

Comox Valley Water System (Function No. 300, 301 & 302)

2021 – 2025 Financial Plan

Comox Valley Water System

BC Hydro Penstock/Water Supply and Distribution

- Comox Lake source water
- Diversion dam diverts water into BC Hydro Penstock
- Two CVRD tie-ins to penstock divert water to CVWS
- Flows by gravity into the CVRD Cl building for disinfection



Comox Valley's NEW WATER TREATMENT SYSTEM

This map shows the location of new infrastructure for the water treatment system, expected to be operational by 2021.

WATER
TREATMENT
PLANT

TREATED
WATER
PIPELINE

RAW
WATER
PIPELINE

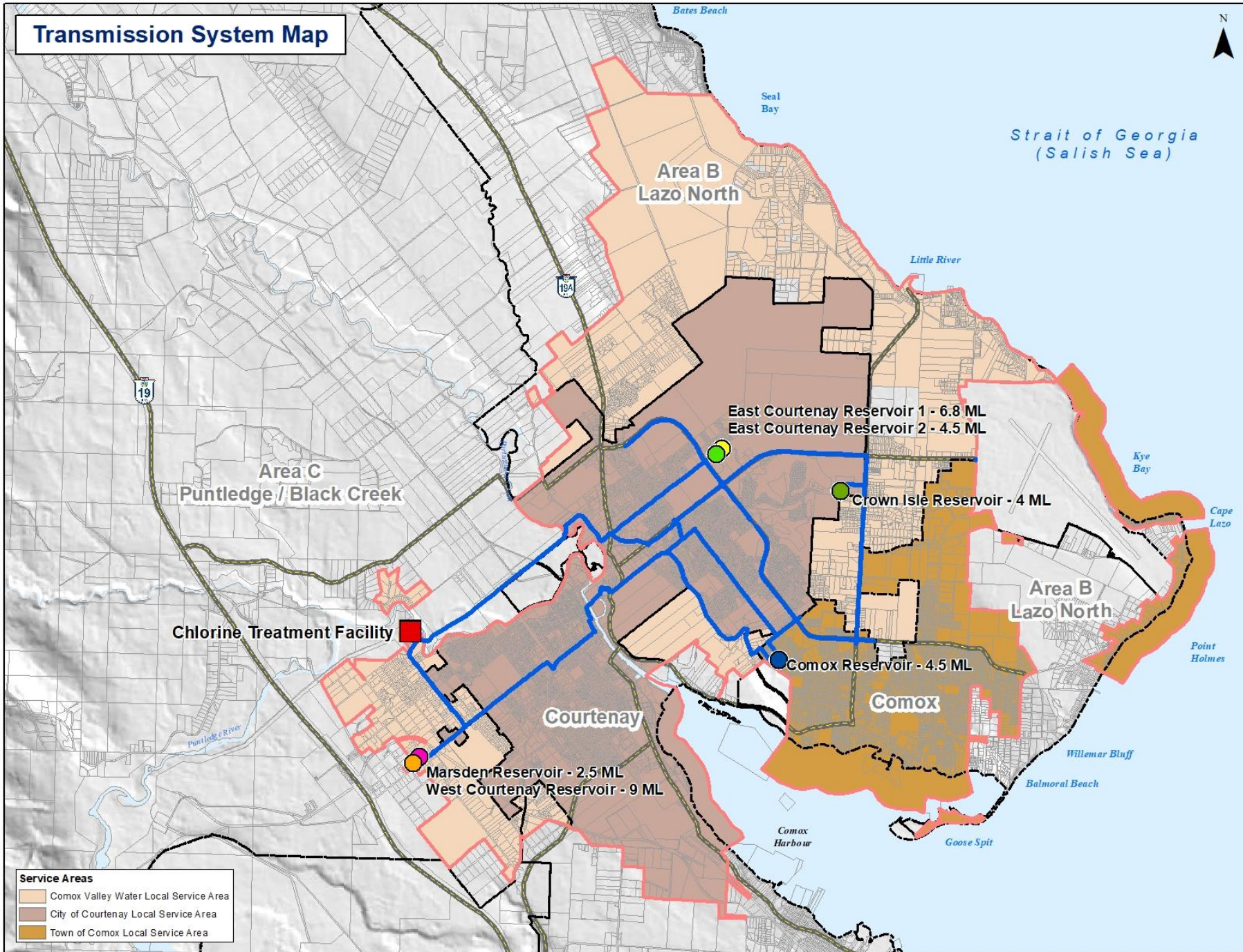
RAW
WATER
PUMP
STATION

LAKE
INTAKE

CV Water Service Crew



Transmission System Map



Service Areas	
	Comox Valley Water Local Service Area
	City of Courtenay Local Service Area
	Town of Comox Local Service Area

