



**PATTULLO BRIDGE  
REPLACEMENT**



transportation  
investment  
corporation

# Monthly Status Report

---

**Reporting Period**  
**July 2021**

# 1. Introduction

---

## 1.1 Project Overview

The Pattullo Bridge is a key connection between the communities of Surrey and New Westminster.

The new toll-free four-lane bridge will provide important improvements for everyone using the bridge, including people who are driving, cycling, or walking, as well as communities on either side of the bridge.

The new bridge will provide:

- A safer crossing for all bridge users with modern, wider lanes, separated by a centre median barrier
- Dedicated walking and cycling lanes, separated from traffic by a barrier on both sides of the bridge
- Better connections to, from and near the bridge

The new bridge is scheduled to open in 2024. The existing bridge will remain in use until the new bridge is open to traffic. Once the new bridge is open, the existing bridge will be removed.

Additional information and updates about the Project can be found on the Project's website <https://www.pattullobridgereplacement.ca>.

## 1.2 Project Delivery

Transportation Investment Corporation, a provincial Crown corporation, is delivering and overseeing this \$1.377 billion Project. The Project will be delivered under B.C.'s Community Benefits Agreement and the Project workforce will be provided by B.C. Infrastructure Benefits Inc.

The Fraser Crossing Project Corporation (Contractor) has been selected to design and build the new bridge. The Province will own and maintain the new bridge when complete.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

## 1.3 Project Goals

Measure specific data to confirm the following Project goals and objectives are being met in accordance with the Project's **Performance Measurement Plan**:

1. Provide a **structurally sound bridge crossing** to maintain a critical local and regional connection;
2. **Improve safety for all users** with modern lane widths, road curvature, centre median barrier and separated pedestrian and cycling lanes; and
3. **Improve connectivity, reliability and modal choice** while supporting environmental objectives.

The Project represents a significant investment in multi-modal transportation mobility improvements and supports provincial and regional strategies, environmental objectives, and the economic development of transportation services in the region.

## 2. Project Update

### 2.1 Project Dashboard

		Objectives	Project Status	Comments
Project Delivery	Scope	Project delivered within the approved scope.	●	<ul style="list-style-type: none"> <li>- Project scope includes a new four-lane bridge, improved connections to, from and near the bridge and dedicated walking and cycling lanes.</li> <li>- Project Team is actively managing scope.</li> </ul>
	Schedule	Project delivered within the approved schedule.	●	<ul style="list-style-type: none"> <li>- Schedule related risks and issues are being monitored, particularly in relation to regulatory authorizations required for in-river works and on-site investigative work.</li> </ul>
	Budget	Project delivered within the approved budget of \$1.377 billion.	●	<ul style="list-style-type: none"> <li>- Project spending for the month of July 2021 was \$6.6 million.</li> <li>- Total Project spending to date is \$345.2 million; the Project is forecast to be delivered within budget.</li> </ul>
	Safety	Ensure that Project work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.	●	<ul style="list-style-type: none"> <li>- The health and safety plan for the Project work is in place. The plan includes specific COVID-19 protocols.</li> <li>- Lost Time Injury Frequency Rate (LTIFR) for the Project remains at 0.</li> </ul>
	Quality	Implement an effective Quality Management System.	●	<ul style="list-style-type: none"> <li>- Final shipment of steel pipe pile was delivered to the project site in July. Additional steel quality testing underway. The overall product received to date has been acceptable.</li> <li>- Structural Steel coupon cutting completed and test coupon samples have been sent to lab for testing. Initial results have indicated the steel is of acceptable quality.</li> </ul>
	Environmental	Ensure our work is performed in an environmentally responsible manner.	●	<ul style="list-style-type: none"> <li>- Amendments to the Project's Environmental Assessment Certificate (EAC) and Water Sustainability Act (WSA) permit were approved by the Environmental Assessment Office (EAO) and the Ministry of Forests, Lands, Natural Resource Operations, and Rural Development (FLNRORD) respectively.</li> <li>- Additional amendment to the WSA permit is still under review by FLNRORD.</li> <li>- Continued to advance the archaeological field program in collaboration with Indigenous groups.</li> </ul>
	Design and Construction	Provide design and technical oversight, coordinate and manage activities on site and conduct compliance reviews.	●	<ul style="list-style-type: none"> <li>- In-river scour protection around CN Rail Bridge piers 4 and 5 completed and piling work continued.</li> <li>- Project Team reviewed the design for the Pier S1, Pier S2, Pier S3 and Pier N1 Pile Caps as well as the East Columbia Street Exit Ramp Superstructure.</li> </ul>

