IN THE MATTER OF THE *ENVIRONMENTAL ASSESSMENT ACT* S.B.C. 2002, c.43 (ACT)

AND

IN THE MATTER OF ENVIRONMENTAL ASSESSMENT CERTIFICATE #E14-02 HELD BY BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

FOR THE SITE C CLEAN ENERGY PROJECT

AMENDMENT #3 (AMENDMENT) TO CERTIFICATE #E14-02

WHEREAS:

- A. On October 14, 2014, the Minister of Environment, and the Minister of Energy, Mines, Petroleum Resources, issued Environmental Assessment Certificate #E14-02 (Certificate) to British Columbia Hydro and Power Authority.
- B. The Certificate authorized British Columbia Hydro and Power Authority (BC Hydro) to construct and operate the Site C Clean Energy Project 7 km south west of Fort St. John, BC.
- C. On June 22, 2018, the Certificate was amended (Amendment #1) to revise the design of the generating station and spillway of the Site C Clean Energy Project.
- D. On October 26, 2018, the Certificate was amended (Amendment #2) to lengthen Halfway River Bridge to address geotechnical concerns.
- E. On July 24, 2018, British Columbia Hydro and Power Authority submitted an application to amend the Certificate, Section 4.3.5.2.3, Section 4.3.5.2.4, Table 4.7, and Table 4.9 of Schedule A (Amendment #3). BC Hydro requested the amendment to allow for use of aggregate material from West Pine Quarry for the purposes of construction of the Highway 29 realignment, shoreline protection near Hudson's Hope, and areas along the reservoir requiring protection during reservoir filling.
- F. Pursuant to Section 4 of the Act, the Executive Director has delegated to the undersigned, powers and duties under the Act, including the power to consider requests for certificate amendments.

NOW THEREFORE,

I amend the Certificate as follows:

Section 4.3.5.2.3, West Pine Quarry, of Schedule A which reads:

Permanent riprap and bedding material would be required for the upstream face of the dam, approach channel lining, containment dikes, coffer dams,

some parts of the diversion tunnel inlet and outlet channels, the tailrace, and the discharge channel. The source of this permanent riprap and bedding material is the West Pine Quarry, located on provincial crown land approximately 75 km southwest of Chetwynd along Highway 97 (approximately 160 km from the Project Site).

There are currently two transportation options under consideration for the permanent riprap and bedding material:

- 1. Use the existing railway siding at the quarry and haul the material to the site by rail; one train per day would be required. Riprap and bedding would be unloaded at the Septimus Siding in the dam site area and moved to a stockpile. An extension of the siding may be required within the quarry. Due to breakage during extra handling. More rock would have to be quarried with this option.
- 2. Haul the material directly to the dam site area using highway-rated haul trucks, using both existing public roads and the Project access road (see Section 4.3.7).

The transportation option would be selected by the contractor(s) using the riprap and bedding. For the purposes of Environmental Assessment, the trucking option has been assumed, as while it has less quarrying it has the greater footprint.

Is repealed and replaced with:

Permanent riprap and bedding material will be required for the upstream face of the dam, approach channel lining, containment dikes, coffer dams, some parts of the diversion tunnel inlet and outlet channels, the tailrace, the discharge channel, Highway 29 construction, Hudson's Hope shoreline protection, and for areas along the reservoir requiring protection during reservoir filling.

There are currently two transportation options under consideration for the permanent riprap and bedding material:

- 1. Use the existing railway siding at the Quarry and haul the material to the site by rail; one train per day will be required. Riprap and bedding will be unloaded at the Septimus Siding in the dam site area and moved to a stockpile. An extension of the siding may be required within the quarry. Due to breakage during extra handling. More rock would have to be quarried with this option.
- 2. Haul material directly to the dam site area, Highway 29 realignment segments, Hudson's Hope Shoreline Protection, and areas of the reservoir requiring protection during reservoir filling using highway-rated haul trucks on existing public roads and Project access roads (See Section 4.3.7).

The transportation option will be selected by the contractor(s) using the riprap and bedding. For the purposes of Environmental Assessment, the trucking option was assessed.

Section 4.3.5.2.4 Portage Mountain Quarry of Schedule A which reads:

Permanent riprap and bedding material for the Hudson's Hope shoreline protection, for areas along the reservoir requiring protection during reservoir filling and for Highway 29 construction would be sourced from Portage Mountain, 16 km southwest of Hudson's Hope.

