

# CHAPMAN WATER SYSTEM BACKGROUNDER



## CONTEXT

The Chapman Water System supplies water to Electoral Areas B (Halfmoon Bay), D (Roberts Creek), E (Elphinstone), F (West Howe Sound), District of Sechelt, and shíshálh Nation. Approximately 83% of residential water users serviced by SCRD drinking water are on the Chapman Water System. This water system is located on the territory of the shíshálh Nation and Skwxwú7mesh Úxwumixw.

## WATER SOURCES

The Chapman Water System has two primary water sources, Chapman Creek (fed by Chapman and Edwards Lakes), and Aquifer 560. Gray Creek is a secondary source that can supply additional water to the system during the summer months when demand is high. Three emergency sources only supply water during emergency situations: the Chapman Lake siphon system, Edwards Lake siphon system, and Trout Lake. The Chapman Water System is largely dependent on precipitation and snowmelt during the year to maintain sufficient water supply in Chapman Creek. In 2023, the Church Road Well Field was completed and connected the Granthams Landing and Soames Point Water Systems to the Chapman Water System.

### Chapman Creek

Chapman Creek is located in the Chapman Creek watershed, which is approximately 7,150 ha in size. Chapman Creek is 27 kilometers (km) in length, stretching from the headwaters at Chapman Lake in Tetrahedron Provincial Park to the Salish Sea at Mission Point Park in Davis Bay. Chapman Lake is 976 m above sea level, is 34 hectares (ha) in size and has a storage capacity of 680 million litres (L).

Edwards Lake and Gray Creek are in the Gray Creek Watershed, however water from Edwards Lake is diverted into the Chapman Creek watershed to augment Chapman Creek flow during periods of drought and high community water demand. Water from Chapman Creek flows to the Chapman Water Treatment Plant. After being treated, water is stored in a large reservoir, where it is then gravity fed to other reservoirs and water users.

Low water flows in Chapman Creek during emergency drought conditions are augmented through additional water released from Chapman Lake via a siphon system, and Edwards Lake through a controlled dam and siphon system. Water from these emergency sources is only used when Stage 4 Water Conservation Regulations are declared.

### Aquifer 560

Aquifer 560 is the water source for Chaster Well and the Church Road Well Field. The aquifer extends from the base of Mount Elphinstone to the west, and along the coastline from north of Langdale to the south of Elphinstone.



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## Gray Creek

Gray Creek flows from its headwater in Tetrahedron Provincial Park to the Sechelt Inlet north of Naylor Road, between the communities of Sandy Hook and Tuwanek. Gray Creek is only used during times of drought and high demand, and requires approval from Vancouver Coastal Health to ensure water quality standards are met.

## Trout Lake

Trout Lake is located in Electoral Area B (Halfmoon Bay), along Highway 101. The lake has not been used as a water source for many years but is available as an emergency water source.

## FUTURE: Langdale Wellfield Project

The SCRD is working on this water supply project that will connect the Langdale Water System to the Chapman Water System. This project will provide additional water supply and increase resiliency for water users on both systems.

## SUPPLY INFRASTRUCTURE

The Chapman Water System provides potable water to approximately 10,600 active service connections including businesses, industry, farms, and institutions.

The water system infrastructure currently consists of five production wells, two water treatment facilities, 11 reservoirs, pump stations, rechlorination stations, watermains, fire hydrants, and residential water meters on all service connections.

## Chapman Creek Water Treatment Plant

In 2004, the Chapman Creek Water Treatment Plant was completed. The facility processes and distributes an average of 343 million litres of water each month. In 2025, the Treatment Plant produced 4.09 billion litres of drinking water.

## Church Road Well

Church Road Well Field and water treatment facility are located in Granthams Landing. Two wells provide water supply from Aquifer 560, primarily during the summer months.

## Chaster Well

Chaster Well is located near Cedar Grove Elementary School, off Chaster Road and draws water from Aquifer 560. The well and a small chlorination station became operational in 2003 and supplies water during the summer to help meet peak demand. In 2026, Chaster Well station was upgraded to include rehabilitation of the well, new pump and motor, new control valves and upgraded communication functionality. An updated water licence was issued to the SCRD increasing the available amount of water per day to 1.382 million litres per day.

## Gray Creek Water Treatment Plant

Gray Creek is currently an emergency water supply. The water licence allows for 3.4 million litres per day.



## FAST FACTS

**Water Source:**  
Chapman Creek  
Aquifer 560

**Number of  
Connections:**  
10,600

**Total Water  
Distributed:**  
4.09 billion  
litres/year

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## FUNCTIONALITY

Household water use in the SCRD fluctuates significantly throughout the year, with the highest use in the summer months.

Water Conservation Regulations are in effect from May 1 to September 30 each year, and in recent years, have been escalated to Stage 4, a ban on outdoor water use.

