



Trans Mountain Expansion Project Project Update and Construction Plans City of Kamloops

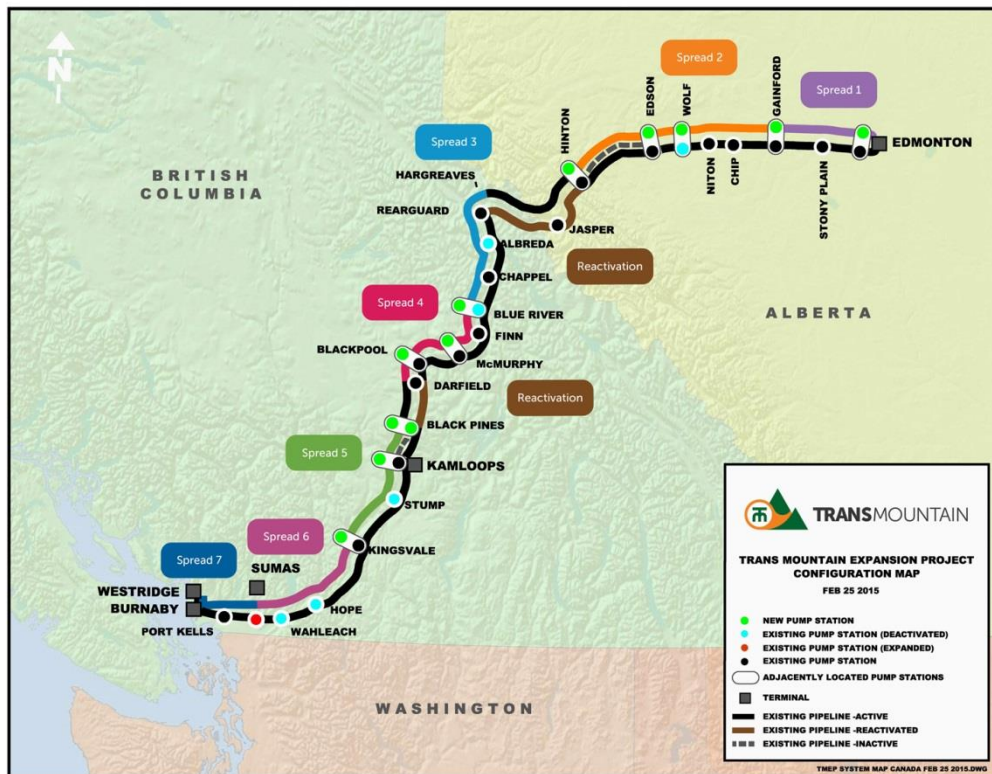
February 23, 2017



TRANSMOUNTAIN



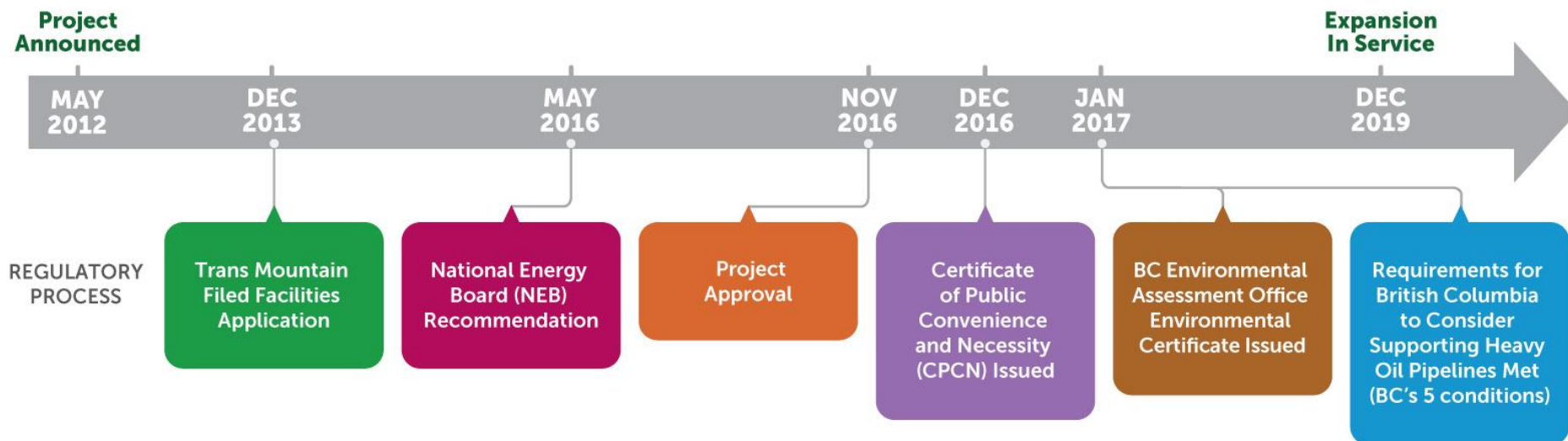
Trans Mountain Expansion



- \$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
- 15- and 20-year contracts with shippers
- \$8.5-million Community Benefit Agreements
- Project has received approvals

