Site C Clean Energy Project WARNING BUOYS

Notice of Works

Canadian Navigable Waters Act

June 17, 2024

Submitted to:

Transport Canada Suite 620-800 Burrard Street Vancouver BC V6Z 2J8

Submitted by:

British Columbian Hydro and Power Authority Site C Clean Energy Project 333 Dunsmuir Street Vancouver BC V6B 5R3

INTRODUCTION

The Canadian Navigable Waters Act (CNWA) regulates the works that are in, on, over, under, through or across any navigable water in Canada. The CNWA includes a schedule of navigable waters requiring regulatory approval for works that risk a substantial interference with navigation. As part of the CNWA, the Minor Works Order is used to identify works that are likely to slightly interfere with navigation. Minor works require proponents to deposit a Notice of Work with Transport Canada. BC Hydro seeks approvals under the CNWA for works related to the construction and operation of the Site C Clean Energy Project (the Project) that occur on, over, under or through navigable waterways.

BC Hydro will commence reservoir filling for the Site C reservoir in the fall of 2024. Initial operations are planned to begin in the winter of 2024. The reservoir will be closed to the public during reservoir filling and for at least 1 year after inundation is complete. Once the Site C reservoir is operational and deemed safe for public access, BC Hydro will provide information to the public both online and at the boat launches indicating hazardous areas within the reservoir and the shoreline.

The section of the reservoir for a distance of approximately 2.5 km upstream of the damsite is referred to as the headpond has both dangerous and hazardous zones unique to the rest of the reservoir. BC Hydro has conducted a risk assessment of this portion of the reservoir and is proposing the installation of warning buoys at the start of the headpond.

This Notice of Work is being submitted for the installation of a total of 10 warning buoys at the start of the headpond of the Site C reservoir. The proposed locations of buoy installations as well as contour information are shown in attached Appendix A. These buoys will serve as an additional safety measure to warn users of the channel of hazards in the area.

PUBLIC USE AND HAZARDS

Once the Site C reservoir is operational and deemed safe for users, it is anticipated that there will be extensive boating throughout the entire length of the reservoir. To mitigate risks to public safety, BC Hydro is implementing measures to alert the public about the hazards within the reservoir and dangers at the headpond, approach channel and at the Site C damsite. In conjunction with information both online and at the boat launches, signage will be installed along the banks of the Peace River warning the public of hazards.

BC Hydro is also implementing safety measures at the approach channel where water is directed into the penstocks and spillway. There will be signage warning the public of increased hazards at the approach channel. Additionally BC Hydro will install a permanent debris boom at the start of the approach channel approximately 400m upstream of the dam and powerhouse. The purpose of the permanent debris is capture debris and serve as a physical barrier from entry to the area.

During periods of higher flows, the headpond will experience stronger currents, undercurrents and turbulence. To warn the public of the dangers of entering the area, BC Hydro is proposing the installation of 10 warning buoys as an additional control measure at this section of the reservoir.

DESCRIPTION OF WORK AND ACCESS

The proposed warning buoys will be installed prior to the commencement of reservoir filling on mainly dry land that will form part of the riverbed after inundation. The warning buoys will be installed individually and will be connected by chains to a single anchor chain that will sit across the bottom of the reservoir. This anchor chain will link the buoys to two existing sled anchors, and to lock block sled anchors located at the north and south banks. Installation will occur from left bank to right bank of the Peace River, using a winch line and boats. A Safety Management Plan has been developed for this work.

As shown in Appendix A, the distance between the buoys is approximately 100 m, allowing boaters to navigate through in case of emergency. Construction specifications, details of the anchor plates, rock anchor and buoy layouts are shown in attached Appendix B Issued for Construction drawings. Access and transport of equipment and materials to the anchors will be by boat, excavators, dozers and A-frame trailer with a long boom and hook on the end. BC Hydro will source all equipment and materials that will meet the minimum Transport Canada, Canadian Coast Guard guidelines and Private Buoys Regulations.

All information set out in the Component Application Package is based on construction planning at the time of application. Activities may be somewhat different depending on final design and procurement, including contractors' preferences for equipment, sequencing of activities and construction means and methods. All activities will be carried out in accordance with the Site C Construction Environmental Management Plan (CEMP).¹

LOCATION

Anchor Location coordinates:

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Anchor 1: Lat: 56.2068569 Long: -120.9432278 (Existing Sled Anchor) Anchor 2: Lat: 56.2092491 Long: -120.9367181 (Existing Lock Block) Anchor 3: Lat: 56.2109915 Long: -120.9319754 (Existing Lock Block) Anchor 4: Lat: 56.2119742 Long: -120.9293001 (Existing Sled Anchor)
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Buoy Location coordinates:

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HB1: Lat: 56.2066016 Long: -120.941381364
HB3: Lat: 56.2075905 Long: -120.938690267
HB5: Lat: 56.2085794 Long: -120.935999034
HB7: Lat: 56.2095682 Long: -120.933307680
HB9: Lat: 56.2105569 Long: -120.930616149
HB0: Lat: 56.2105569 Long: -120.930616149
HB2: Lat: 56.2070960 Long: -120.9373446
HB4: Lat: 56.2080849 Long: -120.9373446
HB6: Lat: 56.2090738 Long: -120.9346533
HB8: Lat: 56.2100626 Long: -120.9319619
HB10: Lat: 56.211051 Long: -120.9292703
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SCHEDULE

The warning buoys and their anchors will be constructed and installed between July and August of 2024 during periods of low flows in the Peace River.

