

INDIGENOUS MONITOR OVERVIEW REPORT

Month: May 2020

Indigenous Monitors days on-site: 15

**Project Region: Jasper to Mount
Robson Reactivation
(Hinton to Hargreaves)**

**Kilometre Posts (KPs) monitored:
327–405**

Indigenous Monitors on Trans Mountain Reactivation Activities – Overview

The Trans Mountain Expansion Project (TMEP) is retaining Indigenous Monitors as integrated members of its construction Environmental Inspection team. Indigenous Monitors work with Environmental Inspectors to monitor compliance with approved mitigation measures to minimize impacts to traditional resource use and cultural/heritage impacts during TMEP construction.

Operations and maintenance work, including integrity digs and sleeve replacements occurring along the deactivated pipeline segments in Jasper National Park and Mount Robson Provincial Park, is not part of TMEP nor subject to TMEP Conditions. However, Trans Mountain will be including Indigenous Monitors during certain operations and maintenance work in reactivation areas, as it relates to preparing for future TMEP construction activities.

This Overview Report provides highlights of the Indigenous Monitors' day-to-day work and key highlights observed by the Monitors in the Jasper to Mount Robson Reactivation region (Hinton to Hargreaves), specifically Jasper National Park. The purpose of this report is to provide an update on Indigenous Monitor activities to Indigenous groups. During this reporting period, key activities in the Jasper to Mount Robson Reactivation region involving Indigenous Monitors included inspection and monitoring activities within Jasper National Park related to integrity digs, sleeve replacements, instream pipe replacements (Natural Hazard Replacements), cleanup and reclamation, environmental features staking and flagging, and wildlife observation and management. **For more information: info@transmountain.com or call 1.866.514.6700.**

Trans Mountain COVID-19 – Our Response

Trans Mountain is actively monitoring the COVID-19 situation with the help of federal, provincial and local agencies. Trans Mountain's top priority remains the health and safety of its workforce, their families and our communities. Trans Mountain and its construction contractors are working diligently together to adhere to all advice and direction from government and health officials, while ensuring the safe uninterrupted operation of the Trans Mountain Pipeline and the continued, safe construction of the Expansion Project. Measures being undertaken at construction sites include: temperature screening; following physical distancing guidelines; staggering work shifts and breaks; eliminating or minimizing in-person meetings; enhancing cleaning and sanitizing; and ensuring workers orientation includes COVID 19 expectations, awareness and prevention.

For more information: transmountain.com/covid19

Instream Pipe Replacement

In Jasper National Park there are various sections of pipe that run underneath watercourses and require replacement. This is due to the exposure of the pipe over time as a result of scour on top of the pipe. These are called Natural Hazard Remediation sites. The construction activities relating to the required instream work use an isolation crossing methodology consisting of upstream and downstream dams.

The Indigenous Monitors inspected and monitored the range of mitigations associated with the construction activity including biosecurity cleaning, topsoil/subsoil salvage, fish management/salvage, sediment and erosion control, water flow and quality management, dewatering, bridge placement and removal, and restoration of watercourse beds and banks to pre-construction configuration and alignment.



Bridge removal after instream works complete.

Cleanup and Reclamation

Cleanup and reclamation are important steps in returning disturbed sites to a stable condition similar to the condition the site was in prior to the construction activity.

Mitigation measures implemented during reactivation cleanup and reclamation include removing wooden access mats and cleaning up all associated matting debris and materials; re-establishing the construction site including watercourse bed and banks to a stable condition; re-establishing positive drainage across the worksite; preventing surface material loss due to soil erosion by wind and water; establishing a vegetative cover compatible with surrounding vegetation and land uses, and deterring the proliferation of weeds, all to maintain equivalent land capability.

The Indigenous Monitors inspected and participated in cleanup and reclamation activities, including monitoring of site housekeeping efforts, inspecting transplant areas including willow stakes in riparian zones and assisting with re-seeding in previously excavated and backfilled areas.



Restoration of watercourse bank using willow staking and instream boulder replacement.

Environmental Features – Staking and Flagging

Environmental features such as rare plants and rare ecological communities, wildlife species of concern, archeological features, Traditional Land Use (TLU) sites and any other sensitive environmental or cultural features and buffers that occur on or adjacent to the construction footprint are staked, flagged and sometimes fenced prior to commencing construction. The features are clearly marked so they can be avoided and protected during construction.

The Indigenous Monitors inspect the environmental features staking and flagging efforts to ensure the appropriate mitigations are being followed, such as clearly marking all identified areas and that buffer zones are the correct distances. The Indigenous Monitors also participate in the staking and flagging of archeological areas of interest, rare plants, TLU resources and wildlife habitat.



Yellow Rumped Warbler male territory calling habitat is marked with a 30-m buffer.

Wildlife Observation and Management

Mitigation measures including fencing around construction areas and wildlife observations and sweeps have been developed to minimize potential effects on wildlife in Jasper National Park and to protect the safety of workers related to potential wildlife interactions. Indigenous Monitors inspect fencing around construction areas to ensure they are functional and keeping wildlife from entering.

Indigenous Monitors also inspect reclaimed construction areas for returning wildlife and participate in wildlife sweeps (e.g., walking around looking for wildlife or signs of wildlife like scat or wildlife trees) in areas where construction activities are occurring. Some of the species for which wildlife sweeps are conducted include Colombian Ground Squirrels, elk, deer, Yellow Rumped Warbler, Pileated woodpecker and several species of raptors. Wildlife observation is especially important in the spring when animal activity increases and migratory birds return.



Wildlife tree.

Wildlife Observation and Management (cont'd)

In addition to the sweeps, a Jasper National Park Wildlife Management Plan is followed to avoid or reduce the risk and severity of wildlife conflicts during construction. Part of this plan is reporting wildlife sightings so appropriate mitigation measures can be followed if necessary. In May, bear and wolf sightings were reported.



Fence installed to keep wildlife from entering construction area.

Indigenous Monitor Request Dashboard

Indigenous Monitors are provided daily on-site field support from Environmental Inspectors and office support from Indigenous Monitor Coordinators. Indigenous Monitors can also make specific support requests or submit questions through their daily report. Examples include but are not limited to: request for Project reports, input from an environmental resource specialist or on-site support from an Elder or other cultural knowledge holder. Monthly requests and their completion status are noted below.

| Status | Number and Type of Requests | | | | |
|-------------|-----------------------------|------------------------------------|---------------------------------|-------|-------|
| | Project Reports/Documents | Environmental Resource Specialists | Elder/Cultural Knowledge Holder | Other | Total |
| Total | 0 | 0 | 0 | 0 | 0 |
| Fulfilled | - | - | - | - | - |
| Outstanding | - | - | - | - | - |

This report has been reviewed by the active Indigenous Monitor(s)

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