



# Province of British Columbia

## *Water Act*

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### FINAL WATER LICENCE

British Columbia Hydro and Power Authority is hereby authorized to store and use water as follows:

- (a) The stream on which the rights are granted is Buntzen Lake.
- (b) The site of the dam which creates the Buntzen Lake Reservoir is PD42819, located as shown on the attached plan.
- (c) The date from which this licence shall have precedence is October 14, 1928.
- (d) The purpose for which this licence is issued is storage. The storage purpose supports the power purpose at the Coquitlam-Buntzen Generating System authorized under Final Water Licence 119709.
- (e) Conditions for the storage of water under this licence are as follows:
  - i) The water may be stored in the reservoir between elevations of 116.00 metres, the minimum operating elevation, and 123.26 metres, the full supply level, measured at the dam using Geodetic Survey of Canada (GSC) datum. The volume of water stored between the minimum operating elevation and the full supply level is estimated to be 13.1 million cubic metres; and
  - ii) Surcharging the reservoir above the full supply level, drafting the reservoir to the full supply level and drafting the reservoir below the minimum operating elevation shall be done in accordance with the Operation, Maintenance and Surveillance Manual.
- (f) Water may be collected into storage, held in storage, and used throughout the whole year.
- (g) This licence is appurtenant to the undertaking as set out in Final Water Licence 119709.
- (h) The works authorized are a dam on the Buntzen Lake (PD42819), which are located as shown on the attached plan.
- (i) This licence is issued in substitution of Final Water Licence 8434.

Glen Davidson, P.Eng.  
Deputy Comptroller of Water Rights

File: 0241202

Final Water Licence: 119711



# Province of British Columbia

## *Water Act*

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### Order Section 88

File Nos.: 0241200, 0241202, and 0084341

WHEREAS, British Columbia Hydro and Power Authority (BC Hydro) is the operator of the Coquitlam-Buntzen Power Development, in respect of which it holds Final Water Licences 119711, 119709, and 119710;

WHEREAS, the works authorized by Final Water Licences 119711, 119709, and 119710 include a dam on the Coquitlam River (PD42777), with low level outlets and two fish-water release valves, and an intake on Coquitlam Lake (PD42776);

WHEREAS, the operation of the works can also benefit the viability of fish and fish habitat in the Coquitlam River and they have been regulated to provide fish benefits under an order dated December 16, 1998;

WHEREAS, BC Hydro has engaged in public consultation to determine values for system parameters and to develop operating procedures that may provide fisheries benefits as described above;

WHEREAS the licensee has submitted a Water Use Plan, which recommends changes to the operations of Coquitlam-Buntzen Power Development which are intended to provide specific benefits to fish and fish habitat;

WHEREAS, I have accepted the Water Use Plan for the Coquitlam-Buntzen Power Development, dated April 7, 2005; and

WHEREAS, BC Hydro has proposed a monitoring program to determine if operating the works in accordance with the operating parameters and procedures in the Coquitlam-Buntzen Water Use Plan will provide the expected benefits;

I HEREBY ORDER THAT:

1. The order dated December 16, 1998 is revoked.
2. From May 15 to September 30 during daylight hours the minimum operating level of Buntzen Lake Reservoir shall be 122.2 metres.
3. From the date of issue of this order through December 31, 2006 the licensee must operate the Coquitlam-Buntzen Power Development in accordance with Schedule A.
4. In lieu of ordering parameters and procedures which would result in more power values being foregone, the licensee must alter the water-release facilities of the Coquitlam Dam (PD42777) in accordance with Schedule B.

5. From January 1, 2007 until directed to do otherwise the licensee must operate the Coquitlam-Buntzen power development in accordance with Schedule C.
6. With respect to the rate of change of flow released from the Coquitlam Dam the licensee must adhere to the procedures as set out in Schedule D.
7. The maximum operating elevation of Coquitlam Lake Reservoir between October 1 and March 31 is 153.86 metres, at all other times the maximum operating elevation is 154.86 metres:
  - a. When the reservoir exceeds the maximum operating elevation water will be discharged from the power tunnel and through the low level outlets in order to control the reservoir to the maximum operating elevation;
  - b. If the flow in the Coquitlam River at the location of Water Survey of Canada Gauge 08MH002 exceeds 140 cubic metres per second the licensee shall reduce the flow from the low level outlets, to zero if necessary, in an attempt to limit the peak flow to 140 cubic meters per second at 08MH002. The two fish-water release valves may remain open at all times during this procedure.
8. To determine the effectiveness of the regulation of the works in accordance with 3, 5 and 6 above the licensee must undertake a monitoring program as set out in Schedule E.
9. With respect to the maintenance and provision of records the licensee must:
  - a. keep records of:
    - i. Coquitlam Lake Reservoir elevation;
    - ii. Buntzen Lake Reservoir elevation;
    - iii. Coquitlam Dam instream flow release; and
    - iv. Discharge through the tunnel to Buntzen Lake Reservoir.
  - b. Provide a written report to the Comptroller of Water Rights on or before February 1 of each year summarizing the records from the previous calendar year; and
  - c. Provide on request of the Comptroller of Water Rights records collected under 9.a.
10. The licensee may operate the works in an alternate manner in the event of an emergency, a dam safety requirement, or an extreme hydrological event.
11. All emergency operations or other deviations from operations ordered above must be reported to the Comptroller of Water Rights in a timely manner.

Dated at Victoria BC this 21st day of April, 2005



Glen Davidson, P.Eng.  
Deputy Comptroller of Water Rights



File: 76975-35 / Coquitlam  
0241200, 0241202, 0084341

*Licences*

*FWL 119711*

*119709*

*119710*

March 8, 2006

Mr. Cam Matheson  
Manager, Generation Operations  
BC Hydro  
13th Floor, 6911 Southpoint Drive  
Burnaby, BC V3N 4X8

Dear Mr. Matheson:

**Re: Coquitlam-Buntzen Water Use Plan Implementation Order Amendment**

A Section 88 order was issued April 21, 2005 to implement the Coquitlam Buntzen Water Use Plan.

