

File: 2507071

October 9, 2025

Corrine Matheson
Galiano Island BC

Attention: Corrine Matheson

Re: GL-RZ-2021.2 Preliminary Groundwater Supply Investigations for DL 86

On October 7, 2025 I attended a constant rate pumping test conducted by Red Williams Well Drilling Ltd., on bedrock Well WTN 60556 located along the northern boundary of DL 86.

The well was tested for 12 hours at a rate of 0.99 USgpm between Oct 6 and Oct 7, 2025. Drawdown at the end of the test was essentially stabilized at 34 m below ground utilizing 50 % of the available drawdown in the well to the top of the major water-producing fracture at a depth of 67.7 m. The well was flowing slightly prior to the pumping test. Water samples were collected at the end of the test for laboratory analyses.

Preliminary analysis of the pumping test results indicates that well WTN 60556 would be capable of producing 0.94 USgpm (5124 L/day) on a sustainable basis with insignificant interference effects on any neighbouring wells in the region. This capacity exceeds the requirements of *Galiano Island Land Use Bylaw, No. 127, Standards for Potable Water Supply, Sections 13.24 to 13.29* (Galiano Island Local Trust Committee, 2025).

Monitoring of the water quality conductivity during the test showed no indication of sea water intrusion into the well. These results above are similar to the results obtained when the well was first pump tested in early October, 1994 (Thurber Engineering Ltd., 1994).

The applicants are planning to pump test two additional wells in 2026 to meet the requirements of the rezoning application. Based on the recent performance of Well WTN 60556 and the previous findings of the 1994 Thurber Consultants Ltd., report there is a high probability that the two future planned wells will be successful in meeting the water supply requirements of the Bylaw. As the eastern portion of DL 86 is situated within a groundwater discharge zone (Kohut and Johanson, 1998) the geologic and bedrock groundwater conditions on DL 86 are very favourable for constructing wells of sufficient capacity for residential development.

Respectfully submitted,

A.P. Kohut
Oct 9/25

A circular professional seal for A.P. Kohut, a Professional Engineer in the Province of British Columbia. The seal contains the text "PROFESSIONAL", "PROVINCE OF", "A.P. KOHUT", "#10184", "BRITISH COLUMBIA", and "ENGINEER".

Alan P. Kohut PEng.
Principal and Senior Hydrogeologist

HY-GEO CONSULTING
Permit to Practice Number: 1001034

References

- Galiano Island Local Trust Committee. 2025. *Land Use Bylaw 127, 1999*. (with amendments to 2024). Internet <https://islandstrust.bc.ca/document/galiano-island-local-trust-committee-land-use-bylaw-no-127-1999/>
- Kohut, A.P., and D.A. Johanson. 1998. *Assessment of Groundwater Availability and Quality, Galiano Island, British Columbia*. British Columbia Ministry of Environment, Victoria, British Columbia.
- Thurber Consultants Ltd. 1994. *District Lot 86 - Galiano Island Residential Development Groundwater Supply Evaluation*. Report prepared for Gary Thomas, File 19-1994-0, November 1, Victoria, British Columbia.