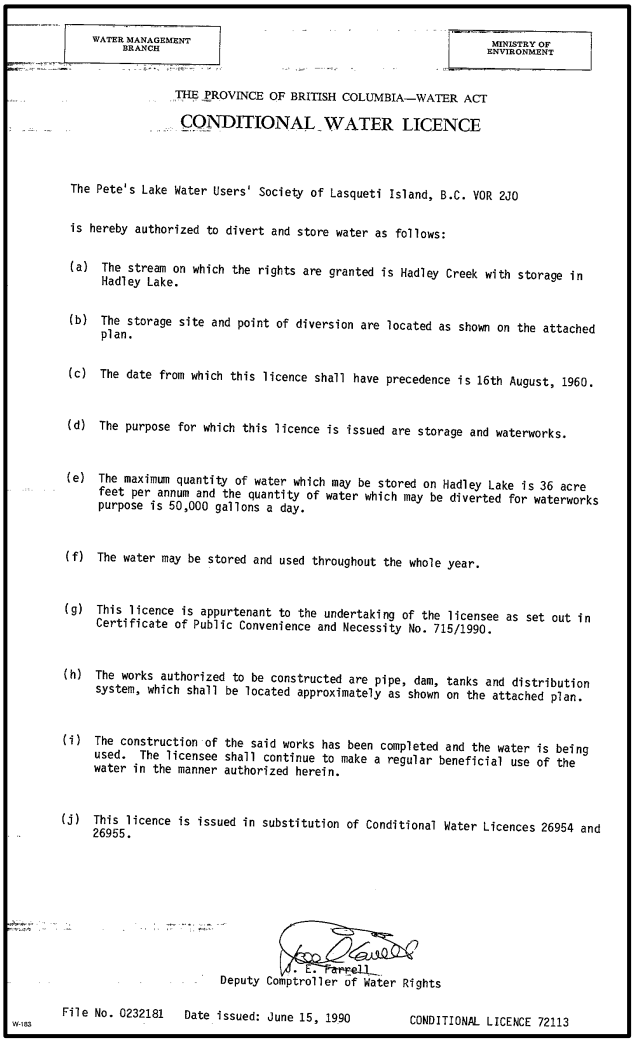
The Rules

Water Sustainability Act and Water Protection Act

http://www.bclaws.ca/civix/document/id/complete/statreg/14015
http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96484_01

All water in British Columbia is owned by the Crown on behalf of the residents of the province. If you own land that contains or has access to surface water or groundwater, in most cases you must apply to the province for the right to use the water and pay an annual rental fee for that use. This ownership is declared within the Water Sustainability Act and reconfirmed in the Water Protection Act.

PLWUS has water license 072113 which permits us water rights on Hadley Creek with storage in Hadley (Pete's) Lake and to withdraw up to 50,000 imperial gallons (230,000 L) per day.



WATER MANAGEMENT BRANCH

MINISTRY OF ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

The Pete's Lake Water Users' Society of Lasqueti Island, B.C. V0R 2J0

is hereby authorized to divert and store water as follows:

(a) The stream on which the rights are granted is Hadley Creek with storage in Hadley Lake.

(b) The storage site and point of diversion are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 16th August, 1960.

(d) The purpose for which this licence is issued are storage and waterworks.

(e) The maximum quantity of water which may be stored on Hadley Lake is 36 acre feet per annum and the quantity of water which may be diverted for waterworks purpose is 50,000 gallons a day.

(f) The water may be stored and used throughout the whole year.

(g) This licence is appurtenant to the undertaking of the licensee as set out in Certificate of Public Convenience and Necessity No. 715/1990.

(h) The works authorized to be constructed are pipe, dam, tanks and distribution system, which shall be located approximately as shown on the attached plan.