	<b>Community Benefits</b>	Work collaboratively with BC Infrastructure Benefits Inc. (BCIB) to successfully implement the Community Benefits Agreement (CBA).	●	<ul style="list-style-type: none"> <li>- Continued discussions with BCIB on labour force requirements.</li> <li>- During the month of July, an average of 20 full-time BCIB dispatched employees actively worked on site.</li> </ul>
<b>Partners/Stakeholders</b>	<b>Indigenous Groups</b>	Continue to build and maintain a positive collaborative working relationship.	●	<ul style="list-style-type: none"> <li>- Project Team continues to engage with the Identified Indigenous Groups in relation to Project permitting and opportunities.</li> </ul>
	<b>Third Parties</b>	Continue to build and maintain positive relationships and secure agreements with Project partners and other third parties.	●	<ul style="list-style-type: none"> <li>- CN Rail approved the Project's scour protection design for the placement of scour protection around New Westminster Rail Bridge piers 4 and 5.</li> <li>- Continued agreement discussions with TELUS, TransLink and railway companies.</li> </ul>
	<b>Public and Stakeholder Engagement</b>	Continue to build and maintain positive relationships with the community and other stakeholders.	●	<ul style="list-style-type: none"> <li>- Review of the Heritage Alteration Permit application for the Woodland Heritage wall underway by the City of New Westminster.</li> <li>- Noise modelling study results presented to both the City of New Westminster and the City of Surrey.</li> </ul>

Status	Description
●	Managing critical issues, negotiating resolution; action required immediately
●	Managing some issues, negotiating resolution; action required in the near term
●	Stay the Course – no action required

### 3. Project Documents and Achievements to Date

Project Delivery	Project Planning and Development	<ul style="list-style-type: none"> <li>– Community Benefits Agreement (July 2018)</li> <li>– Executed Design-Build-Finance Agreement (February 2020)</li> <li>– Project Overview Report (May 2020)</li> <li>– Project Report (July 2020)</li> </ul>
	Environmental	<ul style="list-style-type: none"> <li>– EAO Environmental Assessment Certificate (EAC) (April 2019)</li> <li>– Port and Environmental Review (PER) Permit (May 2019)</li> <li>– Canadian Navigable Waters Act Approval (November 2020)</li> <li>– Water Sustainability Act Change Approval (November 2020)</li> <li>– Water Sustainability Act Short Term Use Approval (December 2020)</li> <li>– Fisheries Act Authorization (February 2021)</li> </ul>
Partners/Stakeholders	Third Parties	<ul style="list-style-type: none"> <li>– CN Master Use Agreement (May 2019)</li> <li>– City of Surrey Municipal Agreement (September 2019)</li> <li>– City of New Westminster Municipal Agreement (September 2019)</li> <li>– Metro Vancouver Accommodation Agreement (December 2019)</li> <li>– Construction and land licenses acquired from Vancouver Fraser Port Authority (VFPA); VFPA demolition license finalized (December 2019)</li> <li>– CP Grade Separation Construction Agreement (January 2020)</li> <li>– Shaw Telecommunications Facilities Relocation Agreement (March 2020)</li> <li>– Zayo Telecommunications Facilities Relocation Agreement (March 2020)</li> <li>– CP Overpass Crossing and Maintenance Agreement (December 2020)</li> <li>– TransLink Consent Agreement for in-river works (December 2020)</li> </ul>

