

INDIGENOUS MONITOR OVERVIEW REPORT

Month: October 2020

Indigenous Monitor days on-site: 20

Project Region: Lower Mainland

Kilometre Posts (KPs) monitored: n/a

Indigenous Monitors on the Trans Mountain Expansion Project – Overview

The Trans Mountain Expansion Project (the Project) has retained Indigenous Monitors as integrated members of its construction Environmental Inspection team. Indigenous Monitors work with Environmental Inspectors to monitor compliance with mitigation measures to minimize impacts to traditional resource use and cultural/heritage impacts during construction. Indigenous Monitors have a strategic role in providing traditional knowledge directly and pragmatically to construction oversight practices and bring an Indigenous lens to daily environmental inspection activities.

This Overview Report provides highlights of the Indigenous Monitors' day-to-day work and key mitigation measures observed by the Monitors related to Project construction in the Lower Mainland. The purpose of this report is to provide an update on Indigenous Monitor activity to Indigenous groups.

During this reporting period, key Project activities in the Lower Mainland region involving Indigenous Monitors included construction at Westridge Marine Terminal (WMT) and Burnaby Terminal. Activities included construction housekeeping monitoring and spill prevention observation, inspection and monitoring of construction activities of the Burnaby Mountain Tunnel Portal and Foreshore at WMT, and stormwater management systems at the Burnaby Terminal. The Project Construction Progress Report (Condition 106) for October 2020, which reports environmental events and deficiencies in Tables 4 and 5 respectively, is found [here](#).

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: transmountain.com/covid19

Westridge Portal of the Burnaby Mountain Tunnel Construction

At Westridge Marine Terminal (WMT), construction is underway on the Portal for the Burnaby Mountain Tunnel. The tunnel will connect WMT to the Burnaby Terminal.

The Indigenous Monitor at WMT inspects the tunnel portal construction area to ensure environmental mitigations are in place and functioning as intended. Mitigations measures being monitored include, but are not limited to, topsoil stripping, erosion and sediment control (ESC) measures in and around areas of exposed soil, correct discharge of construction contact water to the water treatment plant, use of drip trays beneath all equipment containing fuel/oil (when the equipment is not in use), proper segregation of waste materials and maintaining appropriate spill containment and cleanup materials near the active work areas.



Construction of the Burnaby Mountain Tunnel Portal at WMT.

Shoreline Construction Works

Shoreline works related to the expansion of the foreshore area at WMT were ongoing. Key construction activities included installation of sheet pile cells and arcs, infilling of the sheet pile cells and arcs, grading and levelling the fill material and cutting the sheet piles to design elevation. Ground improvement activities were also undertaken, including deep soil mixing and jet grouting.

Mitigation measures implemented to avoid or reduce potential adverse environmental effects include the installation and maintenance of sediment fences, berms and ditches along the shoreline to prevent sediment and grout from entering the marine environment. A turbidity curtain is also in place around the shoreline work area to contain any turbid water. Cured grout spoils are collected and placed on a large conveyor that loads the material onto barges for transport to a Trans Mountain approved off-site disposal facility.



Conveyor taking cured grout spoils material to barge for offsite disposal.

Shoreline Construction Works (cont'd.)

The Indigenous Monitor at WMT is performing ongoing inspection and monitoring of construction activities and mitigation measures as construction work on the foreshore continues.



Grout spoils material on barge ready for transport to Trans Mountain approved off-site disposal site.

Construction Site Housekeeping and Spill Prevention

The Indigenous Monitors at WMT and Burnaby Terminal regularly conduct inspections of the various construction areas for general housekeeping measures. This includes observing and documenting garbage and recycling disposal, scrap metal management, waste storage, fuel storage and proper use of vehicle and equipment spill kits. The Indigenous Monitors also inspect food waste containers to make sure they are wildlife proof throughout the site. Limiting human and wildlife interactions is a key mitigation measure in the Environmental Protection Plan.

While conducting inspections at WMT and Burnaby Terminal, the Indigenous Monitors report any observed spills left from vehicles or machinery. The Environmental Inspector is immediately notified and approves methods to clean up the impacted soil as prescribed in the Environmental Protection Plan – Spill Contingency Plan. Effects from small spot spills can generally be minimized and will not result in the suspension of activities if appropriate actions such as containing and cleaning up the substance are promptly implemented.



Signage on recycling bin at the Burnaby Terminal.

Stormwater Management

During construction, stormwater can be either contact water (stormwater exposed to construction areas) or non-contact water (water not exposed to construction areas).

Water from Construction Areas (Contact)

Stormwater collected in construction areas at the Burnaby Terminal is collected by ditches or culverts, placed throughout the site. These ditches divert stormwater to a newly constructed Intermediate Storm Water Retention Pond (ISWRP). The water is then treated and discharged to the Tertiary Containment Area (TCA).

Water from Above Terminal Property (Non-contact)

At the Burnaby Terminal, non-contact stormwater drainage flowing onto the property is predominantly collected in exterior perimeter ditches and directed to the Tertiary Containment Area retention pond by using open channel systems (surface ditches/swales and culverts).

The Indigenous Monitor at Burnaby Terminal regularly inspects the mitigations related to stormwater management. Additional inspections occur during significant rainfall to ensure stormwater systems are working effectively.



Intermediate Stormwater Retention Pond (ISWRP) at the Burnaby Terminal.



Stormwater collected into the Tank 97 holding area that will flow into retention pond.

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	0	0	0	1
Fulfilled	-	-	-	-	-
Outstanding	1	-	-	-	1

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

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