

Site 1 – 2115 Commissioner Street Proposed Marine Off-loading Facility & Laydown Yard

Kiewit Ledcor TMEP Partnership

Trans Mountain Expansion Project

Presentation to East Vancouver Port Lands Committee

September 19, 2017





Agenda

- 1. Trans Mountain & KLTP
- 2. Temporary Infrastructure Sites for TMEP
- 3. Site 1 2115 Commissioner Street
 - Intended use (site operations)
 - Schedule
 - Construction scope
 - Work hours
 - Environmental protection
- 4. Opportunities to provide feedback

Trans Mountain Pipeline



Current Operations

- Operating since 1953
- Capacity: 300,000 bpd
- 1,150 km between Edmonton and Burnaby
- TMPL also service Ferndale and Anacortes
- Transports refined products, heavy and light crude oils including dilbit

Proposed Expansion

Construction and operation of an expanded pipeline system

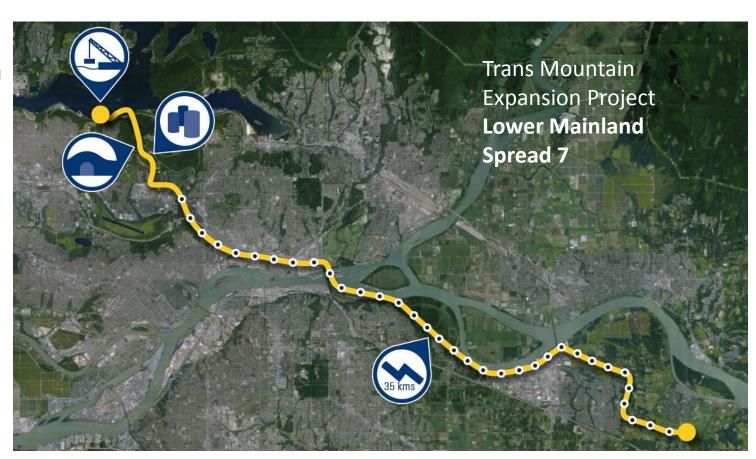
- \$7.4 billion capital cost
- Expand capacity to 890,000 bpd
- Twin remaining 980 km of pipeline
- 193 km of reactivated pipeline
- 12 new pump stations
- 19 new storage tanks
- Three new tanker berths
- Increase in tanker traffic not tanker size
- Must meet 157 NEB Conditions, 37 BCEAO Conditions
- 57 VFPA Conditions for Westridge Marine Terminal





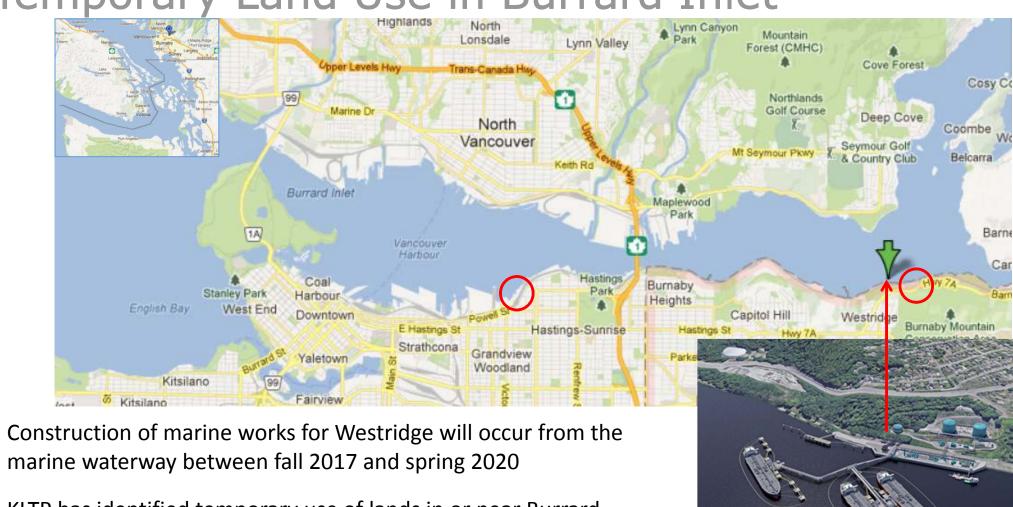
Kiewit Ledcor TMEP Partnership (KLTP)

- Contractor for Lower Mainland/Spread 7
- Responsible for construction of:
 - 35 km of the pipeline from Langley to Burnaby
 - Sumas Terminal
 - Burnaby Mountain Tunnel
 - Burnaby Terminal
 - Westridge Marine Terminal (WMT)





Temporary Land Use in Burrard Inlet



- marine waterway between fall 2017 and spring 2020
- KLTP has identified temporary use of lands in or near Burrard Inlet, including 2115 Commissioner St to support construction



2115 Commissioner Street – Site 1

 KLTP has submitted a Category C project permit application to the Vancouver Fraser Port Authority (VFPA) for the development of 2115 Commissioner Street as a temporary infrastructure site to support the construction of Westridge Marine Terminal



Site Operations

- Site 1 is intended as a marine loading and off-loading facility and laydown yard, with associated prefabricated trailers
- Other activities include parking on both Site 1 and Site 2 and the transport of construction workers by bus or water taxi to the worksite at WMT





Site Operations - On Land



 Two cranes will be stationed on-site to load/offload material from barges and trucks in the laydown areas

 Additional material handling equipment, such as forklifts and wheeled loaders will be on-site during the operational stage of the Project



