



**REPORT TO REGIONAL WATER SUPPLY COMMISSION
MEETING OF WEDNESDAY, NOVEMBER 19, 2025**

SUBJECT **Monthly Drinking Water Quality Dashboard**

ISSUE SUMMARY

To inform the Regional Water Supply Commission of the launch of a new dashboard that provides monthly updates on key drinking water quality parameters across the Greater Victoria Drinking Water System (GVDWS).

BACKGROUND

The Capital Regional District (CRD) monitors and reports on drinking water quality across the GVDWS, including source water, treatment performance, transmission and distribution system metrics. Historically, these data have been compiled into quarterly and annual reports, with limited interim access to summarized results.

In response to increasing interest in timely water quality information and to support transparency and operational responsiveness, staff have developed a new Monthly Drinking Water Quality Dashboard (Appendix A). This dashboard provides summaries of key water quality indicators and will be presented monthly to the Regional Water Supply Commission, attached to the meeting agenda. The dashboard does not replace formal reporting obligations under the *Drinking Water Protection Regulation* but serves as a supplementary communication tool.

IMPLICATIONS

Alignment with Board & Corporate Priorities

This initiative supports the CRD Board's strategic priorities related to service delivery excellence, transparency, and climate resilience. By enhancing access to drinking water quality data and enabling informed decision-making, the dashboard contributes to the CRD's commitment to evidence-based governance, proactive infrastructure management, and public trust in regional water supply services.

Social Implications

The dashboard promotes public confidence and environmental awareness by supporting informed, transparent communication about regional drinking water quality.

Service Delivery Implications

Commission members will have access to monthly summaries instead of quarterly reporting cycles, enabling more timely oversight and discussion.

CONCLUSION

Staff have developed a new dashboard to provide monthly updates on drinking water quality across the GVDWS, in response to growing interest in timely and transparent reporting. The dashboard’s design, operational value, and alignment with strategic priorities were considered, along with its implications. Staff are recommending that the Commission receive this report for information and endorse the monthly presentation of the dashboard. If endorsed, the dashboard will be presented at each Commission meeting, with updates available to the public through published agendas and minutes.

RECOMMENDATION

That the Regional Water Supply Commission receive this report for information and endorse the monthly presentation of the Drinking Water Quality Dashboard.

Submitted by:	Glenn Harris, Ph.D., R.P.Bio., Acting General Manager, Parks, Recreation & Environmental Services
Concurrence	Alicia Fraser, P. Eng., General Manager, Infrastructure and Water Services
Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer

ATTACHMENT

Appendix A: Monthly Drinking Water Quality Dashboard

Monthly Drinking Water Quality Dashboard



Water Quality Operations

Capital Regional District | October 2025

1. Treated Water | Monthly Compliance

The following table summarizes the main regulatory parameters across the various transmission and distribution systems in the Greater Victoria Drinking Water System (GVDWS). Drinking water systems in British Columbia are required to comply with the BC Drinking Water Protection Regulation and are expected to operate in accordance with recognized industry standards.

Monthly Water Quality Compliance Results by Municipality

Municipality	Required Samples	Actual Samples Collected	Percent Total Coliform Samples >1 CFU/100 ml	Total Coliform Samples >10 CFU/100 ml	E.coli Samples >1 CFU/100 mL	Turbidity Samples >1 NTU	Chlorine Residual Median mg/L	Water Temp. Median °C
Central Saanich	17	27	0	0	0	0	1.61	15.2
Saanich	94	105	1	1	1	0	1.48	15.2
North Saanich	13	21	0	0	0	0	1.51	15.4
Victoria / Esquimalt	93	101	1	0	1	0	1.62	15.9
Oak Bay	20	26	0	0	0	0	1.59	16.0
Sidney	14	18	0	0	0	0	1.55	16.2
Sooke/East Sooke	17	40	0	0	0	1	1.08	14.5
Westshore/ View Royal	82	101	0	0	0	0	1.46	15.6
Transmission Mains	n/a	78	0	0	0	0	1.79	14.6
Transmission Reservoirs	n/a	28	0	0	0	0	1.55	15.2
Total	350	545	2	1	2	1	1.55	15.3