## 4. July Highlights and Three Month Lookahead

---

### 4.1 Safety

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Establish Occupational Health and Safety (OH&amp;S) Project delivery objectives and performance measures.</li> <li>- Manage Project OH&amp;S activities.</li> <li>- Monitor relevant OH&amp;S performance metrics.</li> <li>- Ensure the Project complies with relevant WorkSafeBC regulations and government requirements.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- An updated Occupational Health and Safety Policy was submitted to the Province.</li> <li>- Continued to receive health and safety updates and incident reports from BCIB and the Contractor.</li> <li>- Seven site safety inspections were conducted in July. Coordination between the Province, BCIB and the Contractor is ongoing on opportunities for improvement identified in these inspections.</li> <li>- Total number of incidents documented on the health and safety log for the month was 16. All were deemed minor and none of the incidents resulted in lost time due to injury. Lost Time Injury Frequency Rate (LTIFR) for the Project remains at zero.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Update Safe Work Plans and Safe Job Procedures as required.</li> <li>- Deliver training on the Job Hazard Assessment and Risk Mitigation Plan for all Project Team members.</li> <li>- Conduct OH&amp;S audits as and when required.</li> </ul>

### 4.2 Quality

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Establish quality management Project objectives and performance measures.</li> <li>- Manage Project quality management activities.</li> <li>- Monitor relevant quality management performance metrics.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Continued in-person quality auditing of the Contractor's program for the off-shore steel pipe pile fabrication with additional audits being conducted in Canada upon arrival of the steel.</li> <li>- Eighth and final shipment of Steel Pipe Pile arrived in July.</li> <li>- Structural steel pre-fabrication activities underway, including steel coupon cutting and testing, with structural steel milling to commence following verification tests.</li> <li>- One new Non-Compliance Report (NCR) was initiated in July. NCRs to date have been deemed minor and relate to process and procedure. No material or major Quality issues have been identified and the product received to date has been acceptable.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continue steel fabrication quality monitoring, and surveillance auditing and initiate inspections as required.</li> <li>- Ongoing planning for upcoming structural steel fabrication.</li> </ul>

- Continued review of quality related submittals.

### 4.3 Environmental

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Manage follow-up and compliance actions required under the Environmental Assessment Certificate (EAC) and the Port and Environmental Review (PER) permit.</li> <li>- Liaise with regulators on matters related to EAC and PER permit conditions and commitments made through the environmental assessment process.</li> <li>- Oversee outstanding environmental permits and associated environmental studies, monitoring, and compliance processes.</li> <li>- Support the Technical Heritage Committee and archaeology investigation program.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Amendments to both the EAC and the WSA were approved in July by the EAO and FLNRORD respectively.</li> <li>- Discussions continued between the Contractor, VFPA, EAO and the Province on the Independent Environmental Monitor.</li> <li>- Continued to advance the archaeological field program in collaboration with Indigenous groups.</li> <li>- Six Environmental Incident Reports were issued in the month; five of the six were deemed minor. One incident was in relation to an exceedance of the underwater noise threshold requirements. Work was immediately halted and a 15-min scan of the area for potential deceased fish was completed. Additional mitigation measures were implemented prior to work restarting.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continue archeological monitoring and archeological investigations.</li> <li>- Continue to liaise with regulators on follow-up actions and commitments arising from the required Project permits and approvals.</li> <li>- Continue working with the Contractor and third-party experts to monitor underwater noise during in-river works.</li> <li>- Receive executed amendment to the WSA.</li> </ul>

### 4.4 Design and Construction

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Travel demand forecasting, traffic operations modelling, traffic data collection, and other related engineering services in support of the Project.</li> <li>- Review the final bridge design including roadways, associated structures, drainage, and utilities.</li> <li>- Compliance reviews during construction.</li> <li>- Provide oversight of Contractor on-site activities throughout the Project's lifecycle.</li> <li>- Management of the Project's schedule, scope and progress.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Project Team reviewing the design for the S1, S2, S3, S4 and N1 Pile Caps as well as the E. Columbia Street exit ramp superstructure design.</li> <li>- Discussions on proposed ground improvements as well as additional scour protection in the Project area are ongoing.</li> <li>- Scour protection laid down around CN Rail Bridge piers 4 and 5.</li> </ul>

