



TRANSMOUNTAIN

Marine Progress Report

Fourth Edition

Fall 2022

Prepared by Trans Mountain in relation to the Expansion Project this semi-annual report provides progress updates on marine activities and key Marine Commitments and Conditions.

Trans Mountain is committed to providing updates on marine spill response enhancements, commitments, conditions and Indigenous participation. This information is based on data received up to September 30, 2022 and may be subject to revisions and corrections.

As described in Trans Mountain's Condition 91: Plan for Marine Spill Prevention and Response Commitments (filed January 2020), Western Canada Marine Response Corporation (WCMRC) will deliver an enhanced response regime to meet requirements of the Canada Energy Regulator (CER) Condition 133. WCMRC is on track to implement these enhancements that will double WCMRC's existing response capacity and significantly reduce response time. For more information on WCMRC's programs, email info@wcmrc.ca.



NEW WCMRC South Coast Response Bases



NEW Vessels



Key Regulatory Milestones

Conditions set out by the CER and the BC Environmental Assessment Office (BC EAO):

NO.	NAME	DUE DATE	STATUS
6	Compliance with Commitments	Updates filed monthly	In progress
91	Plan for Marine Spill Prevention and Response Commitments	Condition Filed	Complete
132	Marine Mammal Protection Program	3 months prior to in-service	In progress
133	Confirmation of marine spill prevention and response commitments	3 months prior to in-service	In progress
134	Updated Vessel Acceptance Standard and WMT Regulations and Operations Guide	3 months prior to in-service and annually for 5 years	In progress
144	Ongoing confirmation of marine spill prevention and response commitments	January after first year in-service and then annually	In progress
BC EAO 11	Indigenous Marine Outreach Program	3 months prior to in-service	In progress

Of 91 Marine Commitments*, 17 are for TERMPOL**:



FULL-TIME Employment Opportunities

WCMRC

New Full-Time Positions **123**

Hired **119**

Remaining to Hire **4**

Trans Mountain is also hiring at Westridge Marine Terminal (WMT): transmountain.com/careers

*For details, see Condition 6 Commitment Tracking Table filed with the CER (C21887) as of November 7, 2022.
** More details on TERMPOL can be found at: transmountain.com/TERMPOL.



Marine Community Engagement UPDATE

Trans Mountain engages with Indigenous and coastal communities along the shipping corridor in the Salish Sea to raise awareness of marine safety measures, build new relationships and share information on Project progress. Key highlights from the past six months include:

Marine Workshops: Trans Mountain delivered more than 10 workshops to Indigenous communities, local governments and health authorities between May 1 and August 30, 2022. Workshop topics focused on marine shipping-related conditions such as spill prevention and response measures, the Marine Mammal Protection Program (CER Condition 132), the Pre-consultation and Indigenous Marine Outreach Program (BC EAO 11), the Human Health Risk Report (BC EAO 38), the Existing Shoreline Report (BC EAO 39) and diluted bitumen research (BC EAO 35). Indigenous communities and stakeholders provided input on the plans and learned about participation opportunities for condition requirements.

Marine Mammal Protection Program (MMPP): A draft of the MMPP was shared for review and comment to Indigenous communities and key stakeholders in the marine regime and industry in September and October 2022. The MMPP considers the cumulative effects of marine shipping on marine mammals in the Salish Sea, such as southern resident killer whales, and outlines mitigation methods to contribute to their recovery. Trans Mountain expects to file the MMPP with the CER in 2023.

Marine Indigenous Outreach Plan (Safe Boating): Trans Mountain initiated its annual Safe Boating Week again in May 2022. This year's outreach included an online trivia contest, which resulted in a high level of engagement. Trans Mountain engaged with Indigenous media to help promote boating safety for Indigenous communities and raise awareness of the lifejacket initiative sponsored by Trans Mountain whereby Transport Canada established lifejacket libraries in more than 30 marine Indigenous communities on the coast.