The SCRD is working on numerous water projects that aim to add additional water supply, improve water efficiency and increase resiliency of the current water sources.

To learn more about water supply projects that will continue to increase water supply and better serve local residents and businesses, please visit [letstalk.scrd.ca/water](http://letstalk.scrd.ca/water)

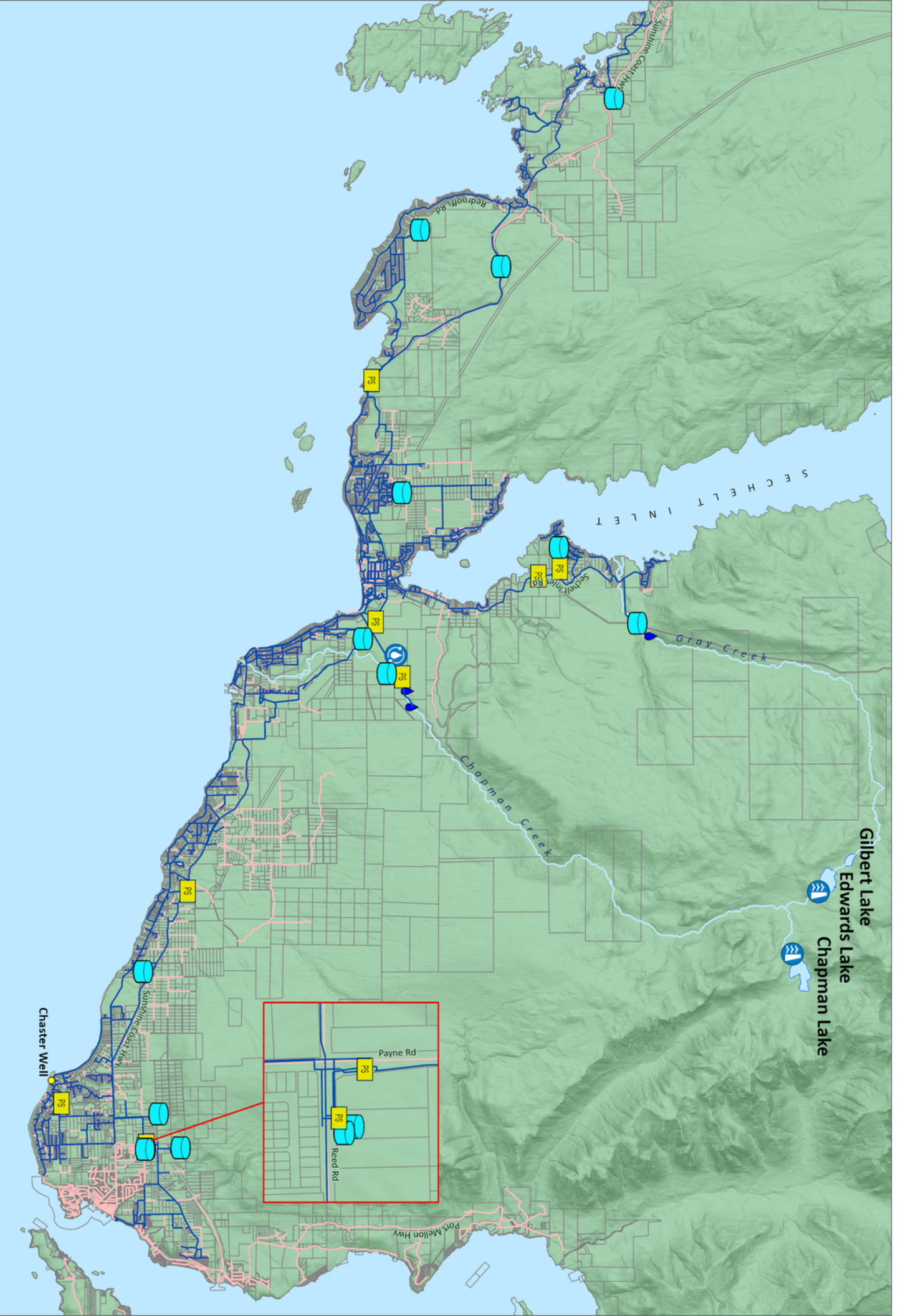


## Context Map Chapman



- Chapman Water Service Area
- Active Community Watershed
- Water Source Creek
- Water Source Lake
- #552 Langdale/Hopkins Aquifer
- #560 Gibsons/SCRD Granthams Landing/Elphinstone Aquifer
- Roads





# Chapman Water System Infrastructure

 Pump Station

 Well

 Water Intake

 Road

 Reservoir

 Water Main

 Water Source Creek

 Property Boundary

 Water Treatment Plant

 Dam

 Water Source Lake

