Capital Regional District

625 Fisgard St.,
Victoria, BC V8W 1R7

Notice of Meeting and Meeting Agenda
Wilderness Mountain Water Service Commission

Thursday, May 28, 2026 | **9:30 AM** | **Goldstream Conference Room, 479 Island Hwy, Victoria BC V9B 1H7**

Members of the public can view the live meeting via MS Teams link: **Click here**
Alternatively, to hear the meeting via telephone:
Call: 1-877-567-6843 and enter the Phone Conference ID: 942 222 040#

P. Twamley (Chair), A. Wickheim (EA Director)

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

1. Territorial Acknowledgement

2. Approval of Agenda

3. Adoption of Minutes

3.1. 26-0617 Minutes of the Wilderness Mountain Water Service Commission meeting of March 12, 2026

Recommendation: That the minutes of the Wilderness Mountain Water Service Commission meeting of March 12, 2026 be adopted as circulated.

Attachments: Minutes - March 12, 2026

4. Chair's Remarks

5. Presentations/Delegations

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

Delegations will have the option to participate electronically. Please complete the online application at www.crd.ca/address no later than 4:30 pm two days before the meeting and staff will respond with details.

Alternatively, you may email your comments on an agenda item to the Commission at legserv@crd.bc.ca.

6. Commission Business

6.1. 26-0618 Senior Manager's Verbal Update - May

Recommendation: There is no recommendation. This verbal update is for information only.

6.2. 26-0612 2025 Annual Report

Recommendation: There is no recommendation. This report is for information only.

Attachments: Staff Report: Annual Report - Cover Report
Appendix A: 2025 Annual Report
Appendix B: 2025 Statement of Operations and Reserve Balances

6.3. 26-0611 Mid-Year Capital Projects and Operational Update

Recommendation: There is no recommendation. This report is for information only.

Attachments: Staff Report: Mid-Year Capital Projects and Operations Update

7. Notice(s) of Motion

8. New Business

9. Adjournment

The next meeting is November 10, 2026.

Making a difference...together

Capital Regional District

625 Fisgard St.,
Victoria, BC V8W 1R7

Meeting Minutes

Wilderness Mountain Water Service Commission

Thursday, March 12, 2026 | **9:30 AM** | **Goldstream Conference Room, 479 Island Hwy, Victoria BC V9B 1H7**

PRESENT:
P. Twamley, A. Wickheim (EA Director), J. Wilson

STAFF: I. Lawrence, Senior Manager, Juan de Fuca Administration; S. Irg, Senior Manager, Water Infrastructure Operations (EP); C. Moch, Manager, Water Quality Operation; L. Xu, Manager, Local Services and Corporate Grants; M. Miklea, Deputy Corporate Officer/Manager, Legislative Services (EP); M. MacDonald, Legislative Services Coordinator (Recorder)

EP - Electronic Participation

The meeting was called to order at 9:31 am.

1. Territorial Acknowledgement

I. Lawrence provided a Territorial Acknowledgement.

The Committee agreed by consensus to reorder, and consider the approval of agenda after election of the Chair and Vice Chair.

2. Election of Chair

I. Lawrence called for nominations for the position of Chair of the Wilderness Mountain Water Service Commission for 2026.

J. Wilson nominated P. Twamley. P. Twamley accepted the nomination.

I. Lawrence called for nominations a second time.

I. Lawrence called for nominations a third and final time.

Hearing no further nominations, I. Lawrence declared P. Twamley the Chair of the Wilderness Mountain Water Service Commission for 2026 by acclamation.

3. Election of Vice Chair

MOVED by P. Twamley, SECONDED by J. Wilson,
That the Election of Vice Chair be postponed until the next meeting of the Wilderness Mountain Water Service Commission.
CARRIED

4. Approval of Agenda

MOVED by J. Wilson, SECONDED by A. Wickheim,
That the agenda for the Wilderness Mountain Water Service Commission meeting of March 12, 2026 be approved, as amended, with the addition of Item 11.1. Commission Roundtable Discussion.
CARRIED

5. Adoption of Minutes

5.1. 26-0254 Minutes of the Wilderness Mountain Water Service Commission meeting of October 28, 2025

MOVED by J. Wilson, SECONDED by A.Wickheim,
That the minutes of the Wilderness Mountain Water Service Commission meeting of October 28, 2025 be adopted as circulated.
CARRIED

6. Chair's Remarks

Chair Twamley thanked members for electing her as Chair, and noted she is looking forward to working together.

7. Presentations/Delegations

There were no presentations or delegations

8. Motion to Close the Meeting

8.1. 26-0253 Motion to Close the Meeting

MOVED by J. Wilson, SECONDED by P. Twamley,
1. That the meeting be closed for Land Acquisition/Disposition in accordance with Section 90(1)(e) of the Community Charter. [1 item]
CARRIED

MOVED by P. Twamley, SECONDED by J. Wilson,
2. That such disclosures could reasonably be expected to harm the interests of the Regional District. [1 Item]
CARRIED

The Wilderness Mountain Water Service Commission moved to the Closed Session at 9:38 am.

The meeting reconvened at 9:42 am.

9. Commission Business

9.1. 26-0248 Senior Manager's Verbal Update - March

I. Lawrence spoke to Item 9.1. and noted the following:
- options analysis to bring service into compliance
- 2026 budget approved, and work is moving forward now
- this service has an updated operating permit

Discussion ensued regarding:
- Island Health is willing to work with staff if unforeseen circumstances arise
- staff anticipate the need for an annual update, options study reveals and next steps to be provided to Island Health
- ensuring progress/succession
- committee will receive updates as needed at meetings
- no operational challenges with the new dock
- safety requirements while testing water on the dock
- no evidence or indications of contamination

This verbal update was received for information.

