



# **Monthly Status Report**

Reporting Period July 2023

KHCP4-TIC-PCO-RPT-00048 R0

#### 1. Introduction

#### **1.1 Project Overview**

The Kicking Horse Canyon Project – Phase 4 (KHCP4) is located on the Trans-Canada Highway approximately 4 km east of the Highway 95 junction at Golden BC. It is the final phase of the 26 km-long Kicking Horse Canyon Project which has been incrementally improving the highway to a modern four lane standard at a 100 km/h design speed, including bridge replacements and natural hazard reduction features to improve safety and reliability. The scope of work includes:

- Widening 4 km of two lane and 0.8 km of three lane highway to four lanes
- Highway realignment to a 100 km/h design speed
- Installation of median barrier, wildlife exclusion fencing and passages
- Provision of snow avalanche and rock fall hazard reduction measures; and
- Shoulder widening for cyclists

Construction of the fourth and final phase to complete the remaining – and most difficult – 4.8 kilometres is expected to be substantially complete in winter 2023-24.

Additional information and updates about the Project can be found on the Project's website <a href="https://www.kickinghorsecanyon.ca/">https://www.kickinghorsecanyon.ca/</a>

#### **1.2 Project Delivery**

Transportation Investment Corporation, a provincial Crown corporation, is delivering and overseeing this \$601 million Project. The Project is being delivered under B.C.'s Community Benefits Agreement and the Project workforce is being provided by B.C. Infrastructure Benefits Inc. (BCIB).

The Project is cost-shared, with the Government of Canada contributing \$215 million.

Kicking Horse Canyon Constructors (KHCC) was selected to design and construct the fourth and final phase of the Kicking Horse Canyon Project near Golden.

The Project is a multi-phase Project to improve safety and mobility over approximately 26 kilometres of two-lane highway. Three phases of work have been completed. The fourth and final phase to transform the remaining section of about 4.8 kilometres is under construction.

#### 1.3 Project Goals

Based on the Ministry's mandate, six primary goals have been identified for the Project:

**Transportation:** Improve highway safety, capacity, and reliability of the highway corridor.

**Financial**: Plan and deliver the Project that meets the approved scope, schedule and budget targets cost effectively.

**Environment**: Reduce wildlife collision rates and minimize impacts on future wildlife movements.

**Economic Development**: Support the growth of the local and regional economy by improving highway safety and reliability and assist the efficient movement of people and goods along the Project corridor.

**Social and Communities**: Engage with Indigenous Communities, local communities, and key stakeholders to identify opportunities, issues and information pathways that will inform the delivery of the Project.

**Deliverability**: Constructable and operable.

# 2. Project Update

## 2.1 Project Dashboard

		Objectives	Project Status	Comments
	Scope	Meet the approved scope.	•	<ul> <li>The Project includes the widening of 4.8km of Highway 1 to a 4-lane 100km/h standard and is being delivered within the approved scope.</li> </ul>
	Schedule	Delivered within the approved schedule.	•	• The Project is on schedule to be substantially completed by winter 2023/2024.
Project Delivery	Budget	Delivered within the approved budget. Total Project budget is \$601 million.	•	<ul> <li>Project spending for the month of July 2023 was \$22.7 million and total Project spending to date is \$516.8 million.</li> <li>Total Federal Recoveries are \$215.2 million.</li> <li>The Project is forecast to be delivered within budget.</li> </ul>
	Safety	Take every reasonable step to ensure that our work is performed safely and in compliance with all applicable safety regulations, and in accordance with government policy.	•	<ul> <li>Monitored the implementation of the health and safety program and performed site visits.</li> <li>There have been zero (0) lost time injuries on the Project to date.</li> <li>Lost Time Injury Frequency Rate (LTIFR) for the Project is zero, which is less than the WorkSafeBC 2022 rate of 1.63 for Heavy Construction (Bridge, Overpass, or Viaduct Construction or Repair).</li> </ul>
	Quality	Implement an effective Quality Management System.		<ul> <li>Daily quality monitoring ongoing with no major issues observed.</li> </ul>
	Environmental	Ensure our work is performed in an environmentally responsible manner.		<ul><li>Ongoing submission reviews for management plans.</li><li>Ongoing weekly site surveillance visits.</li></ul>
	Archaeology	Ensure the work is performed in a manner that meets the standards of the Heritage Conservation Act.	•	• Finalizing reporting.
	Design and Construction	Provide design and technical oversight, coordinate and manage activities on site, and conduct compliance reviews.	•	<ul> <li>Oversight of Design-Build-Agreement (DBA) Project work.</li> <li>Compliance reviews during construction.</li> <li>Regular site surveillance and inspections by Project team.</li> <li>Ongoing traffic management and active traffic monitoring during construction.</li> </ul>

