

# Highway 91/17 Upgrade Project

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MONTHLY STATUS REPORT

Month Ending July 31, 2020

# 1. PROJECT DASHBOARD

Project Delivery Objectives		Overall Project	DB Contractor	Owners/Other Works	Comments
<b>Safety</b>	Take every reasonable step to ensure that the work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.	●	●	●	Safety meetings and orientations ongoing.
<b>Budget</b>	Delivered within the approved budget.	●	●	●	The Project has an approved capital budget of \$260 million and continues to track on budget.
<b>Schedule</b>	Delivered within the approved schedule.	●	●	●	Construction schedule in some segments contingent on permit issuance
<b>Scope</b>	Deliver the approved scope.	●	●	●	Delivery of the specified components is on track.
<b>Indigenous Groups</b>	Continue to build and maintain a positive collaborative working relationship	●	●	●	Discussions and consultation with Indigenous groups ongoing.
<b>Environmental</b>	Ensure the work is performed in an environmentally responsible manner.	●	●	●	Remaining environmental permit applications under review and ongoing
<b>Community Benefits</b>	Incorporate the Community Benefits Objectives into the Project.	●	●	●	Community Benefits Objectives outlined in the Design-Build Agreement for implementation by the Design-Builder.
<b>Third Parties</b>	Continue to build and maintain positive relationships with Project Partners and other third parties.	●	●	●	Early and frequent engagement and advancing agreements with Project partners and other third parties.
<b>Stakeholder Engagement</b>	Continue to build and maintain positive relationships with the community, and other stakeholders.	●	●	●	Engagement with key Project partners is ongoing. Community and stakeholder engagement will continue.
<b>Quality</b>	Implement an effective Quality Management System.	●	●	●	Quality audits and reviews performed as required per the Quality Management Plan.

Status	Description
●	Not currently applicable, as the Project is in Procurement Phase
●	Managing some issues, negotiating resolution; required immediately
●	Managing some issues, negotiating resolution; required in the near term
●	Good progress

## 2. Introduction

### Project Overview

The Highway 91/17 & Deltaport Way Upgrade Project (the Program) is comprised of the Highway 91/17 Upgrade Project, as well as the 27B Avenue and Deltaport Way Improvements Project. The 27B Avenue and Deltaport Way improvements have been completed and will no longer be reported out on in subsequent monthly reports.

The Highway 91/17 Upgrade Project (the Project) is a subcomponent project of the broader Program and includes a combination of improvements to the existing Highway 91, Highway 17, and Highway 91 Connector corridors to improve travel safety and efficiency. These upgrades will improve local and commercial travel time and reliability in the area, reduce conflicts between commercial vehicles and other traffic, and support community and economic development. The Highway 91/17 components also complement the recently completed 72<sup>nd</sup> Avenue Interchange Project and the Alex Fraser Bridge Project.

A Design-Build Agreement between the BC Ministry of Transportation and Infrastructure (the Ministry), the BC Transportation Financing Authority (BCTFA), and Pacific Gateway Constructors General Partnership (the Design-Builder) was signed on December 13, 2019. As such, the Project has entered the implementation phase and a comprehensive Monthly Status Report will be prepared to report on progress, budget status, and risk.

### July 2020 Highlights

Project highlights this month include:

<b>Stakeholder Engagement</b>	<ul style="list-style-type: none"><li>• Ongoing public and stakeholder engagement to advise of Project activities including upcoming traffic and construction activities</li></ul>
<b>Environment</b>	<ul style="list-style-type: none"><li>• Department of Fisheries and Oceans (DFO) permits and a Water Sustainability Act (WSA) permit received</li><li>• Environmental protection measures being installed in active construction areas</li></ul>
<b>Safety</b>	<ul style="list-style-type: none"><li>• Social distancing being followed for the staff required to work in the field as inspectors</li></ul>
<b>Design</b>	<ul style="list-style-type: none"><li>• Ongoing development and review of Design-Builder detailed design</li></ul>

<b>Construction</b>	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> <li>• River Road West – Watermain installation started along River Road south side shoulder and temporary drainage of River Road south ditch installed</li> <li>• River Road East – River sand preload hauled during nighttime lane closures on Hwy 17 Eastbound (EB) lanes</li> </ul> <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> <li>• Embankment fill started on Hwy 91C</li> </ul> <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> <li>• Geotechnical investigation complete</li> </ul> <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> <li>• E01 detour for new Nordel Way signalized intersection 80% complete</li> </ul>
<b>Traffic Management</b>	<ul style="list-style-type: none"> <li>• Hwy 17 EB nighttime slow lane closure resumes in July</li> <li>• Hwy 91 NB construction shoulder closures</li> </ul>
<b>Quality</b>	<ul style="list-style-type: none"> <li>• Ongoing implementation and review of quality documents (QMPs, QSPs, ITPs).</li> </ul>