9.2. 26-0256 Committee Orientation

I . Lawrence presented Item 9.2. for information.

Discussion ensued regarding:
- the number of connections to the system, some vacant lots
- budget review and approval process
- upcoming repairs needed for the system to ensure compliance

10. Notice(s) of Motion

There were no notice(s) of motion.

11. New Business

11.1. Commission Roundtable Discussion

Chair Twamley opened the floor for members to bring forward any additional items of interest.

Discussion ensued regarding:
- final meeting and resignation of James Wilson
- advertisement of vacant positions

12. Adjournment

MOVED by J. Wilson, SECONDED by A. Wickheim,
That the Wilderness Mountain Water Service Commission meeting of March 12, 2026 be adjourned at 11:11 am.
CARRIED

_____
Chair

_____
Recorder

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REPORT TO WILDERNESS MOUNTAIN WATER SERVICE COMMISSION
MEETING OF THURSDAY, MAY 28, 2026

SUBJECT **2025 Annual Report - Cover Report**

ISSUE SUMMARY

Per the *Drinking Water Protection Act*, a water supplier must prepare and make public, within 6 months of the end of the calendar year, an annual report. The Annual Report provides a summary of the Wilderness Mountain Water Service for 2025.

BACKGROUND

The Wilderness Mountain Water System is located near the top of Mount Matheson in East Sooke. This system provides drinking water to approximately 74 service connections. Capital Regional District (CRD) is responsible for the operation and maintenance of the system and the overall quality of the drinking water provided to customers in the Wilderness Mountain Water System.

RECOMMENDATION

There is no recommendation. This report is for information only.

Submitted by:	Iain Lawrence, MCIP, RPP, Senior Manager, JdF Administration
Concurrence:	Nelson Chan, MBA, FCPA, FCMA, Chief Financial Officer & General Manager, Finance & Technology
Concurrence:	Alicia Fraser, P. Eng., General Manager, Infrastructure and Water Services
Concurrence:	Luisa Jones, MBA, General Manager, Parks, Recreation & Environmental Services
Concurrence:	Stephen Henderson, MBA, P.G.Dip.Eng, BSc, General Manager, Electoral Area Services

ATTACHMENT(S)

Appendix A: 2025 Annual Report
Appendix B: 2025 Statement of Operations and Reserve Balances

Wilderness Mountain Water System

2025 Annual Report

CRD | Drinking Water

Introduction

This report provides a summary of the Wilderness Mountain Water Service for 2025 and includes a description of the service, summary of the water supply, demand and production, drinking water quality, operations highlights, capital project updates and financial report.

Service Description

The community of Wilderness Mountain is a rural residential development located on Mount Matheson in the Juan de Fuca Electoral Area. The area was originally serviced by a private water utility from about 1983, and in 2008 the service converted to the Capital Regional District (CRD). The Wilderness Mountain water service is made up of 82 parcels encompassing a total area of approximately 124 hectares. Of the 82 parcels, 74 were customers to the water system in 2025.

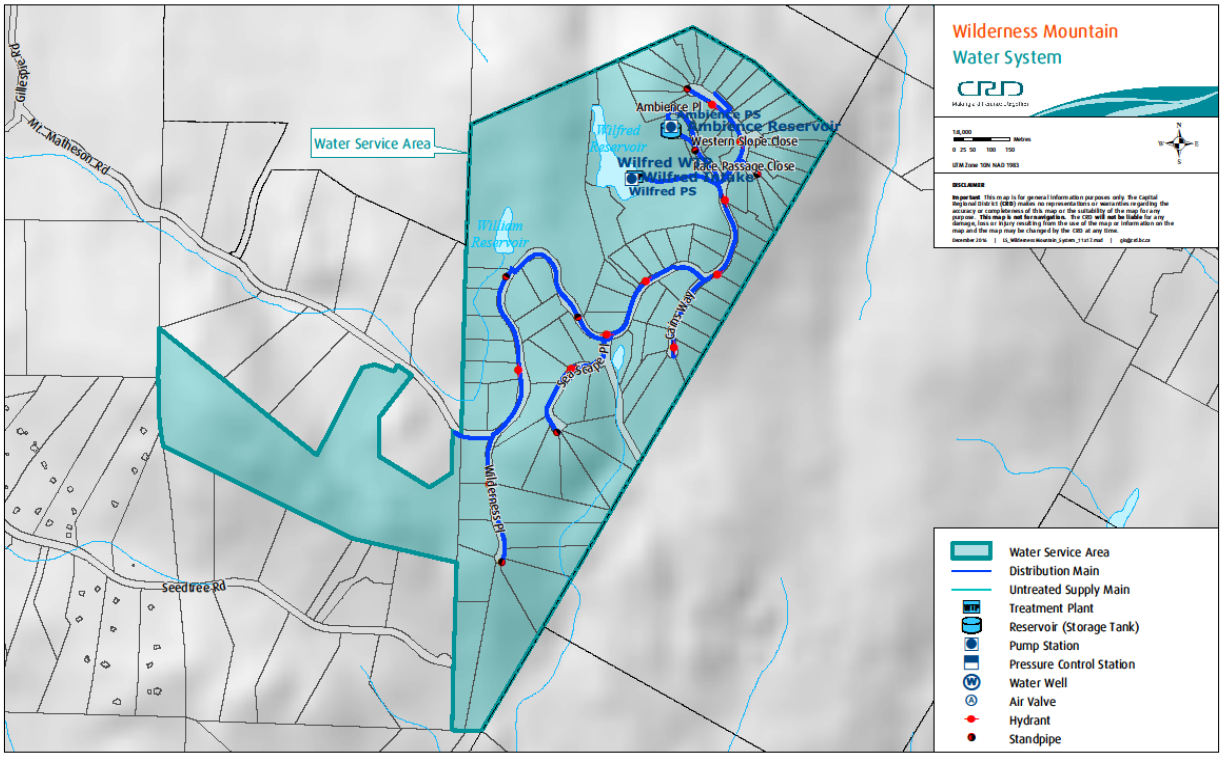

Figure 1: Map of the Wilderness Mountain Water Service Area

The Wilderness Mountain water system is primarily comprised of:

