

District of Barriere
REPORT TO COUNCIL

Date: January 10, 2022	File: 530.20/Rpts
To: Council	From: Bob Payette, CAO
Re: Administrative Updates	

CAO UPDATE:

Community Relations:

- Staff are working with NTACS coordinator to assist them with recreational program booking of the gym with SD73.

Development Projects:

- Voyageur Country Wilderness Estates at Dixon Creek Rd Development DL 57 & DL 570, MOU was signed with both Mr. Delaney and Mr. Fran, bulk water study is at first draft and review stage and am working with Mr. Delaney on the ALR portion of the property.

Utilities:

- DW 3 construction – Spooner Industrial waiting for the delivery of the control panel, shipping delays.
- Working with TRUE to submit an application for the ICIP Green infrastructure *Environmental Quality Funding Grant*. The following resolution is recommended for Councils approval;

The proposed application will involve three main components:

- 1) Interim wastewater treatment improvements: \$500,000
- 2) Water and wastewater extension on Barriere Town Road: \$2,600,000
- 3) Permanent wastewater treatment improvements: \$TBD following discussion with MOE at pre-application meeting

Since the cost associated with Item 3 is unknown at this time, a placeholder cost should be used. We would recommend applying a placeholder cost of ~\$3,500,000 in accordance with previous reporting. This brings the total project cost to \$6,600,000. The ICIP program can fund up to 73.33% of these costs.

Recommendation: THAT staff be directed to submit an application for grant funding for the Sanitary Sewer Upgrades through the ICIP – Environmental Quality, and

THAT Council supports the project and commits to its share of the project in the amount of \$1,900,000.00 as well as cost overruns.

CORPORATE OFFICER:

- Front desk furniture and Council Chambers Audio Visual equipment has been ordered and is expected to be installed in the next few weeks.
- The District's Communicable Disease Plan has been updated in light of the upsurge of COVID cases in the area and the Omicron Variant.

**submitted for information*

Prepared by: Bob Payette, CAO



November 22, 2021

Our File: 346-381

District of Barriere
Box 219, 4936 Barriere Town Road
Barriere, BC V0E 1E0

Attention: Bob Payette, CAO

Dear Sir:

RE: *Wastewater Treatment Improvements – Interim Improvements and Budget Recommendations*

TRUE has prepared a Wastewater Treatment Feasibility Study on behalf of the District of Barriere. The Feasibility Study recommended re-classification of the discharge from Class A to Class C effluent. The Feasibility Study also recommended proceeding with Improvement Option 3: MBBR / Clarifier / Solar Aquatics Polishing.

A permit application for re-classifying the discharge has been submitted to MOE. We are presently awaiting MOE to arrange a Pre-Application meeting.

We understand that the District would like to proceed with extension of its gravity sewer collection system along Barriere Town Road in 2022. While we understand that District staff have taken enormous efforts in improving the effluent quality from the Solar Aquatics plant, we remain concerned about adding load from an increased service area to the existing treatment plant. We recognize that it does not currently meet regulatory effluent quality requirements, is operating at capacity and requires significant hands-on work by the operators.

With respect to the recommended Improvement Option, the full build-out cost associated with this option is expected to be >\$3M. Furthermore, it will take several years before this infrastructure will be funded, designed, constructed and commissioned. As such, we recommend that the District proceed with interim improvements at the septage receiving site in order to improve the treatment capacity and effectiveness. Interim improvements were articulated in TRUE's memorandum of July 28, 2021 under the "Stage 1" description. Interim improvements would include:

- Design and procurement of the interim measures
- Install headworks screen upgrade from 6mm to 2mm perforations (already complete?)
- Install MBBR media in the existing Septage Receiving aerobic digester complete with outlet screening
- Install coarse bubble aeration equipment/blower at the existing Septage Receiving aerobic digester
- Remove sludge from the Surge-Blending Tank in order to recover settling capacity in lieu of a clarifier

It should be emphasized that the above-noted investment is associated with an interim system improvement. However, the MBBR media can be re-purposed as part of the full buildout system when it is eventually constructed. That is, every aspect of the interim investment will be of value in terms of the full buildout system.

Costs associated with the interim improvements have been provided previously in TRUE's Feasibility Study as well as its correspondence of July 28.

At this time, we would recommend applying a budget of approximately \$500,000 to complete the interim improvements. We would recommend that these improvements be completed prior to expansion of the District's wastewater service area.

It is expected that a grant application under the ICIP Green Infrastructure program will be made to provide financial assistance associated with next steps that will be required beyond the interim improvements. The scope of those next steps can only be understood following consultation with the Ministry of Environment. As noted above, we are presently waiting on MOE to arrange a Pre-Application meeting.

Please do not hesitate to contact myself or Rob Wall if there are questions or should you wish to discuss.

Yours truly,

TRUE CONSULTING



Dave Underwood, P. Eng.

DU/mm