Comox Valley Water System

2020 Accomplishments

- ✓ Condition assessment of CCP transmission water main
- ✓ Selection and purchase of computerized maintenance management system (CityWorks)
- ✓ ROV condition/structural assessment of all water reservoirs
- ✓ Electrical PM and IR assessment of all MCCs
- ✓ Continued construction of CVWTP:
 - ✓ Completion of raw water transmission main
 - ✓ Underground structures at water treatment plant and start of electrical and mechanical work
 - ✓ Electrical building structure and raw water pump station construction





Comox Valley Water System

2021 Work Plan

- Completion construction and commissioning of CVWTP
- Move water department operations team to new WTP
- Implementation of CMMS (CityWorks)
- New fiber optic communications connection from Ryan Pump Station to East Courtenay Reservoir
- Development of CCP repair kit/procedure
- Completion of bulk water standpipe upgrades
- Repair 900mm steel water main under Puntledge River

2021 Financial Plan - Revenue

Operating	2020 Budget	2021 Proposed Budget	Increase (Decrease)
Revenue			
Senior Government Grants			-
Sale Services User Fees	6,998,510	6,785,111	(213,399)
Applications/Permit Fees	0	1,250	1,250
Other Revenue/Recoveries	98,980	99,225	245
Transfer from Reserve	1,166,665	0	(1,166,665)
	\$ 8,264,155	\$ 6,885,586	\$ (1,378,569)

- Most revenue is derived from the sale of bulk water.
- In response to COVID-19, bulk water rate has been decreased to \$0.80/m³ for 2021 and 2022

2021 Financial Plan - Revenue

	2020-2024 ADOPTED FINANCIAL PLAN		2021-2025 PROPOSED FINANCIAL PLAN	
	<i>BULK WATER RATE (\$/M³)</i>	<i>WATER RATE REVENUE (\$M)</i>	<i>BULK WATER RATE (\$/M³)</i>	<i>WATER RATE REVENUE (\$M)</i>
2020	\$0.83	\$7.0M		
2021	\$0.85	\$7.2M	\$0.80	\$6.8M
2022	\$0.85	\$7.3M	\$0.80	\$6.8M
2023	\$0.96	\$8.3M	\$0.96	\$8.2M
2024	\$0.96	\$8.4M	\$0.96	\$8.3M
2025			\$0.96	\$8.3M

2021 Financial Plan – Personnel

Operating	2020 Budget	2021 Proposed Budget	Increase (Decrease)
Revenue			
Senior Government Grants			-
Sale Services User Fees	6,998,510	6,785,111	(213,399)
Applications/Permit Fees	0	1,250	1,250
Other Revenue/Recoveries	98,980	99,225	245
Transfer from Reserve	1,166,665	0	(1,166,665)
	\$ 8,264,155	\$ 6,885,586	\$ (1,378,569)
Expenditures			
Personnel Costs	1,386,322	1,806,242	419,920

- Currently showing a 30% increase to personnel costs:
 - New operators for the CVWTP
 - Cost sharing for new in-house electrician

2021 Financial Plan –Operating

Operating	2020 Budget	2021 Proposed Budget	Increase (Decrease)
Revenue			
Senior Government Grants			-
Sale Services User Fees	6,998,510	6,785,111	(213,399)
Applications/Permit Fees	0	1,250	1,250
Other Revenue/Recoveries	98,980	99,225	245
Transfer from Reserve	1,166,665	0	(1,166,665)
	\$ 8,264,155	\$ 6,885,586	\$ (1,378,569)
Expenditures			
Personnel Costs	1,386,322	1,806,242	419,920
Operating	2,401,282	2,306,308	(94,974)

- 4% decrease in operating costs as a result in cost saving measures in response to COVID-19
- New sub-function 302 added to track water treatment plant operating costs

2021 Financial Plan – Capital Reserves

Operating	2020 Budget	2021 Proposed Budget	Increase (Decrease)
Revenue			
Senior Government Grants			-
Sale Services User Fees	6,998,510	6,785,111	(213,399)
Applications/Permit Fees	0	1,250	1,250
Other Revenue/Recoveries	98,980	99,225	245
Transfer from Reserve	1,166,665	0	(1,166,665)
	\$ 8,264,155	\$ 6,885,586	\$ (1,378,569)
Expenditures			
Personnel Costs	1,386,322	1,806,242	419,920
Operating	2,401,282	2,306,308	(94,974)
Contribution to Reserve	2,235,436	1,200,403	(1,035,033)

At December 31, 2020:

- Capital works reserve: \$17,691,580
- Development cost charge reserve: \$1,606,441
- Future Expenditure Fund: \$50,000

2021 Financial Plan – Capital

Capital	2020 BV	2021 PB	Increase (Decrease)
Funding Sources			
Senior Government Grants	36,256,366	7,105,087	(29,151,279)
Other Revenue/Recoveries	10,000	1,350,000	1,340,000
Short Term Debt Proceeds	14,646,464	14,353,536	(292,928)
Transfer from Reserve	10,056,115	9,493,470	(562,645)
	\$ 60,968,945	\$ 32,302,093	\$ (28,666,852)
Funding Applied			
Capital Projects & Equip	60,968,945	32,302,093	(28,666,852)
	\$ 60,968,945	\$ 32,302,093	\$ (28,666,852)

- CVWTP construction began 2019 & on track for completion this summer
- Projects will be funded through a combination of capital works reserves, DCC reserves and long term debt
- **Timing of CVWTP expenses will be adjust in recommended FP based on January 7, 2021 staff report**

2021 Financial Plan – Capital

Support of the financial plan will also demonstrate support for the operating and capital projects/ contracts included within the plan.