- Raw water obtained from Wilfred Reservoir, a small surface water body which lies within a protected watershed and was created by the construction of two dams.
- Water from Wilfred Reservoir is pumped to the treatment plant which consists of coarse cartridge filtration, ultraviolet disinfection and chloramine disinfection.
- The chloraminated water is then pumped to two distribution system storage tanks (combined capacity of 250 cubic meters or 66,000 US gallons) and the distribution system.
- Distribution system. 3,750-meter network of 150-millimeter (mm) (6 inch) and 100mm (4 inch) polyvinyl chloride (PVC) water mains.
- Other water system assets: 74 service connections, 10 hydrants, six standpipes, 21 gate valves and a Supervisory Control and Data Acquisition (SCADA) system.
- Although the water system also includes the William Brook Dam and related water reservoir, this reservoir is no longer utilized for water supply.

Water Supply

The raw water supply level in Wilfred Reservoir is shown in Figure 2. The lake level was at its lowest point in October. The reservoir reached full volume in January 2025.

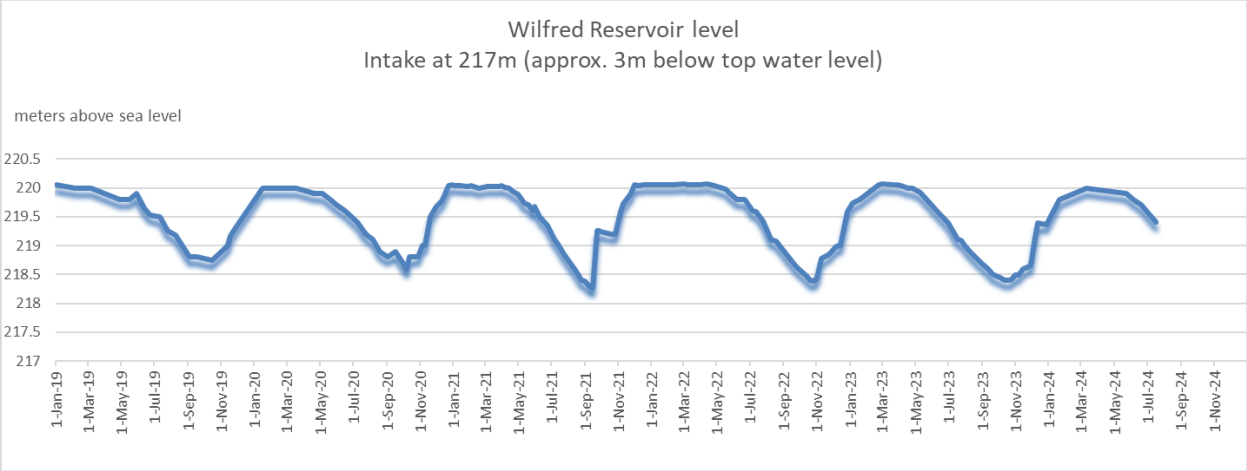

Figure 2: Wilfred Reservoir Water Level 2019-2025

Water Usage

The volume used by the community, or the water demand, is illustrated in Figure 3. The demand in 2025 was 20% higher than in 2024.