*Actual Project costs may change

Regulatory Process*



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

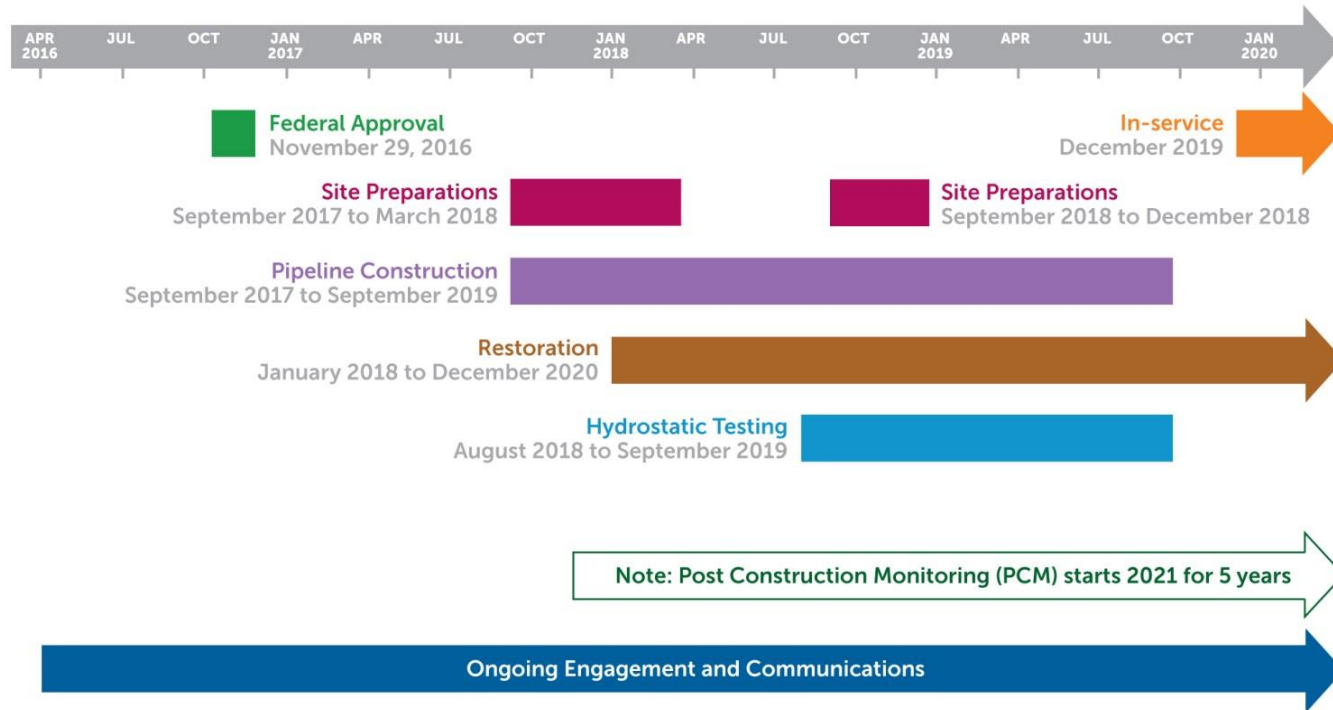
Project Conditions



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