Project	2021
Vehicle Capital Purchase	\$50 k
Annual Capital Equipment	\$115 k
Annual Capital Projects	\$360 k + CFWD's
CVWTP	\$29 M
Extension of Water Service South	\$2.7 M
Total	\$32 M

*Plus inclusion of \$250,000 for Puntledge River crossing leak repair

Watershed Protection Plan

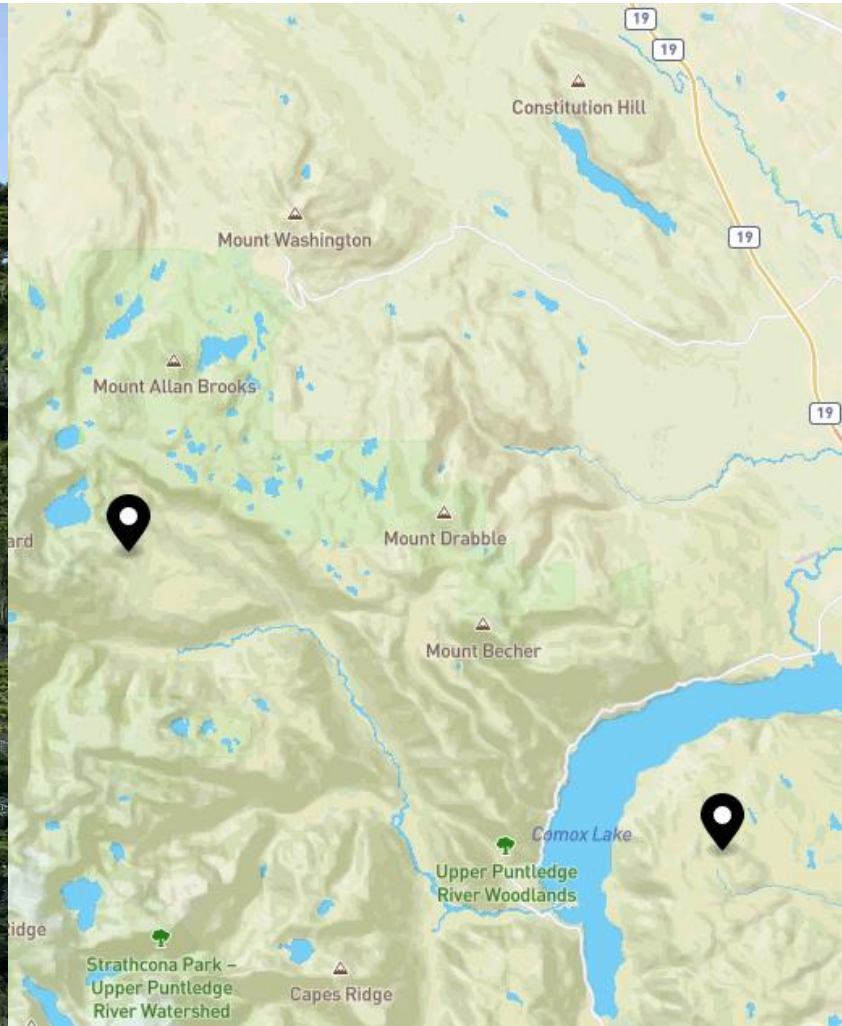
2020

- Management planning for Coal Beach property initiated with security patrols
- Continued education and outreach program including co-hosting Watershed Resilience Webinar
- MNAI initiative to establish value of WS as a natural asset
- 2nd Alpine weather station for monitoring climate and precipitation
- Comox Lake hydrodynamic model

2021

- Complete management plan for Coal Beach property
- Continue education & outreach for watershed protection & water conservation
- Work with WAG to review WPP risk assessment
- Complete MNAI initiative

High elevation weather station



Dec 2, 2020 / Feb 17, 2021



In Summary

Fiscal Responsibility:

- COVID-19 pandemic, bulk water rates are temporarily ↓, operational costs ↑ for 2021 and 2022.

Climate Crisis and Environmental Stewardship and Protection:

- All rural connections metered.
- Courtenay and Comox → all commercial and some residential connections metered.
- Water conservation is a priority for all partners.
- Implementation of the WPP.

Community Partnerships:

- The service is a partnership between Courtenay, Comox, and all three electoral areas for water → 50,000 people.
- WPP guided by **WAG**, with representation from all key stakeholders.

Indigenous Relations:

- MBA signed with the KFN in 2018
- CVRD working with KFN on water → KFN development lands.
- KFN now an observer on the Water Committee.