



Vision Ahead is 20/20 Despite Winter Weather

Snowfall and wet winter conditions has not deterred construction on the Water Treatment Plant. After some preparation at each of the sites in November 2019, work officially began on December 12 and is well underway for 2020.

Contractor AECON Water Infrastructure currently has approximately 50 crew members working at two locations, the Raw Water Pump Station site and Water Treatment Plant site. Design and specifications for both facilities are being finalized and approved in February, while work moves forward on structural requirements.

WHAT'S HAPPENING

Raw Water Pump Station Site



Preparation – Project team mobilized with clearing and site prep now completed



Construction – Piles have been drilled roughly 15m down into bedrock. A total of 49 piles will be placed with work completed on schedule in early February. These piles will connect to create a solid outside wall for the water intake



Excavation – Once the circle of piles is complete the centre will be excavated to the depth of the new intake, which will be drilled out into the lake

Water Treatment Plant Site



Crews – The project team is mobilized with offices and work areas installed, site clearing and site preparation complete, and access roads built



Excavation – Mass excavation has been completed for the treatment plant and the clearwell (clean water storage)



Laying Foundation – Formwork and concrete for foundation of the plant is now underway with a tower crane constructed to facilitate construction



Through rain and snow the project team is moving ahead with drilling piles at the Raw Water Pump Station.



Laying the foundation at the new Water Treatment Plant site.

Protecting the Environment

With the project's proximity to Comox Lake and the Puntledge River, environmental protection during construction is a key focus. To ensure our work doesn't harm these and other sensitive environments, we are:

- 1. Implementing protection measures:** Proactive plans to protect the environment around the site have been developed and are being carried out.
- 2. Working with regulators:** Ensuring all requirements from provincial and federal agencies are met.
- 3. Monitoring and reporting:** Regular assessment of the site is underway by CVRD staff and environmental professionals to ensure standards are met.



What is being built?

The Comox Valley Water Treatment Project involves developing a new water treatment system to serve communities in the CVRD including new intake infrastructure, pumping stations and pipelines, force mains, transmission mains and a filtration facility.

AECON is building the new system, and construction of the water treatment plant is expected to be completed in spring 2021.

The cost for the new system is \$126 million, which includes \$34.3 million in federal grants and \$28.5 in provincial grants. While reserves and grant funding will cover at least 77 per cent of total project costs, the CVRD must borrow up to \$29 million to pay for the remaining share. Only those connected to the Comox Valley Water System will be responsible for paying for the new system at an average cost estimated at \$86 per household per year.



Renderings of the new Water Treatment Plant.



What's Next?

Here's what crews are working on between February and April 2020:

- ▶ Completing excavation for new water intake (next to the Courtenay Fish and Game boat launch), and preparing for tunneling into Comox Lake
- ▶ Prepare foundations for the pump station structure/ electrical building
- ▶ Foundation work for water treatment plant and supporting structures like the equalization tank, clearwell and starting wall installation
- ▶ Clearing and grubbing for the water mains between the pump station, Water Treatment Plant and CVRD's existing distribution system
- ▶ Hiring and safety training

Construction Phase Timeline



New Project Video

To show you our progress, the project team has installed a time-lapse camera at the Water Treatment Plant site. We'll release videos throughout the year so you can watch all the hard work underway, and start to see our new system become a refreshing reality.

For more information

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