	<ul style="list-style-type: none"> <li>- Aerodynamics/wind tunnel testing model completed and testing of the current bridge design underway.</li> <li>- Additional physical hydraulic model test run preparation work underway.</li> <li>- Continued to progress the archaeological investigation at pier locations in Surrey.</li> <li>- Daily site monitoring and reporting ongoing.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Complete monthly riverbed monitoring surveys.</li> <li>- Complete the demolition of homes and in both New Westminister and Surrey in support of site preparation.</li> <li>- Progress archaeological investigations at pier locations in both Surrey and New Westminister.</li> </ul>

### 4.5 Indigenous Groups

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Consultation and engagement with the Identified Indigenous Groups (IIGs) as set out in the EAC.</li> <li>- Engagement with Indigenous groups on Project opportunities and benefits including project benefit agreements and contracting opportunities.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Two Technical Heritage Committee (THC) meetings were held in July with Indigenous Groups.</li> <li>- Eight out of nine project agreements signed with IIGs.</li> <li>- Indigenous Art and Cultural Recognition (IACR) technical feasibility review and consultation progressing.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continue meetings with the THC.</li> <li>- Continue meetings with the Indigenous Marine Users Group.</li> <li>- Continue to facilitate meetings between Indigenous groups and the Project.</li> <li>- Progress IACR opportunities including finalizing the process for art and artist selection.</li> </ul>

### 4.6 Third Parties

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Engage with Municipalities (City of New Westminister and City of Surrey) for the Project implementation phase.</li> <li>- Municipal Agreements.</li> <li>- Railway Construction and Crossing Agreements.</li> <li>- Utility Agreements.</li> <li>- TransLink Agreement.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Continued meeting weekly with the City of Surrey and City of New Westminister.</li> <li>- Coordinated comments from the municipalities on the Project’s Design, including those on traffic management, utility design, drainage, and roadway alignments.</li> <li>- Received CN Rail approval for the scour protection design for placement of scour protection around CN Rail Bridge piers 4 and 5 and completed installing it.</li> <li>- Continued agreement discussions with TELUS and railway companies.</li> </ul>

