



Trans Mountain Expansion Project Project Update and Construction Plans Clearwater

February 9, 2017



TRANSMOUNTAIN

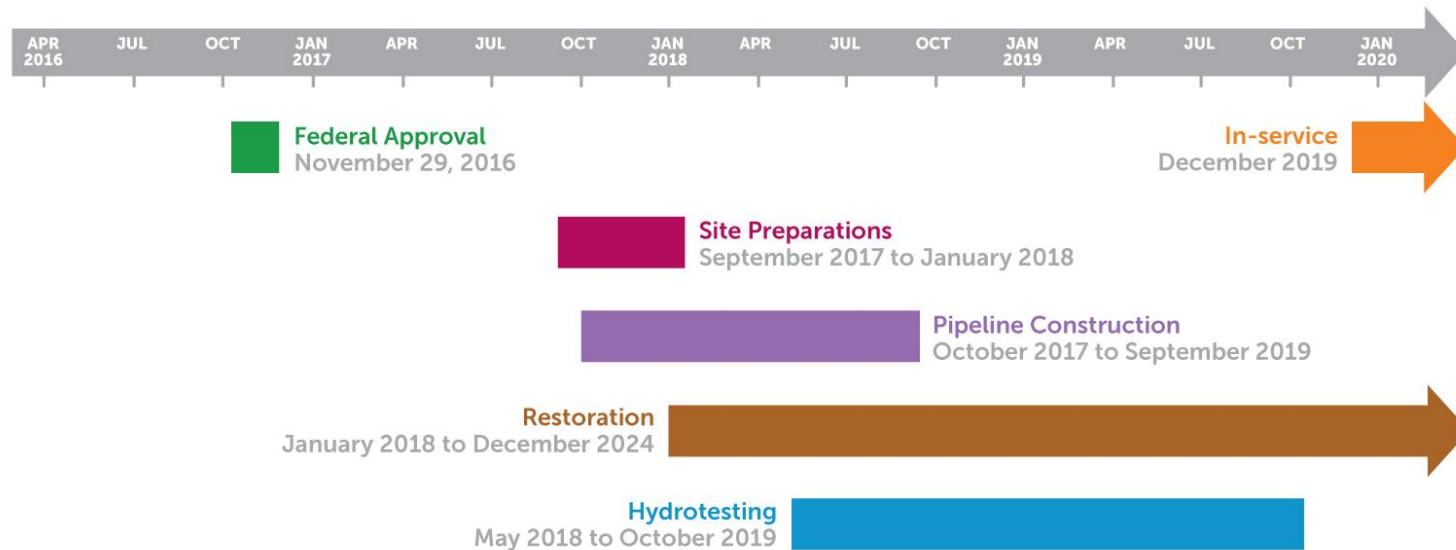
Trans Mountain Expansion



- \$6.8-billion capital cost*
- Expand capacity to 890,000 bpd
- Project scope
 - 980 kms new pipe
 - 12 new pump stations
 - 19 new tanks
 - 3 new tanker berths
- Increase in tanker traffic – not tanker size
- Westridge and Burnaby Terminals construction
- Project has received approvals
- 15- and-20 year contracts with shippers
- \$8.5-million Community Benefit Agreements

*Actual Project costs may change

Trans Mountain Construction Schedule*



Federal Approval • Governor in Council approved the Project following a positive recommendation from the National Energy Board in May 2016

