

August 11, 2025

# APP 111th Annual Conference Panel Session:

Innovations and Efficiencies at  
Westridge Marine Terminal

Stephanie Snider, Manager Operational Performance





Shxw'ohamel Camp Ceremony 2022

## Acknowledgement

In the spirit of respect, Trans Mountain honours and acknowledges the shared territories of the Coast Salish Peoples, and that we are gathered today on the ancestral and unceded lands of the Snuneymuxw and Stz'uminus people. We also acknowledge the Indigenous Peoples who relationship to the land and waterways continues to this day and who continue to steward the oceans, the shorelines, and its watersheds.

# Agenda

## What we will cover

1. About Trans Mountain
2. Westridge Marine Terminal
3. Innovations
4. Operational Excellence
5. Path forward



# WHO WE ARE

Safety

Integrity

Respect

Excellence

## Vision

To be North America's most respected pipeline pathway for petroleum customers.

## Mission

We transport Western Canada's oil safely, competitively and reliably, opening up international markets and unlocking Canadian resources.



# Trans Mountain Pipeline System



## Critical Asset

- Canada's only pipeline system for crude oil and refined products to the West Coast
- Supply to the Pacific Northwest

## Twinned System

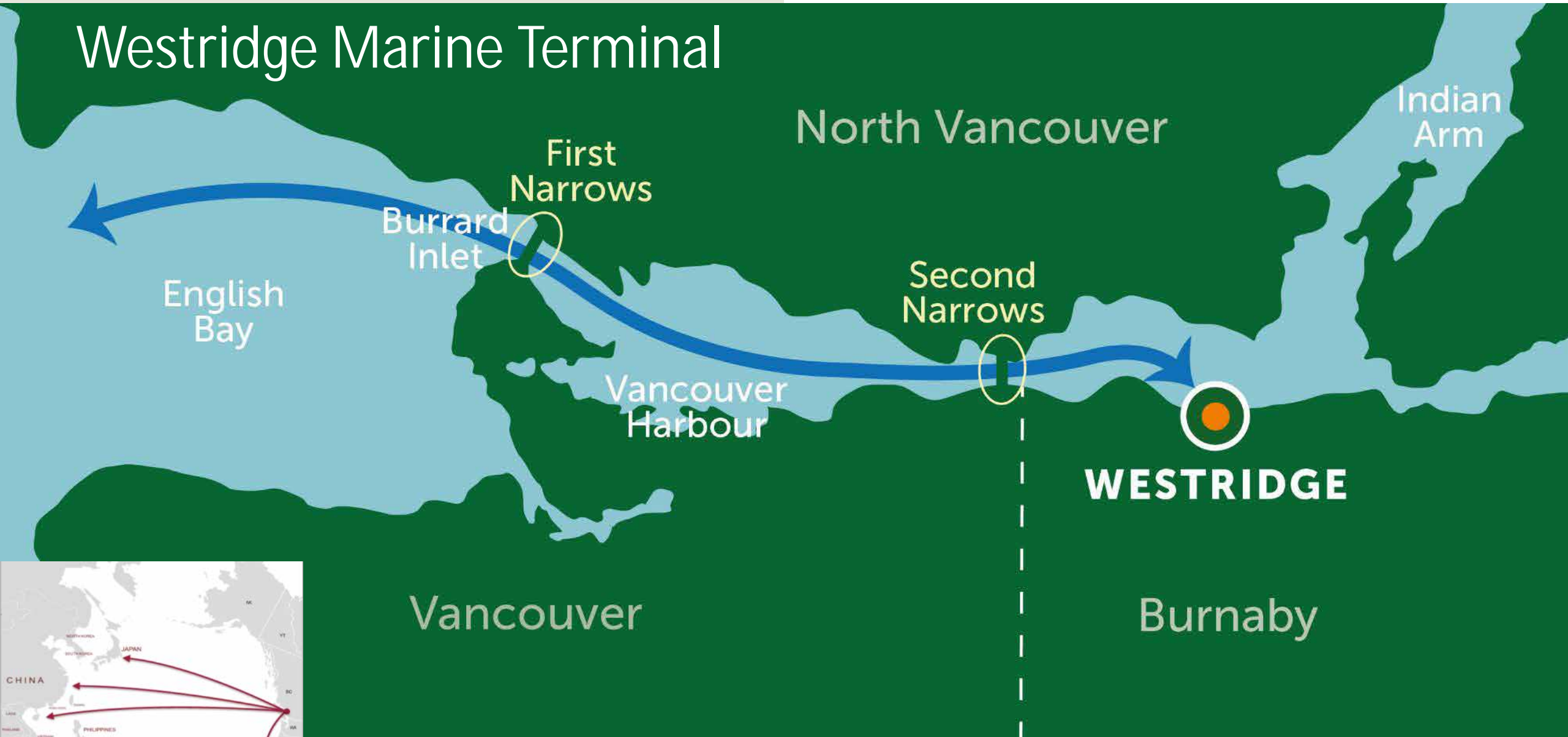
- Capacity Line 1 + Line 2 = **890,000 bpd**
- Line 1: 350,000 bpd, light crude & refined product
- Line 2: 540,000 bpd, heavy crude

