Navigation Protection Program Programs Group Transport Canada

Our file: **2019-501301** 

## **APPROVAL**

APPLICANT: Michael McArthur

9th Floor - 1111 Georgia St West

Vancouver, BC, V6E 4M3

WORK: Debris Boom

Launching Ramp

SITE LOCATION: located at -120.93832 - 56.21262, on the 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 attached four (4) plans, the Minister hereby amends the approval to the work pursuant to subsection 9(3)(d) 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. In the event that the construction or the operation of the above works is terminated, it will be the proponent's responsibility to remove the works and associated equipment in its entirety including any anchors and pilings. The banks and bed of the waterway disturbed by the works are to be contoured to match the local conditions.
- 3. The owner shall provide information about any temporary closures to vessel traffic using the Boater Communications Protocol, and post the information on the owner website, on a page related to the project.
- 4. Any construction equipment anchored or left in or on the waterway overnight shall be marked with a yellow flashing light placed on the extremity closest to the middle of the channel, so as to be visible to upstream and downstream traffic.
- 5. A safe navigation channel shall be maintained during construction. When construction activities require channel closures to ensure public safety they will be communicated 5 days in advance using the Boater Communication Protocol.
- 6. A buoy shall be placed at the midpoint of the boom. The buoy and both ends of the boom shall have a flashing yellow light, and display a 0.5 second flash every 4 seconds, with a minimum nominal range of 1 nautical mile. The lights shall be in operation during periods of darkness or limited visibility. The proponent shall inspect the lights weekly to ensure that they are functioning.
- 7. A minimum of 3 yellow cautionary buoys, no less than 1 meter in diameter, with one placed at each end and one at the midpoint of the boom, are to be equally spaced and maintained along the boom. A minimum of two horizontal bands of yellow retro reflective tape not less than 10 cm in width x 15 cm in length shall be placed around the horizontal circumference of the buoys, and be visible from all directions. All buoys shall have a flashing yellow light at the top displaying a 0.5 second flash every 4 seconds, with a minimum nominal range of 1 nautical mile. The proponent shall regularly inspect the buoys to ensure the lights are functioning.



- 8. The proponent shall commence with the Boater Communication Protocol and required communications 30 days prior to the installation of the boom, advising users of the boom installation date, and information regarding the portage system.
- 9. As built plans of the works are to be forwarded to Transport Canada upon completion of the project.
- 10. The proponent shall inspect the boom every two weeks or within 24 hours of a significant weather event.
- 11. The proponent shall install and implement the Peace River Diversion Public Safety Signage Plan, approved by Transport Canada, and as amended from time to time by BC Hydro, and be in accordance with the Canadian Dam Association Technical Bulletin on Public Safety around Dams, 2011 or as updated.

## Portage System for the Temporary Debris Boom

- 12. The Portage Terms and Conditions #12 to #16 of this permit shall supersede Terms and Conditions #9 to #12, and Appendix A of the approval for the Main Civil Works (NPA File #2008-500822) until the river is:
  - Physically closed by the work approved under the Navigation Protection Act (NPA), File #2008-500822; or
  - The temporary boom for which this portage condition applies is removed; or
  - In the opinion of Transport Canada, it is deemed unsafe for transit.
- 13. The proponent shall keep a record of the number of portages that were conducted during its first operating period (May 15, 2020 to September 15, 2020), as well as the date, time, type of vessel and the number of passengers. The record shall be discussed with Transport Canada by December 31, 2020 to determine if changes to the portage system are required.
- 14. A non-motorized vessel portage system includes appropriate boat launches and the transportation of non-motorized vessels, and allowable passengers for each such vessel. The owner is only required to portage non-motorized vessels that are already waterborne, that have arrived by water to the boat launch from another location and have met the notification requirements.
- 15. The owner is required to portage up to the allowable number of passengers based on the certified capacity of the portaged vessel. The owner can request this information as part of its notification requirements.

## The owner shall:

- (a) Between May 15 and September 15, provide a portage system operating in both directions from downstream of the construction zone to upstream of the construction zone to transiting non-motorized vessels between the hours of 7am and 7pm daily. The portage system shall be able to transport the non-motorized watercraft typically transiting the river.
- (b) Post notice of the suspension of service and post the reason for the suspension of service on the BC Hydro website or at the point of reservation, and at the portage locations, if the portage system is not in operation at any time during the operating period of May 15 and September 15, or the reservoir is being filled.
- (c) Operate the portage system if provided notification 7 days in advance, unless multiple vessels and transiting together (a public or groups event) in which case a minimum of 2 weeks notice is required.



- (d) Provide adequate information about the portage systems and notification requirements using the Boater Communications Protocol; and
  - i. For the initial start of the portage systems, publicize in regional newspapers bi-weekly for the first month, weekly for the next 2 months (can be combined with river closure information) ii. For subsequent years of construction, publicize weekly for the months of April, May and
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  - iii. Permanently post notice at the Peace Island Park boat launch
  - iv. Permanently post notice at the Halfway river boat launch
  - v. Permanently post notice at the Lynx Creek boat launch
  - vi. Post portage information on the owner website, on a page related to the project
- 16. Install and maintain a sign on the opposite bank of the portage indicating that the portage is on the opposite side. The sign shall be a minimum of 72" x 48", a white background with black lettering. The sign is to be emplaced prior to and for the duration of the boom, until the river is closed by other permanent works.