Site Preparations • Line sweep, clearing, grading, access

Pipeline Construction • Haul, string, weld, lower-in, tie-in

Restoration • Cleanup, remove access, reclamation, monitoring

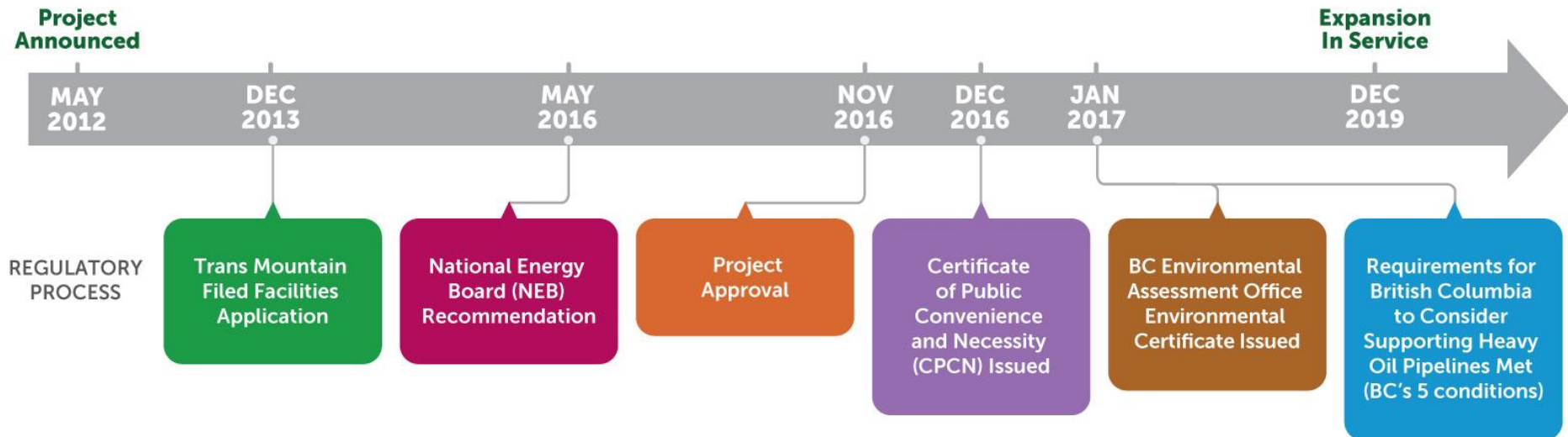
Hydrotesting

In-service

January 2017: Subject to change.

*This schedule is subject to change based on detailed construction planning and regulatory timelines.

Regulatory Process



This schedule is subject to change based on detailed construction planning and regulatory timelines.