Excavated material would be transported from the quarry to the construction site using highway haul trucks via the access roads described in the development plan and existing public roads.

Is repealed and replaced with:

Permanent riprap and bedding material for the Hudson's Hope shoreline protection, for areas along the reservoir requiring protection during reservoir filling and for Highway 29 construction will be sourced from Portage Mountain, 16 km southwest of Hudson's Hope or from West Pine Quarry, 138 km southwest of Hudson's Hope.

Excavated material will be transported from the quarry to the construction site using highway haul trucks via the access roads described in the development plan and existing public roads.

Table 4.7 Approximate Quantities of Materials for Highway 29, Access Roads, and Hudson's Hope Shoreline Protection, the first sub-column heading is changed to:

"Portage Mountain Quarry or West Pine Quarry".

Table 4.9 Approximate Quantities of Unsuitable and Surplus Materials for Highway 29, Access Roads, and Hudson's Hope Shoreline Protection the first sub-column heading is changed to:

"Portage Mountain Quarry or West Pine Quarry".

I also amend the Certificate by adding condition #79 to Schedule B as follows:

West Pine Haul Route Traffic Management Plan

1. The Holder must develop a West Pine Haul Route Traffic Management Plan (the "Plan") regarding use of the West Pine Haul Route by the Holder. The West Pine Haul Route (see Appendix A of this Order) comprises Highway 97 to Chetwynd, Highway 29 through Hudson's Hope to the Highway 29 realignment sites. The Plan must be developed in consultation with Saulteau First Nations, West Moberly First Nations, the District of Hudson's Hope, the District of Chetwynd, and the Peace River Regional District (the "Affected Communities") and the Ministry of Transportation and Infrastructure (MOTI).

- 2. The Plan must be developed to the satisfaction of the EAO and include at least the following:
 - a) Identify potential adverse effects related to traffic along the West Pine Haul Route and measures to mitigate those effects of West Pine Quarry haul truck traffic on the West Pine Haul Route, including identification of locations to monitor haul truck traffic counts and the means by which the Holder will conduct monitoring for haul truck traffic counts;
 - b) The means by which the Holder will identify additional mitigation measures if the measures referred to in paragraph (a) are not sufficient to mitigate the effects identified in paragraph (a);
 - c) The means by which the Holder will provide, at a minimum, monthly updates to the Affected Communities regarding the Holder's use of the West Pine Haul Route;
 - d) A process for communication and data sharing that must occur, at minimum, on a monthly basis with the Ministry of Transportation and Infrastructure; and
 - e) Data referred to in d), at a minimum, must include records of the location of traffic accidents, the location of any traffic related fatalities, complaints received from the public, and wildlife mortality attributable to the Holder's use of the West Pine Haul Route.
- 3. The Holder must provide this Plan to the EAO, the Affected Communities, and MOTI a minimum of 30 days prior to the planned commencement of use of the West Pine Haul Route for the purposes of transporting materials from the West Pine Quarry to Highway 29 realignment segments, Shoreline Protection sites in Hudson's Hope, and areas of the reservoir requiring protection during reservoir filling.

The EAO may, within 30 days of receiving the Plan, advise that:

- a) The Holder may proceed to implement the Plan with or without revisions;
 or
- b) A revised Plan, must be provided for approval of the EAO prior to commencement of use of the West Pine Haul Route for the purposes of transporting materials from the West Pine Quarry to Highway 29 realignment segments, Shoreline Protection sites in Hudson's Hope, and areas of the reservoir requiring protection during reservoir filling.

If the EAO advises that pursuant to paragraphs 3 (a) or (b) changes are required to the Plan, then the Holder must follow the instructions of the EAO in that regard.

- 4. At the time of submitting the Plan to the EAO, the Holder must also provide the EAO a consultation report setting out the following:
 - a) A list of the invitees and an example of the invitation sent to the Affected Communities and MOTI to participate and provide their views including the timeframe for providing such views, on the Plan; and
 - b) How the views and information provided by the Affected Communities and MOTI to the Holder have been considered and addressed in the Plan; or
 - c) Why such views and information have not been addressed in the Plan.