Site Operations - Marine

- Up to two barges to be moored at site at any time
 - One barge in and one barge out each day; all barges to be controlled by tug boats with certified personnel
- Two to three water taxis will transport 50 to 60 workers daily to the WMT site
 - One vessel to carry ~40 passengers
 - Two vessels to carry ~12 passengers
- Each water taxi will make one trip at the start and end of each shift



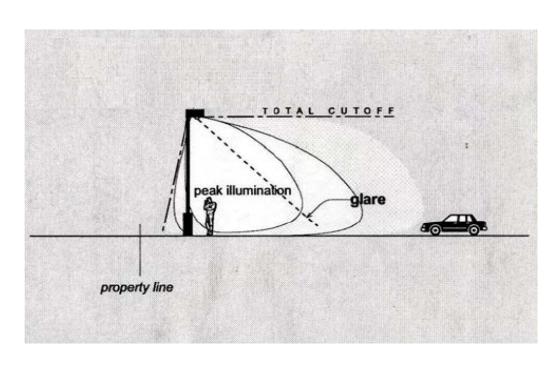
Traffic Management – Site Operations

	Light duty vehicles	Trucks	Buses
Weekday	130 6:00am - 7:00am 3:30pm – 6:00pm	10 7:00am - 9:00am 5:30pm – 7:30pm	Up to 2 buses
Saturday	40 6:00am - 7:00am 3:30pm – 6:00pm	10 7:00am - 9:00am 5:30pm – 7:30pm	Up to 2 buses

- The use of water taxi for workers as well as short driving distances to and from this site will help reduce overall traffic effects on the adjacent road network
 - Impacts are also managed because of established ingress/egress points for Commissioner Street port traffic
- Approximately 130 light duty and other worker vehicles will access the site each day before morning peak commuting period
- 1-2 buses will be used to transport workers to Westridge and other KLTP construction sites for TMEP. Each making one trip at the start and end of each shift
- Materials will be delivered to and hauled from the site on trucks



Lighting



- A detailed site lighting plan will be developed by a qualified lighting professional. Lighting will be designed in accordance with VFPA guidelines
- Installation of 10 temporary 470 watt area lights on the existing wooden poles along site perimeter
- LED Fixtures will be installed at 9 m (30 ft.) and orientated to 90 degrees facing away from surrounding community
- The optics within the LED fixture focuses the light to 180 degrees which diminishes the effects of backlighting
- Installed to improve safety and security on the site, without creating nuisance lighting for the neighbouring community or marine vessels



Schedule - Construction & Operation

- Early 2018: 8 weeks of site preparation (construction), subject to VFPA project permit approval
- February 2018 to the end of May 2020: Site 1 is expected to be in operation, subject to VFPA project permit approval

(timelines subject to change)



Construction Scope - Site 1

Site preparation includes:

- creation of a construction equipment laydown area
- security fence installation
- parking stalls delineation
- installation of site offices (prefabricated trailers)
- installation of temporary marine structures such as trestle dock and temporary mobile small boat dock for water taxis



Work Hours

Construction

 The construction work associated with site setup will be conducted within VFPA's standard construction hours of Monday to Saturday between the hours of 7:00 am and 8:00 pm

Site Operations

 Movement of project personnel may occur outside 7:00 am – 8:00 pm; all work will observe VFPA noise guidelines



Construction Environmental Management Plan*

- Submitted as part of permit application to VFPA
- Environmental best management practices for construction to reduce or eliminate effects on the environment and meet regulatory requirements
- Detailed biophysical assessment reports of the existing aquatic and terrestrial habitat have been completed
 - On-land: entire ground area previously disturbed by human activity
 - Marine: No long-term or irreversible effects expected for local fish and invertebrates



Construction Environmental Management Plan (cont'd)

 Potential effects to marine mammals, birds and/or fish from underwater noise, artificial lighting, or vessel movement to be mitigated during construction and operation of the proposed infrastructure and associated marine traffic

Measures include:

- Adherence to least-risk fisheries windows when piling
- Safe operations of Project-related vessels will be in observance of VFPA Guidelines and Port Information Guide
- Bird strike warnings to construction vessels during migration and bad weather
- Erosion and sediment control measures



Mitigating Construction Impacts

Pile Driving

- Installation of approx. 60 piles (ranging between 600-mm to 900-mm) diameter over 3-4 weeks
- Installation will occur in least-risk fisheries window to minimize impacts to juvenile fish
- In-water impact pile driving will be limited to daytime only
- Piles will be installed as far as possible by vibratory method; finished using a diesel impact hammer
- Use of underwater bubble curtains to limit noise travel underwater







OPPORTUNITIES TO PROVIDE FEEDBACK





Permit Status

- The Category C permit has entered the permit review phase with VFPA
- A public comment period of 20-business days is planned to start in late September / early October (tbc with VFPA)
 - Neighbours will receive direct notification by mail once comment period is announced
 - The proposed notification area will be in accordance with VFPA's Public Consultation Guidelines and agreed in advance with VFPA



Ongoing Engagement & Communications

- Feedback can be provided in person, by phone or in writing
 - oFor inquiries from stakeholders, neighbours and general public:
 - o Information line: 1-866-514-6700
 - o Email: info@transmountain.com
 - Ongoing communication about construction activities through multiple channels including online, traditional and social media
 - owww.facebook.com/TransMtn
- For questions regarding the Vancouver Fraser Port Authority's permitting process, please call 604-665-9570 or email Permit.Comments@portvancouver.com
- Inquiry management process
 - o Ensure all inquiries and complaints receive timely responses
 - Track and report on all inquiries and complaints for NEB and VFPA

*timing and specific activities may change



Thank You

Questions?