## Uniquely Positioned

- Only sovereign path to Pacific Rim and world markets
- **630,000 bpd** tidewater export capacity



# Westridge Marine Terminal



LOCATION: Port of Vancouver (Burnaby, BC, Canada)



## Oil Export

- 3 berths for crude oil loading
- Vessels depart with crude oil for US and offshore markets
- Oil transported by pipeline stored at Burnaby terminal
- Load primarily Aframax tankers

## Jet Fuel Import

- Jet offload at berth #1 stored on site
- Jet fuel to Vancouver Airport (YVR) via another pipeline
- Primarily smaller tankers or barges

**Westridge Marine Terminal** (January 2024)

# Expansion of the Westridge Marine Terminal



# Innovations

## *Equipment & Technologies*



### Vapour Management

- Closed system
- Vapour combustion unit
- New vapour recovery units



### Dynamic mooring system

- Load monitoring
- Quick release hooks
- Remote release



### Terminal Management System

- Safety & efficiency
- Vessel nominations / vetting
- Reporting and analytics



# Innovations: *Ship-Terminal Interface*



## Vessel Acceptance Standard

- Ø TM criteria/requirements
- Ø Right to decline vessel
- Ø Acceptance process:
  - Ø Review and Preliminary Acceptance > Conditional Acceptance
  - Ø Masters' Declaration
  - Ø Physical inspection
  - Ø Acceptance of Notice

## Regulations and Operations Guide

- Ø Oil Pollution Prevention Plan
- Ø Terminal Information and Operating Guidelines
  - Ø Prepare for arrival and smooth turnaround of vessels

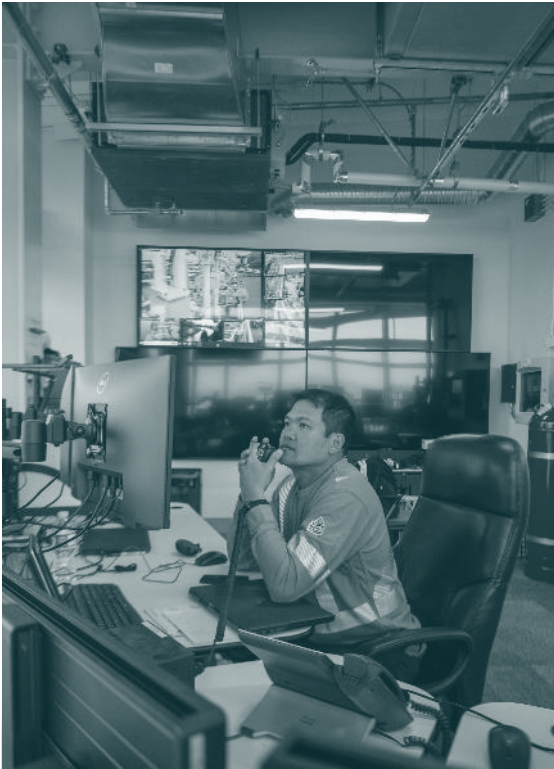
## Marine Interface Supervisors

- Ø Managing the ship/shore interface
  - Ø Vessel vetting and communication
  - Ø Physical inspection
  - Ø Ship-shore safety meeting
  - Ø Monitor ship and crew
  - Ø Authority to stop loading.
  - Ø Last on board until departure



# Operational Excellence

*Focus on People*



Safety Excellence



Confident, Competent Workforce



Relationships to Inform Improvements

# Our Path Forward

A large industrial vessel, likely a tanker, is docked at a terminal. The vessel's hull is dark, and the deck is visible with various structures, including a large crane-like structure and walkways. The sky is overcast with grey clouds. The foreground shows a metal grating walkway with a yellow safety strip.

## FOCUS ON SAFETY & RELIABILITY

- Operational Excellence
- Focus on our Front Line
- Meet Demand
- Drive Value

## HRO:

- Sensitivity to Operations
- Reluctance to Simplify
- Preoccupation with Failure
- Deference to Expertise
- Commitment to Resilience



Thank you



**TRANSMOUNTAIN**