5. The Holder must:

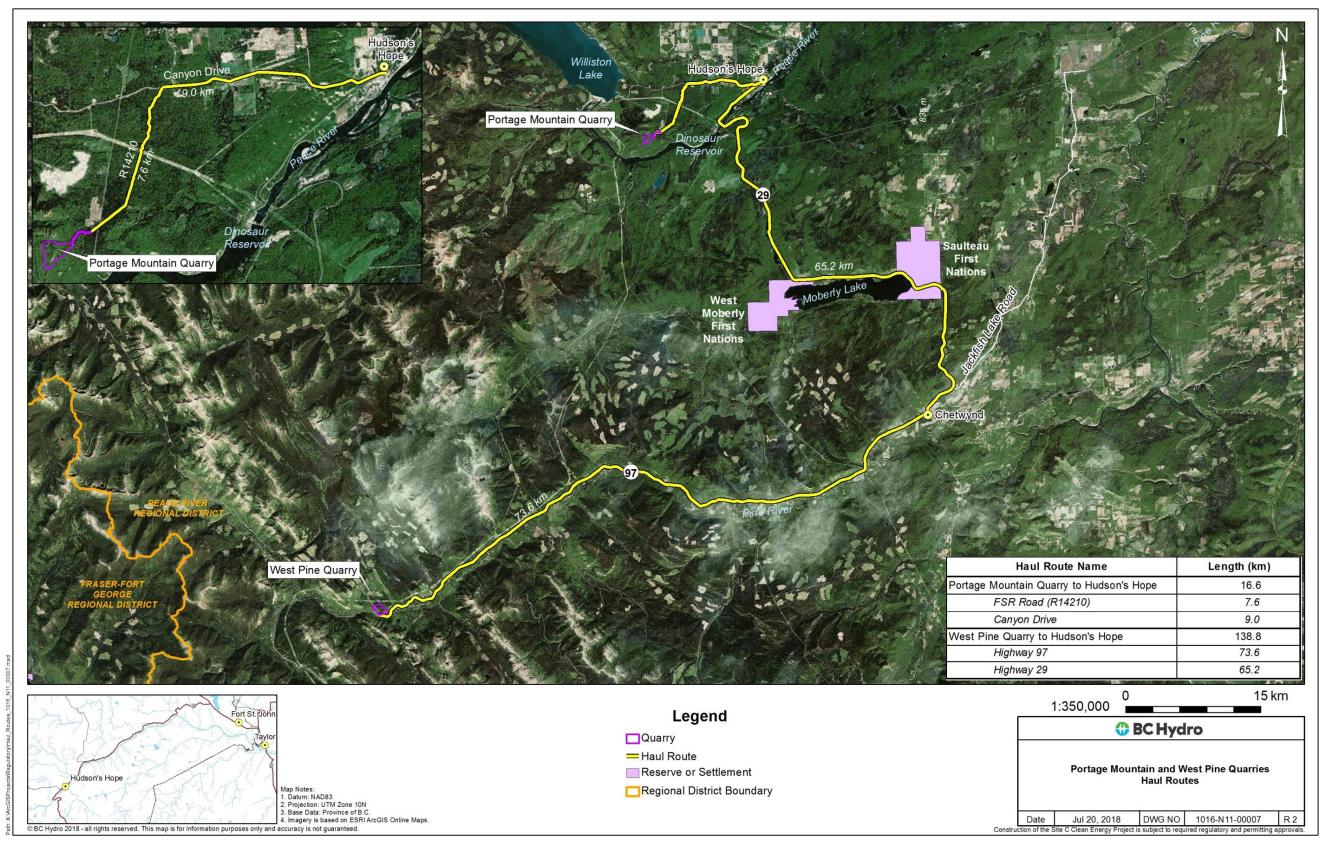
- a) Maintain a record of the consultation referred to in paragraphs 1 and 3 and the comments provided by the Affected Communities, MOTI and the EAO under paragraph 3, above; and
- b) Provide a copy of the consultation report, required under paragraph 4 of this condition, to the EAO, the Affected Communities, MOTI, or all three parties, within 15 days of the Holder receiving a written request from the EAO, an Affected Community, or MOTI.

The Plan, and any amendments thereto, must be implemented to the satisfaction of the EAO throughout the duration of use of the West Pine Haul Route for the purposes of transporting materials from the West Pine Quarry to Highway 29 realignment segments, Shoreline Protection sites in Hudson's Hope, and areas of the reservoir requiring protection during reservoir filling.

Scott Bailey

Assistant Deputy Minister, Environmental Assessment Operations Environmental Assessment Office

Issued this 14th day of November, 2018



Appendix A. Location of Portage Mountain and West Pine Quarries and proposed haul routes from each quarry.