		Objectives	Project Status	Comments
	Community Benefits	Work collaboratively with BC Infrastructure Benefits Inc. (BCIB) to successfully implement the Community Benefits Agreement (CBA).	•	<ul> <li>Ongoing coordination and collaboration with BCIB to implement the CBA.</li> <li>Discussions regarding current and future Project workforce requirements continue to progress.</li> </ul>
Iders	Indigenous Groups	Continue to build and maintain a positive collaborative working relationship.	•	<ul> <li>The Project Team continues to collaborate with Indigenous Groups on key environmental values.</li> <li>Targets for indigenous contracting opportunities have all been achieved.</li> </ul>
Partners/Stakeholders	Third Parties	Continue to build and maintain positive relationships and secure agreements with Project partners and other third parties.	•	• Regular communication and coordination with CP Rail.
Partn	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.	•	<ul> <li>Ongoing work to enhance quality and reliability of traffic notifications.</li> <li>Regular website and social media updates including highway status calendar and stakeholder notices.</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

ک	Project Planning and Development	<ul> <li><u>Business Case Supplemental Memo (2019)</u></li> <li><u>Cost Report (2019)</u></li> <li><u>Risk Report (2019)</u></li> <li>Executed Design-Build-Agreement (November 2020)</li> </ul>
Project Delivery	Environmental	<ul> <li><u>Environmental Synopsis Report (2016)</u></li> <li><u>Various Environmental Reports (2005 – 2016)</u></li> </ul>
Projec	Archaeology	<ul> <li>Heritage Inspection Permit 2019-0208 (2019)</li> <li>Archaeological and Heritage Resource Management Plan (AHRMP) (August 2020)</li> <li>Site Alteration Permit 2020-0297 (October 2020) and subsequent amendments</li> </ul>
	Community Benefits	<ul> <li><u>Community Benefits Agreement (July 2018)</u></li> <li>BCIB Health and Safety Program (March 2020)</li> <li>BCIB-AIRCC Enabling Agreement (May 2020)</li> <li><u>Project Definition: Trans Canada Highway #1 – Kamloops to Alberta Border 4-Laning Project (March 2020)</u></li> <li>BCIB-Contractor Agreement (March 2020)</li> <li>BCIB-Subcontractor Agreement (March 2020)</li> </ul>
	Third Parties	Contribution Agreement – Government of Canada (2017)

# 4. Monthly Highlights and Three Month Lookahead

#### 4.1 Safety

Scope:	<ul> <li>Establish Occupational Health and Safety (OH&amp;S) Project delivery objectives and performance measures.</li> <li>Manage Project OH&amp;S activities and monitor performance metrics.</li> <li>Ensure the Project complies with relevant WorkSafeBC regulations and government requirements.</li> <li>Outline relevant health and safety management processes and activities.</li> </ul>
Monthly Highlights:	<ul> <li>Conducted a Site Safety Audit on July 28, no significant issues identified.</li> <li>There were seven (7) first aid incidents, one (1) medical aid incident, zero (0) near misses, and two (2) equipment damage incidents for the month of July.</li> <li>Lost Time Injury Frequency Rate (LTIFR) for the Project is 0, which is less than the WorkSafeBC 2022 average of 1.63 for Bridge, Overpass, or Viaduct Construction or Repair (subsector Heavy Construction).</li> </ul>
Three Month Lookahead:	<ul> <li>Maintain Province's Safety Management Plan for implementation as part of the Design-Build Agreement to align with KHCC, Transportation Investment Corporation (TIC), the Owner's Engineer (OE) and Ministry of Transportation and Infrastructure requirements.</li> <li>Conduct orientation and safety training for onsite personnel as required.</li> <li>Conduct surveillance audits of KHCC's safety management performance.</li> </ul>

#### 4.2 Quality

Scope:	<ul> <li>Establish quality objectives and performance measures.</li> <li>Monitor relevant quality management performance metrics.</li> <li>Manage Project quality management activities.</li> </ul>
Monthly Highlights:	<ul> <li>Four (4) Non-conformity Reports (NCRs) were received this month related to concrete strength and pile height; no significant issues found. To date there have been a total of 102 NCRs (0 open and 102 closed).</li> <li>No quality audit scheduled for the month of July.</li> </ul>
Three Month Lookahead:	<ul> <li>Oversee quality of KHCC work onsite.</li> <li>Record and distribute daily observation reports of work onsite.</li> <li>Review KHCC quality records for compliance to the DBA.</li> <li>Conduct monthly audits of KHCC quality processes.</li> </ul>

