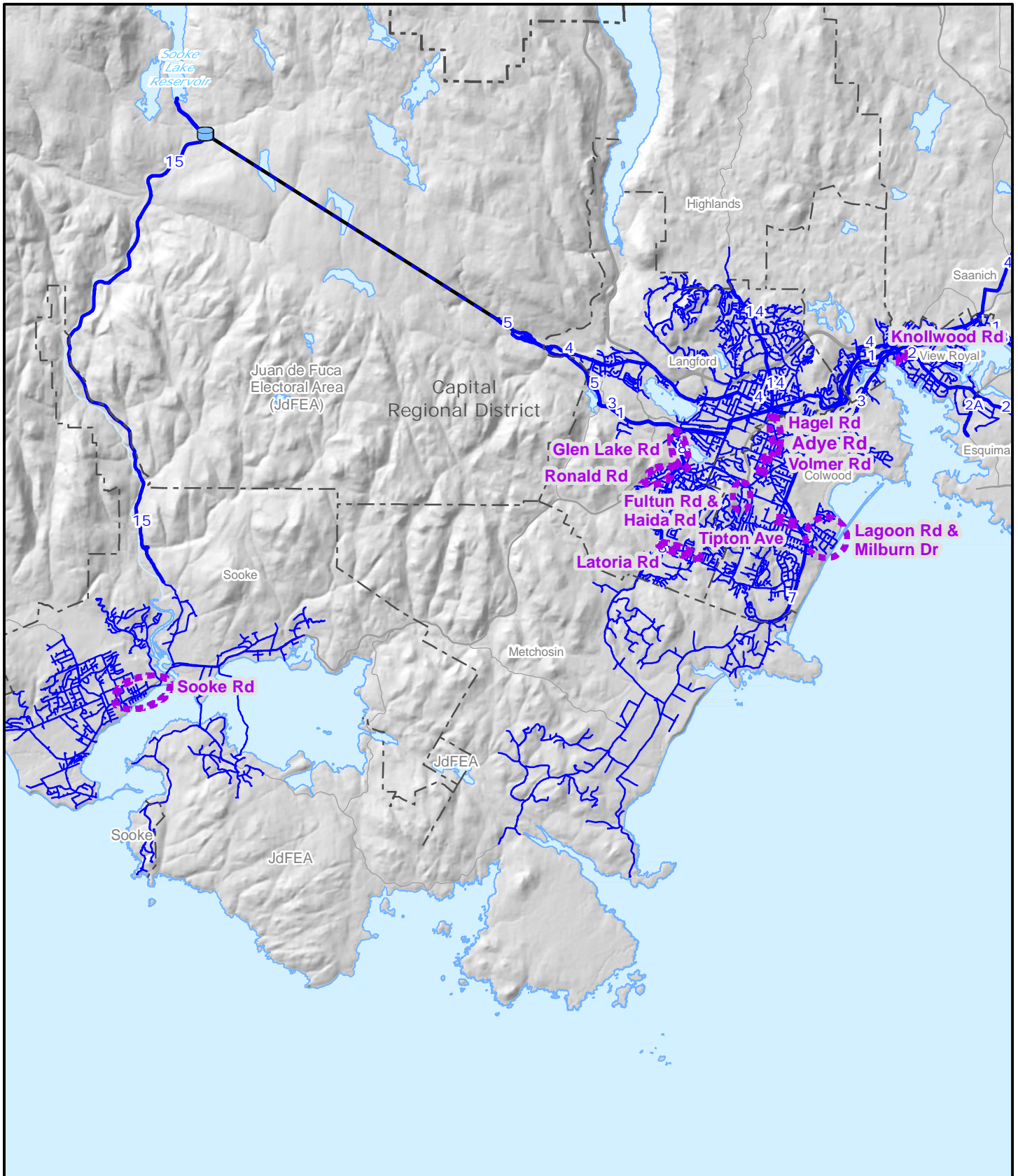
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	PROJECT BUDGET & SCHEDULE										
				Total Project Budget	Asset Class	Funding Source	Carryforward	2024	2025	2026	2027	2028	5 - Year Total	
INFRASTRUCTURE ENGINEERING AND OPERATIONS														\$ -
Planning														\$ -
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	\$ 150,000	\$ 540,000	\$ 150,000	\$ 100,000	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 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	\$ 20,000	\$ 165,000	\$ 245,000	
21-01	New	Sooke Henryn Supply & Distribution Mains	Construction of water mains based upon development predictions from the Helgeen 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		



JdF Water Distribution Service Projects Update Coppermine Pump Station Upgrades Project Project Location



DISCLAIMER
This map is for general information only and may contain inaccuracies.
June 2024 | 2024AppendixB_CopperMineEastSooke.mxd | helpdesk@crd.bc.ca



