



Date: 25/04/2023

To: Chair and Directors, Cariboo Regional District Board

And To: Alice Johnston, Manager of Corporate Services/Deputy CAO

From: Peter Hughes, Manager of Environmental Services

Date of Meeting: Cariboo Regional District Board_May05_2023

File: 5600-01

Short Summary:

Growing Communities Funding for Bench-scale manganese treatment at 3 Cariboo Regional District water systems

Voting:

Corporate Vote - Weighted

Memorandum:

In 2019 a Maximum Allowable Concentration (MAC) standard for manganese in drinking water was introduced for protection of human health. Prior to this only an aesthetic objective was applicable. This has resulted in imposition of Water Quality Advisories (WQA) by health authorities for three CRD water systems, namely Horse Lake, Gateway, and Benjamin water systems.

Proposed is bench-scale testing to evaluate the performance of various treatment technologies to remove manganese for the specific water quality at each site. This testing will identify the optimal treatment technology and operational parameters to design a treatment system for each site and provide cost estimates for installation of full-scale treatment.

The estimated costs for the bench-scale testing is approximately \$10,000 per site. Utility Services is requesting a total of \$30,000 from the Growing Communities Fund to fund the project.

Attachments:

N/A

Financial Implications:

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Policy Implications:

N/A

Alignment with Strategic Plan:

- ☐ **Communication:** Facilitate communication strategies throughout the entire Cariboo Regional District that meet the needs of residents, community stakeholders, and other levels of government.
- ☒ **Planning:** Intentionally plan services and activities of the CRD to prepare for future needs of residents and community stakeholders.
- ☐ **Economic Sustainability:** Foster an environment to ensure the economic sustainability of CRD communities and the region.
- ☐ **Governance:** Ensure that CRD governance policy and practices are intentional, transparent, and respectful.

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CAO Comments:

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Options:

1. Endorse recommendation;
2. Receipt and other action.

Recommendation: That the agenda item summary from Peter Hughes, Manager of Environmental Services, dated April 25, 2023, regarding manganese treatments at Horse Lake, Gateway, and Benjamin water systems, be received. Further, that \$30,000 from the Growing Communities Fund be allocated to the Bench-Scale Manganese Treatment project.