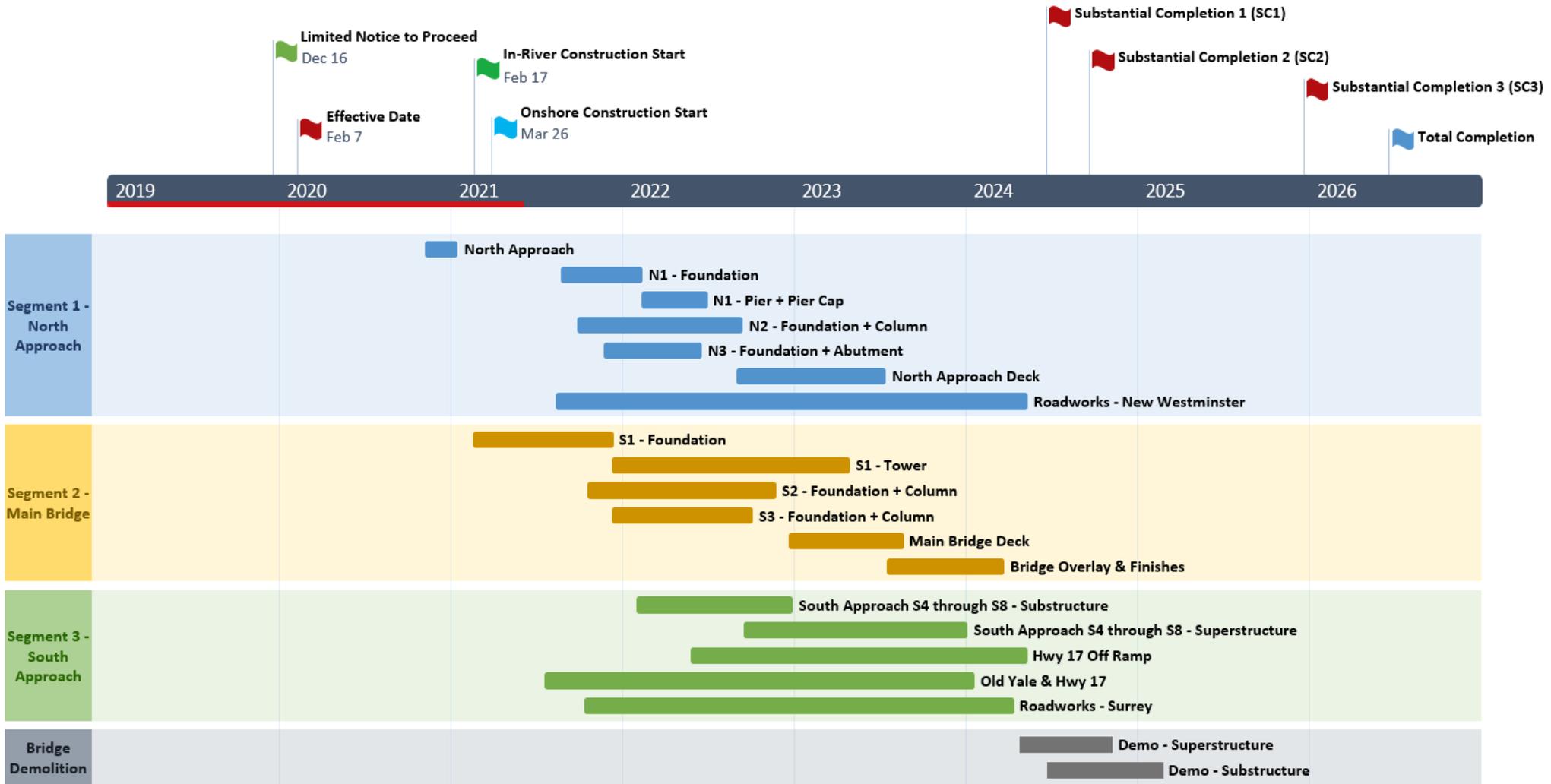
	<ul style="list-style-type: none"> <li>- Ongoing handover/transfer agreement discussions regarding the existing bridge with TransLink continued.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continue to receive and provide comments from the municipalities on the Project's design.</li> <li>- Continue to work with railways, TELUS and TransLink to finalize agreements.</li> <li>- Continue coordination with FortisBC regarding the Pattullo Gas Line Replacement.</li> </ul>

### 4.7 Public and Stakeholder Engagement

<b>Scope:</b>	<ul style="list-style-type: none"> <li>- Manage ongoing public and stakeholder communications and engagement.</li> </ul>
<b>Monthly Highlights:</b>	<ul style="list-style-type: none"> <li>- Continued to provide communication updates regarding site activity work including notification distribution to residents, business and stakeholders. Notifications are being posted to website, e-mailed to local resident and business associations, and sent to the e-mail subscription list.</li> <li>- Continued to engage with stakeholders on the Project's design and responded to feedback from stakeholders</li> <li>- Review of the Heritage Alteration Permit application for the Woodland Heritage wall is being conducted by the City of New Westminster; engagement on the application is being done with the New Westminster Heritage Society including Four stakeholder group meetings held in the month.</li> <li>- Noise modelling study findings, showing the benefits of the Project's use of OGFC pavement, presented to both the City of New Westminster and City of Surrey.</li> <li>- Provided responses and updates regarding planned construction activities, including planned road closures, and the Project's design to interested stakeholders.</li> </ul>
<b>Three Month Lookahead:</b>	<ul style="list-style-type: none"> <li>- Continued engagement with key stakeholders in New Westminster and Surrey regarding Project designs and construction plans, including with resident groups, HUB Cycling and the Walkers' Caucus.</li> <li>- Ongoing management of Project communications, including incident response, enquiry response, Project information sheets and construction notices.</li> <li>- Finalize the social media strategy for Project.</li> </ul>