0 0.5 1 2 3 4 Kilometres

UTM Zone 10N NAD 1983



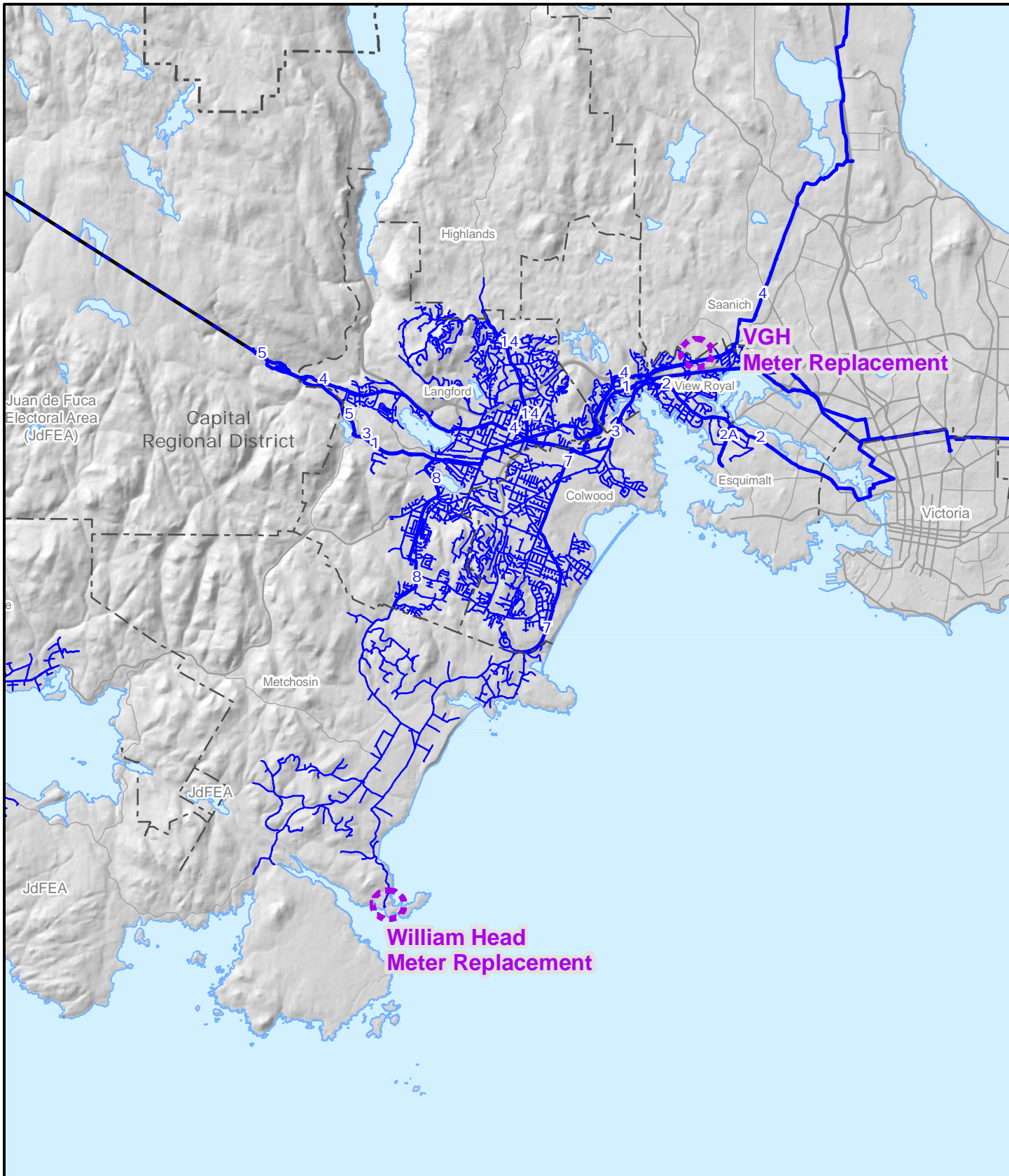
JdF Water Distribution Service Projects Update
AC Pipe Replacement Program
Project Locations 2024/2025

DISCLAIMER

This map is for general information only and may contain inaccuracies.