Clause 8 of this order, directed the licensee to undertake monitoring as outlined in Schedule E of the order. As per Schedule E, the licensee has submitted terms of reference for the monitoring studies. Upon review of these terms of reference, it has become apparent that the study on "Habitat Suitability Criteria" is a research study, and therefore, not a monitoring study required by a Water Use Plan.

Therefore, I rescind that portion of Schedule E clause (2) which refers to the Habitat Suitability Criteria. This amendment is effective March 13, 2005.

Yours truly,

Glen Davidson, P.Eng.  
Deputy Comptroller of Water Rights

Enclosures

pc: Graeme Matthews, BC Hydro  
Ken Woo, Fisheries and Oceans Canada  
Ted Down, Ministry of Water, Land and Air Protection  
Livia Meret, Ministry of Attorney General

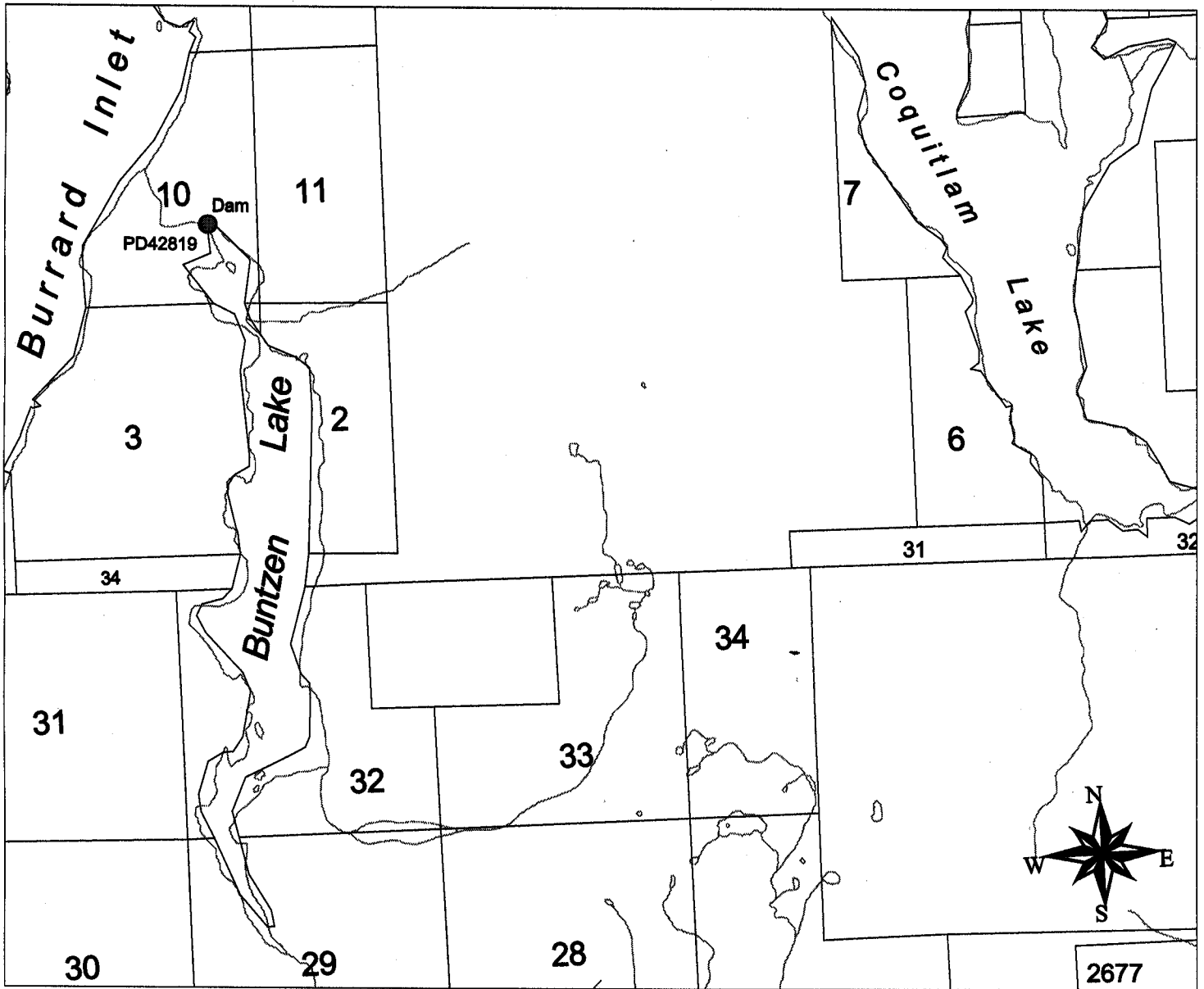
Ministry of  
Environment

Water Stewardship Division  
Management & Standards Branch  
Water Use Planning

Mailing Address:  
PO Box 9340 Stn Prov Govt  
Victoria BC V8W 9M1  
Telephone: (250) 387-6341  
Facsimile: (250) 953-5124

Location:  
3rd Floor  
1175 Douglas Street  
Victoria BC V8W 2E1





**WATER DISTRICT:**  
**PRECINCT:**  
**LAND DISTRICT:**

**VANCOUVER**  
**NORTH VANCOUVER**  
**NEW WESTMINSTER**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**LEGEND:**

Scale:  
Point of Diversion:  
Map Number:

1:40,000



WR 92G/7c,d

F.L. 119711 for F.L. 8434  
File 0241202