

INDIGENOUS MONITOR OVERVIEW REPORT

Month: June 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 in order 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 and Burnaby Terminal. Activities included inspection and monitoring of foreshore works, secant wall construction, super sac retaining wall construction, erosion and sediment control, contaminated soil removal, and construction site housekeeping.

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

Secant Wall Construction

At Westridge Marine Terminal (WMT), a secant wall is being built by installing overlapping primary and secondary concrete piles to create a continuous structure. This structure will be used as the shoring to create a work area and entrance portal to the Burnaby Mountain Tunnel. For construction to begin, a watercourse bisecting the portal area is being temporarily diverted using sandbags, pumps and hoses until manholes and culverts can be installed for the permanent diversion.

The Indigenous Monitor at WMT inspects the secant wall work area and construction activities on a daily basis to ensure environmental mitigations are in place and functioning as intended. Mitigations measures being monitored include, but are not limited to, salvage and storage of topsoil/root zone material, erosion and sediment control (ESC) measures in and around areas of exposed soil, pre-access inspections of all equipment to verify there are no leaks or drips and no soil or vegetative debris, 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 of materials near the active work areas.



Secant wall construction at WMT.

Super Sac Retaining Wall Construction – Eastern Foreshore

The super sac retaining wall at WMT is created by placing cubic meter bags filled with gravel into a bench cut out of the eastern foreshore slope. This wall will extend the eastern foreshore at WMT in order to build a temporary construction access road. It will also reduce the risk of any cementitious material seeping into the marine environment from other onshore construction activities (e.g., deep soil mixing and jet grouting).

The Indigenous Monitor at WMT inspects and monitors the construction of the super sac retaining wall to ensure all works are performed at low tide in dry conditions and no sediment, gravel, or other materials enter the marine environment.



Super sacs filled with gravel ready to be placed in wall.

Erosion and Sediment Control and Water Management

Erosion and sediment control (ESC) measures are monitored and inspected at WMT and Burnaby Terminal to ensure they are functioning as intended to mitigate erosion and sediment transport from construction sites to downstream areas, watercourses or the marine environment. On-site ESC mitigations include sediment fences, swales, wattles, straw, polyethylene sheeting, coco matting and hydroseeding, as well as water drainage control measures. Before and after heavy rainfall, the Indigenous Monitors inspect exposed slopes to ensure they are covered with the appropriate ESC measures.

At Burnaby Terminal, intricate surface and underground drainage is installed across the facility site to reduce the potential for soil erosion by water during construction activities. Daily, the Indigenous Monitor inspects the ESC water conveyance system which includes drainage ditches, canals and culverts, as well as runoff ponds and firewater storage areas. Additional inspections occur before and after significant rainfall to monitor flow and downstream water quality.



Drainage canal at Burnaby Terminal.

Contaminated Soil Removal

In some areas where construction excavation is occurring at Burnaby Terminal, historical contaminants in the soil have been identified. When contaminated soil is identified, the approved Contamination Discovery Contingency Plan is enacted and the Environmental Inspector and Trans Mountain Contaminated Sites Resource Specialist are consulted to determine the necessary mitigation measures. In all instances, the migration of the contamination from the disturbed construction area must be minimized.

As outlined in the Trans Mountain Facilities Environmental Protection Plan, mitigation measures for working with contaminated soil include, but are not limited to, segregating for later sampling and/or analysis and disposal; placing temporarily onto an impermeable surface; covering



Contaminated soil excavation at Burnaby Terminal.

Contaminated Soil Removal (cont'd)

with an impermeable cover in cases where precipitation may cause runoff and leaching in cases where runoff is imminent; and inspecting loaded trucks of contaminated material to ship to the appropriate facility safely. When required, sampling and laboratory analytical parameters for soil and water are applied. The Indigenous Monitor at Burnaby Terminal is inspecting and monitoring the excavation, sampling, and removal of the contaminated soil.

Construction Site Housekeeping Inspections

At WMT and Burnaby Terminal, the Indigenous Monitors 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, proper use of vehicle and equipment spill kits, vehicle and equipment parking, and wash areas.



Spill kit for machinery at Burnaby Terminal.

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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