

From: Bryan Senft bryan.senft@gmail.com
Subject: Technology in Sewerage Treatment
Date: December 13, 2023 at 5:13 PM
To: Danielle Paydli dannii@cowichanwatershedboard.ca



Hello Danni Paydli, Acting Executive Director,

I bring the following information to the attention of the Cowichan Watershed Board as an alternative concept to the proposed \$25 million extension of the outfall pipe into the ocean.

Decades ago the City of Chilliwack invested in a sophisticated sewerage treatment plant that would take raw sewerage to pure water and release it into the Fraser River. The Chilliwack City website provides detailed information about their sewerage treatment plant. As well, I'm sure staff at Chilliwack City would be willing to discuss details of their treatment facility.

If technologies exist that can treat waste water to a high level of purity, does it not behoove our community to investigate the utilization of such technology before developing plans to spend a great deal of money on extending the outfall pile into the ocean, that may well be unnecessary?

This link takes you to the Chilliwack City website's description of their sewerage treatment system. You will notice that the treated waste water is returned to the Fraser River, quote, ". You would be surprised to see that the discharge water is clear and free from particulate matter".

<https://www.chilliwack.com/main/page.cfm?id=3100>

The following links below are simply examples of equipment used in waste water management that increase the efficiency of treating sewerage waste sludge and the ability to treat the water to a level closer to pure before releasing it into the environment.

The other aspect of taking out the sludge before it gets to the water treatment stage is that it can increase the capacity a current treatment plant.

The companies involved in this industry can customize and assist in planning for the need of the communities' waste water treatment system.

The following links will provide a basic understanding of what this technology entails.

<https://dolphinscentrifuge.com/wastewater-centrifuge/>

<https://diamondtservices.com/blog/how-are-large-scale-centrifuges-used-in-wastewater-treatment/>

<https://www.flottweg.com/applications/municipal-sewage-sludge/>

<https://www.alfalaval.ca/products/separation/centrifugal-separators/decanter/veflow/>

Sincerely,

Bryan Senft
Duncan, BC