SITE C CLEAN ENERGY PROJECT

Component Application Package – Cache Creek Detour Bridge

Application for Approval
For Canadian Navigable Waters Act

March 30, 2020

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INTRODUCTION

The Canadian Navigable Waters Act (CNWA) came into force on August 28, 2019. The CNWA includes a Schedule of navigable waters requiring regulatory approval for works that risk a substantial interference with navigation. Cache Creek is a tributary to the Peace River and is not a CNWA Schedule watercourse. This application for approval under the CNWA is submitted for a temporary bridge crossing over Cache Creek. The bridge is planned for a location ~15m downstream of the existing Highway 29 bridge (See map Figure in Appendix A).

This approximately 50m-long bridge crossing would be part of an approximately 600m-long detour for vehicle traffic. The bridge would have 2 piers, and is needed should Peace River levels become equal or greater than 433m elevation this detour represents an alternative access route for Highway 29 traffic. The detour bridge and associated works may be left in place and inundated by the future reservoir, hence becoming a works in a CNWA Schedule watercourse (Peace River). The design drawing showing the bridge general arrangement is included in the Appendix B.

Location and Land Description

The detour bridge would be located at 56.27500 -121.237146. This location is approximately 2 river kilometers upstream of the Cache Creek confluence with the Peace River.

The works would be located on Crown land with the following description:

Highway located on the North West 1/4 of Section 10 Township 84 Range 21 West of the 6th Meridian Peace River District as shown on Plans 24410 PGP38491 EPP67084 and EPP67083; and

The North West 1/4 of Section 10 Township 84 Range 21 West of the 6th Meridian Peace River District Except Plans 24410 PGP38491 EPP67084 and EPP67083

HIGHWAY 29 REALIGNMENT BRIDGE REPLACEMENTS – PRELIMINARY CONSTRUCTION SCHEDULE

The following information on the preliminary construction schedule for each of the Highway 29 bridge replacements is provided for context to support this application that is specific to Cache Creek.

As described in Section 4 of the Site C Environmental Impact Statement (EIS), Highway 29 connects Hudson’s Hope to Fort St. John and runs along the north side of the Peace River. It is a two lane rural arterial undivided highway under the jurisdiction of the BC Ministry of Transportation and Infrastructure (BCMoTI). Creation of the reservoir will require realignment of approximately 30km of existing highway at Lnyx Creek, Dry Creek, Farrell Creek, Halfway River and Cache Creek. Bridges sited at these locations will have to be replaced. In anticipation of the potential future navigation use, the vertical and horizontal clearance requirements to support navigation, as mandated by the CNWA, have been taken into account in the bridge design.
The preliminary construction schedule for the Highway 29 realignment and bridge replacement is outlined below.

### Table 1: Preliminary Construction Schedule - Highway 29 Bridge Replacements

<table>
<thead>
<tr>
<th>Bridge</th>
<th>Commencement</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halfway River</td>
<td>Late Summer / Fall</td>
<td>Fall of 2022</td>
</tr>
<tr>
<td>Cache Creek</td>
<td>Late Fall / Winter</td>
<td>Fall of 2022</td>
</tr>
<tr>
<td>Farrell Creek</td>
<td>Summer 2020</td>
<td>Fall of 2022</td>
</tr>
<tr>
<td>Lynx Creek</td>
<td>Summer 2020</td>
<td>Fall of 2022</td>
</tr>
</tbody>
</table>

The construction schedule is indicative only and subject to change. The Purpose of the schedule is to illustrate the general sequence of construction activities, but the dates and schedule may change.

The detour construction at Cache Creek is planned to begin in August / September 2020.

## 3 PUBLIC BOATER ACCESS

Construction of the detour bridge and associated overhead works will require temporary closures to boater traffic in the Cache Creek section under and adjacent to the detour bridge. These closures would be in place for construction tasks that pose substantive hazards to the public in the immediate area.

Communication to boaters ahead of river closures would be done in accordance with conditions in any issued CNWA permit, including use of local newspaper advertisements. All closures and communications would be done by implementing the Site C Public Safety Management Plan.

Signs will be posted on the north bank of the Peace River to alert approaching boaters that there is a bridge ahead. Each bridge pier would be marked for upstream and downstream boaters. Markers would be located at an elevation that is visible under the full range of river levels.

## 4 CONSULTATION

Consultation with Indigenous groups regarding the Cache Creek detour was presented during the Permitting Forum held in September 11th 2019 in Fort St. John.
Appendix A Overview Figure of Highway 29 Detour Crossing at Cache Creek
Construction of the Site C Clean Energy Project is subject to required regulatory and permitting approvals.
Appendix B  Cache Creek Detour Engineering Design Drawings, Plan and Profile Views