June 2024 | 2024AppendixC_ACReplacementProgram.mxd | helpdesk@crd.bc.ca





0 0.5 1 2 3 4 Kilometres

UTM Zone 10N NAD 1983



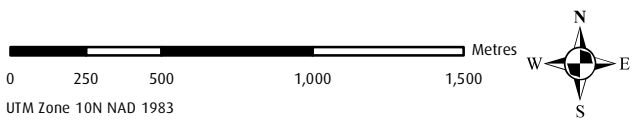
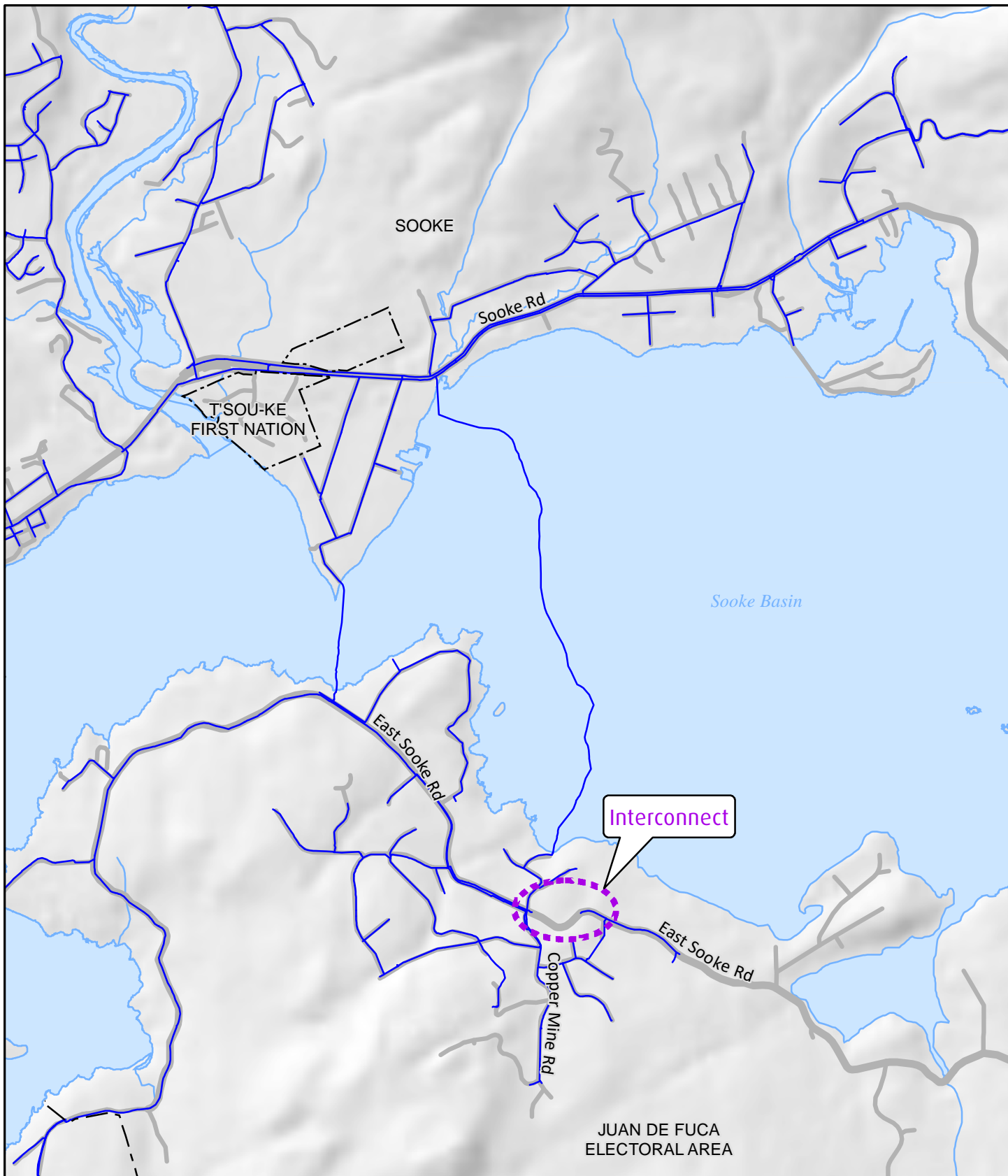
JdF Water Distribution Service Projects Update William Head and VGH Meter Replacement Project Locations

DISCLAIMER

This map is for general information only and may contain inaccuracies.

June 2024 | 2024AppendixD_WilliamHeadandVGHMeterReplacement.mxd | helpdesk@crd.bc.ca

