

TransMountain Expansion Project

Presented to: NV District, North Vancouver, B.C.

By: Mark Johncox

Date: November 25, 2013



Present Day

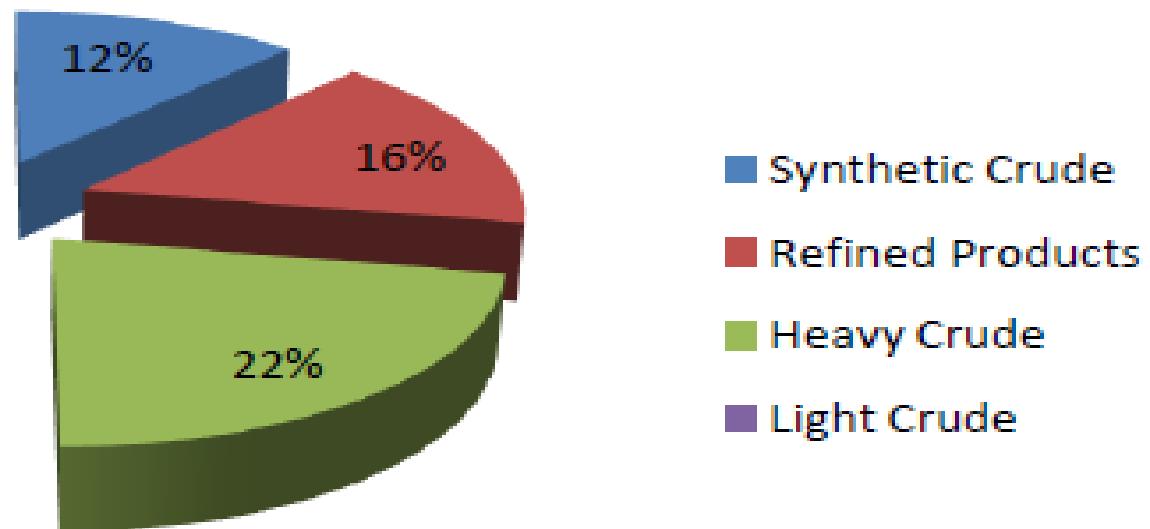
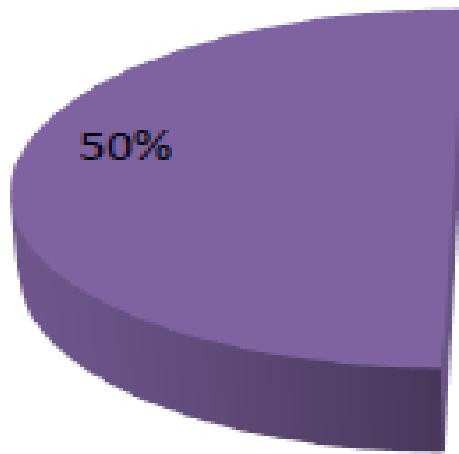
- ▶ In operation since 1953
- ▶ 300,000 barrels/day total capacity
- ▶ 75,000 barrels/day average over the dock
- ▶ 4–5 Aframax sized tankers per month
- ▶ single berth, 3 designated anchorages

