

# Highway 91/17 Upgrade Project

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MONTHLY STATUS REPORT

Month Ending January 31, 2022

# 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.	●	●	●	Most key Project activities are proceeding on schedule. Working to mitigate schedule impacts, including those from the November storm event
<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.	●	●	●	The Project will be delivered in accordance with the obligations identified in the Construction Environment Management Plan.
<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 and Maintain an effective Quality Management System.	●	●	●	Quality audits and reviews performed as required per the Quality Management Plan.

Status	Description
●	Not currently applicable, as the Owner's Works are complete
●	Managing some issues, negotiating resolution; required immediately
●	Managing some issues, negotiating resolution; required in the near term
●	Good progress

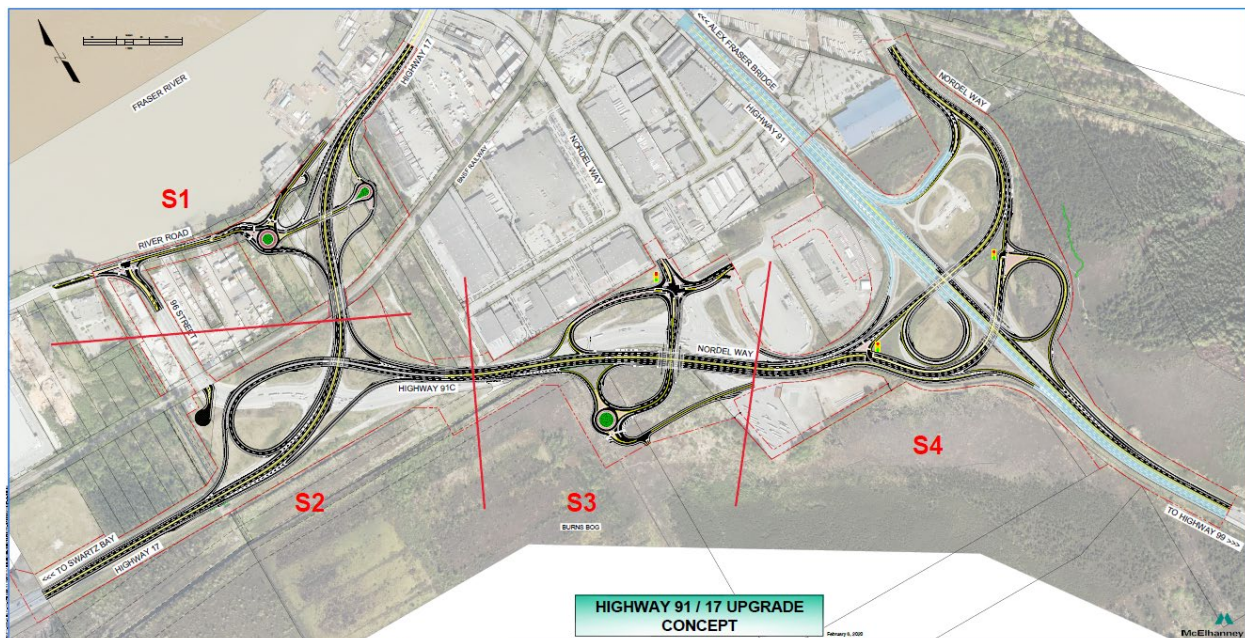
## 2. Introduction

### 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 were completed in 2019 and are no longer reported out on in the 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 72nd 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.



## January 2022 Highlights

Project highlights this month include:

<b>Stakeholder Engagement</b>	<ul style="list-style-type: none"><li>• Ongoing public and stakeholder notification to advise of Project activities including upcoming traffic and construction activities</li></ul>
<b>Environment</b>	<ul style="list-style-type: none"><li>• Environmental protection measures continue as part of active construction areas, no significant issues of concern</li><li>• Design-Builder providing environmental submissions</li><li>• Design-Builder continues work on Habitat Offsetting sites</li></ul>
<b>Safety</b>	<ul style="list-style-type: none"><li>• COVID-19 screenings and physical distancing being followed for staff and visitors</li><li>• Safety inspections ongoing</li></ul>
<b>Design</b>	<ul style="list-style-type: none"><li>• Majority of design work complete</li><li>• Guide sign design work ongoing</li></ul>
<b>Construction</b>	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"><li>• Guide sign installations ongoing</li></ul> <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"><li>• Hwy 17 structure pier cap installation</li><li>• Hwy 17 structure girder installation</li><li>• 96<sup>th</sup> Street and River Road intersection drainage installation</li><li>• Hwy 17 eastbound (EB) wildlife crossing headwall installation</li></ul> <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"><li>• Hwy 17/ Hwy 91C detour sand preload removal and gravel placement</li><li>• Hwy 91 south electrical conduit installation</li></ul> <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"><li>• Guide sign foundation installation on Hwy 91C</li><li>• Preload removal commenced</li></ul>
<b>Traffic Management</b>	<ul style="list-style-type: none"><li>• Hwy 17 westbound (WB) and EB nighttime slow lane closure</li><li>• Hwy 91 northbound (NB) lane closures.</li></ul>
<b>Quality</b>	<ul style="list-style-type: none"><li>• Ongoing implementation and review of quality system</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