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, access

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

Restoration • Cleanup, remove access, reclamation, monitoring

Hydrostatic testing

In-service

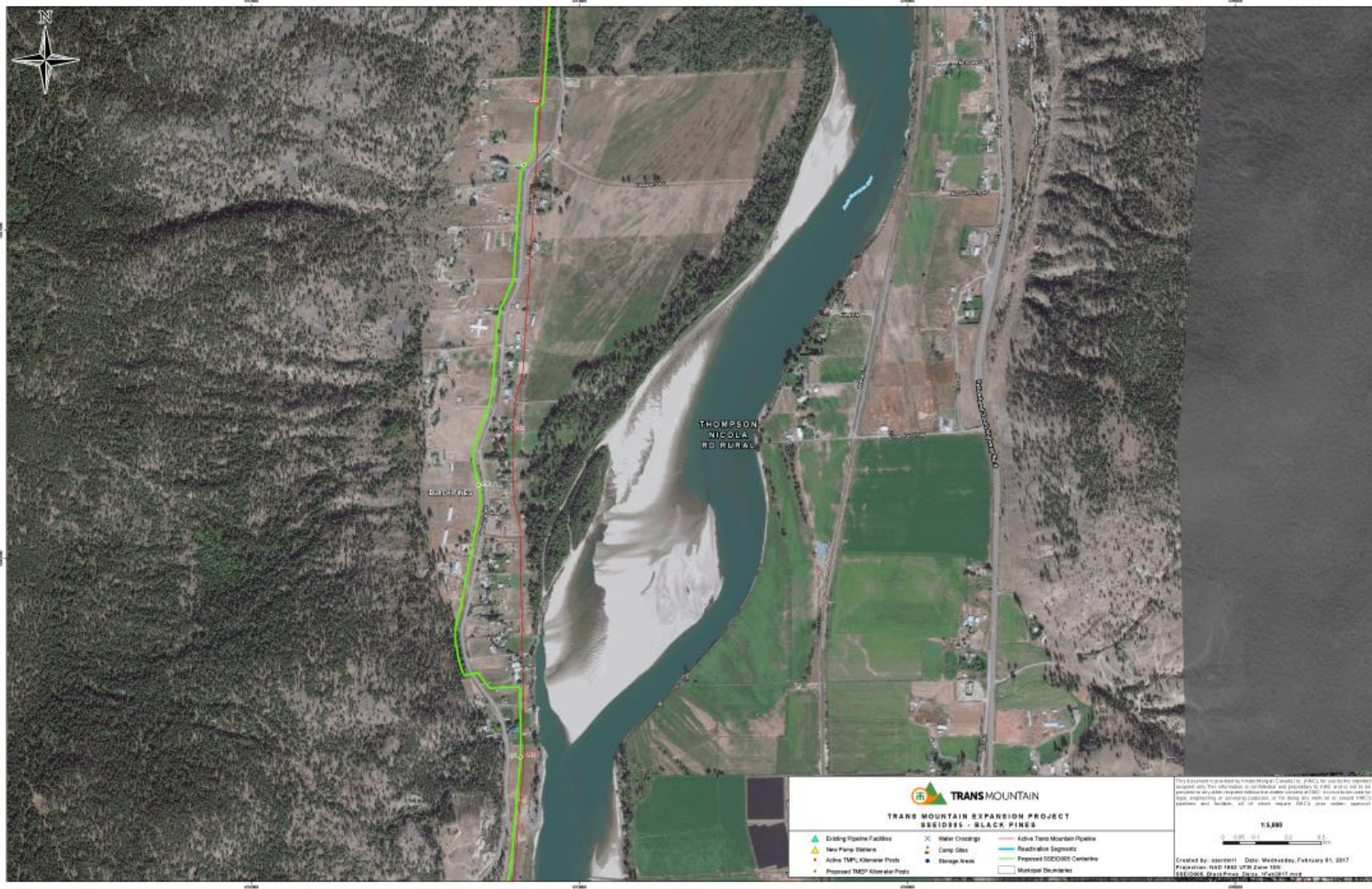
February 2017. Subject to change.