#### 4.3 Environmental

Scope:	<ul> <li>Complete environmental reviews of KHCC's submissions.</li> <li>Support communications team with stakeholder engagement.</li> <li>Conduct site surveillance and provide environmental support to Project as and when needed.</li> </ul>
Monthly Highlights:	<ul> <li>Reviewed KHCC submissions.</li> <li>Regular and ongoing site environmental surveillance.</li> </ul>
Three Month Lookahead:	<ul> <li>Ongoing review of KHCC's environmental submissions.</li> <li>Conduct site environmental surveillance.</li> <li>Continue collaboration with the Golden District Rod and Gun Club and the Ktunaxa Nation Council on bighorn sheep monitoring.</li> </ul>

## 4.4 Archaeology

Scope:	<ul> <li>Managing, directing, and undertaking all archaeological work, including Archaeology Impact Assessment (AIA), Systematic Data Recovery (SDR), and monitoring.</li> <li>Providing the Province and KHCC with information for the management of archaeological and heritage resources.</li> <li>Responding to chance archaeological or heritage finds.</li> </ul>
Monthly Highlights:	Finalizing reporting.
Three Month Lookahead:	Complete reporting by September 2023.

## 4.5 Design and Construction

Scope:	<ul> <li>Travel demand forecasting, traffic operations modelling, traffic data collection, and other related engineering services in support of the traffic management regime proposed for the Project.</li> <li>Provide technical support to the Project team during the review of contractor submittals.</li> <li>Oversight of DBA Project work.</li> <li>Compliance reviews during construction.</li> <li>Develop plans for managing traffic along the alternate route Highway 93/95 during full Project closures.</li> <li>Establish agreements with other jurisdictions for provision of services along the alternate route.</li> </ul>
Monthly Highlights:	<ul> <li>Sheep's Bridge – Deck rebar installation ongoing.</li> <li>Bighorn Viaduct – All stringers now installed, form work for bearings ongoing.</li> </ul>

	<ul> <li>Bighorn Bridge – Concrete finishing on the underside of the bridge ongoing.</li> <li>Lynx Viaduct – Westbound substructure works ongoing; stringers placed in preparation for decking.</li> <li>Frenchman's Bridge / Viaduct – Parapet wall rebar installation ongoing.</li> <li>Elk Viaduct – Wet curing of concrete deck ongoing.</li> <li>Cut 4 – Blasting and mechanical rock excavation in the Cut 4 area (Blackwall)</li> </ul>
	<ul> <li>ongoing as required for access to foundation piles, pile caps and stringers. Worker protection mesh installation ongoing.</li> <li>Wolf Viaduct – Back filling around median wall completed.</li> <li>Bison Upslope Wall – Installation of slope protection ongoing.</li> <li>Pronghorn Upslope – Mechanical excavation of material ongoing.</li> <li>Grizzly Viaduct – Concrete deck curing and parapet concrete pours ongoing.</li> <li>Grizzly Walls – Engineered backfill at Grizzly Wall 3 completed.</li> <li>Blackwall Bridge – Permanent utility bracket installation ongoing.</li> </ul>
	<ul> <li>Marmot Viaduct – Concrete deck pour completed, wet curing ongoing. Utility duct installation under viaduct structure ongoing.</li> <li>Caribou Viaduct – Rebar installation and concrete pours for median wall ongoing.</li> <li>Caribou Fill/Wall – Eastbound lane paving ongoing.</li> <li>Hedgehog Wall/Viaduct – Rebar installation at east abutment ongoing.</li> </ul>
Three Month Lookahead:	<ul> <li>Province review of documents as they are finalized.</li> <li>Monitor slope survey works.</li> <li>Undertake site surveillance, inspections, and audits by Project team, including OE Lead Engineer, OE Quality Manager, and OE Safety Advisor.</li> <li>Administer the Commuter Pass Program for 2023.</li> <li>Monitor KHCC traffic management performance through site.</li> </ul>

#### 4.6 Indigenous Groups

Scope:	• Fulfill Province's duty to consult and accommodate Indigenous communities and facilitate engagement and collaboration with communities on environmental and socio-economic interests.
Monthly Highlights:	<ul> <li>Facilitated Project team meetings with Indigenous communities.</li> <li>Continued collaboration with KHCC Indigenous Contracting and Employment Coordinator (ICEC) on employment and contracting opportunities for Indigenous Groups.</li> </ul>
Three Month Lookahead:	<ul> <li>Continue regular meetings with Indigenous Groups, including the Pespesellkwe, Ktunaxa, and Shuswap Indian Band.</li> <li>Continue monitoring and collaring of Bighorn sheep with Ktunaxa Nation Council (KNC) and Golden Rod and Gun Club.</li> </ul>