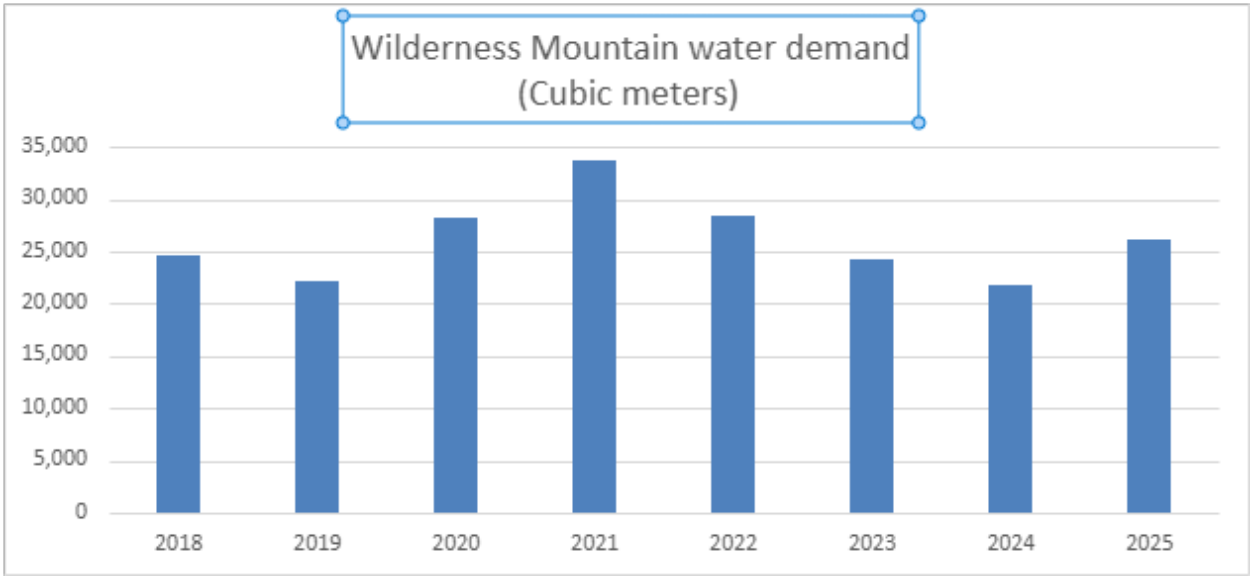

Figure 3: Wilderness Mountain Water Demand (cubic meters) 2018-2025

Drinking Water Quality

The Wilderness Mountain Water System was under three boil water advisories (BWA) in 2025, totaling 104 days, due to elevated turbidity in the treated water. High algal activity and the inability of the existing filtration system to remove very small algal species during bloom conditions were the primary causes of two of these BWAs. Upgrades to the treatment process or development of a new water source are required to meet provincial requirements. The third and shortest BWA was caused by a faulty intake pump that introduced air into the system.

Raw water from Wilfred Reservoir exhibited elevated iron and manganese concentrations throughout the year, with the highest levels occurring from October through December. These increases were primarily driven by lake turnover and rainfall-related runoff. In the absence of treatment designed to remove these metals, the aesthetic objectives for iron and manganese in the Guidelines for Canadian Drinking Water Quality (GCDWQ) were regularly exceeded in the treated water. An exceedance of the manganese maximum acceptable concentration (MAC), the health-based limit in the GCDWQ, resulted in a Water Quality Advisory from November 3 to December 16. Concentrations above the aesthetic objective can cause water discolouration, while exceedances of the MAC may pose health concerns with chronic exposure. Additional treatment is required to address this ongoing issue. Water colour remained high throughout the year.

The data below provides a summary of the water quality characteristics in 2025:

Raw Water:

- From May through July, the raw water showed extremely high total coliform bacteria concentrations. This is the second consecutive year that this pattern has been observed. Outside this period, total coliform concentrations remained relatively low.
- *E. coli* bacteria concentrations were mostly low with occasionally higher concentrations during the wet season.
- Parasitic *Cryptosporidium* oocysts and *Giardia* cysts were sampled and analyzed twice in 2025, with no detections reported for either organism.

- Raw water was tested monthly for metals. Results show that both iron and manganese concentrations were particularly high from October through December, with peak values of 492 µg/L for iron and 193 µg/L for manganese. This pattern is likely driven by a combination of lake turnover and increased runoff during rainfall events. The source water consistently contained elevated iron levels above the GCDWQ aesthetic objective throughout the year. Manganese concentrations were only slightly below the aesthetic limit during August and September.
- The median annual raw water turbidity was 1.00 Nephelometric Turbidity Unit (NTU), slightly higher than in 2024. Turbidity was typically above 1 NTU during the wet season and again in June. The maximum recorded turbidity was 2.0 NTU on November 15. Most turbidity spikes in the raw water coincided with algal and zooplankton blooms in Wilfred Reservoir. Runoff and lake turnover can also adversely affect turbidity.
- The raw water was soft (median hardness 17.2 mg/L $CaCO_3$).
- The pH was neutral (median pH 7.1).
- The median total organic carbon (TOC) concentration was moderately high at 4.45 mg/L, which is in line with historic results.

Treated Water:

- The treated water was safe to drink outside the 104 total days under BWAs (March 18 to April 11, April 25 to May 2, and October 14 to December 24, 2025). No *E. coli* bacteria were detected in the treated water at any time during the year. On June 10, one distribution system sample tested positive for total coliform bacteria. A resample was negative, confirming that no actual drinking water contamination had occurred.
- Treated water turbidity exceeded the GCDWQ limit of 1.0 NTU in March, April, and again from October through December. These elevated values resulted in two of the three BWAs issued in 2025. The third BWA, from April 25 to May 2, was caused by air entrainment from a faulty intake pump, which produced falsely high turbidity readings at the treatment plant.
- Manganese concentrations exceeded the aesthetic objective in the treated water during most of the year. August and September were the only months with lower manganese levels in the raw water, and because no metal treatment is in place, raw water metal conditions are directly reflected in the treated water. Treated water samples collected on October 22 exceeded the GCDWQ MAC, and a Water Quality Advisory for high manganese concentrations was issued from November 3 to December 16.
- Iron concentrations were in exceedance of the recently lowered aesthetic objective for most parts of the year. The water had a high colour rating for the entire year, likely because of high iron and manganese concentrations.
- The disinfection by-products Trihalomethanes (TTHM) and Haloacetic Acids (HAA) were well below the GCDWQ limits.
- The annual median total chlorine residual in the system was 1.74 mg/L with a range from 0.2 to 3.9 mg/L.

Table 1 and 2 below provide a summary of the 2025 raw and treated water test results.

Water quality data collected from this drinking water system can be reviewed on the CRD website:

https://www.crd.bc.ca/about/data/drinking-water-quality-reports

Operational Highlights

The following is a summary of the operational issues that were addressed by CRD Integrated Water Services staff:

- Intake pump replacement;
- Monthly Dam Safety Inspections

Capital Project Updates – 2025

The Capital Projects that were in progress or completed in 2025 include:

- Wooden Intake Platform Replacement – This project was completed in 2025 and the new intake platform, including floating structure are now complete and in use.
- SCADA Communication Upgrade – Budget was set up and preliminary planning efforts commenced in late 2025, with the improvements scheduled to be carried out in 2026.

