

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending February 28, 2022

1. PROJECT DASHBOARD

Project Delivery Objectives		Overall Project	DB Contractor	Owners/Other Works	Comments
Safety	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.
Budget	Delivered within the approved budget.	●	●	●	The Project has an approved capital budget of \$260 million and continues to track on budget.
Schedule	Delivered within the approved schedule.	●	●	●	Most key Project activities are proceeding on schedule. Working to mitigate potential schedule impacts
Scope	Deliver the approved scope.	●	●	●	Delivery of the specified components is on track.
Indigenous Groups	Continue to build and maintain a positive collaborative working relationship	●	●	●	Discussions and consultation with Indigenous groups ongoing.
Environmental	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.
Community Benefits	Incorporate the Community Benefits Objectives into the Project.	●	●	●	Community Benefits Objectives outlined in the Design-Build Agreement for implementation by the Design-Builder.
Third Parties	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.
Stakeholder Engagement	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.
Quality	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

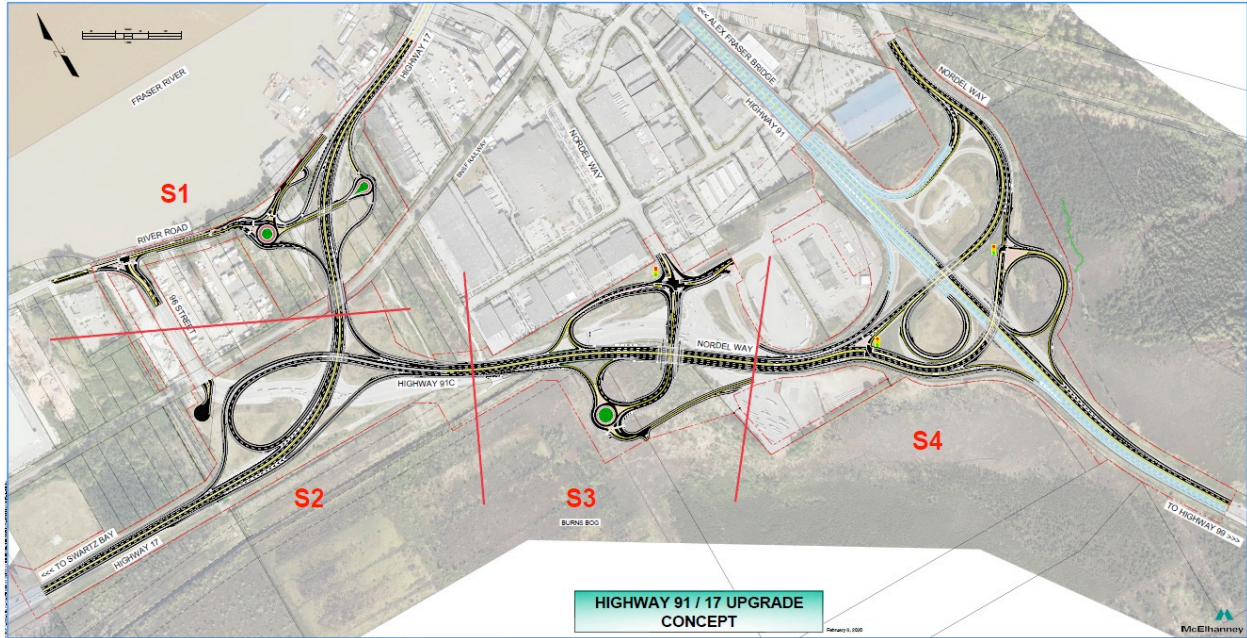
2. Introduction

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.



February 2022 Highlights

Project highlights this month include:

Stakeholder Engagement	<ul style="list-style-type: none"> • Ongoing public and stakeholder notification to advise of Project activities including upcoming traffic and construction activities
Environment	<ul style="list-style-type: none"> • Environmental protection measures continue as part of active construction areas, no significant issues of concern • Design-Builder providing environmental submissions • Design-Builder continues work on Habitat Offsetting sites; paused until weather permitting
Safety	<ul style="list-style-type: none"> • COVID-19 screenings and physical distancing being followed for staff and visitors • Safety inspections ongoing
Design	<ul style="list-style-type: none"> • Ongoing development and review of Design-Builder detailed design
Construction	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • River Road eastbound (EB) lane widening at 96th Street intersection <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Contaminated soil excavation commenced at the new Hwy 17/Hwy 91C interchange • Hwy 17 structure deck panel installation • Drainage culvert headwall installation south side of Hwy 17 by 96th Street ditch <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Drilled shafts in segment structure completed • Installation of Hwy 91C drainage culverts prior to Hwy 17/Hwy 91C detour • Hwy 17/Hwy 91C detour gravel and primer placed <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> • Nordel Way westbound (WB) lane widening on north side
Traffic Management	<ul style="list-style-type: none"> • Hwy 17 WB and EB nighttime slow lane closure. • Hwy 91 northbound (NB) and EB 10 min full closures for crane crossing
Quality	<ul style="list-style-type: none"> • Starting development/assembling of Quality Turnover Packages • Ongoing auditing and site monitoring of Design Builder

3. PROJECT DELIVERY

Project Controls

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

4. PROJECT DEVELOPMENT

Communications and Stakeholder Engagement

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

Environment

Completed this Month	<ul style="list-style-type: none">• On-going regular weekly meetings with the Design-Builder regarding environmental components of the Project• Environmental Work Plans continue to be received, reviewed, and put into effect• PGC continue to manage the environment and permit obligations, including assessing and addressing any issues resulting from heavy rain events,• Design-Builder continues work on Habitat Offsetting sites; paused until weather permitting
Key Activities for Next 3 months	<p>On-site environmental monitoring of the Design-Builder's environmental mitigation measures to confirm compliance during construction</p> <ul style="list-style-type: none">• Ongoing submission review in accordance with the Design-Build Agreement (DBA) requirements• Design-Builder securing permits and commencing work in designated Hwy 17/Hwy 91C interchange contaminated waste area; undertaking contaminated sites management audits

Agriculture

Completed this Month	<ul style="list-style-type: none">Design-Builder sourcing off-site peat material, ensuring it is appropriate for use on site, in particular near sensitive bog locations
Key activities for Next 3 months	<ul style="list-style-type: none">Monitor construction to meet Agricultural Land Commission (ALC) conditions and proceed with any action itemsPrepare and submit status update to ALC.