GREEN – Compliance with industry and/or health standards

YELLOW – Exceedance of operational and/or aesthetic objectives

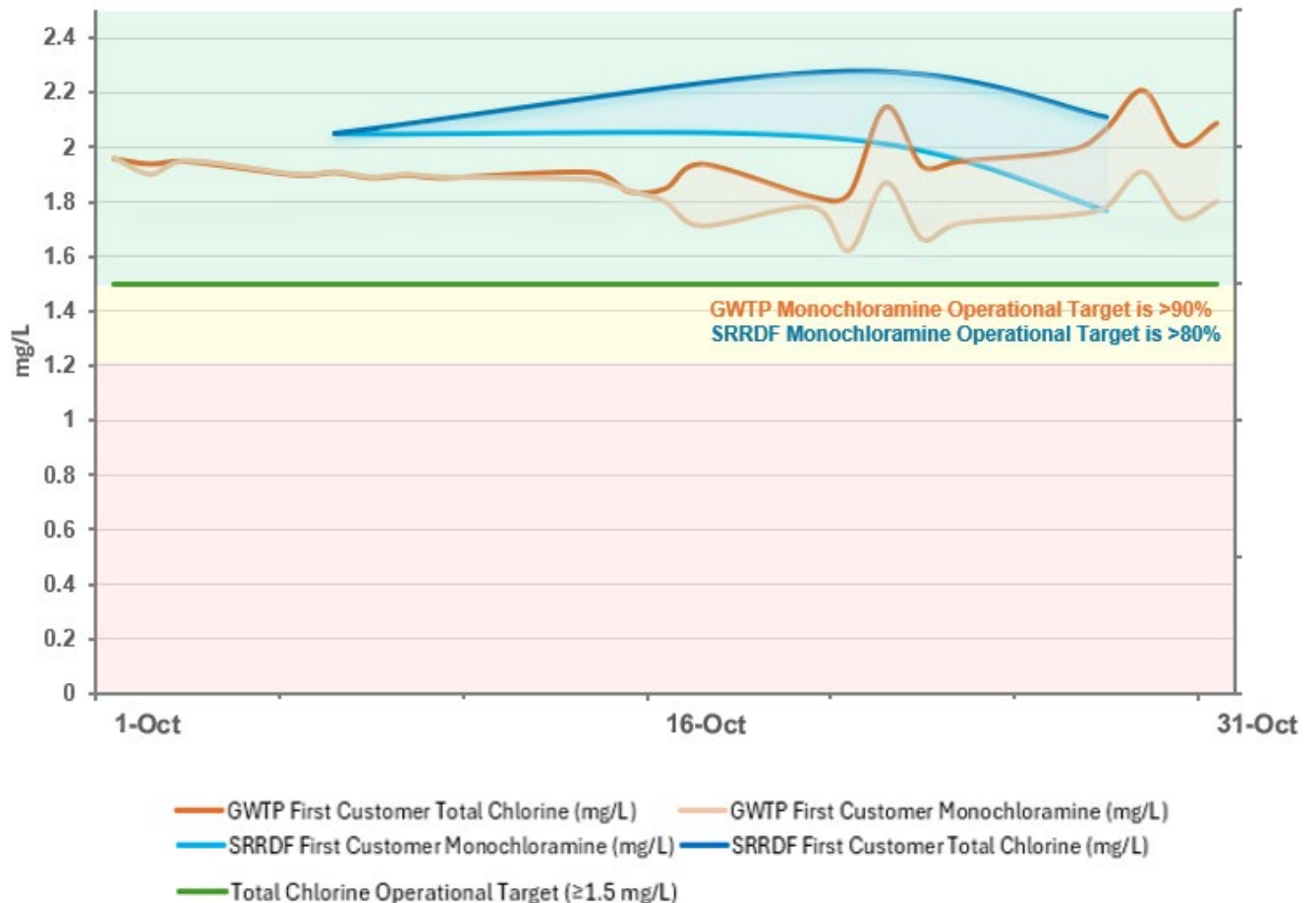
RED – Exceedance of industry and/or health standards

In October of 2025, all GVDWS systems were in compliance with provincial requirements and industry standards except for Saanich and Victoria with one sample each that contained total coliform concentrations > 10 CFU/100mL and Ecoli. Immediate emergency response measures by municipal and CRD staff, supported by comprehensive resampling, effectively ruled out any drinking water contamination. Most of the GVDWS was still in exceedance of the aesthetic objective for water temperature (< 15°C). Elevated water temperatures can promote biological regrowth within the distribution system, requiring increased operational effort to maintain drinking water quality.

