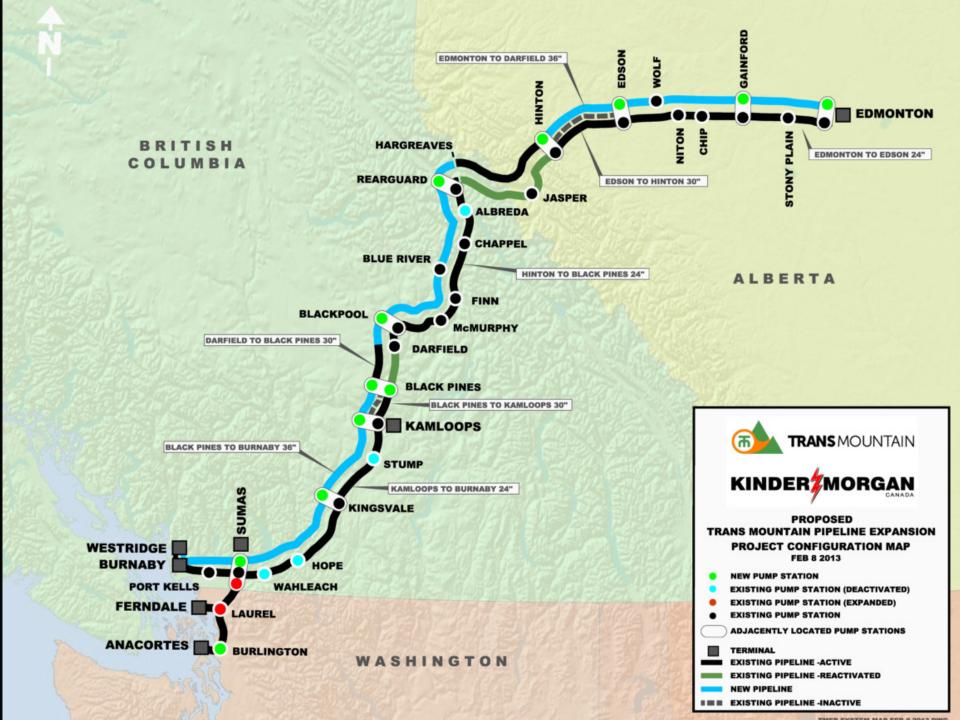
## City of Burnaby Opposition to the Kinder Morgan Trans Mountain Expansion Project

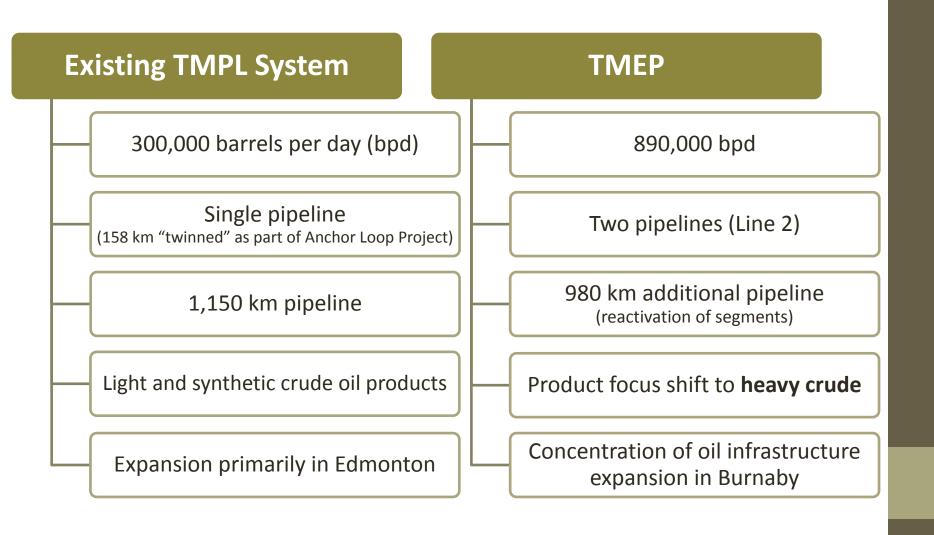
City Staff Presentation
Public Information Events
2014 April 9 + 15