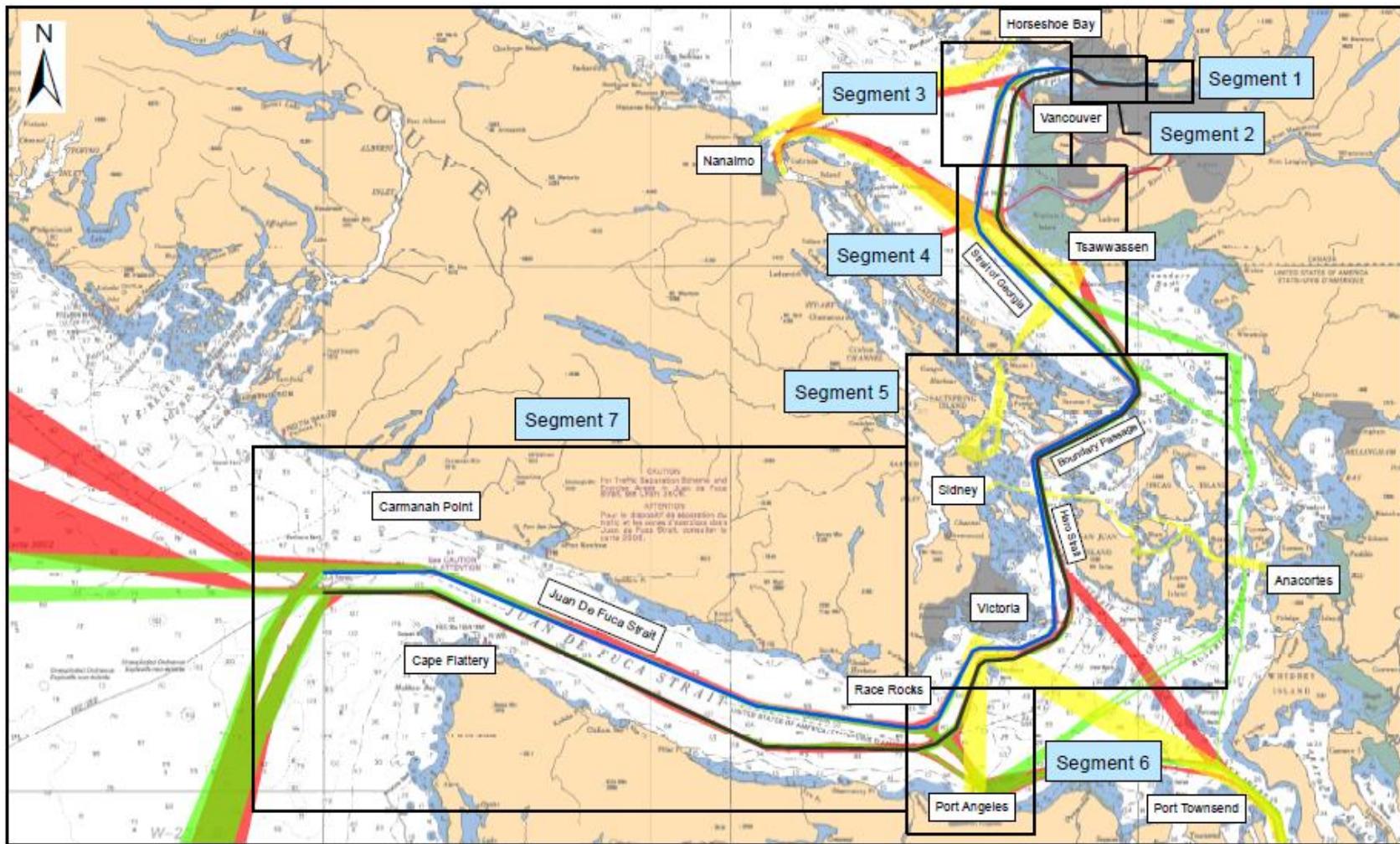


Pipeline



Products





PREPARED BY:
 moffatt & nichol
 777 WEST BROADWAY, SUITE 301
 VANCOUVER, BC, CANADA, V5Z 4J7
 SCALE: 1:1,500,000
 0 5 10 20 Nautical Miles

- Inbound Route
- Outbound Route
- Passenger Routes
- Tanker Routes
- Cargo Routes

TRANS MOUNTAIN PIPELINE EXPANSION
VESSEL TRAFFIC ROUTES

Sources: Compiled from Canadian Hydrographic Service surveys and United States of America charts