Completed this Month	<ul style="list-style-type: none"><li>• Provided updates to interested stakeholder groups as requested</li><li>• Reviewed Design-Builder communications submissions</li><li>• Supported the Design-Builder with traffic and construction notifications to the public, community, and stakeholders</li><li>• Ongoing Project website updates</li><li>• Ongoing enquiry response</li></ul>
Key Activities for Next 3 months	<ul style="list-style-type: none"><li>• Continue to support the Design-Builder regarding upcoming traffic and construction notifications to the public, community and stakeholders</li><li>• Ongoing enquiry response</li><li>• Ongoing Project website updates</li></ul>

### Environment

Completed this Month	<ul style="list-style-type: none"><li>• On-going regular weekly meetings with the Design-Builder regarding environmental components of the Project</li><li>• Environmental Work Plans continue to be received, reviewed, and put into effect</li><li>• PGC continue to manage the environment and permit obligations, including assessing and addressing any issues resulting from heavy rain events,</li><li>• Habitat Offsetting/Landscaping site work continues in specific areas, most notably in River Road interchange</li></ul>
Key Activities for Next 3 months	<ul style="list-style-type: none"><li>• On-site environmental monitoring of the Design-Builder's environmental mitigation measures to confirm compliance during construction,</li><li>• On-going submission review in accordance with the Design-Build Agreement (DBA) requirements</li><li>• Review and discuss work plans/methodologies in advance of Sunbury contaminated waste area excavation work</li><li>• Undertake contaminated sites management audits</li></ul>

### Agriculture

Completed this Month	<ul style="list-style-type: none"><li>• Design-Builder sourcing off-site peat material, ensuring it is appropriate for use on site</li></ul>
Key activities for Next 3 months	<ul style="list-style-type: none"><li>• Monitor construction to meet Agricultural Land Commission (ALC) conditions and proceed with any action items</li><li>• Prepare and submit status update to ALC</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 Design-Builder and Project team</li></ul>
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	<ul style="list-style-type: none"> <li>Continued communication with Indigenous groups regarding Project construction activities</li> <li>Contracting and employment opportunities for environmental monitoring ongoing</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>Responses to Indigenous group comments on key Project documents</li> <li>On-going consultation and engagement relating to geotechnical, environmental, and archaeological works</li> </ul>

## 5. DESIGN BUILD PROGRESS

### Safety

<b>Completed this Month</b>	<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 staff</li> <li>Ongoing COVID-19 protocol implementation</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>Construction activities and 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> <li>Ongoing COVID-19 protocol implementation</li> </ul>
<b>Safety Incidents</b>	<ul style="list-style-type: none"> <li>2 first aid incidences</li> <li>1 property damage incident</li> </ul>

### Design

<b>Completed this Month</b>	<ul style="list-style-type: none"> <li>Ongoing meetings with various regulatory agencies/stakeholders</li> <li>Ongoing review of Project-wide guide sign designs</li> <li>Discussions with the Design-Builder regarding process and format for turnover of all Project Records</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>Ongoing review of design submissions</li> <li>Ongoing meetings with various regulatory agencies/stakeholders as required</li> </ul>

### Construction

<b>Completed this Month</b>	<p><b>Segment 1 – River Road / Highway 17 Interchange</b></p> <ul style="list-style-type: none"> <li>Guide sign installations ongoing</li> </ul> <p><b>Segment 2 – Highway 91C / Highway 17 Interchange</b></p> <ul style="list-style-type: none"> <li>Embankment fills on Sunbury west ongoing</li> <li>Hwy 17 structure pier cap installation</li> <li>Hwy 17 structure girder installation</li> <li>96th Street and River Road intersection drainage installation</li> <li>Hwy 17 eastbound (EB) wildlife crossing headwall installation.</li> </ul> <p><b>Segment 3 – Highway 91C / Weigh Scale Interchange</b></p> <ul style="list-style-type: none"> <li>Drilled shafts for segment structure continues</li> <li>Hwy 17/ Hwy 91C detour sand preload removal and gravel placement</li> </ul>
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	<ul style="list-style-type: none"> <li>Hwy 91 south gravel placement</li> <li>Hwy 91 south electrical conduit installation</li> </ul> <p><b>Segment 4 – Highway 91 / Nordel Way interchange</b></p> <ul style="list-style-type: none"> <li>Preload removal east side of Hwy 91</li> <li>Guide sign foundation installation on Hwy 91C</li> </ul>
<b>Key Activities for Next 3 months</b>	<p><b>Segment 1 – River Road / Highway 17 Interchange</b></p> <ul style="list-style-type: none"> <li>Guide sign installation</li> <li>River Road cul-de-sac completion</li> </ul> <p><b>Segment 2 – Highway 91C / Highway 17 Interchange</b></p> <ul style="list-style-type: none"> <li>Preload of 96<sup>th</sup> Street</li> <li>Segment structure columns and girder installation with full detour of Hwy 17</li> <li>Excavation and construction of south of 96<sup>th</sup> Street ramp</li> </ul> <p><b>Segment 3 – Highway 91C / Weigh Scale Interchange</b></p> <ul style="list-style-type: none"> <li>Hwy 91C EB to Hwy 17 detour implementation</li> <li>Weigh Scale structure construction</li> <li>Roundabout construction.</li> </ul> <p><b>Segment 4 – Nordel Way / Highway 91 Interchange</b></p> <ul style="list-style-type: none"> <li>Hwy 91 east side embankment completion</li> <li>Remove preload and commence drilled shafts for new Nordel Way structure</li> <li>Preload removal in southeast quadrant of Nordel interchange</li> <li>Embankment fill on east side of Hwy 91</li> </ul>