## **Trans Mountain Expansion Project**



## **Summary of Kinder Morgan Project Scope**

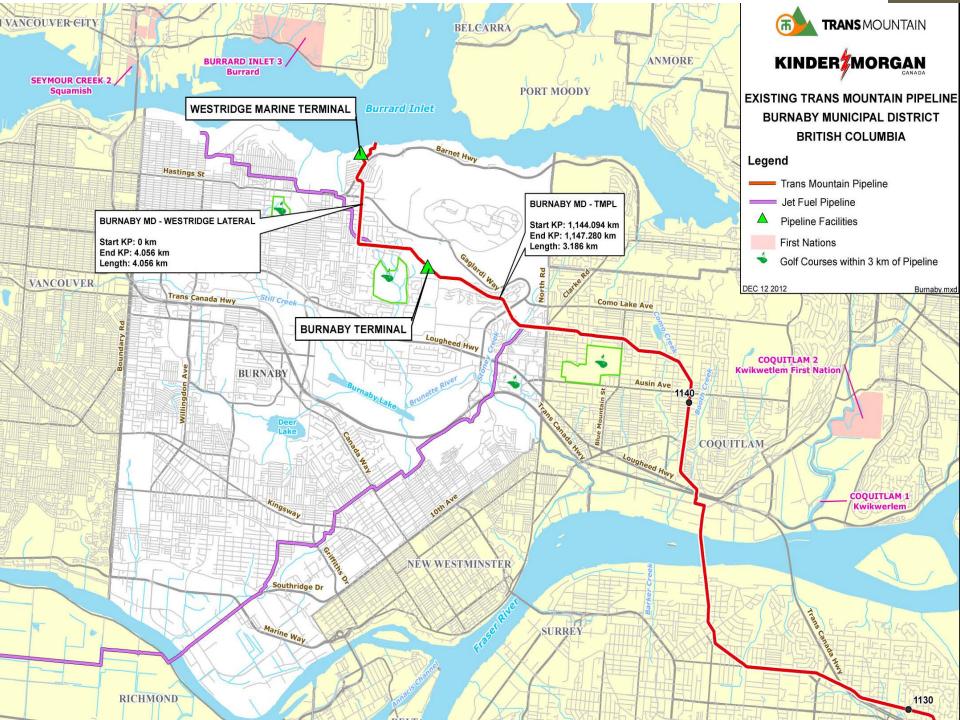


#### **Commercial Basis for the Expansion**

- Export
- Open Season 2011 2012
  - 13 shippers with firm service transportation agreements for 15- and 20-year terms
  - Total contracted volume under these agreements:
     707,500 bpd of the proposed 890,000 bpd

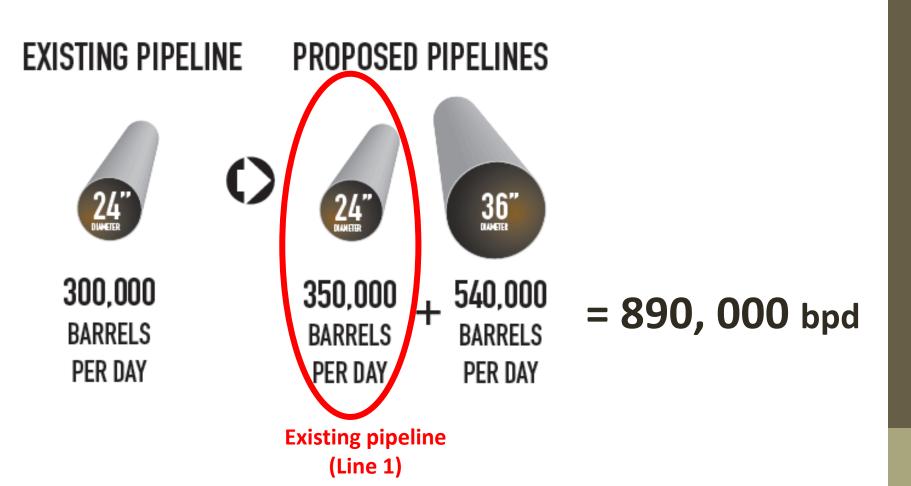
For comparison, 20% of the existing capacity of the TMPL meets 80 – 90% of B.C.'s gasoline and diesel needs

# What does the Kinder Morgan Trans Mountain Expansion Project Mean for Burnaby?

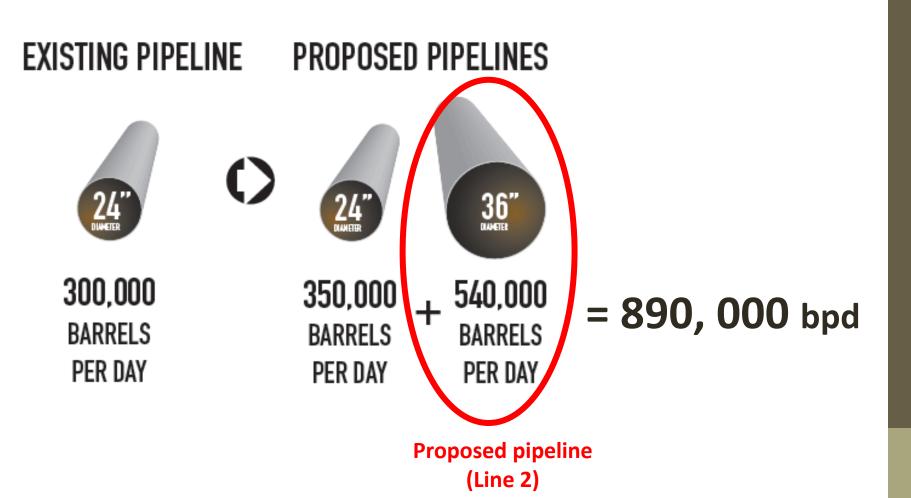


## Proposed Pipeline Infrastructure through Burnaby

### Pipeline Infrastructure

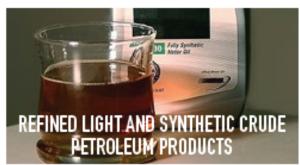


### Pipeline Infrastructure



#### **Product Being Carried through Burnaby**

#### EXISTING PRODUCT







PROPOSED PRODUCT

- Focus shift to heavy crude
- Line 2 (540,00 bpd)
   dedicated to heavy crude
- KM may also use the existing Line 1 (350,000 bpd) for the shipment of heavy crude at lower capacity

