

INDIGENOUS MONITOR OVERVIEW REPORT

Month: October 2020

Indigenous Monitors days on-site: 25

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

**Kilometre Posts (KPs) monitored:
322–461**

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 and Mount Robson Provincial 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 monitoring activities related to fish habitat, traditional land use areas, and watercourse crossings.

For more information: email 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 our 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: www.transmountain.com/covid19.

Fish Habitat – Spawning Deterrent Mats

Trans Mountain has committed to using preventative measures to protect spawning fish, including the use of regulatory approved spawning deterrent mats. Placing spawning deterrents in areas of proposed construction or within the immediate zone-of-influence can effectively prevent fish from spawning there, encouraging them to spawn upstream or downstream of the crossing location, minimizing the potential for impact on fish reproducing in the area

Spawning deterrent mats are used as a site-specific mitigation measure at select fish-bearing watercourses. They typically consist of plastic snow fencing, that covers the substrate and are held in place with large cobble, small boulders and/or sandbags. All deterrent matting is placed in a manner that avoids obstruction to fish passage and does not require machinery to install.

The Indigenous Monitors inspected the Miette River crossing spawning deterrents to ensure the matting was in place and secure. Indigenous Monitors also assisted Resource Specialists in stream data collection, including temperature, flow rates, turbidity and depth.



Installed spawning deterrent mats at Miette River.



Upstream view of Miette River spawning deterrent mat.

Traditional Land Use Areas

During pre-construction activities, previously identified Traditional Land Use areas are marked with stakes and flagging ribbon by Resource Specialist crews as part of the environmental flagging and staking program. Signage is also installed to indicate the area to construction crews.

The Indigenous Monitors performed monitoring and inspection activities to ensure environmental features, including previously identified Traditional Land Use areas, had been staked, flagged and signed in advance of construction activities and are observed during construction. Pictured to the right is a section of the Vine Creek workspace, which has been ribboned off due to cultural resources like medicinal plants and a mother tree.



Flagged medicinal plants and a mother tree.

Vine Creek Crossing – In-Stream Work

In various locations in Jasper National Park and Mount Robson Provincial Park, the existing pipeline is located underneath a watercourse. When operations and maintenance activities are required at that location, an isolation methodology is typically used for this work, whereby the flow of water at the crossing site is isolated and pumped around the construction area to prevent construction materials and sediment from entering the watercourse outside of the isolated area.

In October, the Indigenous Monitors observed and monitored construction activities for the Vine Creek crossing in Jasper National Park. Environmental mitigation measures monitored and inspected include:

Pumps, Bypass Equipment, and Erosion and Sediment Control:

A secondary pump will be set up inside the isolation to pump out any seepage water. Pumps and other bypass equipment will be monitored for slush/ice build-up 24/7. Heaters will be available and backup bypass equipment will be in place. All required ESC measures will be installed prior to start of construction where required and maintained or upgraded throughout the duration of construction by SLLP.

Spill Prevention & Cleanup Considerations:

Spill response barrels will be placed on the east and west sides of Vine Creek, all equipment and vehicles will be equipped with spill response kits. Ensure all vehicles and equipment are in in good working condition (no leaks) prior to arrival on-site.



Vine Creek stream isolation.



Vine Creek stream isolation, water pumping.

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	1	-	-	-	1
Fulfilled	-	-	-	-	-
Outstanding	1	-	-	-	1

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

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