SIGNED on April 3, 2020 in Pacific

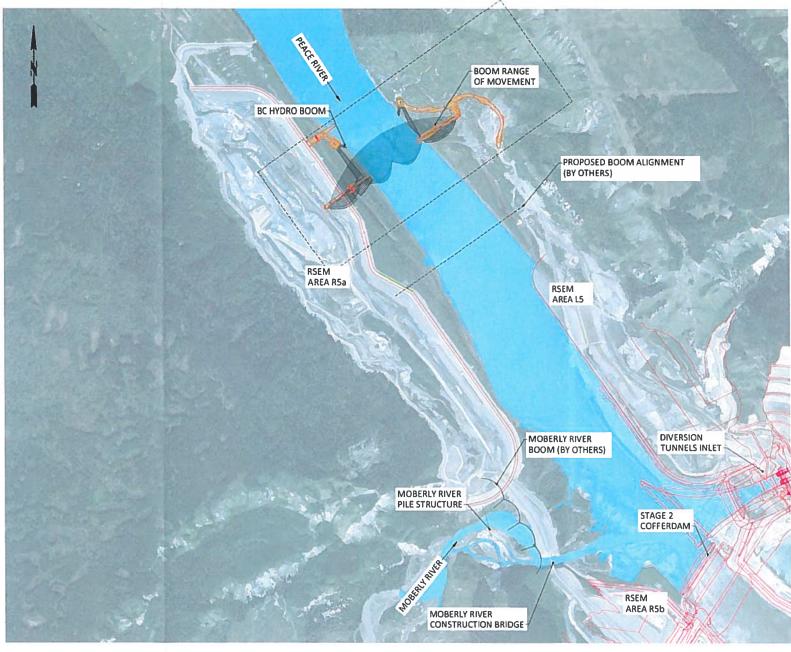
Eric Leung Navigation Protection Program Programs Group Transport Canada Pacific Region

For the Minister of Transport



## CLEAN ENERGY PROJECT - SITE C DEBRIS MANAGEMENT - PEACE RIVER DEBRIS BOOM

DRAWING INDEX		
DRAWING NUMBER	Trit.E	REVISIO
1016-C18-01021	DRAWING INDEX AND GENERAL SITE OVERVIEW	0
1016-C18-O1022	GENERAL NOTES	0
1016-CLB-01023	STRUCTURAL NOTES	
1016-C18-01024	EARTHWORKS AND ACCESS GENERAL ARRANGEMENT	0
1016-C18-01025	EARTHWORKS AND ACCESS - RIGHT BANK - PROFILE AND SECTION	0
1016-C18-O1026	EARTHWORKS AND ACCESS - LEFT BANK - PROFILE AND SECTION	0
1016-C18-O1027	TYPICAL PEACE RIVER STAGE - CPERATION PLAN AND PROFILE	0
1016-C18-0102-B	HIGH PEACE RIVER STAGE - OPERATION PLAN AND PROFILE	0
1016-C18-01029	PONTOON - PLAN, SECTIONS, DETAILS, AND SCHEDULE	0
1016-C18-01030	PONTOON - TYPICAL DETAILS	0
1016-C18-01031	PONTOON - STRUCTURAL LAYOUT - SECTIONS AND DETAILS	0
1016-018-01033	STEEL FLOAT - PLAN AND SECTIONS	0
1016-C18-C1034	STEEL FID AT DETAILS	0
1016-C18-01035	STEEL FLOAT - JUNCTION PLATES - PLAN AND SECTIONS	0
1016-C18-01037	ANCHORS - UPSTREAM - GENERAL ARRANGEMENT	0
1016-018-01038	ANCHORS - UPSTREAM - CONCRETE OUTLINE - PLANS AND SECTIONS	0
1016-C18-01039	ANCHORS - UPSTREAM - REINFORCEMENT - PLANS AND SECTIONS	0
1016-C18-01041	ANCHORS - DOWNSTREAM - GENERAL ARRANGEMENT	0
1016-C18-01042	ANCHORS - DOWNSTREAM - CONCRETE OUTLINE - PLANS AND SECTIONS	0
1016-C18-01043	ANCHORS - DOWNSTREAM - RE:NFORCEMENT - PLANS AND SECTIONS	0
1016-C18-01045	ANCHORS - UPSTREAM - STEEL EMBEDIMENTS - TYPE 1 - SECTIONS AND DETAILS	0
1016-C18-O1046	ANCHORS - DOWNSTREAM - STEEL EMBEDMENTS - TYPE 2 AND 3 - SECTIONS AND DETAILS	0



SITE LAYOUT SCALE 1:5000

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FEB 2 6 2020

By/par: ERLE LEUNG

Navigation Protection Program /
Programme de protection de la navigation

REFERENCE DRAWINGS

ISSUED FOR CONSTRUCTION

ATTE DE LEAM CONTROL DE LE CON