#### Oil Pipelines through Private and Public Properties

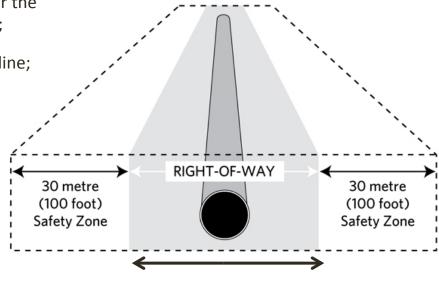
What is in a pipeline right-of-way?

## Written Permission/Permit Required for works within the Safety Zone:

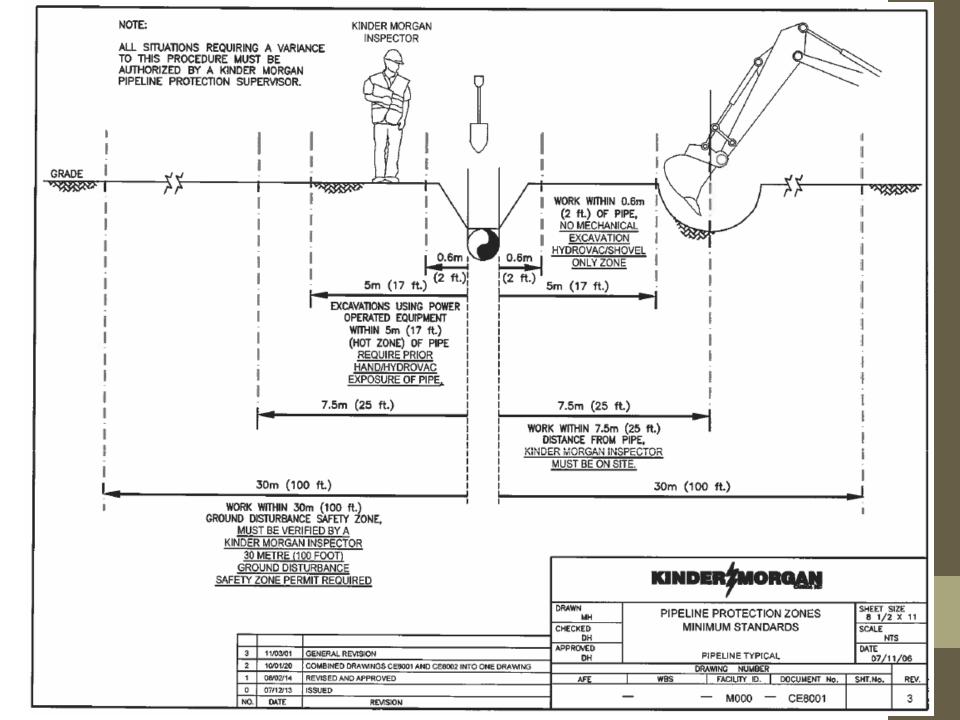
 Operating vehicles or mobile equipment over the right of way where a roadway does not exist;

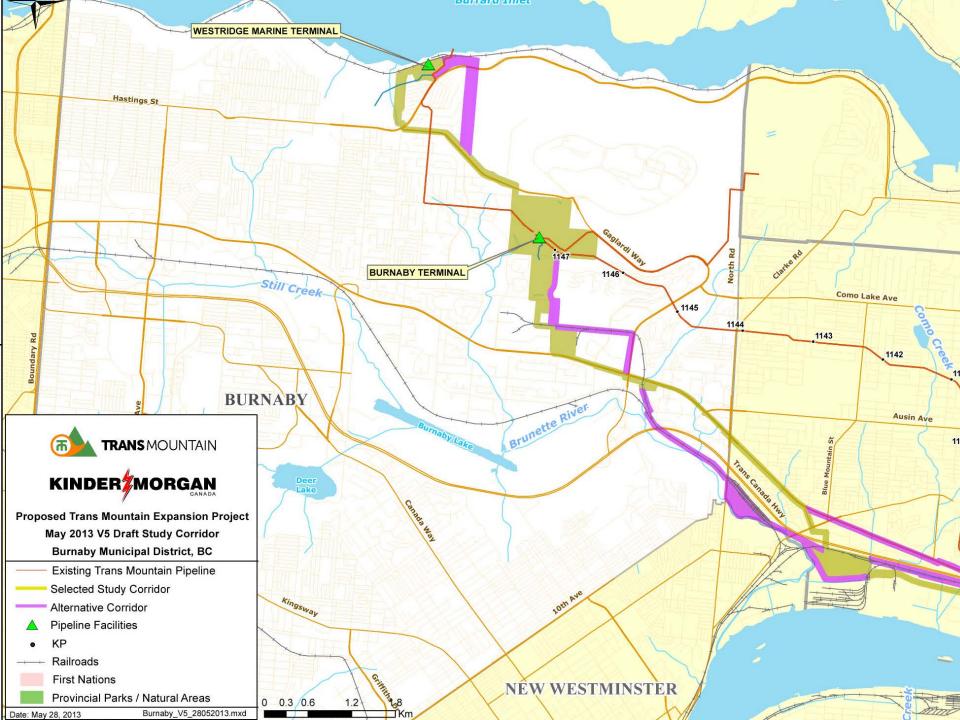
Reducing the depth of soil covering the pipeline;