October 2025

2. Treated Water | First Customer Goldstream Water Treatment Plant (GWTP) and First Customer Sooke River Road Disinfection Facility (SRRDF), Total Chlorine and Monochloramine

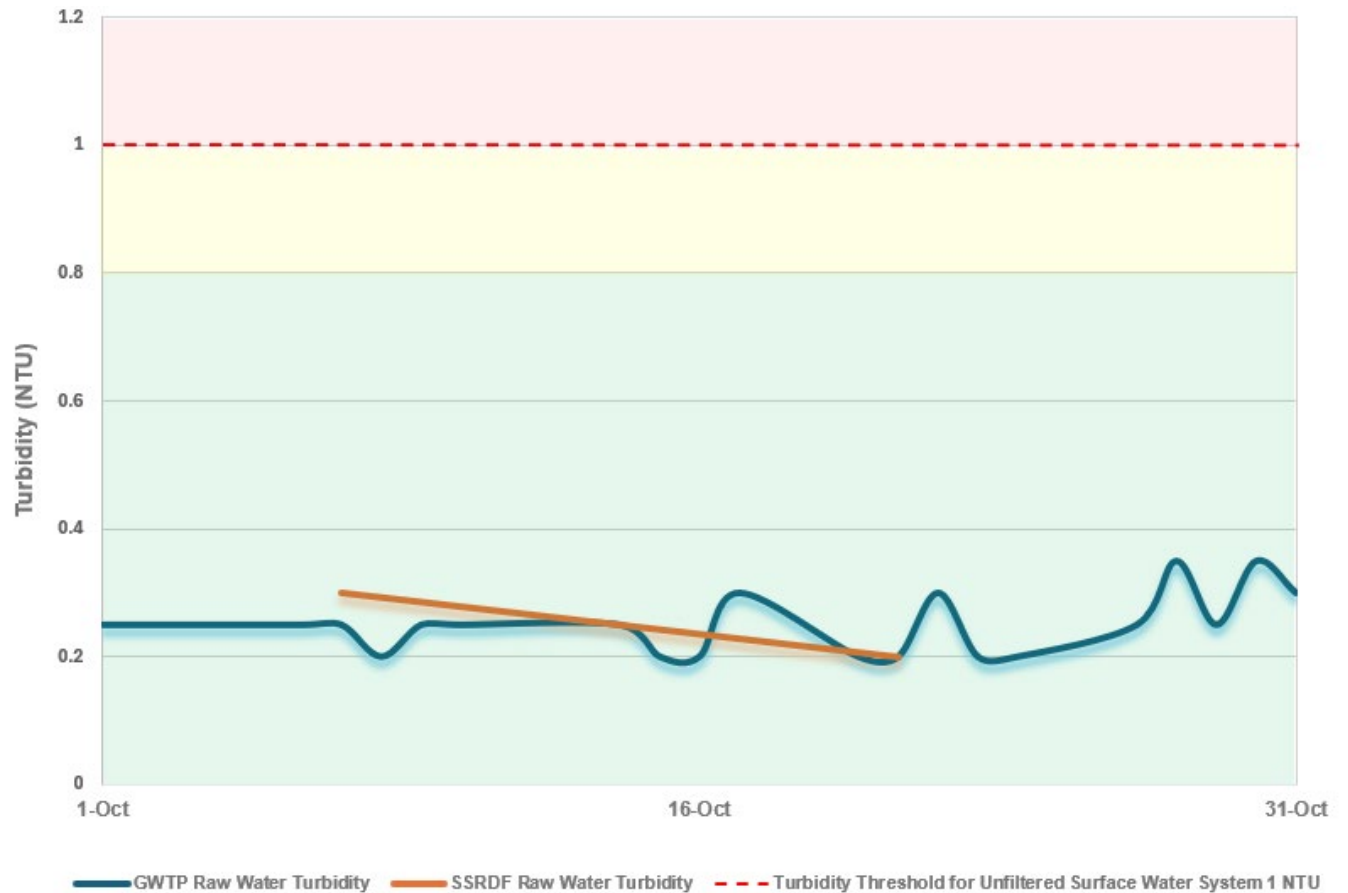
The following graph shows the daily measured total chlorine and monochloramine concentrations at the first treated water sampling stations downstream of the two CRD water treatment plants.



In October of 2025, the target concentration for total chlorine of 1.5 mg/L was consistently achieved at both plants. The SRRDF consistently met its 80% monochloramine target, whereas the GWTP fell slightly short of its 90% target on a regular basis after mid-October. Reaching these targets ensures adequate secondary disinfection throughout the distribution systems.