## Traffic Management

<b>Completed this Month</b>	<ul style="list-style-type: none"> <li>Hwy 91 SB to Nordel Way EB off-ramp closures</li> <li>Hwy 17 WB nighttime slow lane closure</li> <li>Hwy 91C WB nighttime slow lane closures</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>Nighttime lane closures Hwy 17 EB, WB, and Hwy 91C</li> <li>Nighttime lane closures Nordel way to Hwy 91 SB on-ramp</li> <li>Weekend day and night closures on Hwy 91 SB slow lane</li> <li>Weekend day and night closures Hwy 17 EB and WB slow lanes</li> </ul>

## Quality

<b>Completed this Month</b>	<ul style="list-style-type: none"> <li>Ongoing monitoring of quality management system</li> <li>Ongoing quality audits with Design-Builder</li> </ul>
<b>Key Activities for Next 3 months</b>	<ul style="list-style-type: none"> <li>Ongoing implementation and monitoring 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 January 2022 Works Schedule submitted by the Design-Builder as follows:

Activity Name	DBA Milestone Date:	Milestone Date (January 2022 Works Schedule)
<b>Construction Start</b>		
Highway 91 / Nordel Way Interchange	April 6, 2020	June 16, 2020
Delta Nature Reserve Boardwalk	July 2, 2020	September 28, 2020
Highway 91C / Weigh Scale Interchange	April 6, 2020	August 14, 2020
Highway 91C/ Highway 17 Interchange	April 6, 2020	July 12, 2020
Highway 17 / River Road Interchange	April 6, 2020	May 8, 2020
<b>Construction Complete</b>		
Highway 91 / Nordel Way Interchange	September 15, 2022	November 28, 2022
Delta Nature Reserve Boardwalk	October 6, 2020	March 8, 2021
Highway 91C / Weigh Scale Interchange	March 15, 2023*	November 28, 2022
Highway 91C/ Highway 17 Interchange	March 15, 2023*	November 18, 2022
Highway 17 / River Road Interchange	October 4, 2021	December 2, 2021
Substantial Completion Date	November 30, 2022	November 28, 2022
Total Completion Date	May 31, 2023	May 17, 2023

\* Deferred completion date for limited alignments; majority of Section complete for November 30, 2022

Non-conforming Milestone dates and corrective actions to address schedule delays are under discussion with the Design-Builder.



## 7. Site Photographs



S2: Preload embankment fill placement. Taken January 1, 2022



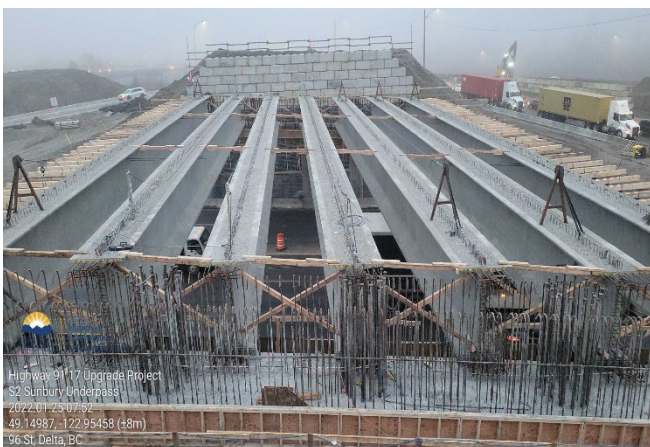
Hwy 17 WB - Guide sign post-construction conditions. Taken January 10, 2022



S3: West abutment concrete curing compound. Taken January 13, 2022



S2: First 2 girders on site for Sunbury structure. Taken January 19, 2022



S2: Sunbury underpass work. Taken January 25, 2022



S3: Culvert 320 installation. Taken January 31, 2022

## 8. Project Cost Report

- To date, \$166.3 million has been spent on the Project
- The approved capital Project budget is \$260 million