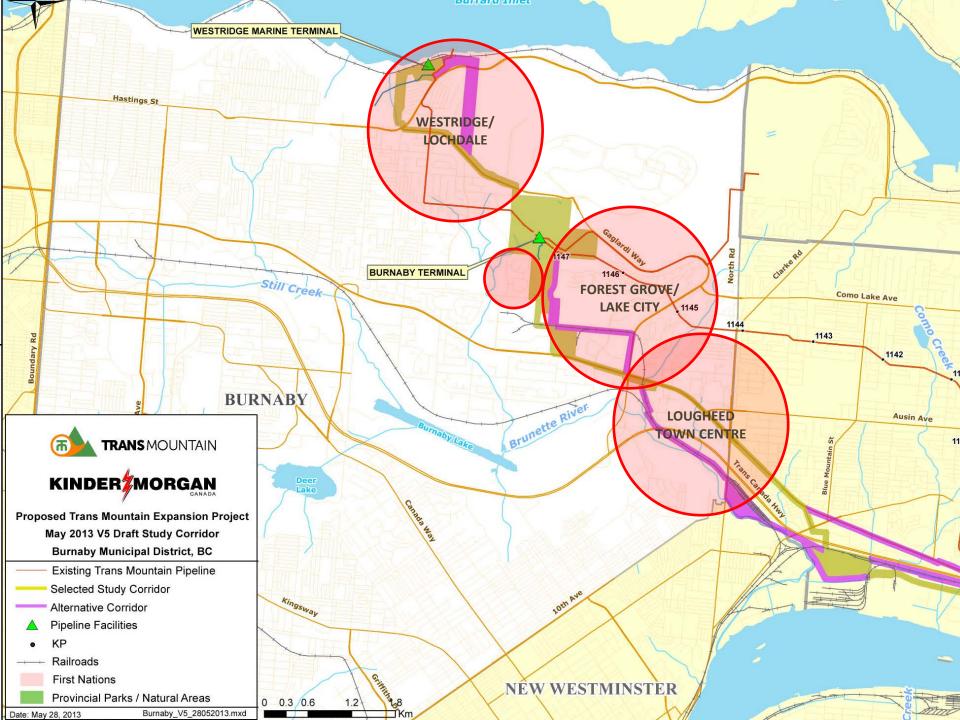
- Ploughing below 30 cm (1 foot);
- Ground levelling;
- Installing drainage systems;
- Augering;
- Fencing; etc.