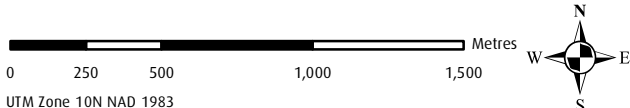
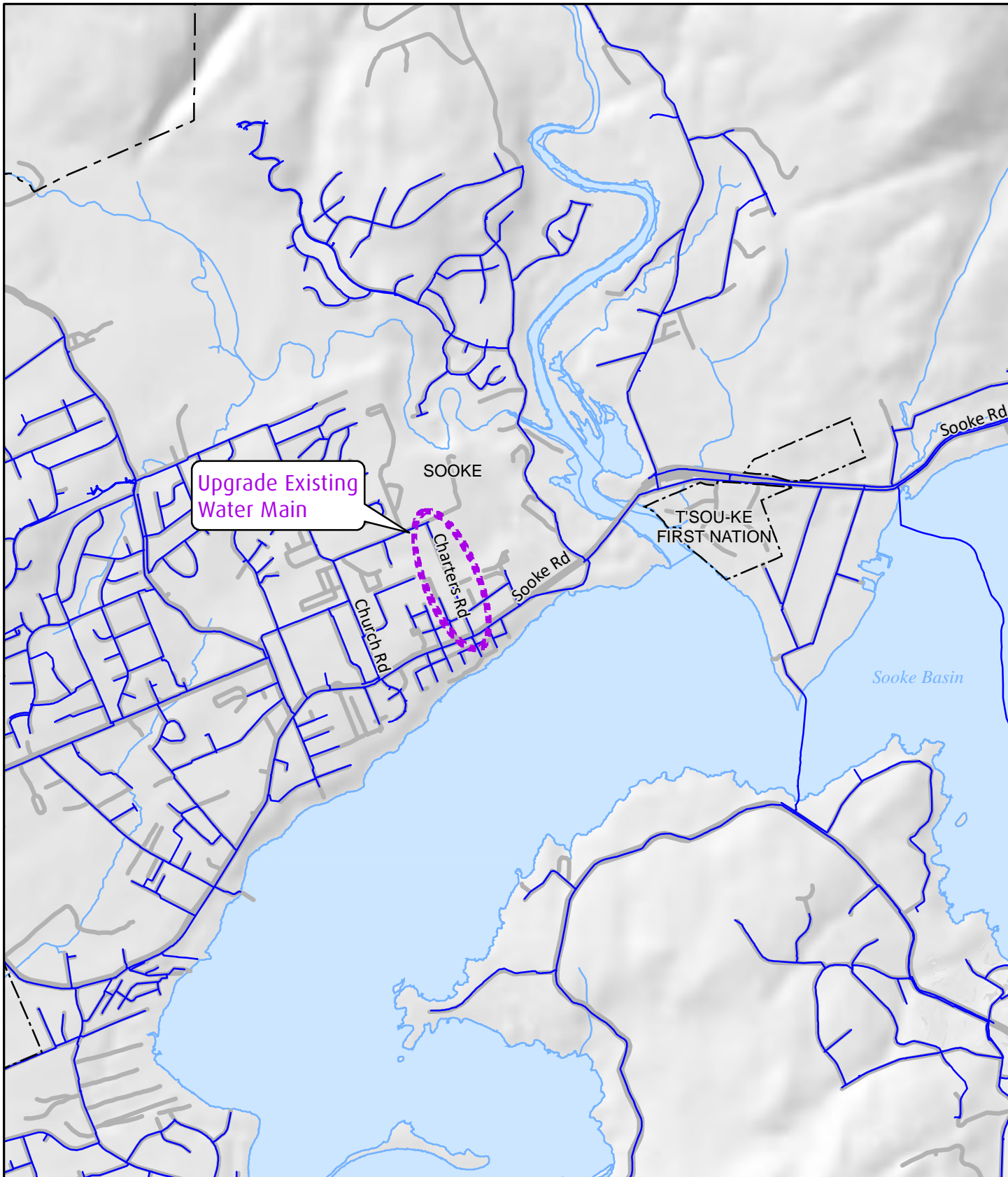




JdF Water Distribution Service Projects Update East Sooke Interconnect Water Main Project Location



DISCLAIMER
This map is for general information only and may contain inaccuracies.
June 2024 | 2024AppendixE_EastSookeInterconnect.mxd | helpdesk@crd.bc.ca



JdF Water Distribution Service Projects Update
Charters Road Water Main Replacement
Project Location



DISCLAIMER

This map is for general information only and may contain inaccuracies.

June 2024 | 2024AppendixF_ChartersRoad.mxd | helpdesk@crd.bc.ca



Capital Regional District

HOTSHEET AND ACTION LIST

Regional Water Supply Commission

Wednesday, June 19, 2024

11:30 AM

Board Room, 6th Floor
625 Fisgard Street
Victoria, BC

The following is a quick snapshot of the FINAL Regional Water Supply Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

The minutes of the February 15, 2021 meeting were adopted as circulated

7. WATER ADVISORY COMMITTEE

7.1. Minutes of the May 28, 2024 Water Advisory Committee Meeting

Recommendation from the Water Advisory Committee:

That the Agricultural Water Rate Study be paused until further review by the Water Advisory Committee.

CARRIED

8. COMMISSION BUSINESS

8.1. Recommendation to Award Contract No. 2024-948, Goldstream Water Treatment Plant and Controls Upgrade Project

Recommendation:

1. That Contract 2024-948 – Goldstream Water Treatment Plant Ultraviolet and Controls Upgrades, be awarded to Industra Construction Corp. for an amount of \$6,985,946.58 (excluding GST); and
2. That staff be authorized to award up to an additional \$600,000 if required during the execution of the project.

CARRIED

8.2. Regional Water Supply Service 2024 Capital Plan Amendment

Recommendation: The Regional Water Supply Commission recommends that the Capital Regional District Board:

Approve amendment of the 2024 Regional Water Supply Service Capital Plan to move \$180,000 from line item 09-01 Leech River Watershed Restoration; to line item 17-27 Watershed Bridge and Culvert Replacement, to facilitate high priority replacement of a deteriorated major drainage structure.