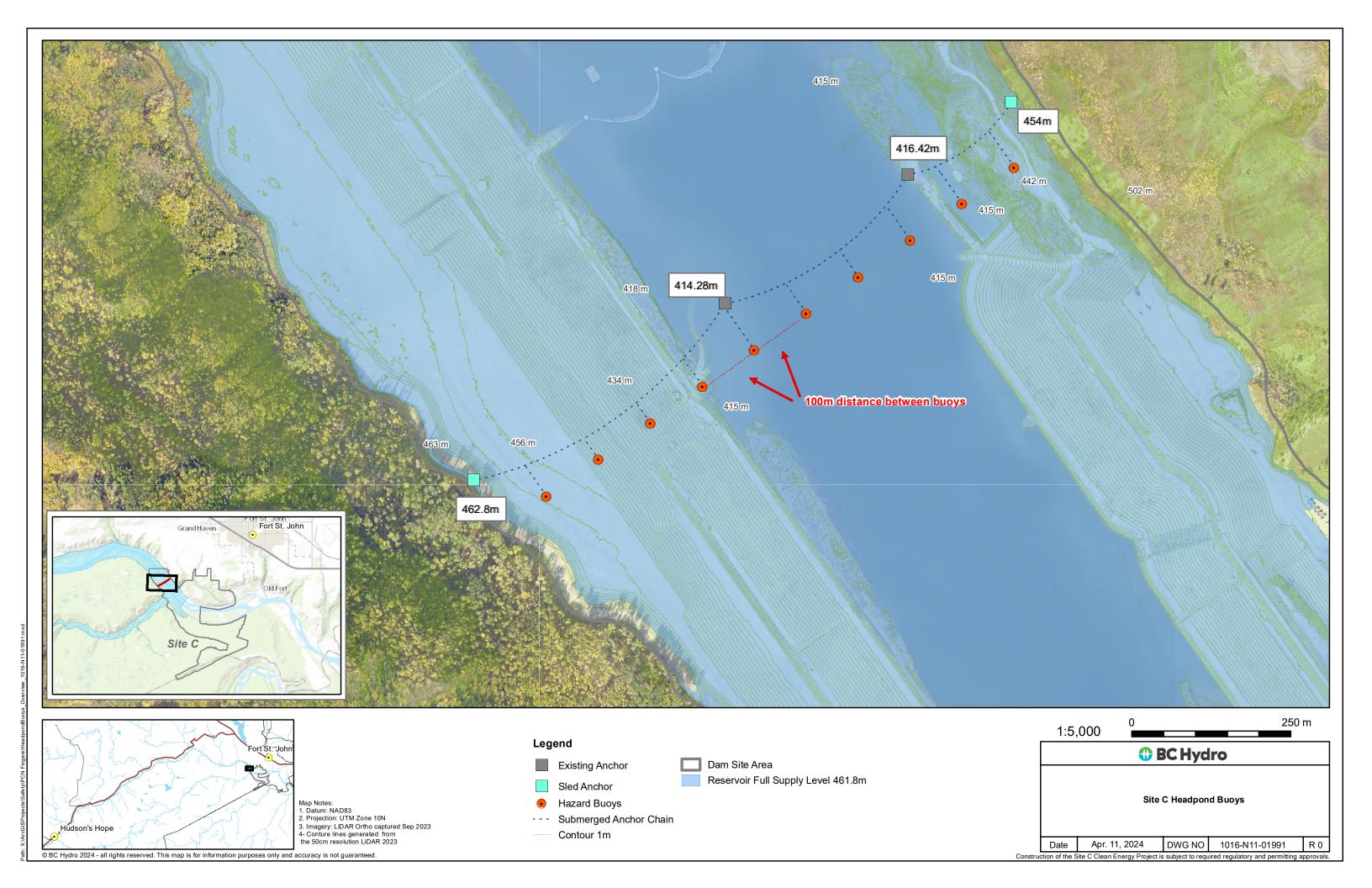
PUBLIC BOATER ACCESS

Communication to boaters will be done in accordance with the Boater Communication Protocol² set out in the Project's Construction Safety Management Plan and forthcoming Operations Safety Management Plan, as well as conditions included as part of any issued CNWA or Conditional Water Licences approvals.

¹https://www.sitecproject.com/sites/default/files/construction-environmental-management-plan-CEMP-rev-11_0.pdf

² https://www.sitecproject.com/sites/default/files/construction-safety-management-plan-revision-2-20220309.pdf

Appendix A 1016-N11-01991 Location and Contour Map



Appendix B Issued for Construction Drawings