DATE: 1/25/2013
 FIGURE ID: 3001

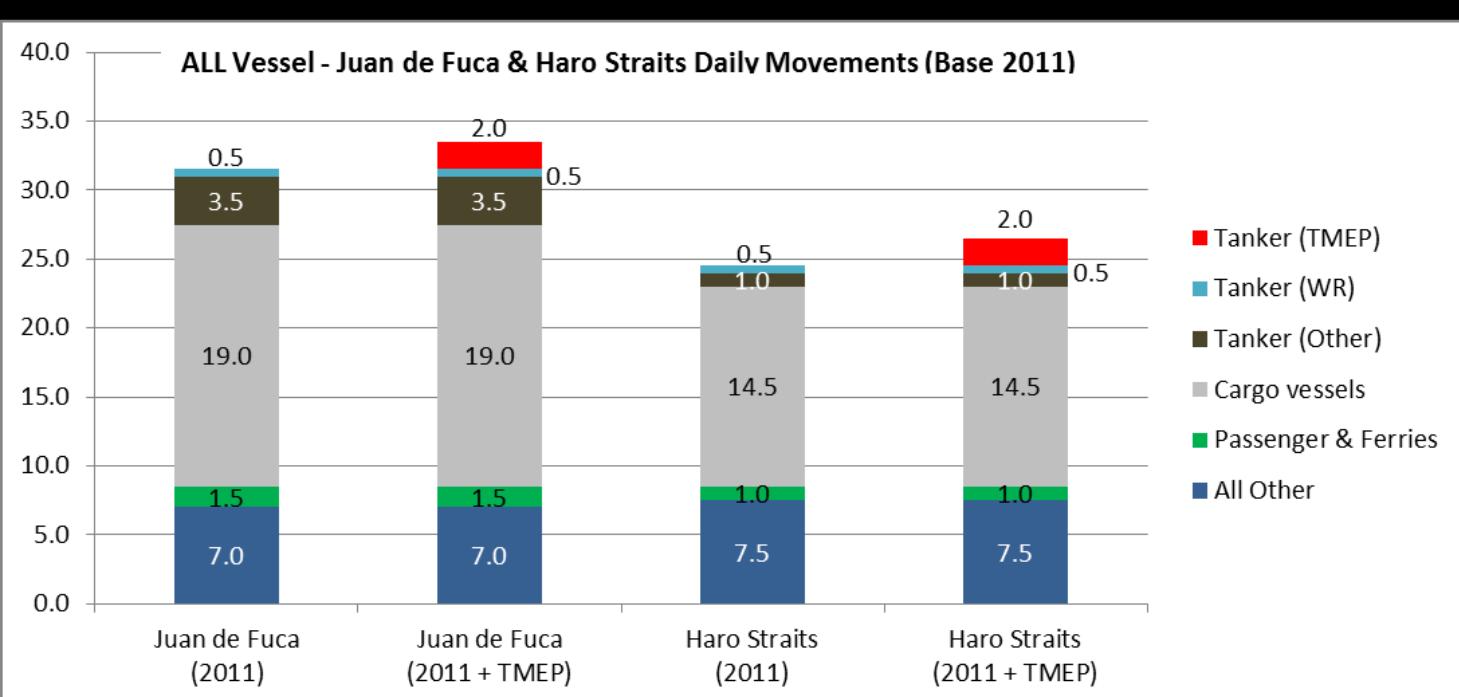