CARRIED

The following items were received for information:

8.3. Summary of Water Recommendations from Other Water Commissions

8.4. Water Watch Report

11. MOTION TO CLOSE THE MEETING

3.1. Motion to Close the Meeting

That the meeting be closed in accordance with the Community Charter, Part 4, Division 3:

1. Land Acquisition/Disposition under Section 90 (1)(e) [1 Item]
2. Intergovernmental Relations under Section 90 (2)(b) [1 Item]
3. Prohibited from disclosure under FOIPPA under Section 90 (1)(j) [1 Item]

CARRIED

12. RISE AND REPORT

The Commission rose from its closed session without report.



Capital Regional District

HOTSHEET AND ACTION LIST

Saanich Peninsula Water Commission

Thursday, May 16, 2024

10:15 AM

Meeting Room 2
Sidney Community Safety Building
2245 Oakville Ave.
Victoria, BC

The following is a quick snapshot of the FINAL Saanich Peninsula Water Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

The minutes of the March 21, 2024 meeting were adopted as circulated.

6. GENERAL MANAGER'S REPORT

6.1. Speaker Series: Recommendation to Regional Water Supply Commission

Staff to add to the 2025 Strategic Plan:

The Saanich Peninsula Water Commission recommends that the Regional Water Supply Commission consider the inclusion of an ongoing virtual speaker series as part of the 2025 Strategic Plan. The speaker's series would be coordinated by the CRD and include presentations by third party experts on emerging topics concerning water.

7. COMMISSION BUSINESS

The following reports were received for information.

7.1 Summary of Recommendations from Other Water Commissions

7.2 Water Watch Report

11. RISE AND REPORT

The Commission rose from its closed session without report.



Capital Regional District

HOTSHEET AND ACTION LIST

Regional Water Supply Commission

Wednesday, May 15, 2024

11:30 AM

Board Room, 6th Floor
625 Fisgard Street
Victoria, BC

The following is a quick snapshot of the FINAL Regional Water Supply Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

The minutes of the April 17, 2024 meeting were adopted as circulated.

CARRIED

6. GENERAL MANAGER'S REPORT

Action:

Provide the Commission with a schedule and links to the Development Cost Centre public outreach as it rolls out.

Alicia

7. COMMISSION BUSINESS

7.1. Greater Victoria Drinking Water Quality Annual Report

Recommendation: The Regional Water Supply Commission recommends to the Capital Regional District Board:
That the Greater Victoria Drinking Water Quality 2023 Annual Report be approved.

CARRIED

The following items were received for information:

- 7.2. Summary of Water Recommendations from Other Water Commissions
- 7.3. Water Watch Report

11. RISE AND REPORT

The Commission rose from its closed session without report.

CAPITAL REGIONAL DISTRICT - INTEGRATED WATER SERVICES

Water Watch

Issued June 24, 2024

Water Supply System Summary:

1. Useable Volume in Storage:

Reservoir	June 30 5 Year Ave		June 30/23		June 23/24		% Existing Full Storage
	ML	MIG	ML	MIG	ML	MIG	
Sooke	82,829	18,222	81,534	17,937	83,670	18,407	90.2%
Goldstream	7,968	1,753	9,013	1,983	9,553	2,102	96.3%
Total	90,797	19,975	90,547	19,920	93,222	20,509	90.8%

2. Average Daily Demand:

For the month of June	169.7 MLD	37.34 MIGD
For week ending June 23, 2024	188.5 MLD	41.47 MIGD
Max. day June 2024, to date:	204.9 MLD	45.08 MIGD

3. Average 5 Year Daily Demand for June

Average (2019 - 2023)	176.8 MLD ¹	38.89 MIGD ²
-----------------------	------------------------	-------------------------

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

4. Rainfall June:

Average (1914 - 2023):	35.3 mm
Actual Rainfall to Date	50.1 mm (142% of monthly average)

5. Rainfall: Sep 1- Jun 23

Average (1914 - 2023):	1,577.5 mm
2023/2024	1,334.4 mm (85% of average)

6. Water Conservation Action Required:

CRD's Stage 1 Water Conservation Bylaw is now in effect through September 30, 2024
Visit our website at www.crd.bc.ca/water for more information.