### 3. PROJECT DELIVERY

#### Project Controls

<b>Completed this Month</b>	<ul style="list-style-type: none"> <li>• Ongoing project control meetings</li> <li>• Ongoing review of Risk Register</li> <li>• Ongoing review of project schedule, scope and budget</li> </ul>
<b>Key activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>• Ongoing project control meetings</li> <li>• Ongoing review of Risk Register</li> <li>• Ongoing review of project schedule, scope and budget</li> </ul>

### 4. PROJECT DEVELOPMENT

#### Communications and Stakeholder Engagement

<b>Completed this Month</b>	<ul style="list-style-type: none"> <li>• Provided updates to interested stakeholder groups as requested</li> <li>• Update the Project website</li> <li>• Reviewed contractor communications submittals</li> <li>• Ongoing enquiry response</li> <li>• Supported the Design-Builder with traffic and construction notifications to the public, community and stakeholders</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>• Support Design-Builder stakeholder engagement and public communications related to the Delta Nature Reserve Boardwalk relocation work</li> <li>• Continue to meet with interested stakeholder groups</li> <li>• Continue to support the Design-Builder regarding upcoming traffic and construction notifications to the public, community and stakeholders</li> <li>• Continue to update Project website</li> <li>• Ongoing enquiry response</li> </ul>

## Environment

Completed this Month	<ul style="list-style-type: none"><li>• Ongoing application and securing of permits for archaeological sites, Indigenous groups (IGs), WSA permits, and Department of Fisheries and Oceans (DFO) permits</li><li>• Design-Builder's geotechnical program completed in the Delta Nature Reserve</li><li>• On-going regular weekly meetings with the Design-Builder regarding environmental components of the Project.</li></ul>
Key Activities for Next 3 months	<ul style="list-style-type: none"><li>• The Project and Design-Builder to secure remaining permits</li><li>• On-going environmental oversight of Design-Builder's environmental mitigation measures</li><li>• On-going submission review in accordance with the DBA requirements</li></ul>

## Agriculture

Completed this Month	<ul style="list-style-type: none"><li>• No actions this month</li></ul>
Key activities for Next 3 months	<ul style="list-style-type: none"><li>• Monitor design status and determine any requirements to meet Agricultural Land Commission conditions</li></ul>

## Indigenous Groups

Completed this Month	<ul style="list-style-type: none"><li>• Ongoing review and sharing of key project documents with Indigenous groups</li><li>• Meetings ongoing with DB contractor and Project team</li><li>• Continued communication with Indigenous groups regarding project construction activities</li></ul>
Key Activities for Next 3 months	<ul style="list-style-type: none"><li>• Responses to IG comments on key project documents</li><li>• Coordination of participation in plant survey / harvesting in Delta Nature Reserve</li><li>• On-going consultation and engagement relating to geotechnical, environmental and archaeological works</li></ul>

## 5. DESIGN BUILD PROGRESS

### Safety

Completed this Month	<ul style="list-style-type: none"><li>• Pacific Gateway Constructors is the Prime Contractor on the Project Site</li><li>• Onsite safety training sessions held for all Project staff</li></ul>
Key Activities for Next 3 months	<ul style="list-style-type: none"><li>• Heavy construction activities to commence</li><li>• Ongoing site safety training sessions as required</li><li>• Daily &amp; weekly safety briefings for active site crews</li><li>• Monthly mass safety meetings</li></ul>
Safety Incidents	<ul style="list-style-type: none"><li>• Minor motor vehicle incident; unrelated to Project work</li></ul>

## Design

Completed this Month	<ul style="list-style-type: none"><li>• Ongoing meetings with various regulatory agencies/stakeholders</li><li>• Continued development and review of design including detour implementation</li></ul>
Key Activities for Next 3 months	<ul style="list-style-type: none"><li>• Ongoing review of design submissions</li><li>• Ongoing meetings with various regulatory agencies/stakeholders</li></ul>