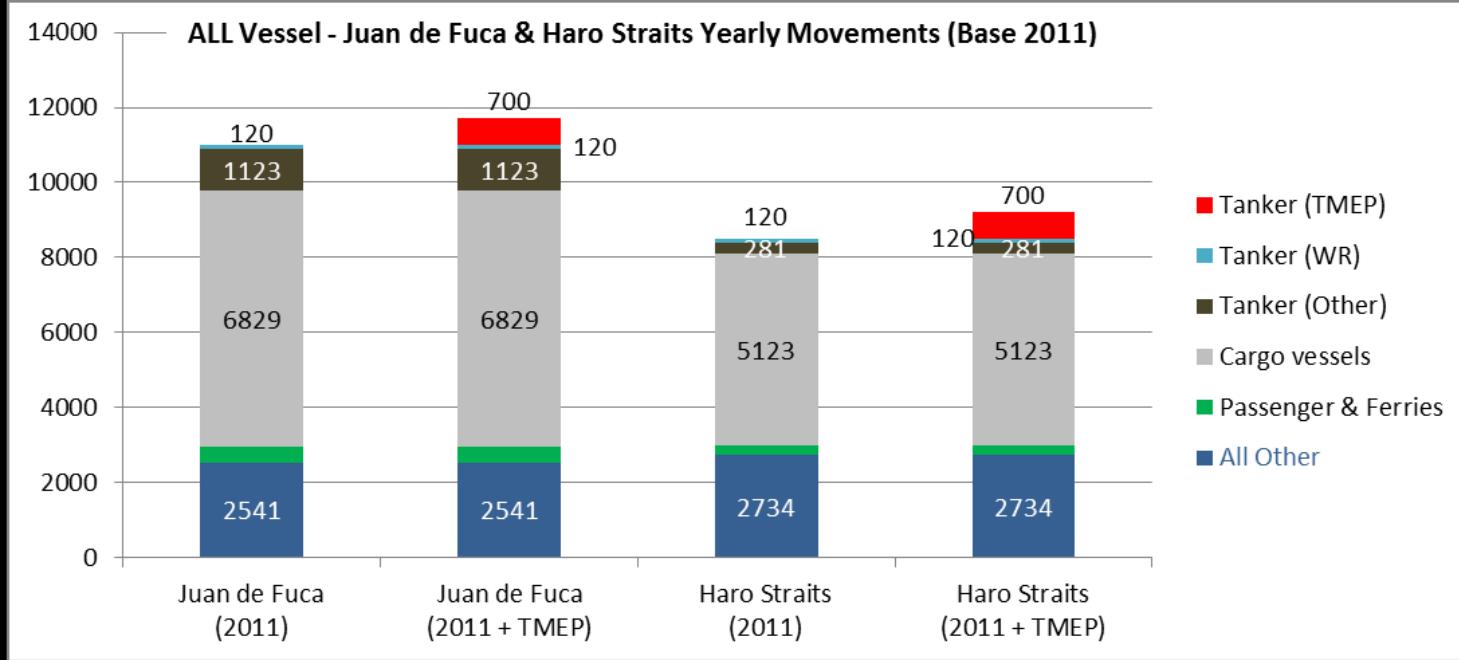
COORDINATE SYSTEM: Sphere Mercator
 DATUM: NAD 83