Financial Report

Please refer to the attached 2025 Statement of Operations and Reserve Balances.

Revenue includes parcel taxes (Transfers from Government), fixed user fees (User Charges), water sales and interest on savings (Interest earnings), and miscellaneous revenue such as late payment charges (Other revenue).

Expenses include all costs of providing the service. General Government Services include budget preparation, financial management, utility billing and risk management services. CRD Labour and Operating Costs include CRD staff time as well as the costs of equipment, tools, and vehicles. Debt servicing costs are interest and principal payments on long term debt. Other Expenses include all other costs to administer and operate the water system, including insurance, supplies, water testing and electricity.

The difference between Revenue and Expenses is reported as Net revenue (expenses). Any transfers to or from capital or reserve funds for the service (Transfers to own funds) are deducted from this amount and it is then added to any surplus or deficit carried forward from the prior year, yielding an Accumulated Surplus (or deficit). In alignment with the *Local Government Act* Section 374 (11), any deficit must be carried forward and included in next year's financial plan.

Table 1

Table 1: 2025 Summary of Raw Water Test Results, Wilderness Mountain Water System

PARAMETER		2025 ANALYTICAL RESULTS				CANADIAN GUIDELINES	2015 - 2024 ANALYTICAL RESULTS			
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range Minimum	Range Maximum	≤ = Less than or equal to	Median	Samples Analyzed	Range Minimum	Range Maximum
mg/L = parts per million ug/L = parts per billion										
Physical Parameters (ND means Not Detected by analytical method used)										
Carbon, Dissolved Organic	mg/L as C	4.25	2	4	4.5		4	18	1.91	5.4
Carbon,Total Organic	mg/L as C	4.45	4	4	4.8	Guideline Archived	4.2	29	2.96	8.8
Colour, True	TCU	**30**	4	15	31	≤15 AO	16	47	7	31
Hardness as $CaCO_3$	mg/L	**17.2**	11	15.7	20.1	No Guideline Required	16	41	13.4	19.1
pH	pH units	**7.07**	11	6.5	7.6	7.0 - 10.5 AO	6.9	88	6.14	8.1
Total Suspended Solids	mg/L	**2**	1	2	2		<2	11	1.2	7.2
Total Solids	mg/L	<10	1	<10	<10		50	11	42	88
Turbidity, lab tests	NTU	**1**	21	0.85	2		1.1	190	0.493	3.6
Ultraviolet Transmittance	%	Not tested in 2025					76.55	32	69.9	82.1
Water Temperature	degrees C	**15**	21	4.4	19.8	≤15 AO	11.45	224	3.5	21.2
Non-Metallic Inorganic Chemicals (ND means Not Detected by analytical method used)										
Ammonia, Total	ug/L as N	**< 15**	2	< 15	<15		< 15	17	<0.015	71
Bromide	ug/L as Br	**0.049**	1	0.049	0.049		38	12	0.035	50
Chloride	mg/L as Cl	**15**	1	15	15	≤ 250 AO	11	11	10	15
Cyanide	mg/L as Cn	**0.00062**	1	0.00062	0.00092	0.2 MAC	< 0.0005	11	< 0.0005	< 0.005
Fluoride	mg/L as F	**< 0.05**	1	< 0.05	< 0.05	1.5 MAC	< 0.021	5	0.016	0.024
Nitrogen, Nitrate	ug/L as N	**< 20**	2	< 20	<20		< 20	16	< 20	115
Nitrogen, Nitrite	ug/L as N	**< 5**	2	< 5	<5		< 5	18	< 5	< 5
Nitrogen, Total	ug/L as N	**267**	2	258	276		243	16	180	468
Phosphate,Total	ug/L as P	**6.1**	2	1.2	11		6.45	18	< 1	71
