KMC Emergency Response Program
Puget Sound Worst Case Exercise
May 1, 2014
Bellingham, Washington

The Trans Mountain Pipeline
The only pipeline to Canada's West Coast
Operating for 60 years
Supplying local refineries and offshore markets
Today

- About 30 per cent of the system has been twinned
- Moves crude oil and refined petroleum products
- Kinder Morgan Canada does not own the products that are transported
- Westridge Marine Terminal in Burnaby: only western Canadian marine loading facility connected to a federally-regulated pipeline

Supply

- Current capacity 47.7 million litres or 300,000 barrels capacity per day
- Equivalent to a tanker truck leaving Edmonton for Vancouver every minute
- Ability to transport multiple products in batches up to 350 km long travelling at 5 km/hr:
Product Quality

We transport a wide range of products and the terms and conditions for this service are defined in our Tariff 92.

These conditions include product quality maximum limits:

(a) Reid vapour pressure: 103 kPa
(b) Sand, dust, gums, sediment, water or other impurities (total in aggregate): 0.5%
(c) Receipt Point temperature: 38°C
(d) Density: 940 kg/m³
(e) Kinematic Viscosity: 350cSt
(f) Having any organic chlorides or other compounds with physical or chemical characteristics that may render such Petroleum not readily transportable by the Carrier...

Trans Mountain has been transporting diluted bitumen since late 1980s without incident or operational problems due to dilbit properties.

KMC EMERGENCY RESPONSE PROGRAM
Introduction: Pipeline Safety today

- The most important aspect of preparedness is to prevent an emergency from occurring at all
- There are a number of programs in place to prevent problems including:
  - community and contractor awareness programs
  - Pipeline & Facility integrity programs
  - regular surveillance of activity near the right-of-way
  - 24-hour monitoring and leak detection programs

CAER Program

Community
Awareness
Emergency
Response
Emergency Response & Security Group Responsibilities

- Training
- Exercises
- Emergency Response Plans
- Emergency Response
- Security Plans
- Incident Command System

Emergency Response Line

- All incidents reported to the Control Centre
- Control Centre Activates ERL or ERL+
- Notification
- ERL Calls
Response Manuals

- Emergency Response Plan Trans Mountain Pipeline
- Emergency Response Plan Westridge Marine Terminal
- Emergency Response Plan Tank Farms
- Emergency Response Plan Puget Sound
- Control Point Manual
- Emergency Response Field Guide
  - Condensed ERP
  - Route Maps

KMC also has an environmental GIS with includes information on environmentally sensitive areas.

Control Points

Emergency Response Control Points
Trans Mountain - Area 3
Training & Courses

- Incident Command System
  - 100, 200, 300, 400
  - Workshops

- Safe Approach

- Basic Oil Spill Response

Exercises

**Deployments & Tabletops**
Emergency Response Equipment Facts

Spill Co-ops/ROs

- MRC
- SDMAP
- Western Canadian Spill Services
- Western Canadian Spill Services
Global Information System

Drill Planning Team Room Activity
Drill Activity Planners

Drill Operations Room
Drill Operations and Response Planning