APPROVAL

APPLICANT: BC Hydro
Ste 600, Four Bentall Centre, 1055 Dunsmuir St, PO Box 49260
Vancouver, British Columbia V7X 1V5

WORK: Embankment
Causeway

SITE LOCATION: Located at approximately 56.10676, -121.80776,
Peace River, located on unsurveyed Crown Lands including the beds,
foreshore of the Peace River and the Peace River within Section 10,
Section 11, Section 13, Section 14 and Section 15, Township 82, Range
25, Peace River District in the province of British Columbia

As per the application (detailed above) to the Minister of Transport, submitted pursuant to the Canadian Navigable Waters Act, for an approval of the work per the fourteen (14) attached plan(s), the Minister hereby approves the work pursuant to subsection 7(6) for the construction of the above mentioned work, in accordance with the following terms and conditions:

1. The CNWA Approval and its Terms and Conditions shall be posted at an easily accessible place at the worksite, and be provided to the contractor conducting the work.

2. The owner shall provide information about the causeway location and side channel obstruction using the Boater Communications Protocol, and post the information on the owner website, on a page related to the project.

3. Upon commencement of the construction of the causeways, install and maintain warning signs, advising of the obstruction of the side channel and an arrow indicating the direction of the main channel. Signs shall be a minimum of 72” x 48”, a white background with black lettering, the size of the text shall be at least 15cm tall with the word “WARNING” at 1.5 times the size of the message text. Signs shall be placed on either side of the side channel at the upstream and downstream confluence with the main Peace River channel.

4. During construction, the outermost extent of each causeway above the surface shall be marked with orange Hi-visibility markers on the upstream and downstream corners.

5. During construction, the outermost extent of each causeway above the surface shall be marked with a flashing yellow light on the upstream and downstream corners.
6. During construction of the causeways, machinery left in the water during periods of darkness or limited visibility shall be marked with a flashing yellow light, visible to upstream and downstream traffic.

7. Post construction, the causeways shall be marked with orange Hi-visibility markers, evenly spaced every 20m on the upstream side of causeway #1, and downstream sides of causeways #2 and #3, until the causeways are submerged due to inundation.

8. Post construction, the causeways shall be marked with flashing yellow lights, evenly spaced every 40m on the upstream side of causeway #1, and at midspan on downstream sides of causeways #2 and #3, until the causeways are submerged due to inundation.

9. Once the causeways are submerged due to inundation, yellow buoys shall be placed and maintained at the location of the causeways. Buoys are to be no more than 20 metres apart and no less than 0.6 metres in diameter. Horizontal bands of yellow reflective tape, not less than 10 cm in width and 15 cm in length, shall be either placed at intervals around the horizontal circumference of the buoys or displayed from suitable topmarks that are visible from all directions. Buoys shall remain in place until the water elevation at the causeway location reaches 5m greater than the top in-river elevation of the causeway.

SIGNED on December 2, 2019 in Pacific

Jonn Leeden  
Navalation Protection Program  
Programs Group  
Transport Canada  
Pacific Region  
For the Minister of Transport

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NOTE: EMBANKMENT SLOPES SHOWN ARE ANTICIPATED CONSTRUCTION SLOPES AND ARE SUBJECT TO CHANGE WITH GEOFTECNICAL RECOMMENDATIONS

FOR REFERENCE ONLY

DRAFT
FUNCTIONAL DESIGN - JULY 4, 2019
NOTES:

1. CLEARING AND GRUBBING BETWEEN THE SOUTH EXISTING EDGE OF PAVEMENT AND THE EDGE OF WATER UNLESS OTHERWISE SHOWN.
2. EXTEND ALL EXISTING CULVERTS THROUGH PROPOSED EMBANKMENT.

LEGEND:
- MAXIMUM NORMAL REDEEMER LINE (SMALL)
- STABILIZATION LINE (SMALL)
- EROSION PROTECTION LINE (DARKER)
- FLOODPLAIN LINE (FULL)

CLEARING AND GRUBBING TOTAL SHEET: 13.1 ha

PRELIMINARY DESIGN - JUNE 26, 2019