Silica	mg/L as SiO_2	**3.6**	2	2.7	4.5		3.3	17	<0.5	5.5
Silicon	mg/L as Si	**1580**	11	979	2160		1490	41	380	2920
Sulphate	mg/L as SO_4	**4.3**	3	4.2	4.3	≤ 500 AO	5.4	21	3.4	19
Sulphide	mg/L as H_2S	**< 0.0018**	1	< 0.0018	<0.0018	≤ 0.05 AO	< 0.0018	5	< 0.0018	0.0037
Sulphur	mg/L as S	**< 3**	11	< 3	<3		< 3	41	< 3	< 3
Metals (ND means Not Detected by analytical method used)										
Aluminum	ug/L as Al	**16.2**	11	7.3	54.4	2900 MAC / 100 OG	24.4	41	5.9	81.5
Antimony	ug/L as Sb	**< 0.5**	11	< 0.5	< 0.5	6 MAC	< 0.5	41	< 0.5	< 0.5
Arsenic	ug/L as As	**0.28**	11	0.12	0.63	10 MAC	< 0.1	41	< 0.1	0.14
Barium	ug/L as Ba	**1.9**	11	1.4	3	1000 MAC	2.2	41	< 1	2.8
Beryllium	ug/L as Be	**< 0.1**	11	< 0.1	< 0.1		< 0.1	41	< 0.1	< 0.1
Bismuth	ug/L as Bi	**< 1**	11	< 1	< 1		< 1	41	< 1	< 1
Boron	ug/L as B	**< 50**	11	< 50	< 50	5000 MAC	< 50	41	< 50	< 50
Cadmium	ug/L as Cd	**< 0.01**	11	< 0.01	< 0.01	7 MAC	< 0.01	41	< 0.01	0.046
Calcium	mg/L as Ca	**3.71**	11	3.35	4.37	No Guideline Required	3.48	41	2.9	4.11
Chromium	ug/L as Cr	**< 1**	11	< 1	< 1	50 MAC	< 1	41	< 1	< 1
Cobalt	ug/L as Co	**< 0.2**	11	< 0.2	0.23		< 0.2	41	< 0.2	0.5
Copper	ug/L as Cu	**5.03**	11	3.17	6.35	2000 MAC / ≤ 1000 AO	3.6	41	1.86	28.5
Iron	ug/L as Fe	**233**	11	97.9	492	≤ 100 AO	170	41	89	902
Lead	ug/L as Pb	**0.35**	11	0.28	0.54	5 MAC	0.3	41	< 0.2	2.68
Lithium	ug/L as Li	**< 2**	11	< 2	< 2		< 2	32	< 2	< 5
Magnesium	mg/L as Mg	**1.97**	11	1.78	2.24	No Guideline Required	1.8	41	1.48	2.21
Manganese	ug/L as Mn	**37.9**	11	18.1	193	120 MAC / ≤ 20 AO	53.4	41	19.7	364
Mercury	ug/L as Hg	**0.00265**	4	< 0.0019	0.0059		< 0.0019	32	< 0.0019	< 0.05
Molybdenum	ug/L as Mo	**< 1**	11	< 1	< 1		< 1	41	< 1	< 1
Nickel	ug/L as Ni	**< 1**	11	< 1	< 1		< 1	41	< 1	< 1
Potassium	mg/L as K	**0.356**	11	0.317	0.401		0.342	41	0.249	0.454
Selenium	ug/L as Se	**< 0.1**	11	< 0.1	< 0.1	50 MAC	< 0.1	41	< 0.1	< 0.1
Silver	ug/L as Ag	**< 0.02**	11	< 0.02	< 0.02	No Guideline Required	< 0.02	41	< 0.02	< 0.02
Sodium	mg/L as Na	**7.53**	11	6.25	8.19	≤ 200 AO	6.87	41	6.18	9.44
Strontium	ug/L as Sr	**15.5**	11	14.7	17.7	7000 MAC	14.5	41	12.2	17.8
Thallium	ug/L as Tl	**< 0.01**	11	< 0.01	< 0.01		< 0.01	41	< 0.01	< 0.05
Tin	ug/L as Sn	**< 5**	11	< 5	< 5		< 5	41	< 5	< 5
Titanium	ug/L as Ti	**< 5**	11	< 5	< 5		< 5	41	< 5	< 5
Uranium	ug/L as U	**< 0.1**	11	< 0.1	< 0.1	20 MAC	< 0.1	41	< 0.1	< 0.1
Vanadium	ug/L as V	**< 5**	11	< 5	< 5		< 5	41	< 5	< 5
Zinc	ug/L as Zn	**11.6**	11	7.1	18.6	≤ 5000 AO	6	41	< 5	42.3
Zirconium	ug/L as Zr	**< 0.1**	11	< 0.1	< 0.1		< 0.1	41	< 0.1	< 0.5
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	Coliforms/100 mL	**640**	21	13	120000		150.5	186	< 1	190000
E. coli	E.coli/100 mL	**< 1**	21	< 1	12		< 2	195	< 1	29
Hetero. Plate Count, 28C (7 day)	CFU/1 mL	Last analyzed in 2014				No Guideline Required	Last analyzed in 2014			
Chlorophyll										
Chlorophyll A	ug/L	**2.54**	15	1.68	6		3.535	124	0.295	13.2
Parasites						No MAC Established				
Cryptosporidium, Total oocysts	oocysts/100 L	**<1**	2	<1	<1	Zero detection desirable	**<0.1**	13	< 0.1	<1
Giardia, Total cysts	cysts/100 L	**<1**	2	<1	<1	Zero detection desirable	**< 0.1**	13	< 0.1	< 1