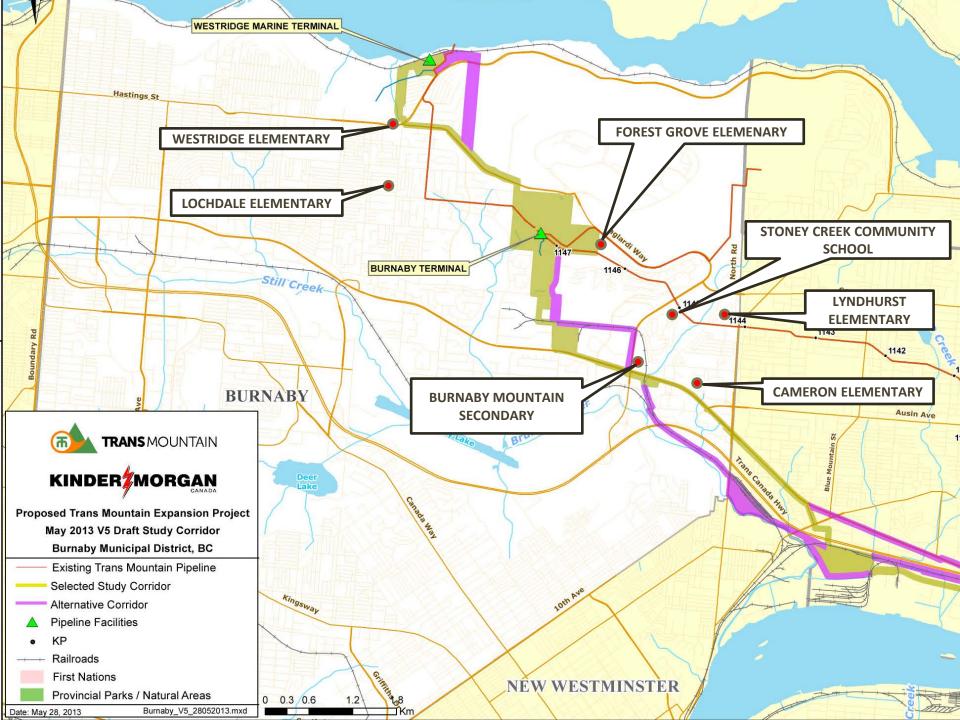


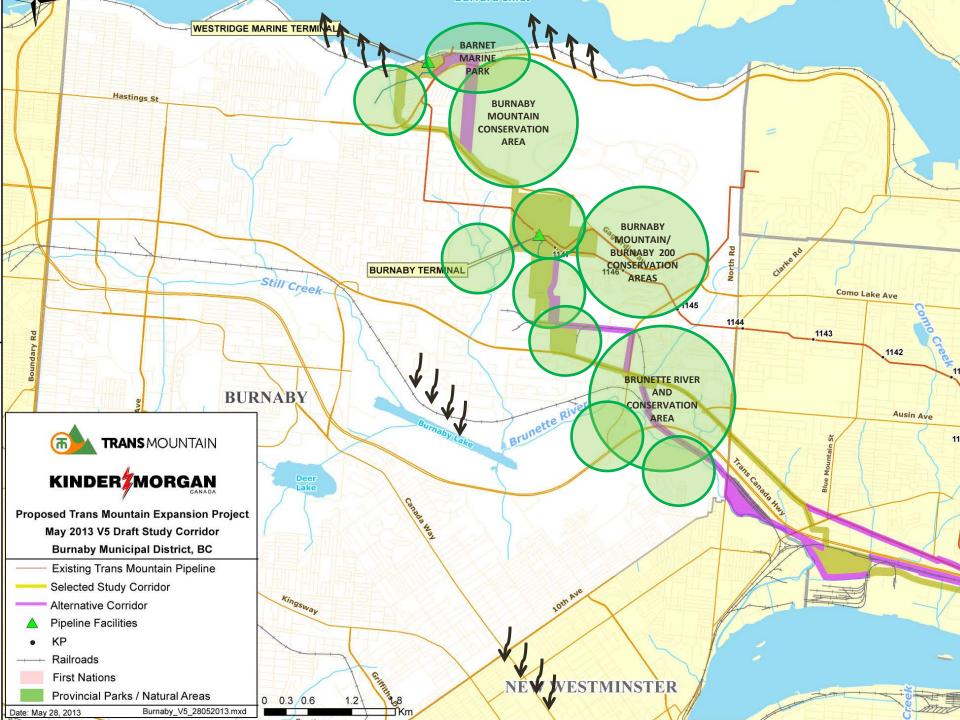
18- 45 m in width (60 -148 ft.)













New Map received from Kinder Morgan 2014 April 09 – Version 2

## Westridge Neighbourhood

#### Proposed Distribution Lines from the Burnaby Mountain Terminal to the Westridge Marine Terminal

Two additional distribution lines (30 " pipes) proposed through the Westridge Neighbourhood

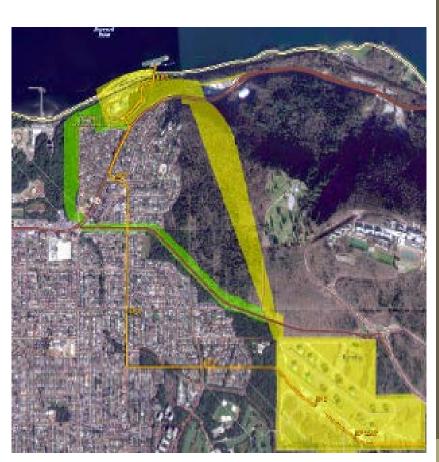
Net Impact to the Westridge Neighbourhood:

3 distribution lines through the existing residential neighbourhood via two separate pipeline corridors