3. Raw Water Turbidity | Goldstream Water Treatment Plant and Sooke River Road Disinfection Facility

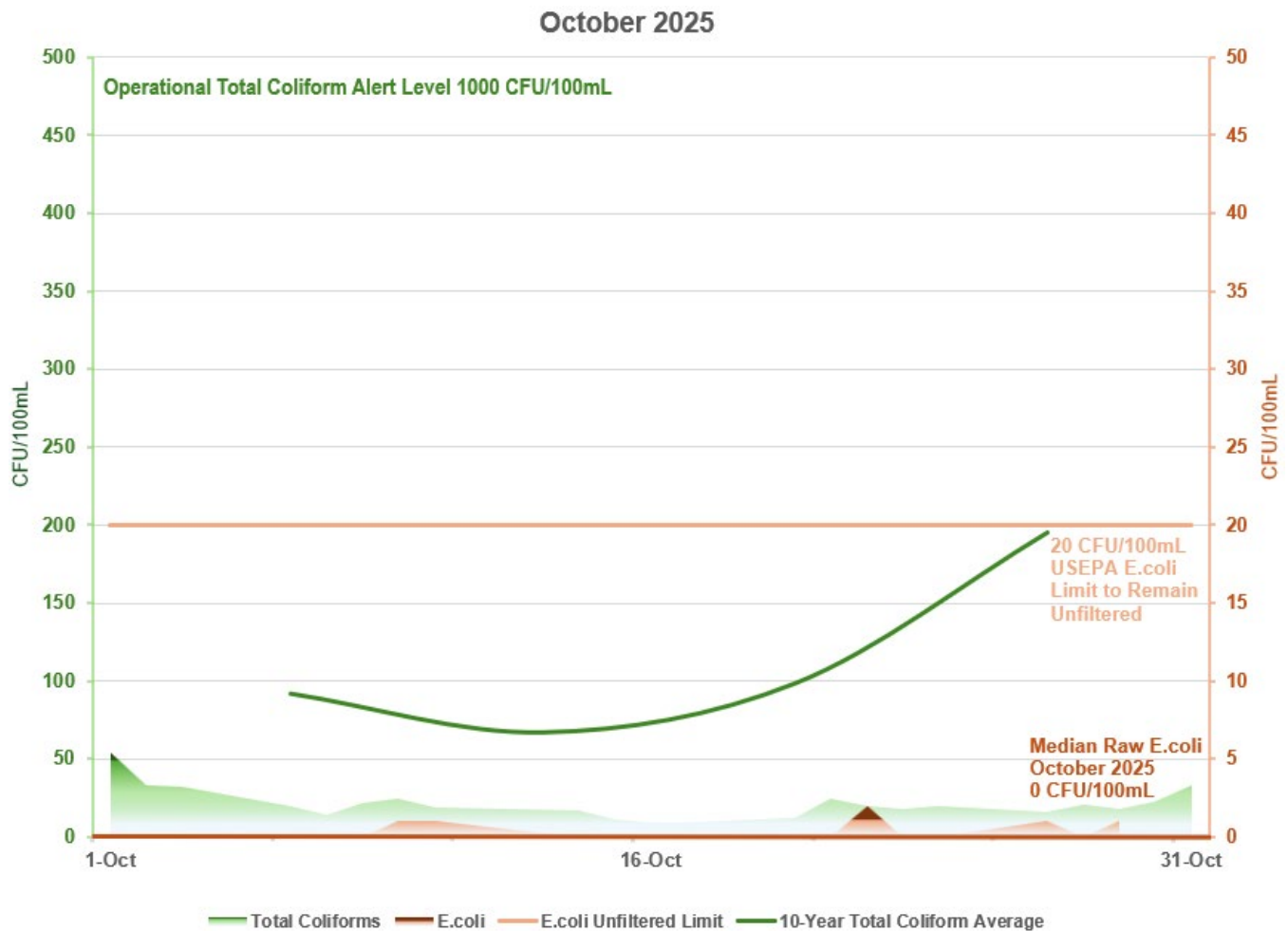
The following graph shows the raw water turbidity measured at both water treatment plants.



The GVDWS, an unfiltered surface water system, must consistently achieve turbidity levels under 1 NTU to meet regulatory standards. While the water turbidity at the GWTP exhibited slightly higher values during peak demand periods, the maximum turbidity levels remained well below the critical threshold of 1 NTU. The turbidity levels at SSRDF (less sampled) were less susceptible to fluctuations and were consistently very low. Overall, the turbidity levels in October 2025 were well within compliance.

4. Raw Water Biological Parameters | Total Coliforms and E.coli at Goldstream Water Treatment Plant

The following depicts the concentrations of key bacteria in the raw water.



Throughout October, total coliform bacteria levels were lower than the long-term average for the fall season. In October, E. coli levels were mostly below detection limits, with only sporadic low-level detections associated with runoff, reflecting the reservoir’s consistently low concentrations throughout the year.