

NORTH PENDER WATER SYSTEM BACKGROUNDER



CONTEXT

The North Pender Harbour (NPH) Water System is in Electoral Area A (Egmont/ Pender Harbour). The system provides water to properties in Garden Bay, Irvine's Landing, Daniel Point, and Sakinaw Ridge. This water system is located on the territory of the shíshálh Nation. In 2006, the SCRD assumed ownership of the NPH Water System.

The NPH Water System is a separate Water Service Area with its own budget and water rates. It is one of seven independent water systems owned and operated by the SCRD, and is not connected to any other water systems.

WATER SOURCE

Garden Bay Lake is the primary water source for the system and Hotel Lake is an emergency source. Garden Bay Lake has a surface area of approximately 62 hectares, with a maximum depth of 52 metres. Garden Bay lake flows into Katherine and Sakinaw Lakes before reaching the ocean.

The Garden Bay Watershed provides water to Garden Bay Lake, and includes the northwest side of Mt. Daniel and the east face of Harbour Peak.

Hotel Lake is an emergency source for this system that is not currently needed or used. Significant infrastructure improvements would be required to treat and distribute this water from Hotel Lake for drinking water use.

SUPPLY INFRASTRUCTURE

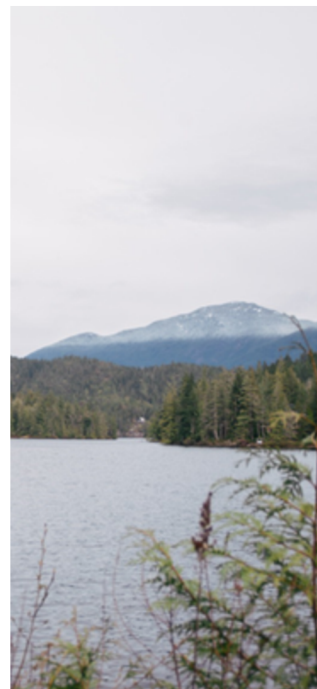
The NPH Water System provides potable water to approximately 583 water service connections including residents, businesses, farms, and institutions.

The system consists of a water treatment plant, one pump station, pressure reducing valves, one re-chlorination station, three reservoirs, 25 km of watermains, 150 hydrants, and residential water meters on every service connection.

Water from Garden Bay Lake is pumped from the lake through an ultraviolet disinfection system and chlorinated.

Treated water is stored in two treated water reservoirs. In 2025, Garden Bay Lake provided 230 million litres of water, with the average North Pender water user using 534 L per day.

In 2023, the SCRD hired a consultant to complete a feasibility study for treatment system improvements aimed at improving, capacity, water quality and resiliency of the water system. The SCRD is currently working with a consultant to design a new treatment facility that addresses the findings of the 2023 feasibility study.



FAST FACTS

Water Source:
Garden Bay Lake

**Number of
Connections:**
583

**Total Water
Distributed:**
230 million
litres/year

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FUNCTIONALITY

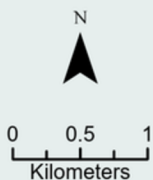
The NPH Water System is currently operating within its designed capacity set out by the current water licences. The system is subject to raw water quality fluctuations due to the lake turnover events. The number of warm weather days increases the number of lake turnover events, which mixes lake bottom organic sediments into the water, increasing turbidity and resulting in discolouration. Lake turnover is natural as the result of changing temperatures and may be more common with climate change.

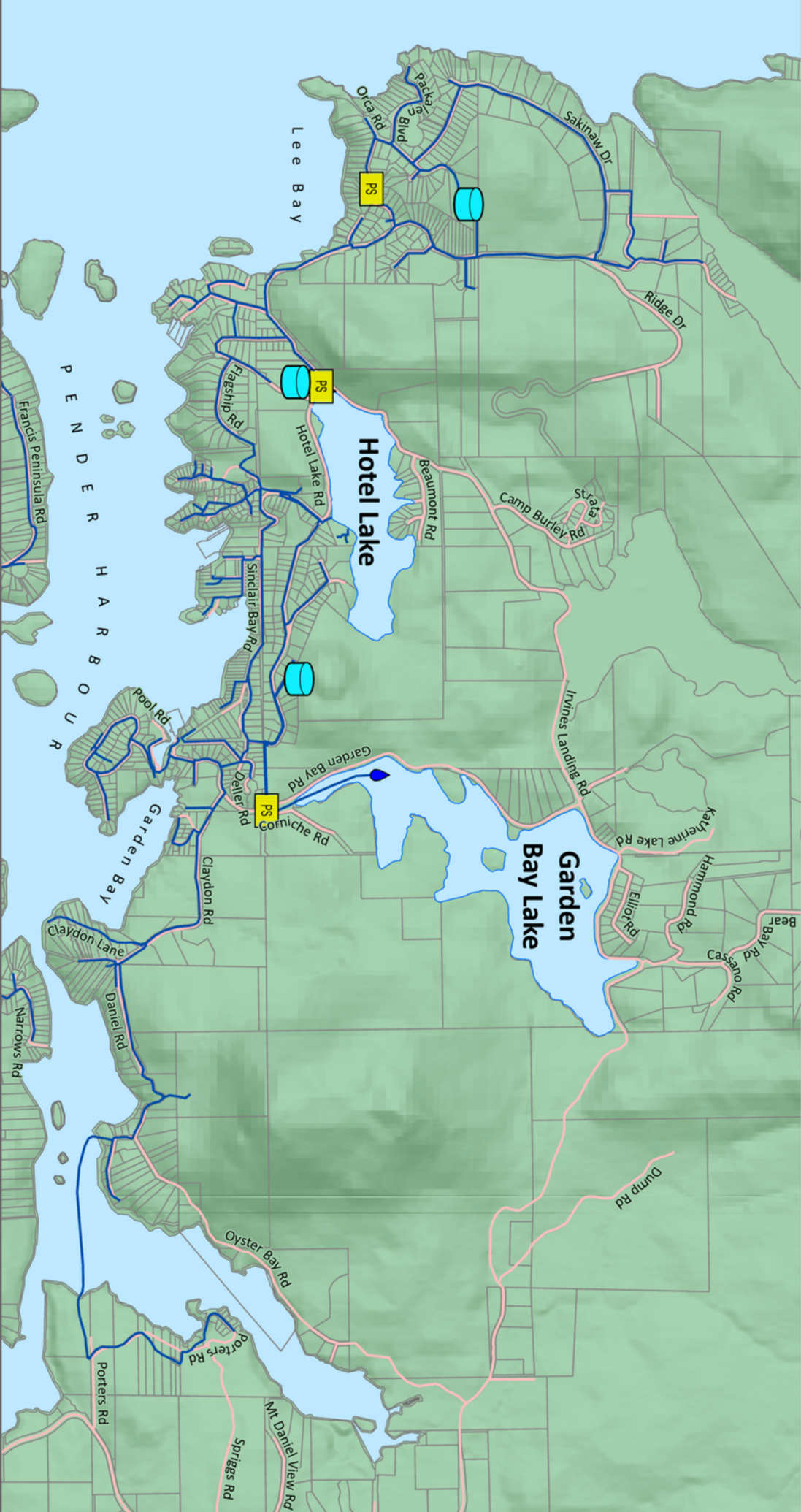


Context Map North Pender Harbour



- North Pender Harbour Water Service Area
- Water Source Lake
- Roads





North Pender Harbour Water System Infrastructure

PS

Reservoir

Water Intake

Water Main

Water Source Lake

Road

Property Boundary

0

1

2

Kilometers

N