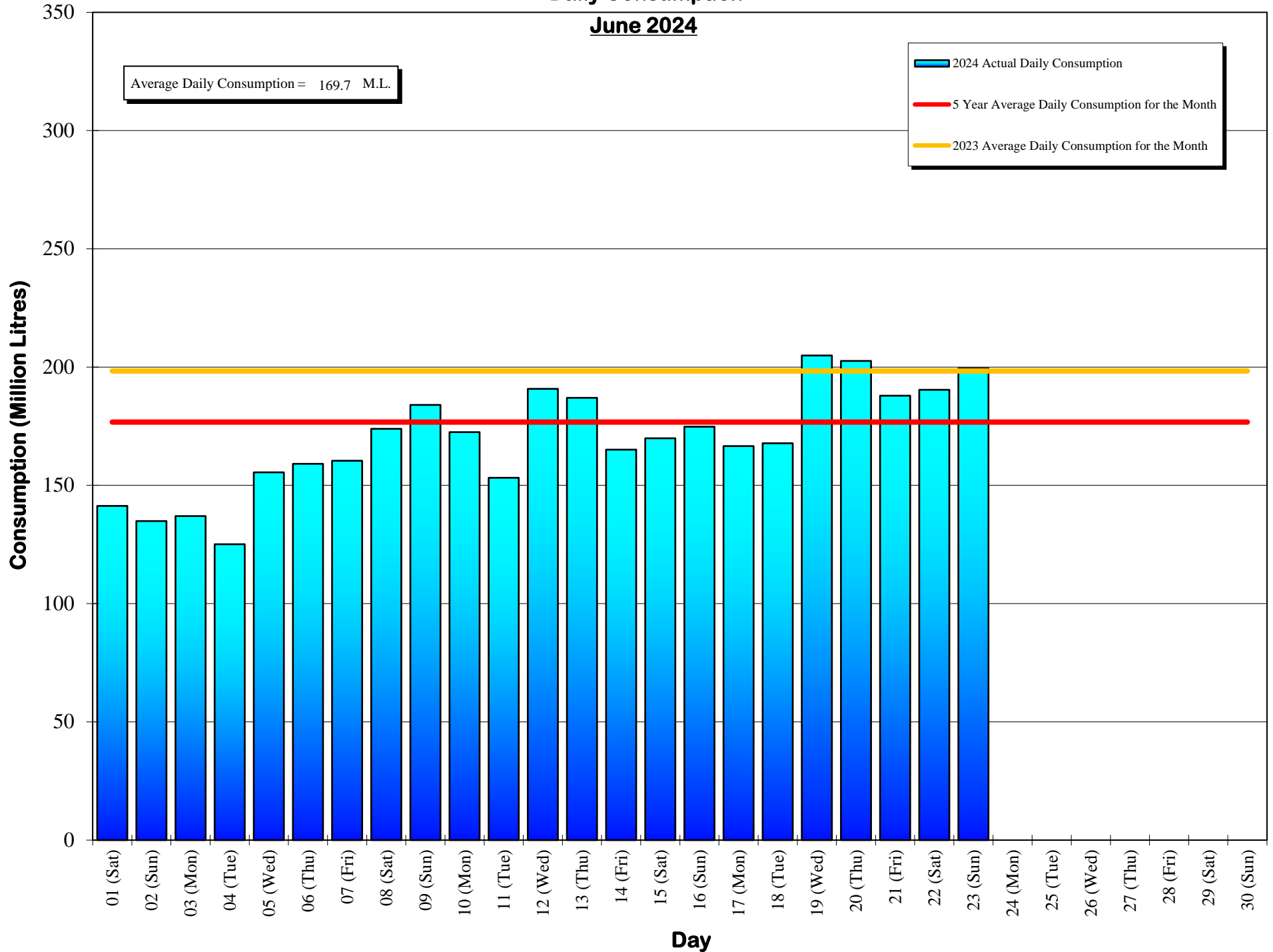
If you require further information, please contact:

Alicia Fraser, P. Eng.
General Manager, CRD - Integrated Water Services
or
Glenn Harris, Ph D., RPBio
Senior Manager - Environmental Protection

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

Daily Consumption

June 2024



Daily Consumptions: - June 2024

Date	Total Consumption		Air Temperature @ Japan Gulch		Weather Conditions	Precipitation @ Sooke Res.: 12:00am to 12:00am			
	(ML) ¹	(MIG) ²	High (°C)	Low (°C)		Rainfall (mm)	Snowfall ³ (mm)	Total Precip.	
01 (Sat)	141.3		31.1	18	11	Cloudy / Showers	1.3	0.0	1.3
02 (Sun)	134.9		29.7	13	11	Rain	19.8	0.0	19.8
03 (Mon)	137.0		30.1	13	9	Cloudy / P. Sunny / Rain	18.5	0.0	18.5
04 (Tue)	125.1	<=Min	27.5	15	7	Cloudy / P. Sunny / Showers	5.6	0.0	5.6
05 (Wed)	155.5		34.2	18	6	Sunny / P. Cloudy	0.0	0.0	0.0
06 (Thu)	159.1		35.0	21	7	Sunny / P. Cloudy	0.0	0.0	0.0
07 (Fri)	160.4		35.3	24	8	Sunny	0.0	0.0	0.0
08 (Sat)	173.9		38.3	27	11	Sunny / P. Cloudy	0.0	0.0	0.0
09 (Sun)	184.0		40.5	23	11	Sunny / P. Cloudy	0.0	0.0	0.0
10 (Mon)	172.5		37.9	21	10	Sunny / P. Cloudy	0.0	0.0	0.0
11 (Tue)	153.2		33.7	17	9	Sunny / P. Cloudy / Showers	0.3	0.0	0.3
12 (Wed)	190.8		42.0	19	8	Sunny / P. Cloudy	0.0	0.0	0.0
13 (Thu)	187.0		41.1	22	8	Sunny / P. Cloudy	0.0	0.0	0.0
14 (Fri)	165.1		36.3	16	10	Cloudy / P. Sunny / Showers	2.3	0.0	2.3
15 (Sat)	169.9		37.4	15	8	Cloudy / P. Sunny / Showers	0.3	0.0	0.3
16 (Sun)	174.8		38.4	16	8	Cloudy / Showers	2.0	0.0	2.0
17 (Mon)	166.6		36.6	17	8	Sunny / P. Cloudy	0.0	0.0	0.0
18 (Tue)	167.8		36.9	20	8	Sunny / P. Cloudy	0.0	0.0	0.0
19 (Wed)	204.9	<=Max	45.1	24	9	Sunny	0.0	0.0	0.0
20 (Thu)	202.6		44.6	28	10	Sunny	0.0	0.0	0.0
21 (Fri)	187.9		41.3	28	12	Sunny	0.0	0.0	0.0
22 (Sat)	190.4		41.9	22	14	Cloudy	0.0	0.0	0.0
23 (Sun)	199.5		43.9	18	11	Cloudy / P. Sunny	0.0	0.0	0.0
24 (Mon)									
25 (Tue)									
26 (Wed)									
27 (Thu)									
28 (Fri)									
29 (Sat)									
30 (Sun)									
TOTAL	3904.2 ML	858.87 MIG					50.1	0	50.1
MAX	204.9	45.08	28	14			19.8	0	19.8
AVG	169.7	37.34	19.8	9.3			2.2	0	2.2
MIN	125.1	27.53	13	6			0.0	0	0.0