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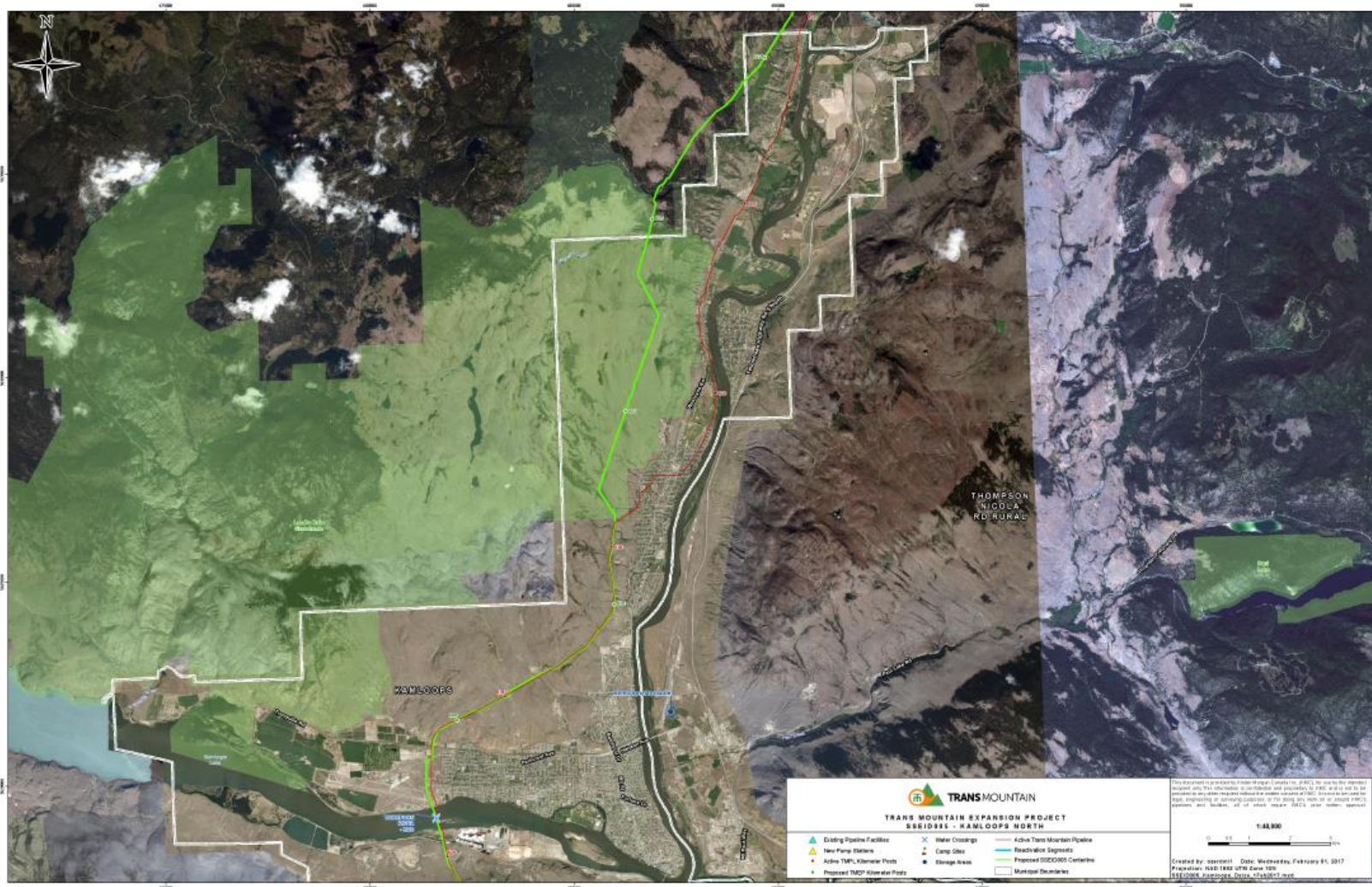
Construction in Spread 5A – Kamloops

- Construction Hub: Pipe Laydown and Construction Yard
- ## Activities
- September 2017
 - Clearing
 - Temporary Sites
 - September to November 2017
 - Trenchless drilling of Thompson River
 - July 2018 – February 2019
 - Pipeline Construction
 - May – September 2019
 - Testing and Valve Installation