Table 2

Table 2: 2025 Summary of Treated Water Test Results, Wilderness Mountain Water System										
PARAMETER		2025 ANALYTICAL RESULTS				CANADIAN GUIDELINES	2015-2024 ANALYTICAL RESULTS			
Parameter	Units of	Annual	Samples	Range		≤ = Less than or equal to		Samples	Range	
Name	Measure	Median	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum	Maximum
mg/L = parts per million ug/L = parts per billion										
Physical Parameters										
Colour, True	TCU	**23.5**	4	15	28	≤ 15 AO	11	49	5	24
Hardness as CaCO3	mg/L	**18.2**	36	15.5	21.4		16.1	25	13.6	18.1
pH	pH units	**7.23**	15	6.78	8.6	7.0 - 10.5 AO	7	79	6.45	9.1
Total Organic Carbon	mg/L	**4.35**	4	4.1	4.7		3.95	16	2.5	8.7
Turbidity, lab tests	NTU	**0.9**	51	0.5	1.6	1 MAC and ≤ 5 AO	0.69	304	0.17	3.3
Water Temperature	degrees C	**12.9**	152	3	20.4	≤ 15 AO	11.1	1971	1.8	21.1
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	**< 1**	122	< 1	18	0 MAC	< 1	846	<1	330
E. coli	CFU/100 mL	**< 1**	122	< 1	< 1	0 MAC	< 1	846	<1	40
Hetero. Plate Count, 28C (7 day)	CFU/1 mL	**15000**	1	15000	15000	No Guideline Required	4600	76	60	22000
Disinfectants										
Disinfectants										
Chlorine, Total Residual	mg/L as Cl_2	**1.74**	128	0.2	3.9	No Guideline Required	1.4	1188	0	5.2
Monochloramine, Field - 1 Station	mg/L	**2.655**	18	1.47	3.44		2.3	85	0.17	3.45
Disinfection By-Products (ND means Not Detected by analytical method used)										
Trihalomethanes (THMs)										
Bromodichloromethane (BDCM)	ug/L	**< 1**	4	< 1	< 1		< 1	52	<0.2	26
Bromoform (BRFM)	ug/L	**< 1**	4	< 1	< 1		< 1	52	< 0.1	< 2
Chloroform (CHLF)	ug/L	**2.6**	4	1.7	3.5		2.45	52	<1	130
Chlorodibromomethane (DBCM)	ug/L	**< 1**	4	< 1	< 1		< 1	52	<0.1	3.1
Total Trihalomethanes (TTHM)	ug/L	**2.6**	4	1.7	3.5	100 MAC	2.4	52	< 1	160
Haloacetic Acids (HAAs)										
Haloacetic Acids (*5 Total, HAA5)	ug/L	Not tested in 2025				80 MAC	11.5	44	0.75	88
Metals (ND means Not Detected by analytical method used)										
Aluminum	ug/L as Al	**14.7**	36	4	49.4	2900 MAC / 100 OG	19.3	25	4.5	62.1
Antimony	ug/L as Sb	**< 0.5**	36	< 0.5	< 0.5	6 MAC	< 0.5	25	< 0.5	< 0.5
Arsenic	ug/L as As	**0.2**	36	0.1	0.54	10 MAC	< 0.1	25	< 0.1	0.14
Barium	ug/L as Ba	**1.95**	36	< 1	3.3	1000 MAC	2	25	< 1	2.6
Beryllium	ug/L as Be	**< 0.1**	36	< 0.1	< 0.1		< 0.1	25	< 0.1	< 0.1
Bismuth	ug/L as Bi	**< 1**	36	< 1	< 1		< 1	25	< 1	< 1
Boron	ug/L as B	**< 50**	36	< 50	< 50	5000 MAC	< 50	25	< 50	< 50
Cadmium	ug/L as Cd	**< 0.01**	36	< 0.01	< 0.01	5 MAC	< 0.01	25	< 0.01	< 0.01
Calcium	mg/L as Ca	**3.955**	36	3.27	4.88	No Guideline Required	3.49	25	2.93	3.93
Chromium	ug/L as Cr	**< 1**	36	< 1	< 1	50 MAC	< 1	25	< 1	< 1
Cobalt	ug/L as Co	**< 0.2**	36	< 0.2	0.22		< 0.2	25	< 0.2	< 0.5
Copper	ug/L as Cu	**11.15**	36	5.73	29.1	2000 MAC / ≤ 1000 AO	10.2	25	3.57	92.7
Iron	ug/L as Fe	**243.5**	36	50.6	461	≤ 100 AO	176	25	49.7	573
Lead	ug/L as Pb	**0.35**	36	< 0.2	0.71	5 MAC	0.4	25	0.2	0.99
Lithium	ug/L as Li	**< 2**	36	< 2	< 2		< 2	21	< 2	< 5
Magnesium	mg/L as Mg	**2.01**	36	1.69	2.23	No Guideline Required	1.79	25	1.52	2.07
Manganese	ug/L as Mn	**47.4**	36	6.1	140	120 MAC / ≤ 20 AO	37.7	25	8	208
Mercury	ug/L as Hg	**< 0.0019**	4	< 0.0019	0.0042		< 0.0019	19	< 0.0019	0.0032
Molybdenum	ug/L as Mo	**< 1**	36	< 1	< 1		< 1	25	< 1	< 1
Nickel	ug/L as Ni	**< 1**	36	< 1	< 1		< 1	25	< 1	< 1
Potassium	mg/L as K	**0.3685**	36	0.317	0.451		0.342	25	0.241	0.397
Selenium	ug/L as Se	**< 0.1**	36	< 0.1	< 0.1	50 MAC	< 0.1	25	< 0.1	< 0.1
Silicon	mg/L as Si	**1520**	36	1000	2310		1540	25	408	2860
Silver	ug/L as Ag	**< 0.02**	36	< 0.02	< 0.02	No Guideline Required	< 0.02	25	< 0.02	< 0.02
Sodium	mg/L as Na	**10.8**	36	9.4	11.9	≤ 200 AO	9.57	25	7.22	11.4
Strontium	ug/L as Sr	**17**	36	14.2	19.9	7000 MAC	14.4	25	12.3	16.4
Sulfur	mg/L as S	**< 3**	36	< 3	< 3		< 3	25	< 3	4.6
Thallium	ug/L as Tl	**< 0.01**	36	< 0.01	< 0.01		< 0.01	25	< 0.01	< 0.05
Tin	ug/L as Sn	**< 5**	36	< 5	< 5		< 5	25	< 5	< 5
Titanium	ug/L as Ti	**< 5**	36	< 5	< 5		< 5	25	< 5	< 5
Uranium	ug/L as U	**< 0.1**	36	< 0.1	< 0.1	20 MAC	< 0.1	25	< 0.1	< 0.1
Vanadium	ug/L as V	**< 5**	36	< 5	< 5		< 5	25	< 5	< 5
Zinc	ug/L as Zn	**< 5**	36	< 5	21.9	≤ 5000 AO	< 5	25	< 5	18.6
Zirconium	ug/L as Zr	**< 0.1**	36	< 0.1	< 0.1		< 0.1	25	< 0.1	< 0.5

CAPITAL REGIONAL DISTRICT

WILDERNESS MOUNTAIN WATER
Statement of Operations (Unaudited)
For the Year Ended December 31, 2025

