



November 3, 2015

File: 76915-20/D720001-00 & D720002-00

Stephen Ricketts
Manager of Construction
Engineering and Public Works
City of Nanaimo
455 Wallace St
Nanaimo BC V9R 5J6

Via Email: stephen.ricketts@nanaimo.ca

Dear Mr. Ricketts:

**Re: Lower Chase River Dam Auxiliary Spillway Phase II Construction
Leave to Commence Construction #2**

Thank you for your correspondence dated October 29, 2015 and for meeting with me on November 2, 2015. I acknowledge that the City of Nanaimo is requesting approval for construction of the Auxiliary Spillway (“Spillway”) for the Lower Chase River Dam (“Lower Dam”) continue to be granted by this office in phases. Phase II of construction consists of:

- a) Labyrinth Weir,
- b) Armored slope, and
- c) Bridge Structure

Pursuant to Conditional Water Licence C061423, held by the City of Nanaimo (the “City”), which authorizes the storage of 140 acre feet of water behind Lower Dam as part of the Colliery Dam system on Chase River for the purpose of Land Improvement, I refer to the following correspondence in respect of construction of the Spillway for Lower Dam:

- City of Nanaimo. October 29, 2015. *Lower Chase River Dam, Auxiliary Spillway*. Letter to Glen Davidson from Stephen Ricketts.
- Golder Associates. October 28, 2015. *Lower Colliery Dam Aux Spillway – Design Drawings*. Email from Bruce Downing, P.Eng. Golder Associates, to Stephen Ricketts.
- Golder Associates. October 22, 2015. *Geotechnical Design Recommendations Auxiliary Spillway, Lower Colliery Dam, Nanaimo, BC*. Technical Memorandum prepared for Herold Engineering Ltd.

Golder Associates Drawings

<u>Drawing No.</u>	<u>Drawing Title</u>
• G-01	Drawing Index and Site Location
• G-02	Test Hole Location Plan
• G-03	Interpreted Stratigraphic Profile
• G-04	General Arrangement Plan

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Ministry of Forests, Lands and
Natural Resource Operations
Resource Stewardship Division

Dam Safety Section
Water Management Branch

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Herold Engineering Drawings

<u>Drawing No.</u>	<u>Drawing Title</u>
• C-01	Intake Channel – Plan and Sections
• C-02	Sluice Gate Details
• C-03	Open Channel Armoring – Plan
• C-04	Open Channel Armoring – Sections
• C-05	Backfill Plan – Weir and Bridge
• C-06	Backfill Section

The information provided in the above noted correspondence meets the requirements of Sections 4 and 7.1 of the *BC Dam Safety Regulation*.

On November 2, 2015 I completed a site walk-over with you to observe the site conditions, the construction methodology of the secant pile wall, to meet with the Golder Associates Field Engineer, and to photograph construction progress to date. I found the site to be in good condition and the construction proceeding well.

I hereby grant Leave to Commence Construction for the LCC #2 works consisting of the construction of the Labyrinth Weir, Armored Slope, and Bridge Structure subject to the following conditions:

- a) Bruce Downing, P.Eng. is the Engineer of Record for the project,
- b) Bruce Downing will supervise construction of the project,
- c) Golder Associates and/or Herold Engineering will have a field engineer on site to inspect and document construction activities to verify construction of the Labyrinth Weir and Bridge Structure as detailed in the above listed documents,
- d) Minor changes to the Spillway excavation and foundation as well as the Armored slope may be made and documented at the discretion of Bruce Downing, major changes will require approval from this office,
- e) Minor changes to the Labyrinth Weir and Bridge construction may be made and documented at the discretion of Herold Engineering, major changes will require approval from this office, and
- f) The City provide monthly updates as well as details of key milestones to my office.

If you or your consultant has any questions regarding this leave to commence construction, please direct them to my attention or to Wenda Mason or Scott Morgan.

Sincerely,



Robert McLean, P.Eng.
Senior Dam Safety Engineer

pc: Ted Swabey, City Manager, City of Nanaimo
Toby Seward, Acting GM Community Development & Protective Svcs, City of Nanaimo
Glen Davidson, P.Eng. Comptroller of Water Rights, WMB, FLNR
Wenda Mason, Manager, River Forecast Centre & Dam Safety Section, WMB, FLNR
Scott Morgan, Head, Dam Safety Section, WMB, FLNR