## Pipeline Study Corridors through the Westridge Neighbourhood

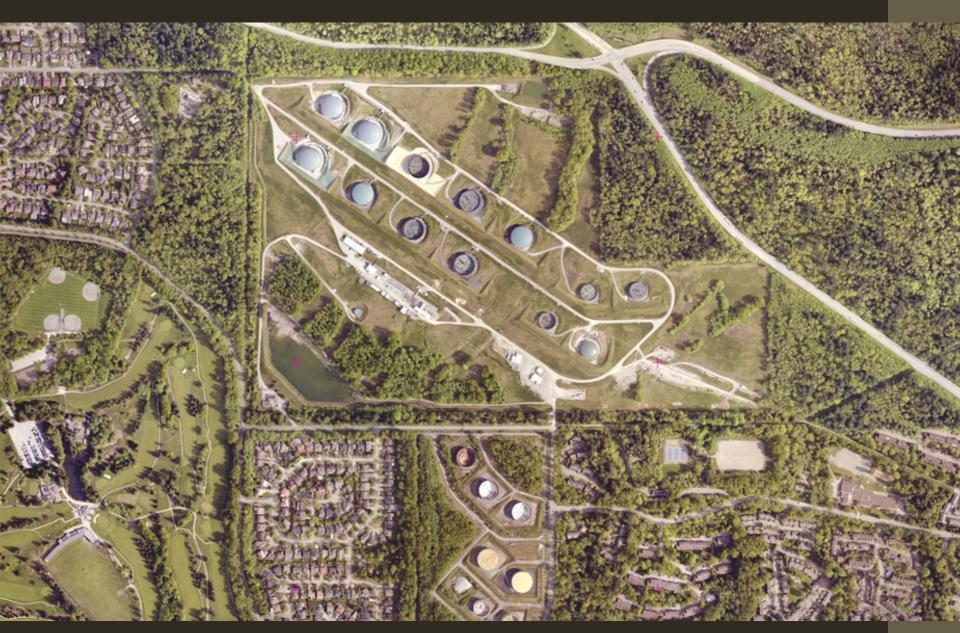


Reproduced Map January 2014



Kinder Morgan supplied Map March 30 2014

## **Burnaby Mountain Terminal**



7185 Shellmont Street | 189 acre site

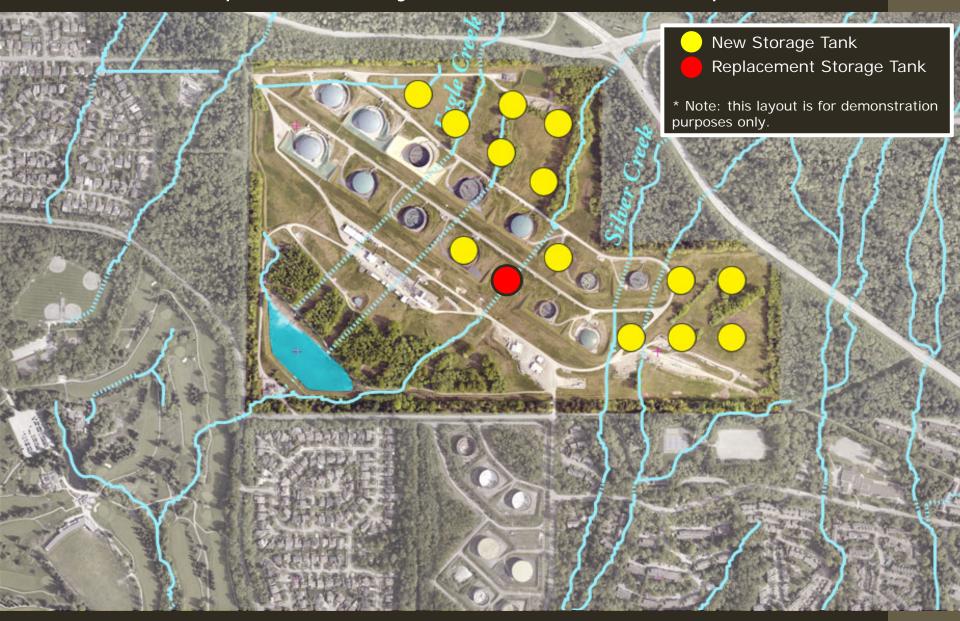


13 tanks | 125,000 bbl – 130,000 bbl | Capacity: 1.7 million bbl



2 local watersheds

#### Conceptual Burnaby Mountain Terminal Expansion



## **Storage Tank Capacity**



House

125,000-130,000 BARRELS

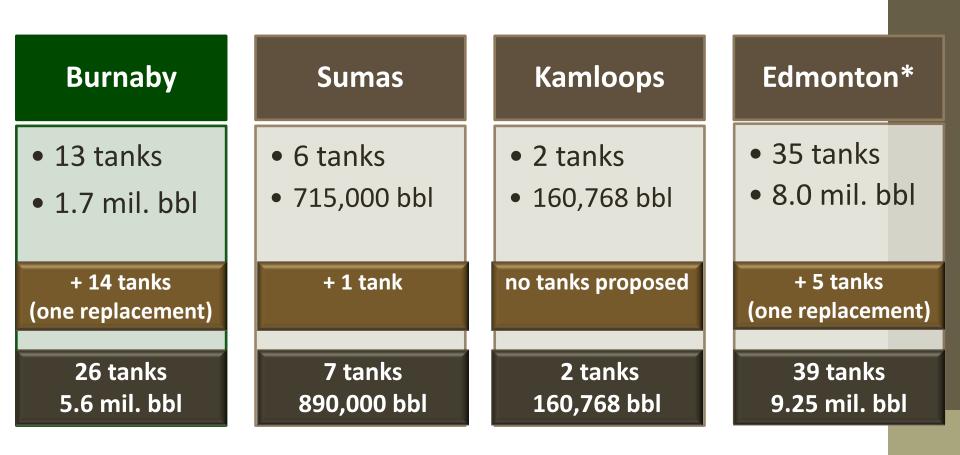
Existing Oil Storage Tanks

250,000 - 325,000 BARRELS

Proposed Oil Storage Tanks

## Distribution of the TMEP Storage Capacity

#### **Summary of TMEP Storage Tank Capacity**



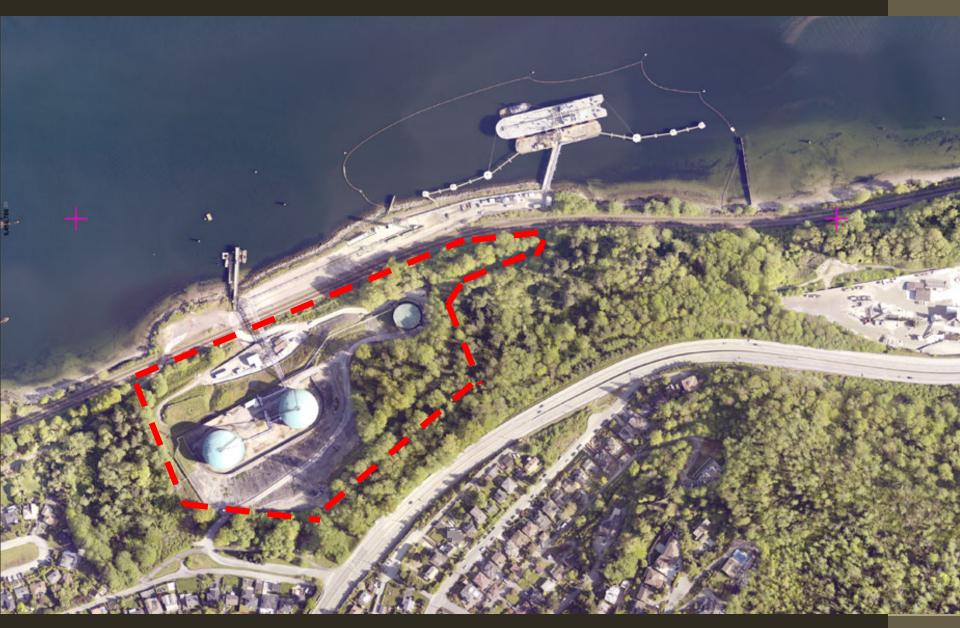
<sup>\*</sup> Edmonton Terminal Expansion Project – 15 new storage tanks (one replacement tank) approved under separate application to the NEB in 2008, and amended in 2011 for additional capacity

## 20 new tanks distributed between the existing terminals

## 72 storage tanks total with a capacity of 15.8 million barrels

For comparison 3 Aframax tankers can load approximately 1.7 million barrels

## Westridge Marine Terminal



7065 Bayview Drive | 15 acre site, plus 26.5 acre water lot



**Existing Westridge Marine Terminal** 



Conceptual Westridge Marine Terminal Expansion - 3.5 acre foreshore expansion