1. ML = Million Litres

2. MIG = Million Imperial Gallons

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

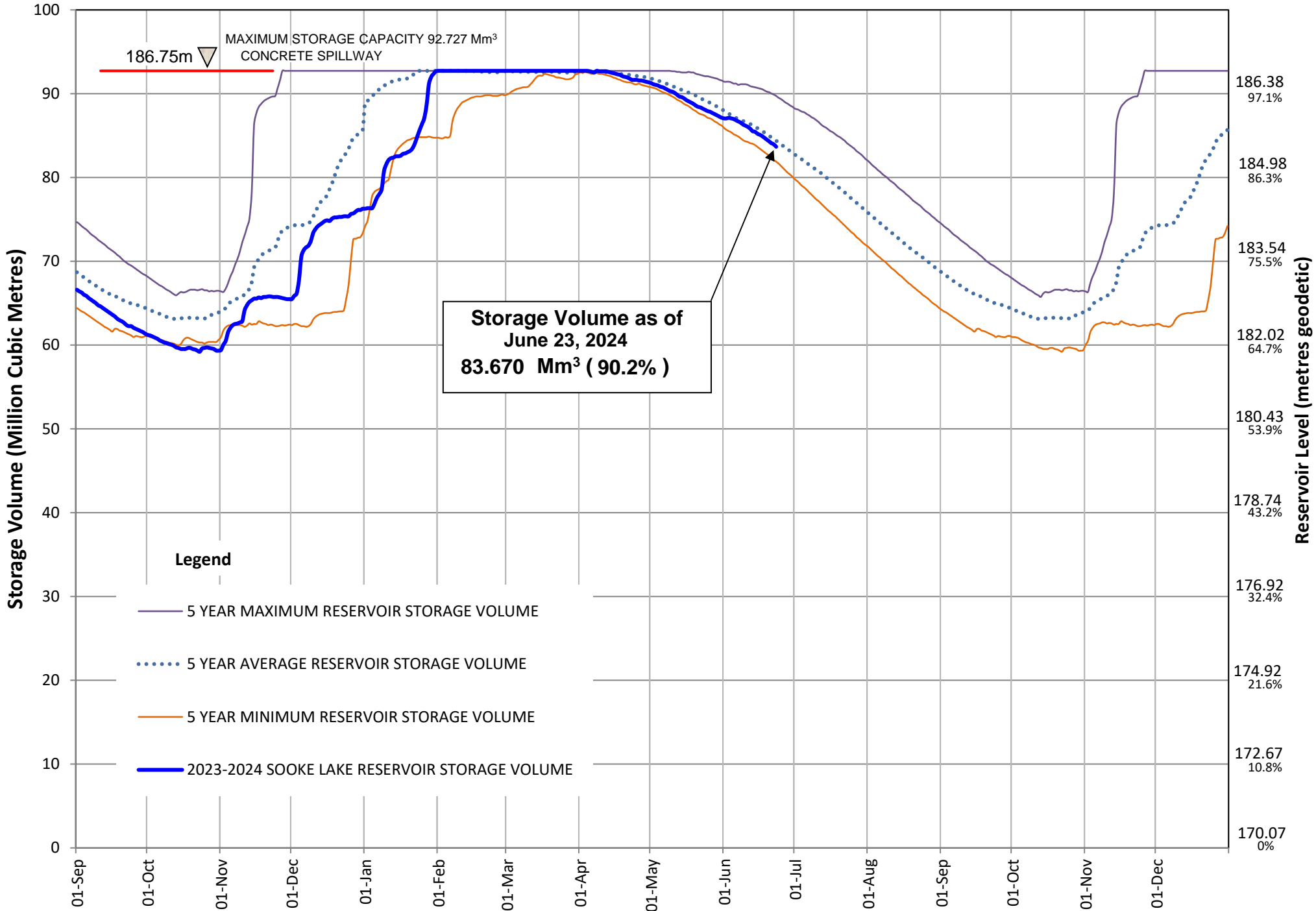
Average Rainfall for June (1914-2023)	35.3 mm
Actual Rainfall: June	50.1 mm
% of Average	142%
Average Rainfall (1914-2023): Sept 01 - Jun 23	1,577.5 mm
Actual Rainfall (2023/24): Sept 01 - Jun 23	1,334.4 mm
% of Average	85%

