

Highway 91/17 Upgrade Project

MONTHLY STATUS REPORT

Month Ending August 31, 2020

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.	●	●	●	Permits issued for construction; some potential delays
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 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 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

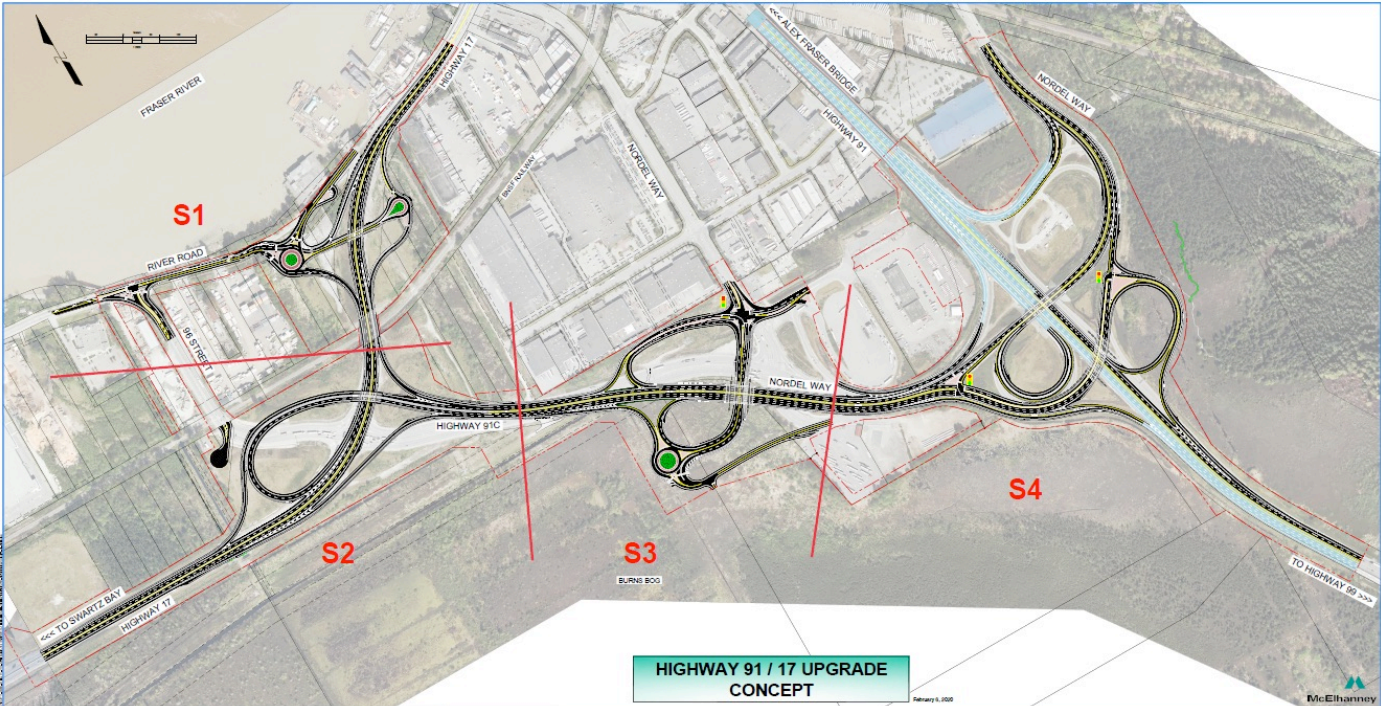
2. Introduction

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 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.



August 2020 Highlights

Project highlights this month include:

Stakeholder Engagement	<ul style="list-style-type: none"> Ongoing public and stakeholder engagement to advise of Project activities including upcoming traffic and construction activities
Environment	<ul style="list-style-type: none"> All Department of Fisheries and Oceans (DFO) Authorizations/Letters of Advice and All Water Sustainability Act (WSA) permits received Environmental protection measures continue to be implemented in active construction areas
Safety	<ul style="list-style-type: none"> Social distancing being followed for the staff required to work in the field as inspectors
Design	<ul style="list-style-type: none"> Ongoing development and review of Design-Builder detailed design
Construction	Segment 4 – Highway 91 / Nordel Way interchange <ul style="list-style-type: none"> Detour for new Nordel Way signalized intersection implemented
Traffic Management	<ul style="list-style-type: none"> Hwy 17 Eastbound (EB) nighttime slow lane closure continued
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 Updated the Project webpage Reviewed contractor communications submittals Ongoing enquiry response Supported the Design-Builder with traffic and construction notifications to the public, community and stakeholders including implementation of the Nordel detour
Key Activities for Next 3 months	<ul style="list-style-type: none"> Convene second Project Traffic Advisory Committee meeting

	<ul style="list-style-type: none"> • Support Design-Builder stakeholder engagement and public communications related to the Delta Nature Reserve Boardwalk relocation work • Continue to meet with interested stakeholder groups • Continue to support the Design-Builder regarding upcoming traffic and construction notifications to the public, community and stakeholders • Continue to update Project webpage • Ongoing enquiry response
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Environment

Completed this Month	<ul style="list-style-type: none"> • Secured new Indigenous Group (IG) specific site alteration permit • Ongoing regular weekly meetings with the Design-Builder regarding environmental components of the Project • All Department of Fisheries and Oceans (DFO) Authorizations/Letters of Advice and all Water Sustainability Act permit applications received.
Key Activities for Next 3 months	<ul style="list-style-type: none"> • 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"> • Design-Builder identified potential excavation in Agriculture Land areas, engaged Project Agriologist to assess and provide advice.
Key activities for Next 3 months	<ul style="list-style-type: none"> • Monitor design status and determine any requirements to meet Agricultural Land Commission conditions