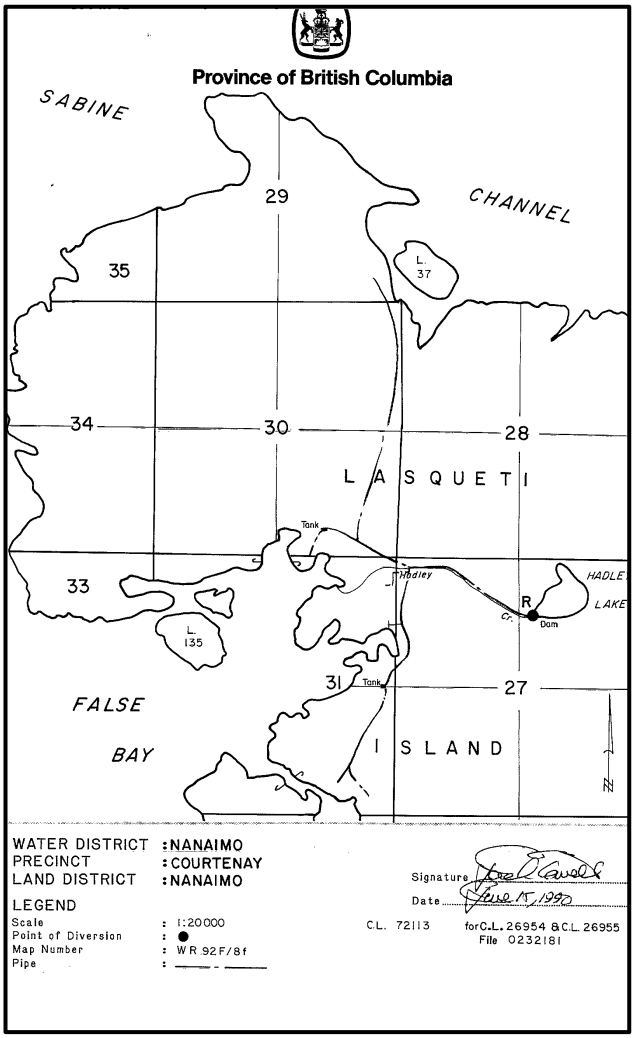
(i) The construction of the said works has been completed and the water is being used. The licensee shall continue to make a regular beneficial use of the water in the manner authorized herein.

(j) This licence is issued in substitution of Conditional Water Licences 26954 and 26955.

W. E. Farrell
Deputy Comptroller of Water Rights

File No. 0232181 Date issued: June 15, 1990 CONDITIONAL LICENCE 72113

W-183



Drinking Water Protection Act *(some relevant excerpts)*

http://www.bclaws.ca/civix/document/id/complete/statreg/01009_01

- **Section 6:**
  Water supply systems must provide potable water
  Subject to the regulations, a water supplier must provide, to the users served by its water supply system, drinking water from the water supply system that
  (a) is potable water, and
  (b) meets any additional requirements established by the regulations or by its operating permit.

- **Section 8:**
  Operating permits and requirements for water supply systems
  (1) In the case of a prescribed water supply system, the water supplier
    (a) must not operate the water supply system unless the water supplier holds a valid operating permit issued in accordance with the regulations,
    (b) must comply with all terms and conditions of its operating permit, and
    (c) must operate the water supply system in accordance with any applicable regulations.
  (2) An issuing official may include in an operating permit terms and conditions the official considers advisable respecting the water supply system.
  (3) As examples, but without limiting the authority under this section, terms and conditions respecting the following may be included in an operating permit:
    (a) treatment requirements;
    (b) equipment, works, facilities and operating requirements;
    (c) qualifications and training of the persons operating, maintaining or repairing the water supply system;
    (d) monitoring of the drinking water source and the water in the water supply system;
    (e) standards applicable to the water in the water supply system;
    (f) reporting and publication of monitoring results or other information respecting the water supply system.
  (4) The drinking water officer or an issuing official may change the terms and conditions of an operating permit if the officer or issuing official considers this advisable, but must first consult with the water supplier respecting the proposed changes and must consider any comments of the water supplier in response.
  (5) Terms and conditions included in an operating permit under this section may set requirements and standards that are more stringent than those established under this Act.
  (6) If the drinking water officer considers that further information is necessary to determine whether
    (a) the water provided by a water supply system meets the requirements of section 6 [water supply systems must provide potable water], or
    (b) a water supply system meets the requirements and standards established by the regulations and its operating permit,

the drinking water officer may order the water supplier to undertake additional monitoring or testing as directed by the officer, and to report the results and make them public as directed by the officer.