Project Conditions

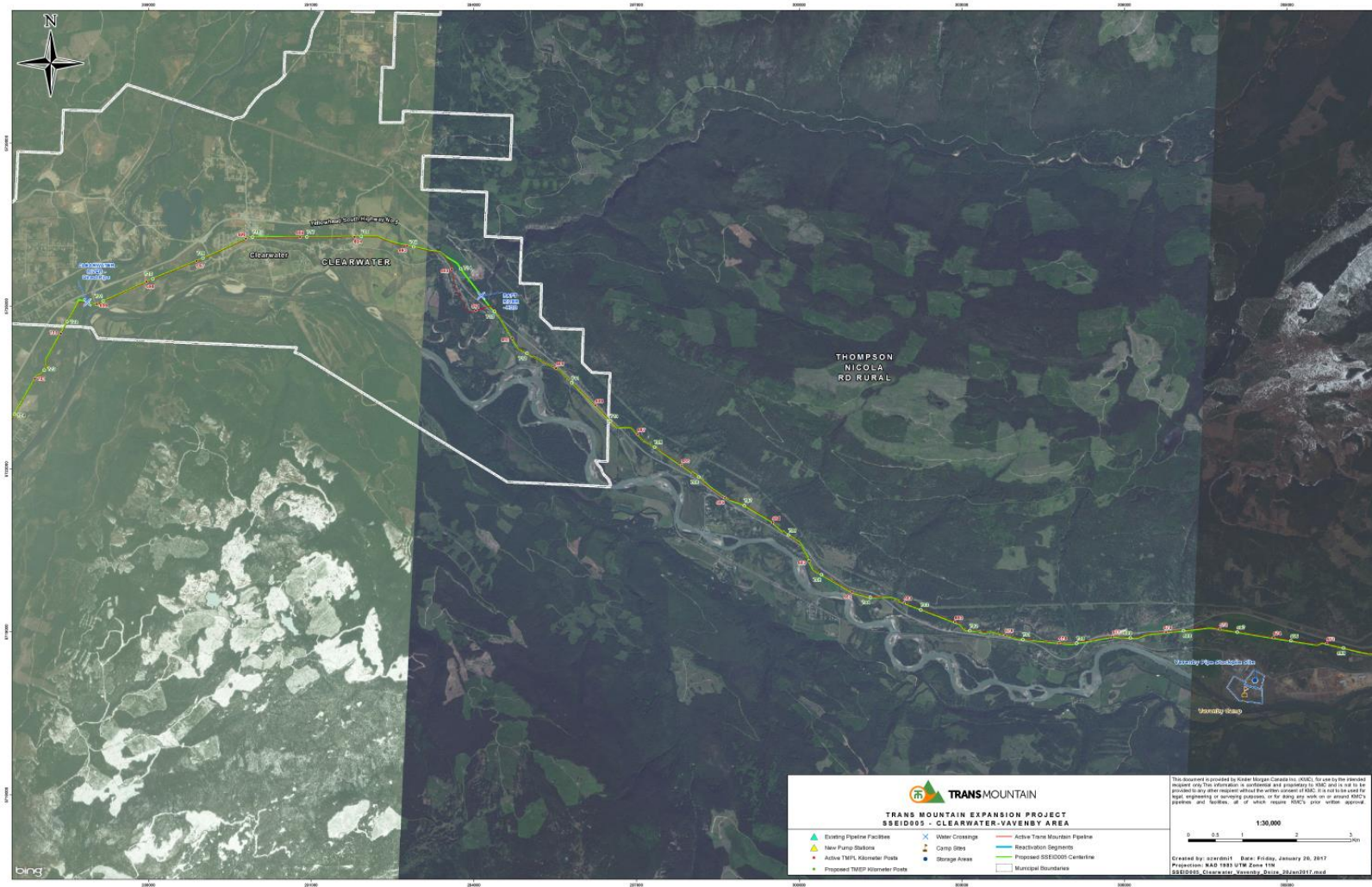


Conditions:

- 157 – NEB
- 37 – British Columbia Environmental Assessment Office (BCEAO)
- Variety of filing deadlines from pre-construction to operations
- Commitments (Condition 2)
 - 1,000 commitments to stakeholders and communities



Construction in Clearwater



Construction in Spread 4 – Clearwater



- Construction Hub: Pipe Laydown and Construction Yard
- September 2017:
 - Clearing
 - Temporary Sites
 - High Risk HDD crossings
- Q1 2018: Camp Construction
- May 2018 – June 2019: Pipeline Construction
- July 2019 – September 2019: Testing and Valve Installation



Workforce Hosting in Clearwater

- Fall 2018: Estimated peak workforce 700 plus 60 TMEP Construction Management staff
- Sleeper Camp – Estimated 350-person capacity
 - Amenities include: beds, laundry, as well as some recreation, health and medical services
- Local Accommodations: hotels, RV parks, rentals

Workforce Hosting



- A Worker Code of Conduct will be developed by the contractor, with input from Trans Mountain
- Trans Mountain is developing a Worker Accommodation Strategy in collaboration with contractors and local governments



Job Opportunities



- Trans Mountain is committed to providing opportunities for Aboriginal, local and regional residents
- Workers will be hired through contractors
- Contractors developing Employment Plans for approval by TMEP
- Contractors will actively recruit in advance of construction
- Interested individuals can register their interest at www.transmountain.com/jobs



Typical Pipeline Spread

47 Management

24 Foreman

26 Straw Boss

12 Mechanic

130 Equipment Operator

52 Driver

19 Coater/Sandblaster

31 Welder

31 Welder's Helper

20 Labourer Plus

145 Labourer

8 Tester

6 Medical and Security

35 Direct pipe/HDD

Procurement Opportunities

- Trans Mountain is committed to providing Project-related business opportunities to Aboriginal, local and regional groups
- \$4.5 billion anticipated in goods and services required
- Anticipated contracting opportunities:
 - Contracting Services
 - Professional Services
 - Materials/Equipment
 - Support Services



Procurement Opportunities

- Contractors developing Procurement Plan for approval by TMEP
- Contractors will award contracts to selected services and suppliers
- Register interest at www.transmountain.com/procurement



Project Status and Next Steps

- Q1 / Q2 2017:
 - Final cost estimate review with shippers
 - Final investment decision (FID) by the Kinder Morgan Board of Directors
- Q1 – Q3 2017: Continue to refine engineering, complete field work and planning for construction execution
- Q2 2017 – Q1 2018: Contractors Employment and Procurement Plan implementation.
- September 2017: Construction start – clearing, temporary sites and HDDs of high-risk crossings
- Late 2019: In-service
- 2019 – 2020+: Remediation and post-construction monitoring

Discussion Tables



- Jobs
- Procurement
- Workforce Hosting

We Want To Hear From You



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