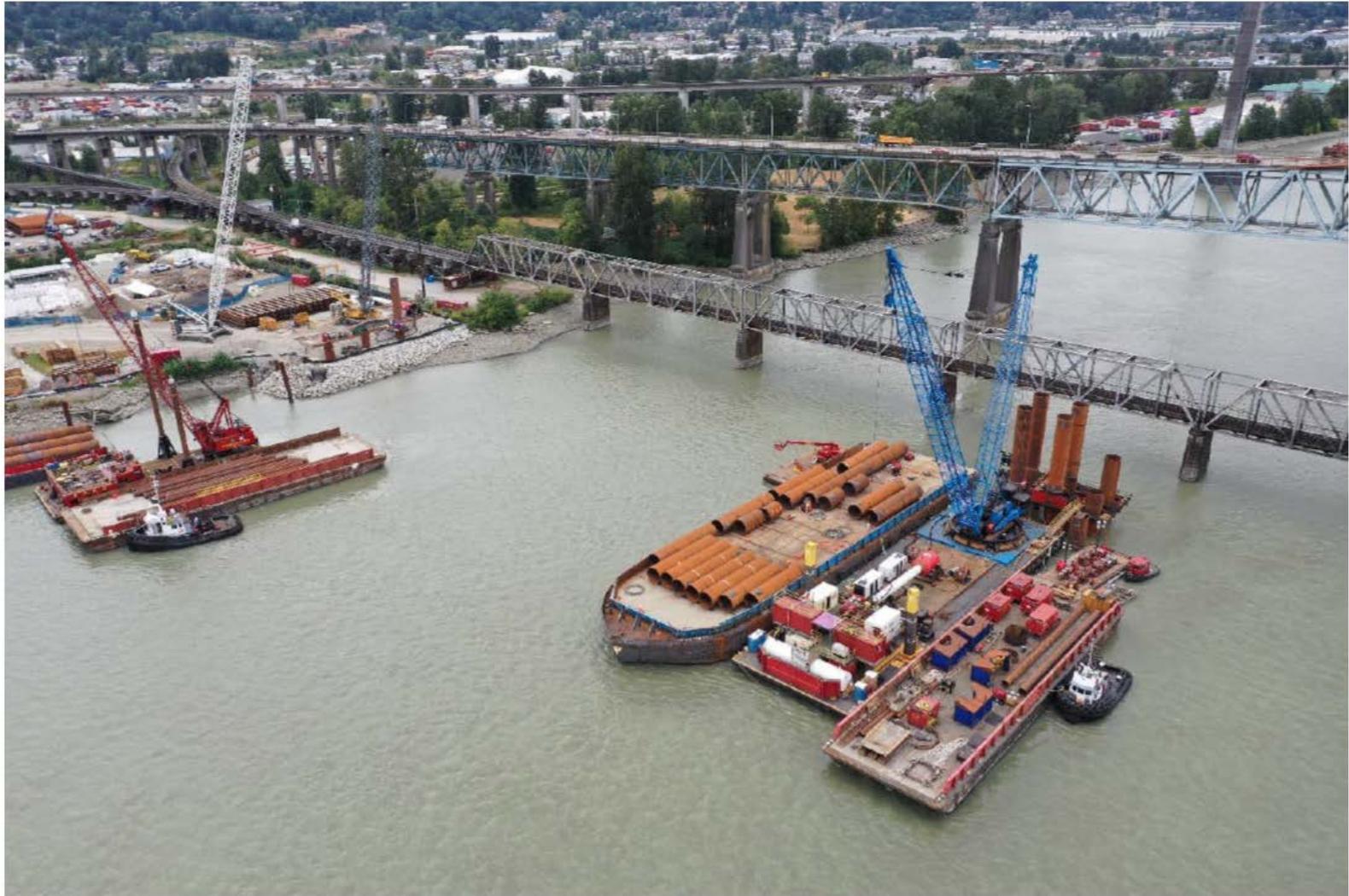
## 5. Schedule

The following schedule depicts deliverables, milestones and associated dates and timelines for the implementation phase of the Project, as well as anticipated construction timelines.