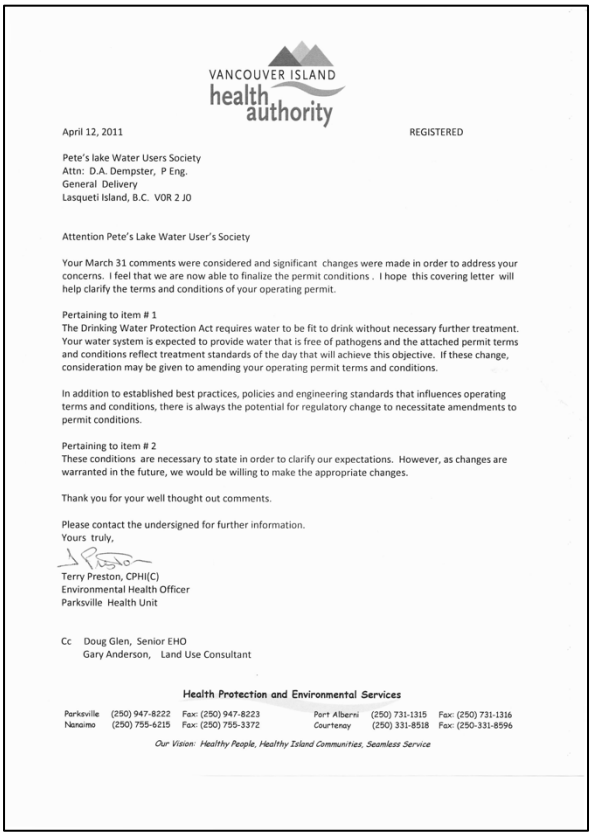
Drinking Water Protection Regulation ***(a relevant excerpt)***
http://www.bclaws.ca/civix/document/id/complete/statreg/200_2003
Exemptions
3.1 The following are exempt from section 6 of the Act:
(a) a small system, if
(i) each recipient of the water from the small system has a point of entry or point of use treatment system that makes the water potable, and
(ii) the water supplier ensures that the location of non-potable water discharge and non-potable water piping are identified by markings that are permanent, distinct and easily recognized;
(b) a water supply system, including a small system, if
(i) the system does not provide water for human consumption or food preparation purposes,
(ii) the system is not connected to a water supply system that provides water for human consumption or food preparation purposes, and
(iii) the water supplier ensures that the location of non-potable water discharge and non-potable water piping are identified by markings that are permanent, distinct and easily recognized.

NOTE: ***Our system is identified as a "Small System" as it serves less than 500 people at any time.***

Canadian Drinking Water guidelines *(a relevant excerpt)*
https://www.canada.ca/en/health-canada/services/environmental-workplace-health/water-quality/drinking-water/canadian-drinking-water-guidelines.html

Parameter	Guideline
Enteric protozoa: *Giardia* and *Cryptosporidium* (2012)	Treatment goal: Minimum 3 log*reduction (removal and/or inactivation) of cysts and oocysts
Enteric viruses (2011)	Treatment goal: Minimum 4 log* reduction (removal and/or inactivation) of enteric viruses
Escherichia coli (*E. coli*) (2012)	None detectable per 100 mL
Total coliforms (2012)	None detectable per 100 mL in water leaving a treatment plant and in non-disinfected groundwater leaving the well
Turbidity (2012)	Treatment limits for individual filters or units: • Conventional and direct filtration: ≤ 0.3 NTU** • slow sand and diatomaceous earth filtration: ≤ 1.0 NTU** • membrane filtration: ≤ 0.1 NTU**

* "log reduction" means reduction by 90%. For example: Starting with 10,000 of something you would have 1000 after 1 "log reduction", 100 after 2 "log reductions", 10 after 3 and 1 after 4.
**NTU: Nephelometric Turbidity Units! is an optical measurement of water's ability to scatter and absorb light rather than transmit it in straight lines. At 5 NTU water is visibly cloudy.



VANCOUVER ISLAND health authority

April 12, 2011 REGISTERED

Pete's lake Water Users Society
Attn: D.A. Dempster, P Eng.
General Delivery
Lasqueti Island, B.C. V0R 2 J0

Attention Pete's Lake Water User's Society

Your March 31 comments were considered and significant changes were made in order to address your concerns. I feel that we are now able to finalize the permit conditions . I hope this covering letter will help clarify the terms and conditions of your operating permit.

Pertaining to item # 1
The Drinking Water Protection Act requires water to be fit to drink without necessary further treatment. Your water system is expected to provide water that is free of pathogens and the attached permit terms and conditions reflect treatment standards of the day that will achieve this objective. If these change, consideration may be given to amending your operating permit terms and conditions.

In addition to established best practices, policies and engineering standards that influences operating terms and conditions, there is always the potential for regulatory change to necessitate amendments to permit conditions.

Pertaining to item # 2
These conditions are necessary to state in order to clarify our expectations. However, as changes are warranted in the future, we would be willing to make the appropriate changes.

Thank you for your well thought out comments.