DRAWN BY: JT/KY
 CHECKED BY: RB

PREPARED FOR:
 TRANS MOUNTAIN
 KINDER MORGAN CANADA

FIGURE NO:
A-01

AIS



Expansion Project

- ▶ Twin remaining 980km of the pipeline
- ▶ 830,000 barrels/day
- ▶ 630,000 barrels/day over the dock
- ▶ Approx 30 Aframax tankers per month
- ▶ New terminal- expanded to 3 berths
- ▶ Increased pumping and storage capacity
- ▶ No dredging
- ▶ Tanker escorts to Buoy Juliet (proposed)

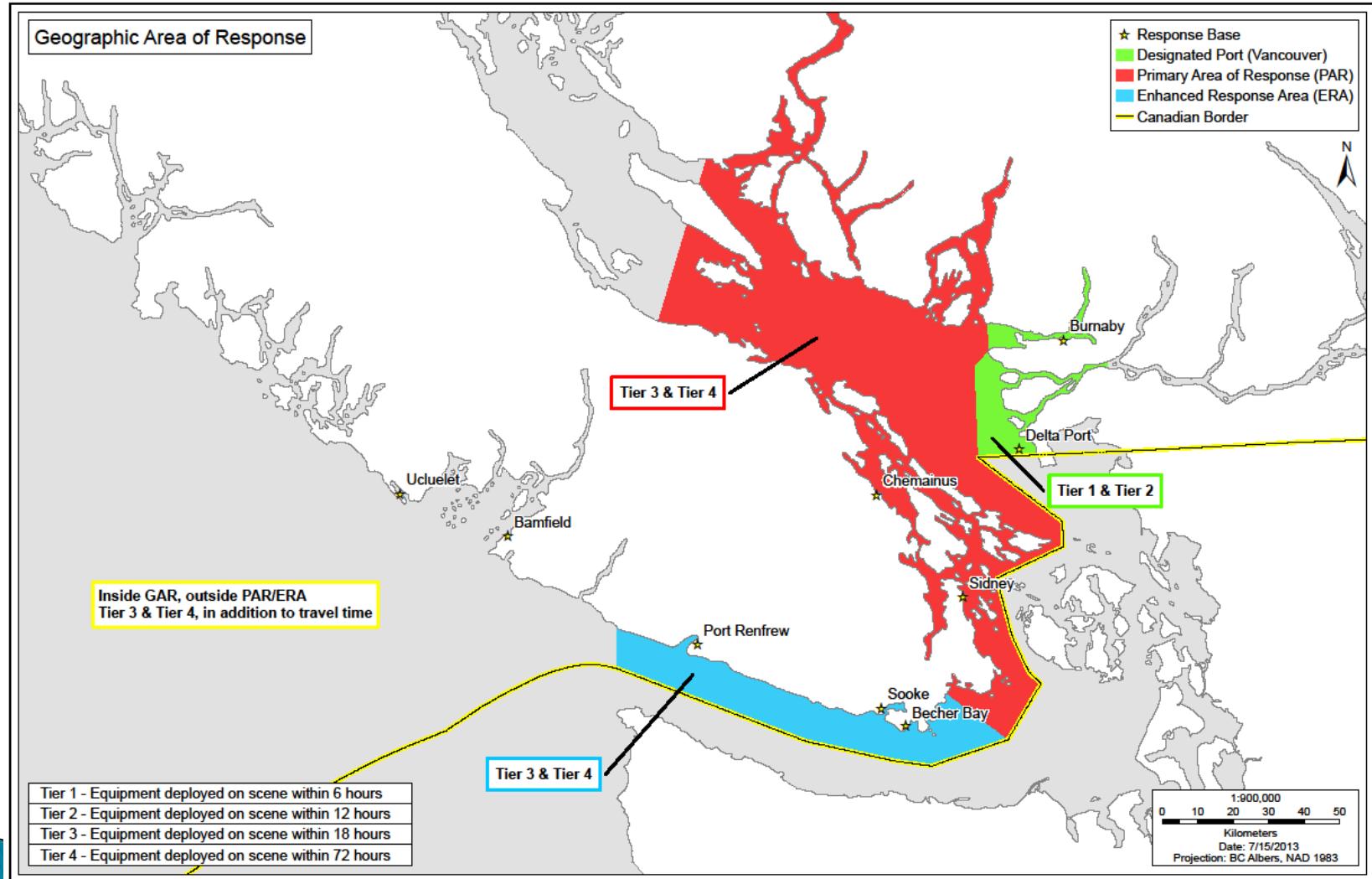
WCMRC

- ▶ Multiple issues facing us currently
 - Tanker review-changing regime?
 - Social license issue
 - Increased community engagement
- ▶ Need to address the above proactively
- ▶ Huge opportunity to rework WCMRC from the ground up

WCMRC (Southern BC) currently

- ▶ 2 locations: Burnaby, Duncan
- ▶ 2 large skimming vessels: #9, MJ Green (50t/hr and 90 tonne storage combined)
- ▶ 3 barges: #10, #17, #18 (7,000 tonnes)
- ▶ 4 boom boats: #8, #11, #6, #7 (1,400m)
- ▶ Various smaller vessels
- ▶ 20 people approximately
- ▶ Tiered response and time standards (6-72 hours depending on location and size)