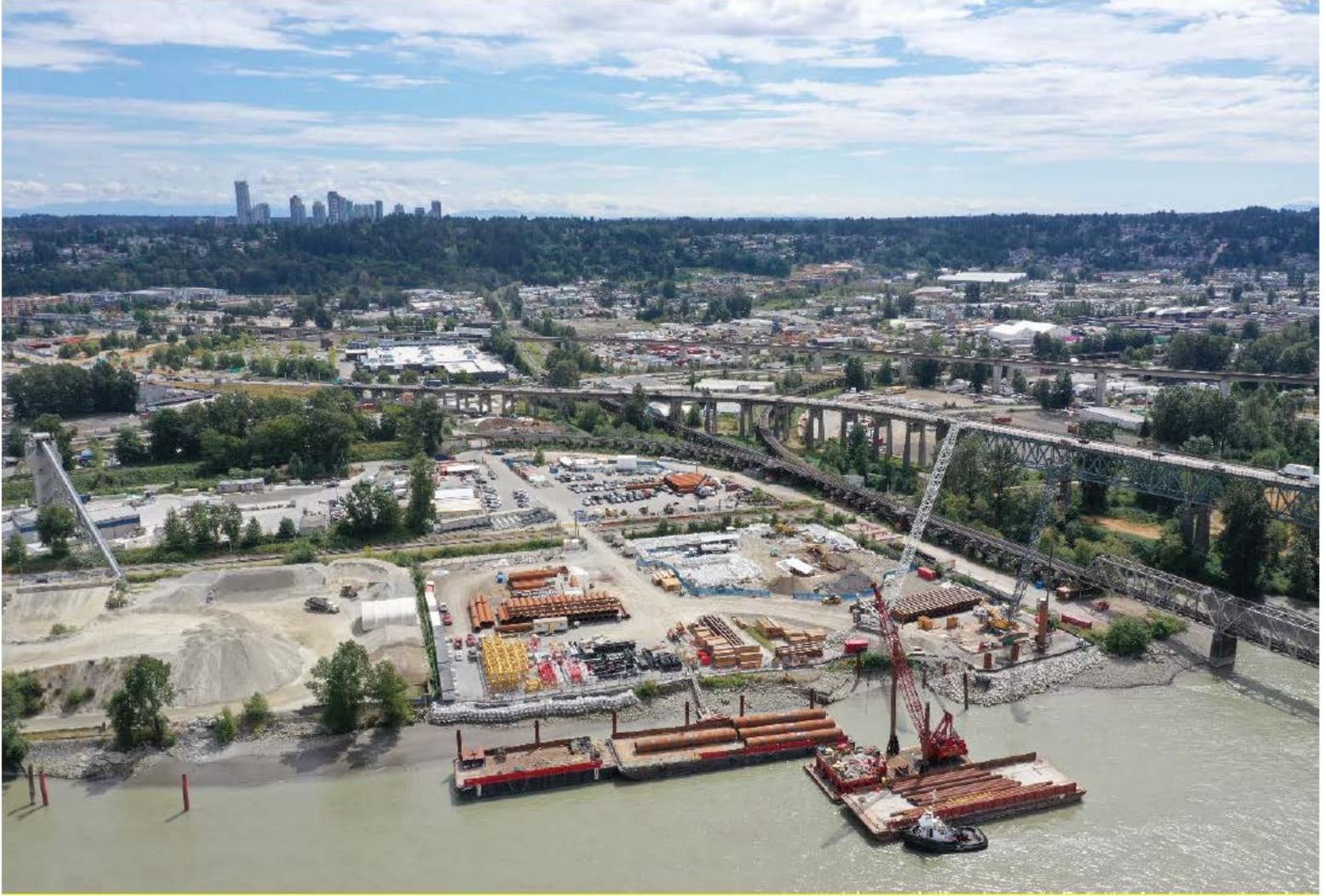


## 6. Project Photos

---



**FIGURE 1 – PILE INSTALLATION ON S1 PILES WITH S2 PILING IN THE LEFT BACKGROUND.**



**FIGURE 2 – PILE INSTALLATION ON S2 PILES**