Please contact the undersigned for further information.
Yours truly,

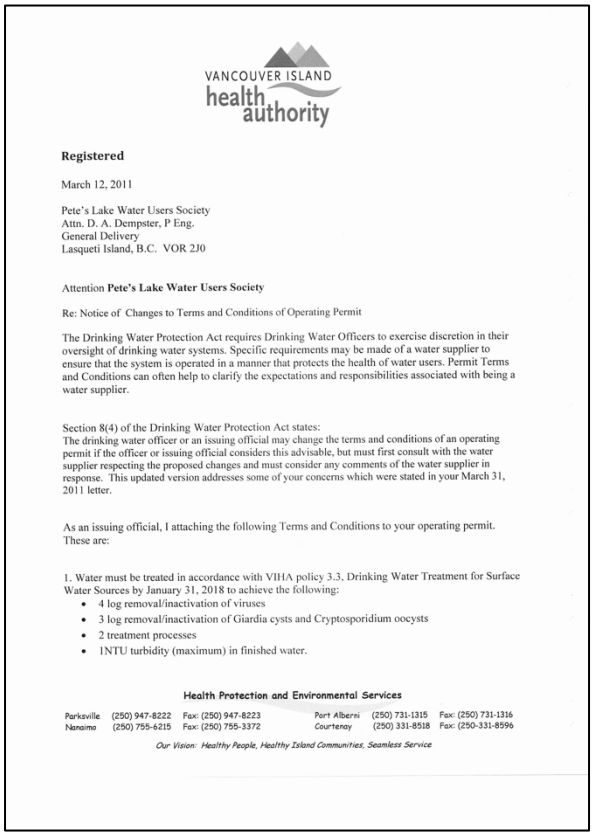
Terry Preston, CPHI(C)
Environmental Health Officer
Parksville Health Unit

Cc Doug Glen, Senior EHO
Gary Anderson, Land Use Consultant

Health Protection and Environmental Services

Parksville (250) 947-8222 Fax: (250) 947-8223 Port Alberni (250) 731-1315 Fax: (250) 731-1316
Nanaimo (250) 755-6215 Fax: (250) 755-3372 Courtenay (250) 331-8518 Fax: (250-331-8596

Our Vision: Healthy People, Healthy Island Communities, Seamless Service



VANCOUVER ISLAND health authority

Registered

March 12, 2011

Pete's Lake Water Users Society
Attn. D. A. Dempster, P Eng.
General Delivery
Lasqueti Island, B.C. VOR 2J0

Attention **Pete's Lake Water Users Society**

Re: Notice of Changes to Terms and Conditions of Operating Permit

The Drinking Water Protection Act requires Drinking Water Officers to exercise discretion in their oversight of drinking water systems. Specific requirements may be made of a water supplier to ensure that the system is operated in a manner that protects the health of water users. Permit Terms and Conditions can often help to clarify the expectations and responsibilities associated with being a water supplier.

Section 8(4) of the Drinking Water Protection Act states:
The drinking water officer or an issuing official may change the terms and conditions of an operating permit if the officer or issuing official considers this advisable, but must first consult with the water supplier respecting the proposed changes and must consider any comments of the water supplier in response. This updated version addresses some of your concerns which were stated in your March 31, 2011 letter.

As an issuing official, I attaching the following Terms and Conditions to your operating permit. These are:

1. Water must be treated in accordance with VIHA policy 3.3, Drinking Water Treatment for Surface Water Sources by January 31, 2018 to achieve the following:
- 4 log removal/inactivation of viruses
- 3 log removal/inactivation of Giardia cysts and Cryptosporidium oocysts
- 2 treatment processes
- 1NTU turbidity (maximum) in finished water.

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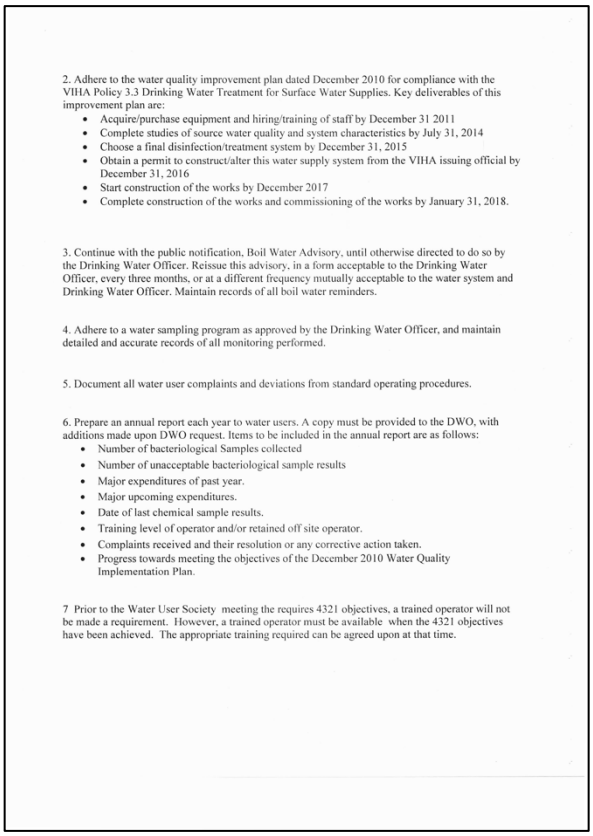