Conceptual Westridge Marine Terminal Expansion - 3.5 acre foreshore expansion



KM visual representation of the proposed Westridge Marine Terminal Expansion

#### **Westridge Marine Terminal Activity**

- From 8 tankers per month to 34 tankers per month
- Each tanker transporting between 550,000 580,000 bbl



#### **City of Burnaby Opposition**

# Burnaby is the wrong place to expand oil pipelines

given the urban transformation and significant population growth of the City and broader Metro Vancouver region since the early 1950s







# Highlighted Concern Land Spills and Accidents

Despite Kinder Morgan's assurances to safely operate the Trans Mountain Pipeline System, spills do happen

#### KM's Trans Mountain Track Record (2005 – Present)

Is this What Kinder Morgan Means by Operating the Trans Mountain Pipeline "Safely" for 60 years?

2005

• 1,320 bbl of crude oil leaked out of the Sumas Terminal (Abbotsford), polluting Kilgard Creek

2007

Burnaby Oil Spill (1,572 bbl)

2009

• 1,258 bbl oil leaked from Burnaby Mountain Terminal (contained on-site)

2012

2013

- 692 bbl of oil spilled from ruptured pipeline at Sumas Terminal (Jan.)
- Leak in containment area at Sumas Terminal (April)
- 12 bbl of oil leaked from pipeline outside of Merritt BC
- 25 bbl of oil leak detected outside of Hope BC

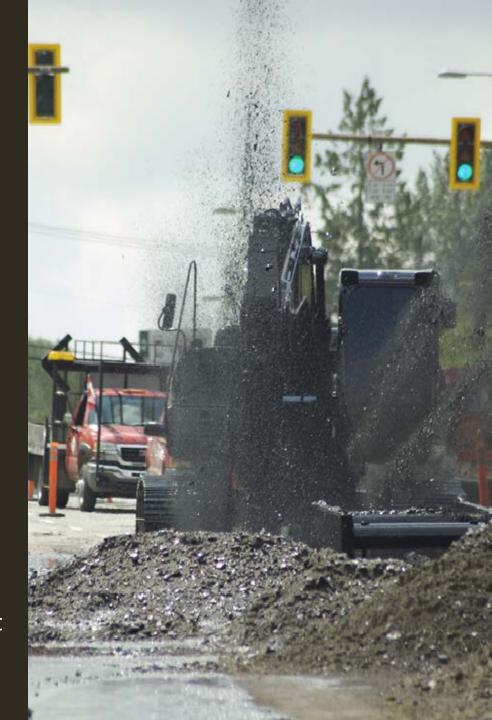
#### Burnaby Oil Spill 2007

• Where: Inlet Drive, Burnaby

• **Volume:** 250 m³ (1,572 bbl)

