

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending March 31, 2021

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, audits 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 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 Overview Environmental Effects Assessment.
Community Benefits	Incorporate the Community Benefits Objectives into the Project.	●	●	●	Community Benefits Objectives implementation ongoing by the Design-Builder.
Third Parties	Continue to build and maintain positive relationships with Project Partners and other third parties.	●	●	●	Ongoing engagement 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 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

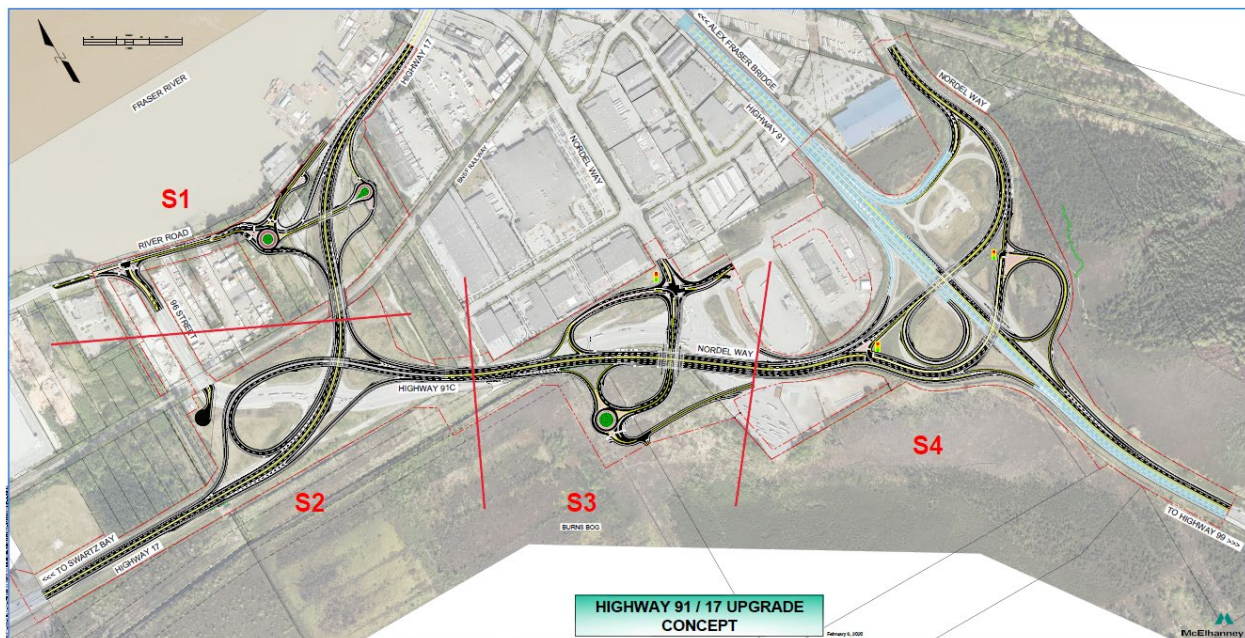
2. Introduction

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 been completed in 2019 and are no longer be reported out on in 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.



March 2021 Highlights

Project highlights this month include:

Stakeholder Engagement	<ul style="list-style-type: none"> • Stakeholder engagement and communications related to the improvements to a section of the Alex Fraser Bridge multi-use path • Convened fourth Traffic Advisory Committee meeting • 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 increased active construction, including at the Delta Nature Reserve (DNR)/roadway interface • Design-Builder providing environmental submissions
Safety	<ul style="list-style-type: none"> • COVID-19 screenings and physical distancing being followed for staff • 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"> • Mechanically Stabilised Earth (MSE) wall construction for future River Road structure commenced <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> • Embankment fill on Hwy 17 North (phase 2) commenced • Hwy 17 structure stone column preparation commenced <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Stone columns installation on roundabout completed • Nordel truck parking used as laydown area <p>Segment 4 – Highway 91 / Nordel Way interchange</p> <ul style="list-style-type: none"> • Nordel Way Westbound (WB)/Eastbound (EB) to Highway 91 Southbound (SB) detour implementation complete • Nordel Way structure stone column installation commenced • Sections of the Alex Fraser Bridge (AFB) Multi-Use-Path (MUP) paving/improvements completed
Traffic Management	<ul style="list-style-type: none"> • Hwy 91 SB to Nordel Way EB offramp closures. • Hwy 17 WB and EB nighttime slow lane closure • Hwy 91C WB nighttime slow lane closures
Quality	<ul style="list-style-type: none"> • Ongoing implementation and review of quality system

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 submittals• Supported the Design-Builder with traffic and construction notifications to the public, community, and stakeholders. Includes the Highway 99 preload removal work (south of the George Massey Tunnel) and Alex Fraser Bridge multi-use path improvements• Convened the fourth Traffic Advisory Committee Meeting• 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. Includes the Highway 99 preload removal work• Planning for next quarterly Traffic Advisory Committee meeting• Ongoing enquiry response• Ongoing Project website updates

Environment

Completed this Month	<ul style="list-style-type: none">• Ongoing regular weekly meetings with the Design-Builder regarding environmental components of the Project• Ongoing securing, extension, and amendment of environmental permits• Environmental Work Plans received and implemented. Habitat Offsetting/Landscaping Plans being finalized• Design-Builder environmental protection measures ongoing for the DNR and Burns Bog interface locations• Environmental Work Plans continue to be received, reviewed and put into effect
Key Activities for Next 3 months	<ul style="list-style-type: none">• Securing, extension, and amendment of environmental permits as required• Ongoing environmental oversight of Design-Builder's environmental mitigation measures• Ongoing submission review in accordance with the DBA requirements