Indigenous Groups

Completed this Month	<ul style="list-style-type: none">Ongoing review and sharing of key Project documents with Indigenous groupsMeetings ongoing with Design-Builder and Project teamContinued communication with Indigenous groups regarding Project construction activitiesContracting and employment opportunities for environmental monitoring ongoing
Key Activities for Next 3 months	<ul style="list-style-type: none">Responses to Indigenous group comments on key Project documentsOngoing consultation and engagement relating to geotechnical, environmental, and archaeological works

5. DESIGN BUILD PROGRESS

Safety

Completed this Month	<ul style="list-style-type: none">Pacific Gateway Constructors is the Prime Contractor on the Project SiteOnsite safety training sessions held for all staffOngoing COVID-19 protocol implementation
Key Activities for Next 3 months	<ul style="list-style-type: none">Construction activities and ongoing site safety training sessions as requiredDaily & weekly safety briefings for active site crewsMonthly mass safety meetingsOngoing COVID-19 protocol implementation
Safety Incidents	<ul style="list-style-type: none">None this month

Design

Completed this Month	<ul style="list-style-type: none">Ongoing meetings with various regulatory agencies/stakeholdersOngoing review of Project-wide guide sign designsReview and discussion of Project turnover packages
Key Activities for Next 3 months	<ul style="list-style-type: none">Review Design-Builder Records Documentation/Turnover PackagesReview of remaining guide sign designsOngoing meetings with various regulatory agencies/stakeholders as required

Construction

<p>Completed this Month</p>	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • River Road eastbound (EB) lane widening at 96th Street intersection <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Embankment fills on Sunbury west alignment continue • Tilbury contaminated soil excavation commenced on Sunbury west alignment • Hwy 17 structure deck panel installation • Drainage culvert headwall installation south side of Hwy 17 by 96th Street creek • Wildlife crossing installation south side of Hwy 91C <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Drilled shafts in segment structure completed • Installation of Hwy 91C drainage culverts prior to Hwy 17/Hwy 91C detour • Hwy 17/Hwy 91C detour gravel and primer placed • Drainage culverts installed at Hwy 91 south ramps <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> • Nordel Way westbound (WB) lane widening on north side • Drilled shafts commenced on east side of Hwy 91
<p>Key Activities for Next 3 months</p>	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Guide sign installation • Top lift paving on Hwy 17 east side of new structure <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Segment structure deck pour • Excavation and construction of Hwy 17 west ramp <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Nordel Way at Weigh Scale Road intersection construction • Weigh Scale structure construction • Roundabout construction <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Nordel Way cross culvert and widening • New Nordel Way structure columns and pier cap construction • Preload removal in southeast quadrant of Nordel interchange • Embankment fill on east side of Hwy 91.

Traffic Management

<p>Completed this Month</p>	<ul style="list-style-type: none"> • Hwy 91 full 10 min closures for crane crossing • Hwy 17 WB nighttime slow lane closure • Hwy 91C WB nighttime slow lane closures
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Key Activities for Next 3 months	<ul style="list-style-type: none"> • Nighttime lane closures Hwy 17 EB, WB and Hwy 91C • Nighttime lane closures Nordel way to Hwy 91SB on ramp • Weekend day and night closures Hwy 91 SB slow lane • Weekend day and night closures Hwy 17 EB and WB slow lanes
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Quality

Completed this Month	<ul style="list-style-type: none"> • Ongoing monitoring of quality management system • Starting development/assembling of Quality Turnover Packages • Ongoing auditing and site monitoring of Design Builder
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Ongoing implementation and monitoring of quality management system • Ongoing quality audits • Development/assembling of Quality Turnover Packages

6. Milestones Achieved Date

The milestone dates shown in DBA Schedule 3 Appendix A have been updated in the February 2022 Works Schedule submitted by the Design-Builder as follows:

Activity Name	DBA Milestone Date:	Milestone Date (February 2022 Works Schedule)
Construction Start		
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
Construction Complete		
Highway 91 / Nordel Way Interchange	September 15, 2022	November 29, 2022
Delta Nature Reserve Boardwalk	October 6, 2020	March 8, 2021
Highway 91C / Weigh Scale Interchange	March 15, 2023*	November 24, 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 29, 2022
Total Completion Date	May 31, 2023	May 10, 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: Excavation for 1800mm conc storm. Taken February 1, 2022



S4: Nordel underpass excavation. Taken February 4, 2022



S3: Drilled shafts installation completed. Taken February 9, 2022



S3: Culvert 320. Taken February 15, 2022



S2: Sunbury underpass concrete formwork construction. Taken February 22, 2022



S3: Overpass preload embankment excavation. Taken February 28, 2022

8. Project Cost Report

- To date, \$170.8 million has been spent on the Project
- The approved capital Project budget is \$260 million