Number days with precip. 0.2 or more
8

Water spilled at Sooke Reservoir to date (since Sept. 1) = 2.46 Billion Imperial Gallons
 = 11.20 Billion Litres

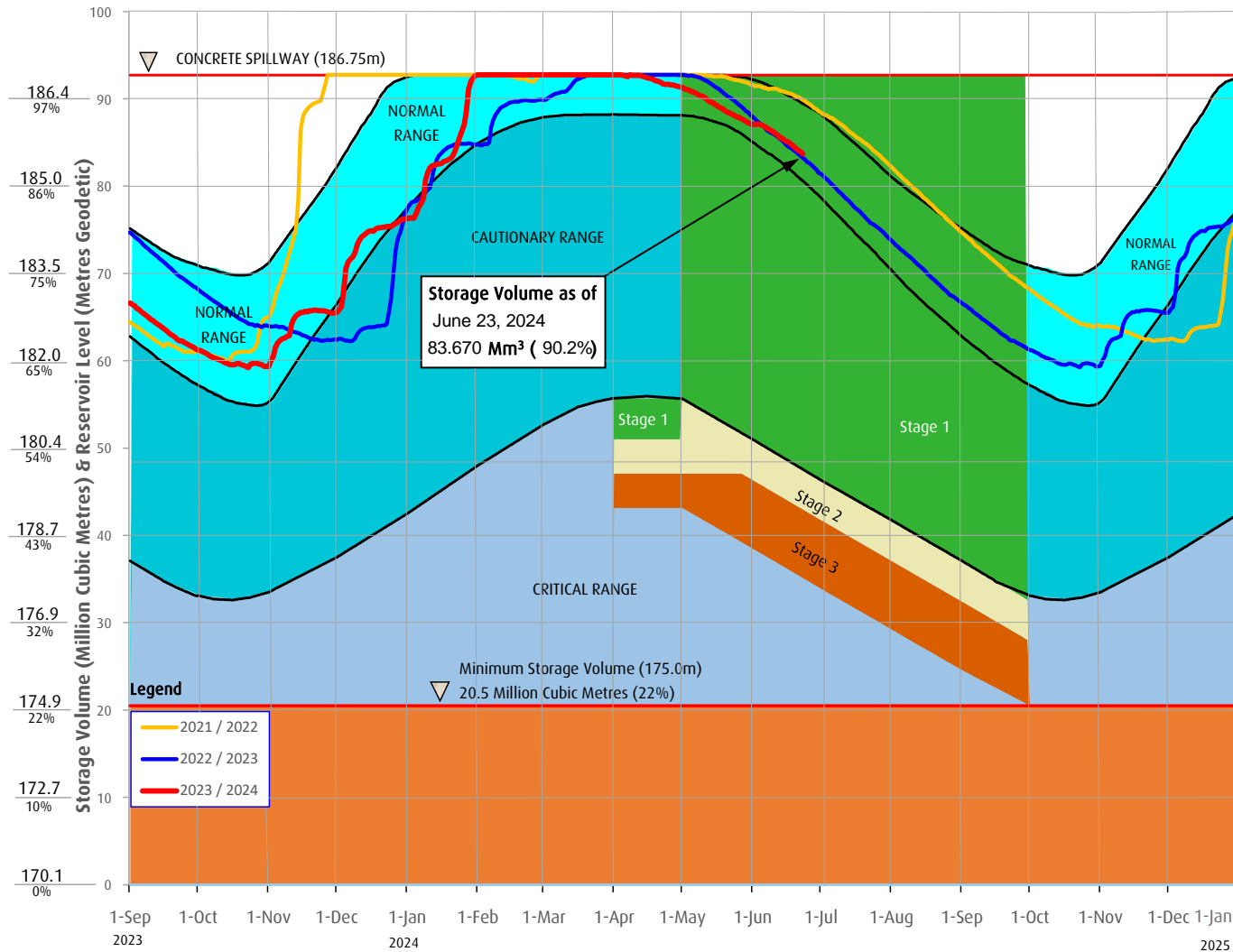
SOOKE LAKE RESERVOIR STORAGE SUMMARY

2023 / 2024



Sooke Lake Reservoir Storage Level

Water Supply Management Plan



FAQs

How are water restriction stages determined?

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

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

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

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

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

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

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

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

Useable Reservoir Volumes in Storage for June 23, 2024