#### 4.7 Third Parties

Scope:	<ul> <li>Develop utilities and rail agreements as required.</li> </ul>
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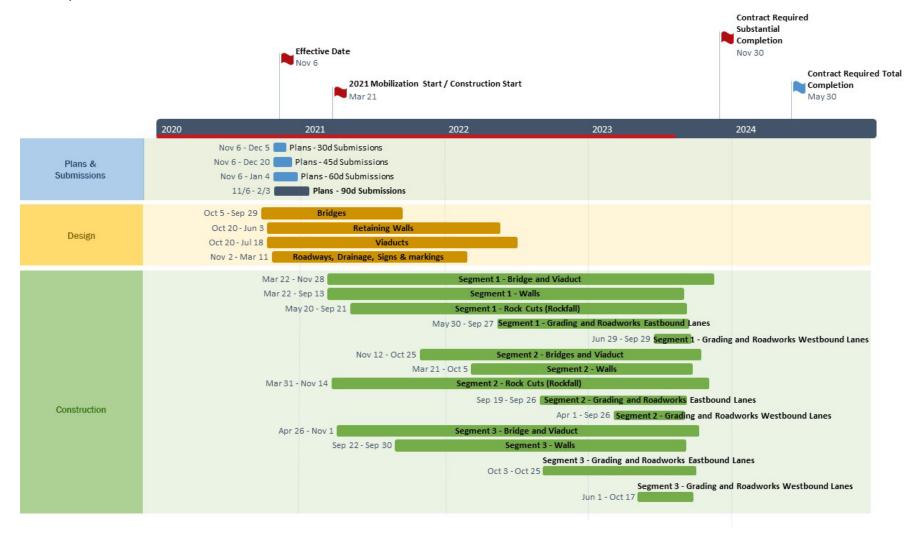
	<ul> <li>Secure local and regional government approvals as required.</li> </ul>
Monthly Highlights:	• Continued regular communication and coordination with CP Rail.
Three Month Lookahead:	<ul><li>Continue implementation of Protocol Agreement.</li><li>Coordinate blasting with CP.</li></ul>

#### 4.8 Public and Stakeholder Engagement

Scope:	<ul> <li>Manage ongoing public and stakeholder communications and engagement.</li> </ul>
Monthly Highlights:	<ul> <li>Released monthly Project newsletter.</li> <li>Responded to 183 public/stakeholder inquiries.</li> <li>Continued planning for Fall 2023 milestone event to mark substantial completion.</li> </ul>
Three Month Lookahead:	<ul> <li>Oversight of KHCC's communication and public engagement obligations and activities.</li> <li>Build awareness of construction and traffic management activities with media info bulletins/interviews, website updates, newsletters and advisories, and social media.</li> <li>Continue planning for the final extended closures in early September and early October.</li> <li>Continue direct dialogue with key stakeholders.</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: Lynx Viaduct – Stringer installation ongoing – July 28, 2023



Figure 2: Cut 4 – Crew installing rock attenuator fencing – July 28, 2023

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Figure 3: Sheep Bridge – Deck rebar installation ongoing – July 29, 2023



Figure 4: Caribou Wall – Preparing asphalt surface to merge into eastbound lanes – July 28, 2023

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Figure 5: Bighorn Bridge – Bighorn sheep under the bridge – July 27, 2023

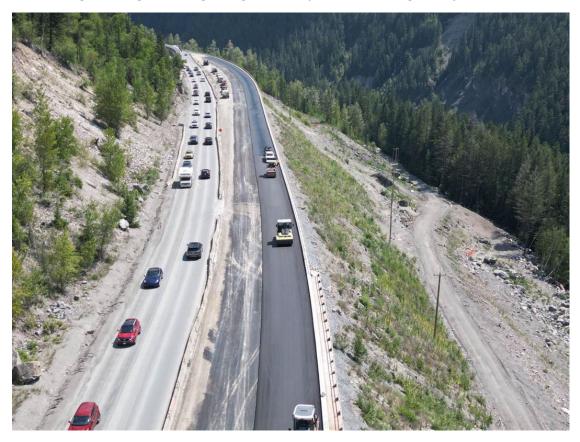


Figure 6: Caribou Wall – Crew paving eastbound lanes – July 31, 2023

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