

Water Treatment Project

Water Committee Update

June 16th, 2020



COMOX VALLEY WATER TREATMENT PROJECT UPDATE

Work progressing smoothly: project schedule on track

Buildings and facilities are starting to take shape on the Comox Valley Regional District's new Water Treatment Project now that clearing and excavation is complete. Walls are growing taller at the treatment plant and the raw water pump station is edging closer to connecting with its water source.

Work planned to be complete this year includes:

- Construction at Comox Lake (pump station + marine intake)
- Construction of water pipelines

Construction on the water treatment plant, located on Lake Trail Road, is planned to be complete in Spring 2021, with commissioning of the new system in Summer 2021.

The new treatment plant will use filtration, ultra-violet treatment and chlorination to remove bacteria, parasites and viruses from the water and eliminate the need for boil water notices.

What's Happening Now

Raw Water Pump Station Site



Preparation – Crews are now preparing for tunneling work to begin – the marine pipeline and microtunnel boring machine are on site.



Tunnelling equipment has arrived at the pump station site. This is the microtunnel boring machine that will create a tunnel into the lake for the intake pipe.

Giving Back to the Comox Valley Community



Project Watershed and AECON volunteers planting at Mallard Creek.

Safety / Environmental

| | Minor | Major |
|------------------------|-------|-------|
| Safety Incident | 0 | 0 |
| Environmental Incident | 0 | 0 |

- AECON continues to operate very safely – monthly reporting on near misses and bumps/scrapes
- AECON continues to improve on environmental performance – working closely with our local environmental consultant Current Environmental

Status Update

PREVIOUS MONTH

- Mussel salvage and silt curtain installed at marine pipe breakout location
- Tunnelling contractor mobilized – boring started
- RWPS Electrical Building steel complete
- RWPS access road open
- RWTM: 70% fused, 50% installed
- Hydrotesting of WTP tanks started– foundations and structural walls continue to be poured
- TWTM commenced: 15% installed

Status Update

UPCOMING MONTH

- Complete tunneling into lake
- Complete RWPS Electrical Building
- Continue to install RWTM pipe
- Continue to pour concrete at WTP: Clearwell and filter basin walls
- Start installing WTP above ground piping
- Install TWTM around Powerhouse Rd / Chlorination Facility

Schedule / Milestone Summary

| Milestone | Baseline Schedule | Forecast Schedule |
|--------------------------------|-----------------------------|------------------------------|
| Design Completion | March 2020 | Complete |
| WTP Foundations Complete | Summer 2020 | Fall 2020 |
| RWPS Foundations Complete | Summer 2020 | Summer 2020 |
| Transmission Mains Complete | Fall 2020 | Fall 2020 |
| Commissioning Start | March 2021 | April 2021 |
| Acceptance Date (in operation) | May 31 st , 2021 | June 15 th , 2021 |



BUDGET

**SPENT /
ALLOCATED
TO DATE**

**FORECAST TO
COMPLETION**

**VARIANCE TO
APPROVED BUDGET**

| | | | |
|-------------------------------|-----------------------|----------------------|-----------|
| Project costs before DB award | \$5.7 million | \$5.7 million | n/a |
| Design-Build Cost | \$46 million | \$111.6 million | 0% |
| Cost outside of DB post award | \$1 million | \$3 million | 0% |
| Contingency | \$0.85 million * | \$5.7 million | 0% |
| Total Project Cost* | \$46.8 million | \$126 million | 0% |

| Funding Source | Grants | Reserves | Borrowing | Total |
|----------------|----------------|----------------|--------------|----------------|
| To Date | \$36.5 million | \$9.4 million | \$0 | \$45.9 million |
| To Completion | \$58.5 million | \$38.5 million | \$29 million | \$126 million |









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