## Construction

Completed this Month	<p><b>Segment 1 – River Road / Highway 17 Interchange</b></p> <ul style="list-style-type: none"><li>• Bird Nest survey complete</li><li>• Invasive Species investigation complete</li><li>• Clearing and grubbing activities completed</li><li>• Embankment placement of new River Road West roundabout complete</li><li>• Embankment placement of Detour W01 completed until WSA permits approved</li><li>• Watermain installation started along River Road south side shoulder and ditch</li></ul> <p><b>Segment 2 – Highway 91C / Highway 17 Interchange</b></p> <ul style="list-style-type: none"><li>• Embankment fill and surcharge started in the southeast quadrant of the Hwy 17 and 91C intersection. Nighttime work ongoing</li></ul> <p><b>Segment 3 – Highway 91C / Weigh Scale Interchange</b></p> <ul style="list-style-type: none"><li>• Wildlife and invasive surveys ongoing</li></ul> <p><b>Segment 4 – Nordel Way / Highway 91 Interchange</b></p> <ul style="list-style-type: none"><li>• Geotechnical investigation ongoing in the former Delta Nature Reserve area</li><li>• Construction of the E01 Detour which includes revisions to the Nordel Way signal 80% complete.</li></ul>
Key Activities for Next 3 months	<p><b>General</b></p> <ul style="list-style-type: none"><li>• Design-Builder working on permits and approvals</li></ul> <p><b>Segment 1 – River Road / Highway 17 Interchange</b></p> <ul style="list-style-type: none"><li>• Preload of Hwy 17 / River Road on-/off-ramp roundabout areas</li><li>• River Road utility relocation preparation and construction</li><li>• Preload / embankment fills for Hwy 17 detour ongoing</li></ul> <p><b>Segment 2 – Highway 91C / Highway 17 Interchange</b></p> <ul style="list-style-type: none"><li>• Hwy 91C alignment shift and lane width reduction</li><li>• Hwy 91C cyclist detour implementation</li><li>• Clearing and grubbing completed on embankment placement areas.</li><li>• Preload of new alignments to begin on north side of Hwy 91C</li></ul>

	<p><b>Segment 3 – Highway 91C / Weigh Scale Interchange</b></p> <ul style="list-style-type: none"> <li>• Wildlife salvage south side of Hwy91C</li> <li>• Clearing and Grubbing on south side Hwy 91 C</li> <li>• Preload north side of Hwy91C</li> <li>• Detour C01 – Hwy 91C lane reduction and shift to the south</li> <li>• Detour C02 – Intersection of Hwy 91C and truck parking shift east</li> </ul> <p><b>Segment 4 – Nordel Way / Highway 91 Interchange</b></p> <ul style="list-style-type: none"> <li>• Implementation of Detour E01 – Hwy 91 NB to Nordel EB at signalized intersection</li> <li>• Implementation of Detour E02 – Hwy 91 SB to Nordel EB loop ramp</li> </ul>
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## Traffic Management

<b>Completed this Month</b>	<ul style="list-style-type: none"> <li>• Nighttime Lane closures on Hwy 17 EB.</li> <li>• Shoulder daytime closures on Hwy 91NB at Exit 8 for Detour E01 construction</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>• Nighttime lane closures on Hwy 17 EB and Hwy 91C</li> <li>• Pending approvals of work plans and preload activities anticipated in all segments</li> </ul>

## Quality

<b>Completed this Month</b>	<ul style="list-style-type: none"> <li>• Construction activities have commenced</li> <li>• Ongoing implementation of quality documents (QMPs, QSPs, ITPs)</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>• Ongoing implementation of quality management system</li> <li>• Ongoing quality audits</li> </ul>

## 6. Milestones Achieved Date

The milestone dates shown in DBA Schedule 3 Appendix A have been updated in the July 2020 Works Schedule submitted by the Design-Builder as follows:

Activity Name	Milestone Date (June 2020 Works Schedule):	Actual Start
<b>Construction Start</b>		
Highway 91 / Nordel Way Interchange	June 16, 2020	<b>June 16, 2020</b>
Delta Nature Reserve Boardwalk	July 2, 2020	
Highway 91C / Weigh Scale Interchange	August 20, 2020	
Highway 91C/ Highway 17 Interchange	July 6, 2020	<b>July 12, 2020</b>
Highway 17 / River Road Interchange	May 8, 2020	<b>May 8, 2020</b>
<b>Construction Complete</b>		
Highway 91 / Nordel Way Interchange	October 15, 2022	
Delta Nature Reserve Boardwalk	October 13, 2020	
Highway 91C / Weigh Scale Interchange	November 28, 2022	
Highway 91C/ Highway 17 Interchange	October 19, 2022	
Highway 17 / River Road Interchange	October 15, 2021	
Substantial Completion Date	<i>November 28, 2022</i>	
Total Completion Date	<i>May 30, 2023</i>	



## 7. Site Photographs



S1: River Road West Roundabout – Preload/embankment fill placement underway. Taken July 2, 2020



S1: River Road West Roundabout – Ditch protection in place. Taken July 7, 2020



S1: River Road West Roundabout – Preload/embankment fill placement for watermain construction. Taken July 10, 2020



S2: Hwy 91C/17 (Sunbury) Interchange – Access/egress points created. Taken July 16, 2020



S4: E01 Detour – Recently paved left turn lanes from Nordel Way EB to Hwy 91 NB/Alex Fraser Bridge. Taken July 27, 2020



S4: E01 Detour – New line-painting at upcoming Exit 8, detour to be implemented soon. Taken July 30, 2020

## 8. Project Cost Report

- To date, \$72.9 million has been spent on the Project
- The approved capital Project budget is \$260 million