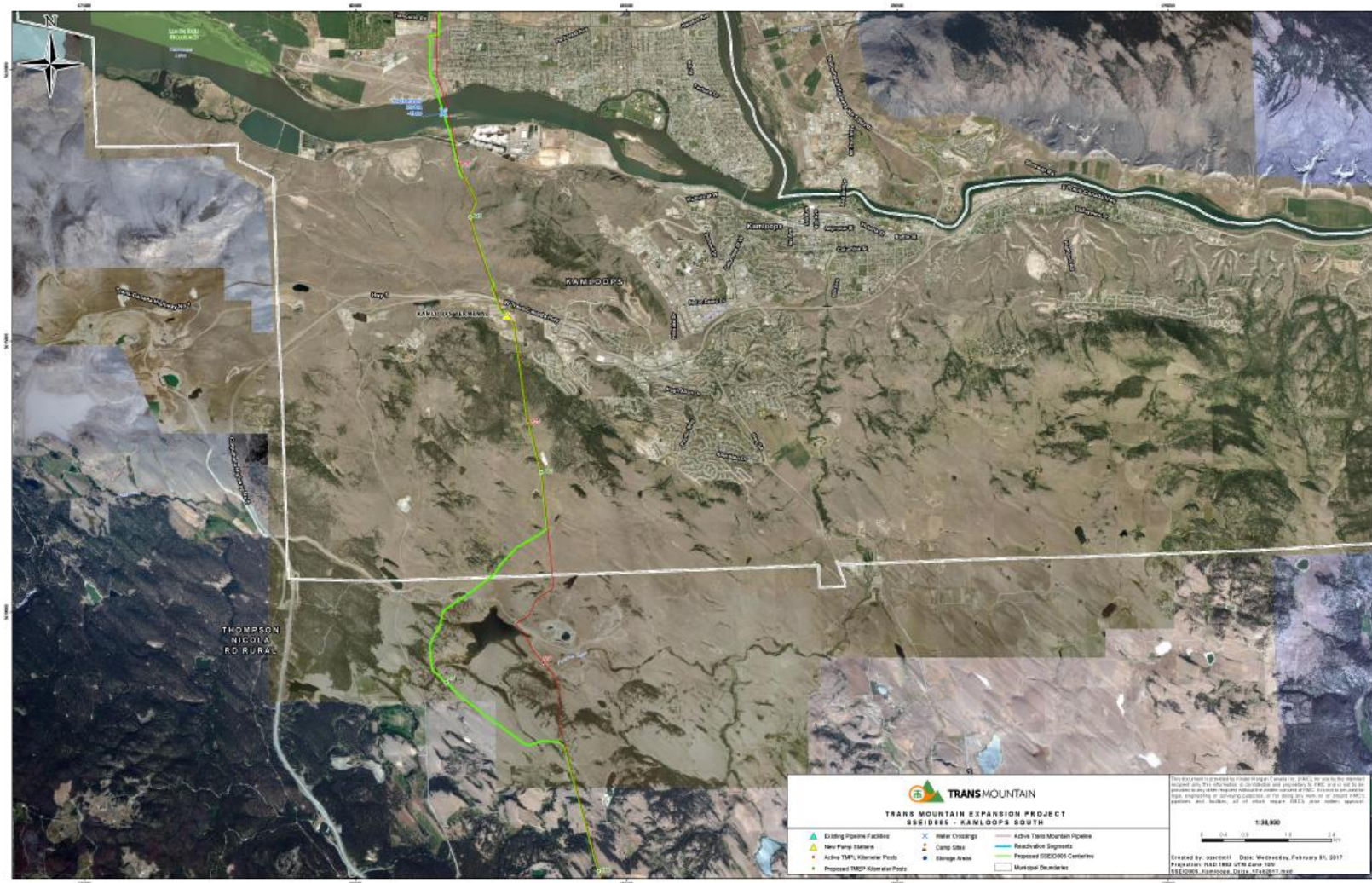
Construction in Black Pines



Construction in Kamloops North



Construction in Kamloops South



Workforce Hosting



- Trans Mountain has developed a Worker Accommodation Strategy in collaboration with contractors and local governments.
- A Worker Code of Conduct (WCC) will be developed by each Contractor to align with Trans Mountain WCC.



Workforce Hosting in Kamloops

- Estimated peak workforce in Fall 2018 - 550 workers plus 60 KMC Construction Management staff
- Local accommodation: hotels, RV parks and rentals



Job Opportunities



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



Estimated Pipeline Crew Size in Spread 5A



10 Survey

100 Indirects

40 Welders

150 Operators

200 Labourers

80 Truck Drivers

40 Camp Support

10 Non-Destructive
Testing

30 Trenchless

40 Construction
Management

700 Approximate Total

Procurement Opportunities

- Trans Mountain is committed to providing Project-related opportunities to Aboriginal, local and regional businesses
- Estimate \$4.5 billion spend on goods and services
 - Contracting Services
 - Professional Services
 - Materials/Equipment
 - Support Services



Procurement Opportunities

- Contractors are developing Procurement Plans 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 KM 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 critical crossings
- December 2019
 - In-service
- 2019 – 2020+
 - Reclamation and post-construction monitoring

Discussion Tables

- Jobs
- Procurement
- Workforce Hosting

We Want To Hear From You



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