Agriculture

Completed this Month	<ul style="list-style-type: none">• Agriologist secured information with the Design-Builder to draft 2020 status report for the Agricultural Land Commission (ALC)
Key activities for Next 3 months	<ul style="list-style-type: none">• Prepare 2020 update report for ALC• Identify any requirements to meet ALC conditions and proceed with action items

Indigenous Groups

Completed this Month	<ul style="list-style-type: none">• Ongoing review and sharing of key project documents with Indigenous groups• Meetings ongoing with Design-Builder and Project team• Continued communication with Indigenous groups regarding Project construction activities• Contracting 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 documents• On-going 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 Site• Onsite safety training sessions held for all staff• Ongoing 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 required• Daily & weekly safety briefings for active site crews• Monthly mass safety meetings• Ongoing COVID-19 protocol implementation
Safety Incidents	<ul style="list-style-type: none">• 1 first aid incident• Minor equipment incidents on site

Design

Completed this Month	<ul style="list-style-type: none">• Ongoing meetings with various regulatory agencies/stakeholders• Continued development and review of design including detour implementation, drainage, roadway, electrical, structural, and signage design• Review of overall final landscape design completed
Key Activities for Next 3 months	<ul style="list-style-type: none">• Ongoing review of design submissions• Ongoing meetings with various regulatory agencies/stakeholders• Confirm variance requests related to construction methodology

Construction

Completed this Month	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none">• River Road West embankment fill removal on ramps and roundabout completed• MSE wall construction for future River Road structure commenced <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none">• Embankment fill on Hwy 17 North (phase 2) commenced• Hwy 17 structure stone column preparation commenced• Ongoing drainage construction south side of Hwy 17• Hwy 17 West embankment removal commenced <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none">• Stone columns installation on roundabout completed• Ongoing Sunbury East sand embankment• Former truck parking used as laydown area <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none">• Nordel Way WB/EB to Highway 91 SB detour implementation complete• Sand embankment continues Hwy 91 West alignment, access from easement towards Truck Parking area• Sand embankment ongoing in southeast quadrant of future Nordel Way Interchange• Sections of the AFB MUP paving/improvements completed• Nordel Way structure stone column installation commenced <p>Hwy 99 – Preload removal</p> <ul style="list-style-type: none">• Ongoing sand preload removal between 80th Ave. and 96th Ave.
Key Activities for Next 3 months	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none">• Preload removal of Hwy 17 / River Road on-/off-ramp roundabout areas• River Road utility relocation construction• Commence River Road structure construction• Paving and opening of Hwy 17 West and River Road <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none">• Preload of widening of Hwy 17 on north and south sides• Drainage installation south side of Hwy 17 to south side Hwy 91C• Continue stone columns work of Sunbury structure• Detour implementation of Hwy 91C WB to Hwy 17 <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none">• Detour implementation of intersection of Hwy 91C and truck parking relocation

	<ul style="list-style-type: none"> • Preload for roundabout on southside of Hwy 91C • Weigh Scale structure construction <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Hwy 91 West Side construction (Nordel Way to Hwy 91 SB on-ramp) • Stone columns installation of Nordel Way structure • Preload placement in southeast quadrant of Nordel Interchange <p>Hwy 99 – Preload removal</p> <ul style="list-style-type: none"> • Removal of preload between Hwy 17 and 112th St
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Traffic Management

Completed this Month	<ul style="list-style-type: none"> • Hwy 91 SB to Nordel Way EB offramp closures • Hwy 17 WB nighttime slow lane closure • Hwy 91C WB nighttime slow lane closures
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 for Hwy 91 west side construction • Nighttime lane closures Hwy 99 between Hwy 17 and 112th St. • Weekend day and night closures on Hwy 91 SB slow lane • Closures on Hwy 91C for rock truck crossings • Weekend day and night closures on Hwy 17 EB slow lane • Pending approvals of work plans and preload activities anticipated in all segments

Quality

Completed this Month	<ul style="list-style-type: none"> • Ongoing monitoring of quality management system • Ongoing quality audits with 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

6. Milestones Achieved Date

The milestone dates shown in DBA Schedule 3 Appendix A have been updated in the March 2021 Works Schedule submitted by the Design-Builder as follows:

Activity Name	DBA Milestone Date:	Milestone Date (March 2021 Works Schedule)
Construction Start		
Highway 91 / Nordel Way Interchange	April 6, 2020	June 16, 2020
Delta Nature Reserve Boardwalk	July 2, 2020	N/A
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 28, 2022
Delta Nature Reserve Boardwalk	October 6, 2020	March 8, 2021
Highway 91C / Weigh Scale Interchange	March 15, 2023*	November 30, 2022
Highway 91C/ Highway 17 Interchange	March 15, 2023*	November 25, 2022
Highway 17 / River Road Interchange	October 4, 2021	October 21, 2021
Substantial Completion Date	<i>November 30, 2022</i>	<i>November 30, 2022</i>
Total Completion Date	<i>May 31, 2023</i>	<i>May 25, 2023</i>

7. Site Photographs



S4: Hwy 91 east side trucks hauling material for stone columns. Taken March 5, 2021



S1: Liebherr HS 855 Crawler Crane and 15.5 Ton weight. Taken March 8, 2021



S4: Hwy 91 east side piezometer installation. Taken March 15, 2021



S2: Hwy 17 west storm-culvert backfilling. Taken March 18, 2021



S1: River Road Overpass foundation excavation. Taken March 23, 2021



S1: Hwy 17 west culvert installation at West end. Taken March 25, 2021

8. Project Cost Report

- To date, \$117.8 million has been spent on the Project
- The approved capital Project budget is \$260 million