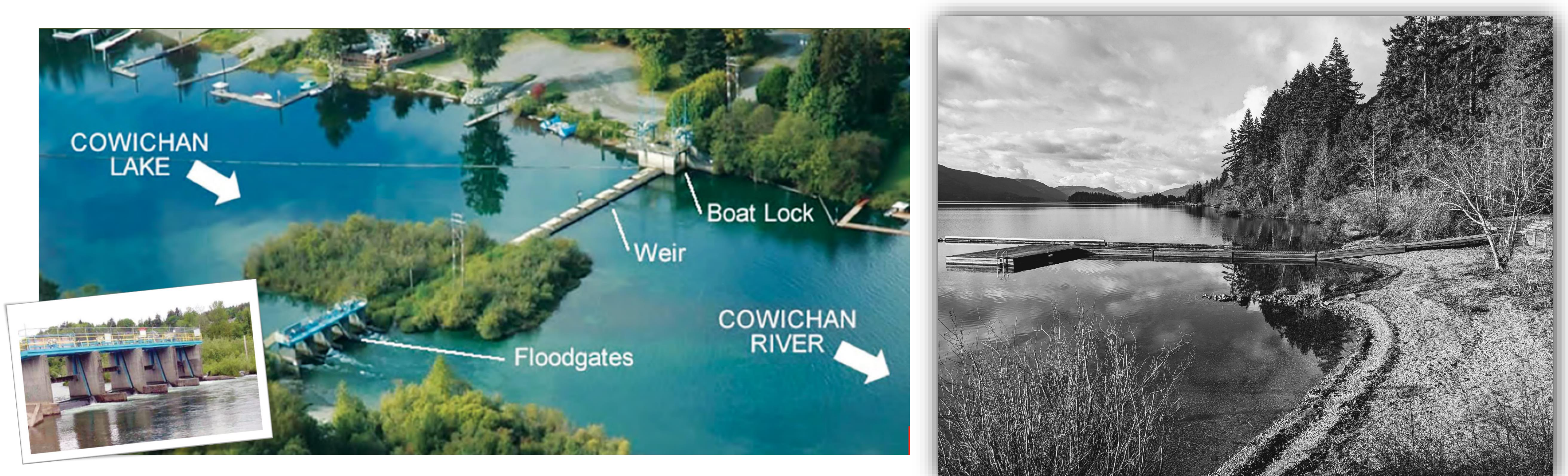


Cowichan Lake

Weir Design and Shoreline Assessment Project Update



The Project

- The Project has two key parts: 1. Design a new Weir and 2. Perform an assessment of the impact a new higher weir to the lake's shoreline.
- This work will inform the future water license holder of the costs and implications of the 'build a new weir' project. It does not mean we have a committed water license holder or funding to proceed once this work is complete.
- A potential license holder and construction funding is being managed by others.

Weir Design

- The weir project contract was finalized with Stantec Engineering on March 16, 2020.
- Stantec was in a very good position to handle the Covid-19 pandemic and were quickly able to transition to working remotely with little impact to the design schedule. Weekly update meetings.
- It is anticipated we will have a completed design, with procurement and tender packages by middle of 2021.
- There are several Key Deliverables throughout the project:
 - Document Reviews and Gap Analysis (~ 85% complete)
 - Site Assessment Summary (~ 90% complete)
 - Environmental Technical Data Report (~20% complete)
 - Design Basis Memorandum (~40% complete)
 - Concept Selection Report (10%) primarily geotechnical and geological investigations
 - Site Geology Model (~10%)
 - Preliminary Design Report (0%) January 2021
 - Final Design Report (0%) May 2021

Weir Design – Public Engagement

- 3 opportunities for public engagement are planned:
 - Phase 1: Now until June 28, 2020. To gather input on the ‘softer engineering’ aspects such as aesthetics, colour, artistry, recreation, fish ladders, boat lock, etc.
 - Phase 2: November 2020. To share Preliminary Design(s) and address the feedback received in May/June.
 - Phase 3: April/May 2021. To share the final Design.
- An existing website is being refreshed to allow people to access information and surveys. The 2018 Cowichan Water Use Plan website.

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Cowichan Lake Shoreline Assessment Project

- Approximately 867 lots along 110 kilometers of shoreline. Includes Islands.
- We require an understanding of changes to the shoreline, High Water mark and Riparian areas/owners rights due to changes in the lake level when a new weir is constructed.
- This work will inform the future water license holder.



Natural Boundary Definition (LTSA, Surveyor General):

"natural boundary" means the visible high water mark of any lake, river, stream or other body of water where the presence and action of the water are so common and usual, and so long continued in all ordinary years, as to mark on the soil of the bed of the body of water a character distinct from that of its banks, in vegetation, as well as in the nature of the soil itself; LAND ACT [RSBC 1996] CHAPTER 245

Cowichan Lake Shoreline Assessment Project

- Worked with the Surveyor General, Land Title and Survey Authority of British Columbia (LTSA) and Ministry of Forestry, Land and Natural Resources Operations (FLNRO) to determine an acceptable approach.
- We held a Request For Proposal information session on January 24 to understand which consultants might be interested in this project and to determine how the project deliverables should be framed.
- An RFP was recently issued and is set to close on May 29. After proposal reviews and contract negotiations we expected work to start late June 2020.
- The preliminary weir design by Stantec as well as the new operating curve will inform some of the modelling and assessments.
- This work to be completed by Feb. 2022.

BC Salmon Recovery and Innovation Fund (BCSRIF) Grant (\$4M)

- In February we amended our contract with BCSRIF. Revised forecasts. End date for the grant has not changed (March 31, 2022)
- Spending for year 1 (May 2019 – March 31, 2020) was \$119K versus a forecast of \$143K. Primarily due to the late finalization of the engineering contract.
- Year 2 - Forecast is \$2.1M
- Year 3 - Forecast is \$1.8M
- The cost and schedule for the engineering work are on track. Complete by June 2021.
- The cost for the Shoreline Assessment work is currently behind forecast due to rework and re-issue of the RFP. The work must be complete by March 2022.

Questions?

Comments?

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