Human Health Risk Report and Existing Shoreline Report: Trans Mountain initiated engagement on two new conditions assigned by the BC EAO, Human Health Risk Report (BC EAO 38) and Existing Shoreline Report (BC EAO 39). Indigenous marine communities were invited to participate in traditional food surveys to help understand the potential impacts on human health from a simulated worst-case ship-source marine spill in English Bay. They were also invited to join shoreline survey assessments along the shipping route to provide feedback and observe field data collection and additional research to assist in the recovery and restoration of shorelines in the event of a ship-source spill.



Marine Environment Safety UPDATE

Engagement continues with marine regime stakeholders and shipping industry organizations, such as the port authority and marine pilots, on safe, efficient and environmentally responsible shipping. Key highlights from the past six months are outlined below:

Vessel Acceptance Standard: To prepare for Project in-service and increased vessel traffic calling at Westridge Marine Terminal, Trans Mountain continued to work with shippers to review and refine the Vessel Acceptance Standard. These document enhancements reflect how Trans Mountain proposes to incorporate marine shipping-related conditions and commitments regarding vessel acceptance and loading at the expanded Westridge Marine Terminal.

Vancouver Fraser Port Authority Active Vessel Traffic Management (VFPA AVTM): Trans Mountain remained engaged in the VFPA AVTM process and focused on centralized scheduling of Second Narrows vessel transits. The discussions also covered anchorage use and standard behaviour of vessels at anchor. These important discussions involved industry partners operating in the Port of Vancouver to ensure safe, efficient and responsible vessel movements as well as supply chain fluidity over the long term.

Industry Forums: Trans Mountain continued to attend industry forums such as the Clean Pacific Spill Response Conference held in Washington state in August 2022. Trans Mountain used this opportunity to engage with stakeholders about marine shipping progress and the implementation of spill prevention and response measures, such as WCMRC's Enhanced Response Regime Program. Trans Mountain also monitored changes to marine policy and participated in reviewing and commenting on the proposed amendments to the Canada Shipping Act, 2001 and the Supply Chain Task Force.

Upcoming engagement will be on key topics that include:

- CER Condition 133 a (Enhanced Tug Escort)
- CER Condition 133 b (Enhanced Response Regime)
- CER Condition 132 (Marine Mammal Protection Program)
- Westridge Marine Terminal – Marine Construction Safety Boom
- BC EAO Condition 11 (Support for safe Indigenous traditional marine use and spill response education and awareness)



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EAC Condition 39 UPDATE: Discovering the Shoreline



Trans Mountain is progressing on its Existing Shorelines Condition Report and recently completed shoreline field surveys.

As required by the amendment to Trans Mountain's BC Environmental Assessment Certificate (EAC), Trans Mountain must prepare an Existing Shorelines Condition Report. The purpose is to assist in recovery and restoration in the event of a ship-sourced spill along the marine shipping route between Burrard Inlet and Vancouver Island. The BC EAO selected six locations to document pre-spill shoreline conditions.

Trans Mountain is using a variety of methods to document these conditions, such as literature review, database searches, consultation and field surveys. Polaris Applied Sciences, a consultancy that provides expertise in oil spill response preparedness and shoreline treatment, recently undertook shoreline surveys. Polaris documented current shoreline conditions including shoreline type, coastal character, and environmental and human-use resources.

As many of the locations are in remote areas, the consultants travelled by boat to access the sites during low tide. Once ashore, they examined the shoreline for 500 metres on either side of the pre-determined point. Part of their work is to determine the shoreline type and document the beach formation; they noted if the location contained rocks, sand or another substance. The consultants also identified which organisms live in the area and recorded any unique species, habitats and visible environmental sensitivities.

Indigenous representatives from several communities also participated. They shared information on harvesting practices, including crucial food sources, and drew attention to any cultural or traditional practices that could be threatened by an oil spill.

Upon its completion, spill response teams and government representatives can look to the Existing Shorelines Condition Report to develop effective response plans that reflect knowledge and uses of these areas current to 2022. For more information about Trans Mountain spill preparedness and response measures, visit transmountain.com/marine-safety.