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 Indigenous Groups, DB contractor and Project team • Continued communication with Indigenous groups regarding project construction activities
Key Activities for Next 3 months	<ul style="list-style-type: none"> • Responses to Indigenous Group comments on key project documents • Coordination of participation in plant survey / harvesting in Delta Nature Reserve • 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 Project staff
Key Activities for Next 3 months	<ul style="list-style-type: none"> Ongoing site safety training sessions as required Daily & weekly safety briefings for active site crews Monthly mass safety meetings
Safety Incidents	<ul style="list-style-type: none"> No safety incidents in this period

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 Inclusion of oversize vehicle design to be accommodated in the design at various intersections
Key Activities for Next 3 months	<ul style="list-style-type: none"> Ongoing review of design submissions Ongoing meetings with various regulatory agencies/stakeholders

Construction

Completed this Month	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> Invasive species investigation complete inside WSA permit areas. Embankment placement of detour W01 recommenced Watermain installation continued along River Road south side shoulder and ditch <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Embankment fill and surcharge commenced in the southeast quadrant of the Hwy 17 and 91C intersection <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> Wildlife and invasive surveys ongoing <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> Geotechnical investigation ongoing in former Delta Nature Reserve area Construction of the E01 detour including revisions to the Nordel Way completed; implemented August 12, 2020
Key Activities for Next 3 months	<p>Segment 1 – River Road / Highway 17 Interchange</p> <ul style="list-style-type: none"> Preload of Hwy 17 / River Road on-/off-ramp roundabout areas River Road utility relocation preparation and construction Preload / embankment fills for Hwy 17 detour ongoing. Implementation for end of October/early November <p>Segment 2 – Highway 91C / Highway 17 Interchange</p> <ul style="list-style-type: none"> Hwy 91C alignment shift and lane width reduction Preload of new alignments to begin on north side of Hwy 91C

	<ul style="list-style-type: none"> • Drainage construction in 96th Street ditch <p>Segment 3 – Highway 91C / Weigh Scale Interchange</p> <ul style="list-style-type: none"> • Preload north side of Hwy 91C • Detour C01 – Hwy 91C lane reduction and shift to the south • Detour C02 – Intersection of Hwy 91C and truck parking shift east • Wildlife salvage south side of Hwy 91C • Clearing and Grubbing on south side Hwy 91C <p>Segment 4 – Nordel Way / Highway 91 Interchange</p> <ul style="list-style-type: none"> • Implementation of detour E02 – Hwy 91 SB to Nordel EB loop ramp • Wildlife Salvage in southeast quadrant of the Nordel Interchange • Delta Nature Reserve Boardwalk construction
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Traffic Management

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

Quality

Completed this Month	<ul style="list-style-type: none"> • Ongoing monitoring of quality management system • Quality audit schedule created 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 August 2020 Works Schedule submitted by the Design-Builder as follows:

Activity Name	Milestone Date (August 2020 Works Schedule):	Actual Start

Construction Start		
Highway 91 / Nordel Way Interchange	April 6, 2020	June 16, 2020
Delta Nature Reserve Boardwalk	July 2, 2020	
Highway 91C / Weigh Scale Interchange	April 6, 2020	August 20, 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	October 27, 2022	
Delta Nature Reserve Boardwalk	December 18, 2020	
Highway 91C / Weigh Scale Interchange	April 13, 2023	
Highway 91C/ Highway 17 Interchange	November 7, 2022	
Highway 17 / River Road Interchange	November 3, 2021	
Substantial Completion Date	<i>November 30, 2022</i>	
Total Completion Date	<i>May 31, 2023</i>	

7. Site Photographs



S1: River Road West Roundabout – Watermain Construction – Materials on-site, awaiting installation. Taken August 4, 2020



S4: E01 Detour – Hwy 91 NB Exit 8 awaiting diagonal line painting within gore area. Taken August 7, 2020



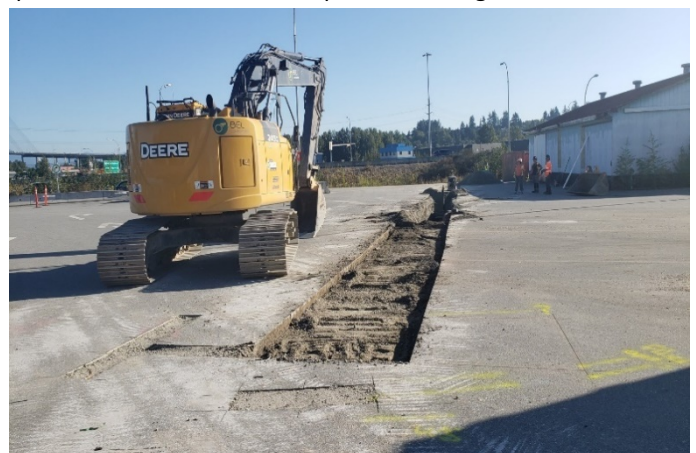
S1: River Road West Roundabout – Watermain Construction underway. Taken August 13, 2020



S2: L500/L575 – A PGC excavator cutting the placed preload/embankment fill slopes. Taken August 18, 2020



S4: BCTFA Property – Watermain Construction underway. Taken August 20, 2020



S3: Truck Parking Area – Watermain Construction – An excavator removing the existing asphalt pavement prior to final stretch of watermain installation. Taken August 27, 2020

8. Project Cost Report

- To date, \$75.7 million has been spent on the Project
- The approved capital Project budget is \$260 million