• Response Time: 24 minutes

- 50 homes impacted; 250 Burnaby residents evacuated; 1200 m of shoreline along the Burrard Inlet impacted – long term impact to local ecosystems & wildlife
- Cost of Clean-Up: undisclosed by KM but estimated at + \$15 M
- Court findings determined Kinder
   Morgan and 2 contractor companies at fault





#### **TSLEIL-WAUTUTH NATION** 2007 BURNABY OIL SPILL

#### **ANALYSIS RESULTS**

#### Legend

Tsleil-Waututh Nation Reserve

2007 Burnaby Oil Spill

2007 Burnaby Oil Spill Location

Approximate Area of Impact from the 2007 Oil Spill Based on Aerial Reconnaissance Reports by Professional Observers\*

Primary Impact Area\*\*

Kinder Morgan Canada Pipeline System

Jet Fuel System

Trans Mountain System

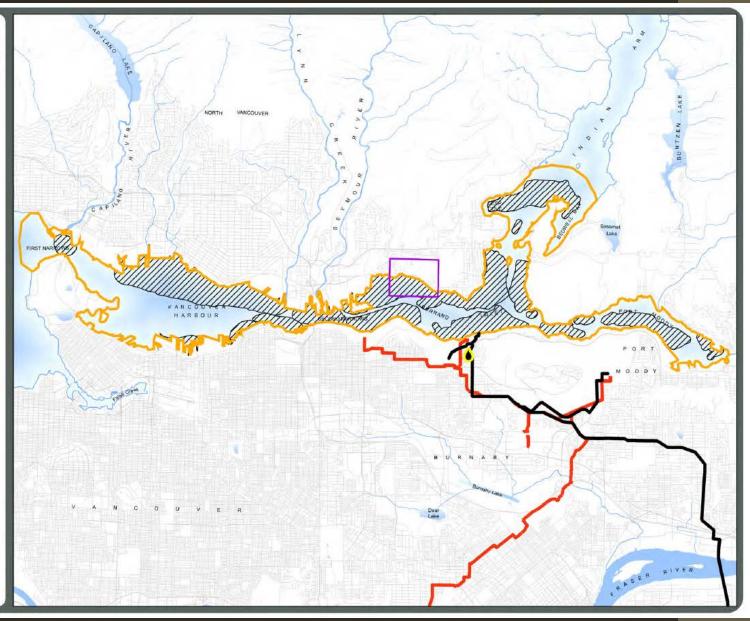
"Based on analysis of available data.

\*\*It is possible that there was more oil in Burrard Inlet and surrounding areas beyond this defined area; however, it was not recorded.



This map is a living document and is intended to be amended and refined over time. It is not an expression of the location of Tale-Wainuth aboriginal title. The data used to produce this map origin to from many sources and are presented without prejudics. This map is the property of the Beeli Wainuth Nation and may not be reproduced.

rate may a say projects of a re-section variation and the say may be a supposed to the production of the project of the projec



#### **Emergency Response**

- Kinder Morgan is seeking the use of Burnaby infrastructure and resources, as part of their emergency response plan:
  - Fire Department and other municipal resources as "first-responders" to leaks, spills, fires, and other emergencies
  - Tie into the Curtis-Duthie Water Pump Station as a back-up water feed for the Burnaby Mountain Terminal (among other options)

#### **Highlighted Concern**

# Who will pay for the cost of cleanup within the Burrard Inlet?

Kinder Morgan has advised that they are not responsible for oil spills that occur within the Burrard Inlet, once the oil tanker has been untied from the Westridge Marine Terminal

#### **Emergency Spill Response - Liability**

- Polluter Pay Approach (Responsible Party)
- International Conventions, Canada Shipping Act and Marine Liability Act set liability at a \$1.312 billion limit.

#### Four - tier approach to provision of funds:

- Western Canada Marine Response Corporation (\$138 M)
- International Oil Pollution Compensation Fund (\$174 M)
- ➤ International Oil Pollution Compensation Supplementary Fund (\$840 M)
- Canada's Ship Source Oil Pollution Fund (\$160 M)

Greater than \$1.3 billion, the Canadian government would be responsible for the cost of the oil spill clean-up

#### **Points of Clarification**

### **Benefits to Burnaby**

#### **Taxes, Not Benefits**

The taxes Kinder Morgan pays to the City is **NOT** an extraordinary benefit. **It's business as usual.** 

KM taxes (2013): \$ 7.0 M

> only \$4.8 M is to the City

If the TMEP is approved, an additional \$6.2 M in taxes from KM, only \$4.4 M would be to the City

A total of \$9.2 M is insignificant when you consider other sources of revenue in the City

## Summary: Significant Risks with No Net Benefits for Burnaby

- Kinder Morgan's proposal seeks to only comply with the regulatory requirements of the NEB
- Off-setting benefits to the City is currently not part of Kinder Morgan's proposal

## End