2. Adhere to the water quality improvement plan dated December 2010 for compliance with the VIHA Policy 3.3 Drinking Water Treatment for Surface Water Supplies. Key deliverables of this improvement plan are:
- Acquire/purchase equipment and hiring/training of staff by December 31 2011
- Complete studies of source water quality and system characteristics by July 31, 2014
- Choose a final disinfection/treatment system by December 31, 2015
- Obtain a permit to construct/alter this water supply system from the VIHA issuing official by December 31, 2016
- Start construction of the works by December 2017
- Complete construction of the works and commissioning of the works by January 31, 2018.

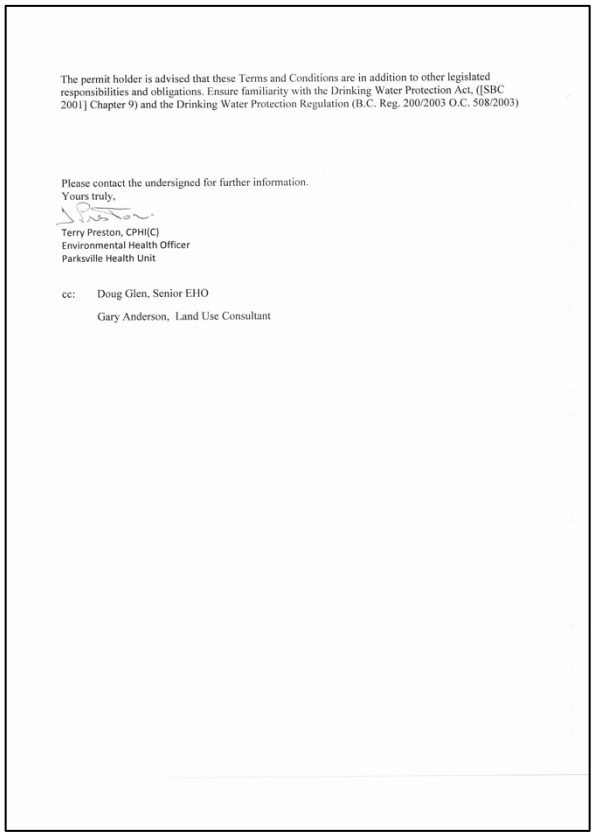
3. Continue with the public notification, Boil Water Advisory, until otherwise directed to do so by the Drinking Water Officer. Reissue this advisory, in a form acceptable to the Drinking Water Officer, every three months, or at a different frequency mutually acceptable to the water system and Drinking Water Officer. Maintain records of all boil water reminders.

4. Adhere to a water sampling program as approved by the Drinking Water Officer, and maintain detailed and accurate records of all monitoring performed.

5. Document all water user complaints and deviations from standard operating procedures.

6. Prepare an annual report each year to water users. A copy must be provided to the DWO, with additions made upon DWO request. Items to be included in the annual report are as follows:
- Number of bacteriological Samples collected
- Number of unacceptable bacteriological sample results
- Major expenditures of past year.
- Major upcoming expenditures.
- Date of last chemical sample results.
- Training level of operator and/or retained off site operator.
- Complaints received and their resolution or any corrective action taken.
- Progress towards meeting the objectives of the December 2010 Water Quality Implementation Plan.

7 Prior to the Water User Society meeting the requires 4321 objectives, a trained operator will not be made a requirement. However, a trained operator must be available when the 4321 objectives have been achieved. The appropriate training required can be agreed upon at that time.



The permit holder is advised that these Terms and Conditions are in addition to other legislated responsibilities and obligations. Ensure familiarity with the Drinking Water Protection Act, ([SBC 2001] Chapter 9) and the Drinking Water Protection Regulation (B.C. Reg. 200/2003 O.C. 508/2003)

Please contact the undersigned for further information.
Yours truly,

Terry Preston, CPHI(C)
Environmental Health Officer
Parksville Health Unit

cc: Doug Glen, Senior EHO

Gary Anderson, Land Use Consultant