		2025	2024
Revenue			
Transfers from government		78,970	67,495
User Charges		93,720	80,106
Water Sales		22,653	19,358
Fees and Charges		427	322
Other revenue from own sources:			
Transfer from Operating Reserve Fund		-	4,301
Other revenue		118	134
Total Revenue		195,888	171,716
Expenses			
General government services		6,820	6,659
Contract for services		6,640	4,807
CRD Labour and Operating costs		84,885	76,636
Debt Servicing Costs		25,782	25,796
Supplies		25,504	41,589
Other expenses		22,977	22,229
Total Expenses		172,608	177,716
Net revenue (expenses)		23,280	(6,000)
Transfers to own funds:			
Capital Reserve Fund		4,540	-
Operating Reserve Fund		3,740	6,000
Annual surplus/(deficit)		15,000	(12,000)
Accumulated surplus/(deficit), beginning of year		(15,000)	(3,000)
Accumulated surplus/(deficit), end of year	$	-	(15,000)

CAPITAL REGIONAL DISTRICT

WILDERNESS MOUNTAIN WATER
Statement of Reserve Balances (Unaudited)
For the Year Ended December 31, 2025

	Capital Reserve	
	2025	**2024**
Beginning Balance	43,494	46,513
Transfer from Operating Budget	4,540	-
Transfer to Capital Projects	(20,000)	(5,000)
Interest Income	1,301	1,981
Ending Balance	29,335	43,494

	Operating Reserve	
	2025	**2024**
Beginning Balance	1,795	53
Transfer from Operating Budget	3,740	6,000
Transfer to Operating Budget	-	(4,301)
Interest Income	79	43
Ending Balance	5,614	1,795

Making a difference...together

REPORT TO WILDERNESS MOUNTAIN WATER SERVCE COMMISSION
MEETING OF THURSDAY, MAY 28, 2026

SUBJECT **Mid-Year Capital Projects and Operational Update**

ISSUE SUMMARY

To provide the Wilderness Mountain Water Service Commission with capital project status reports and operational updates.

BACKGROUND

The Wilderness Mountain Water System is located near the top of Mount Matheson in East Sooke on Vancouver Island in the Juan de Fuca Electoral Area and provides drinking water to approximately 74 customers. Capital Regional District (CRD) Infrastructure and Water Services is responsible for the overall operation of the water system, with day-to-day operation, maintenance, design and construction of water system facilities provided by the CRD Infrastructure, Planning and Engineering and Infrastructure Operations divisions. The quality of drinking water provided to customers in the Wilderness Mountain Water System is overseen by the CRD Water Quality division.

Capital Project Update

26-01 | Island Health Compliance Assessment

Project Description: This project involves completing an options analysis to identify and evaluate approaches to bring the Wilderness Mountain local water service area into compliance with Island Health requirements.

Project Rationale: In April 2026, Island Health issued an updated Operating Permit with conditions, including a compliance schedule aligned with the Ministry of Health's Surface Water Treatment Objectives (SWTO). First requirement of this schedule is the completion of an options study, including a cost analysis, by December 31, 2026.

Project Update and Milestones:

- In April 2026, a consultant was engaged through an existing standing offer to undertake the options analysis. The study will re-evaluate feasible approaches to achieving compliance, considering current regulatory requirements, system constraints, and available servicing alternatives.
- The scope of work includes a desktop review of previous studies and supporting documentation to confirm assumptions, findings, and recommendations. Building on this review, the consultant will develop 25-year lifecycle capital and operating cost estimates for viable options and provide a summary of key findings along with recommended next steps.
- The options study began in May 2026 and is anticipated to be completed within approximately 3 to 4 months.

25-03 | SCADA Communications Upgrade

Project Description: This project involves Supervisory Control and Data Acquisition (SCADA) communication improvements between Wilderness Mountain and Goldstream Water Treatment Plant.

Project Rationale: Better SCADA connectivity will allow for more reliable operational oversight from the permanently staffed Goldstream Water Treatment Plant and will provide more reliable oversight of the Wilderness Mountain system remotely.

Project Update and Milestones:

- The improvements commenced in late 2025 and were completed in March 2026, including internet connectivity.

Operational Update

Between January and early May 2026, operations focused on maintaining system reliability in response to regular imbalances in water pressure on the inlet and outlet side of the filtration system (differential pressure). Staff also continued routine inspections, maintenance, and targeted upgrades.

Frequent additional site visits were required from January through March to replace filters due to the elevated differential pressure. These were proactive, non-emergency responses required to sustain treatment performance. Multiple batches of replacement filters were procured in February and April to support ongoing system reliability.

Routine regulatory requirements were met, including monthly dam and safety inspections. The formal annual dam inspection was completed in April. Key maintenance included chlorine analyzer membrane replacement, Ultraviolet (UV) sensor replacement, UV solenoid valve repairs, and Human Machine Interface (HMI) upgrade work.

Operational challenges increased in March, resulting in the issuance of the first Boil Water Advisory (BWA) on March 20, 2026. Further system impacts led to an additional BWA on April 29, 2026. Troubleshooting identified reduced raw water intake performance which was corrected by cleaning the intake pump. This increased system flow from 2.4 L/s to 3.0 L/s by May 5, 2026.

RECOMMENDATION

There is no recommendation. This report is for information only.

Submitted by:	Iain Lawrence, MCIP, RPP, Senior Manager, JdF Administration
Concurrence:	Stephen Henderson, MBA, P.G.Dip.Eng, BSc, General Manager, Electoral Area Services