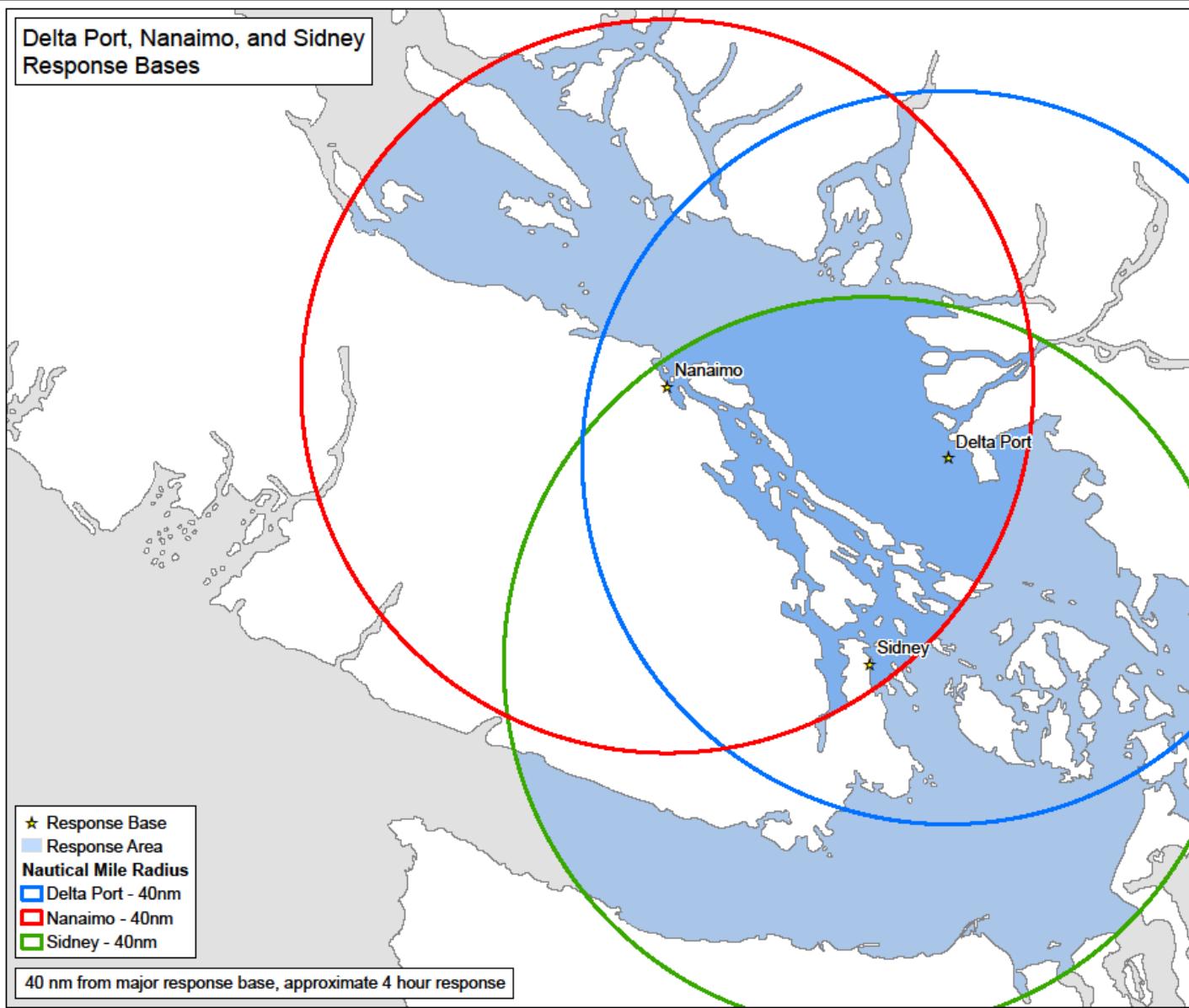
Time Standards- Existing

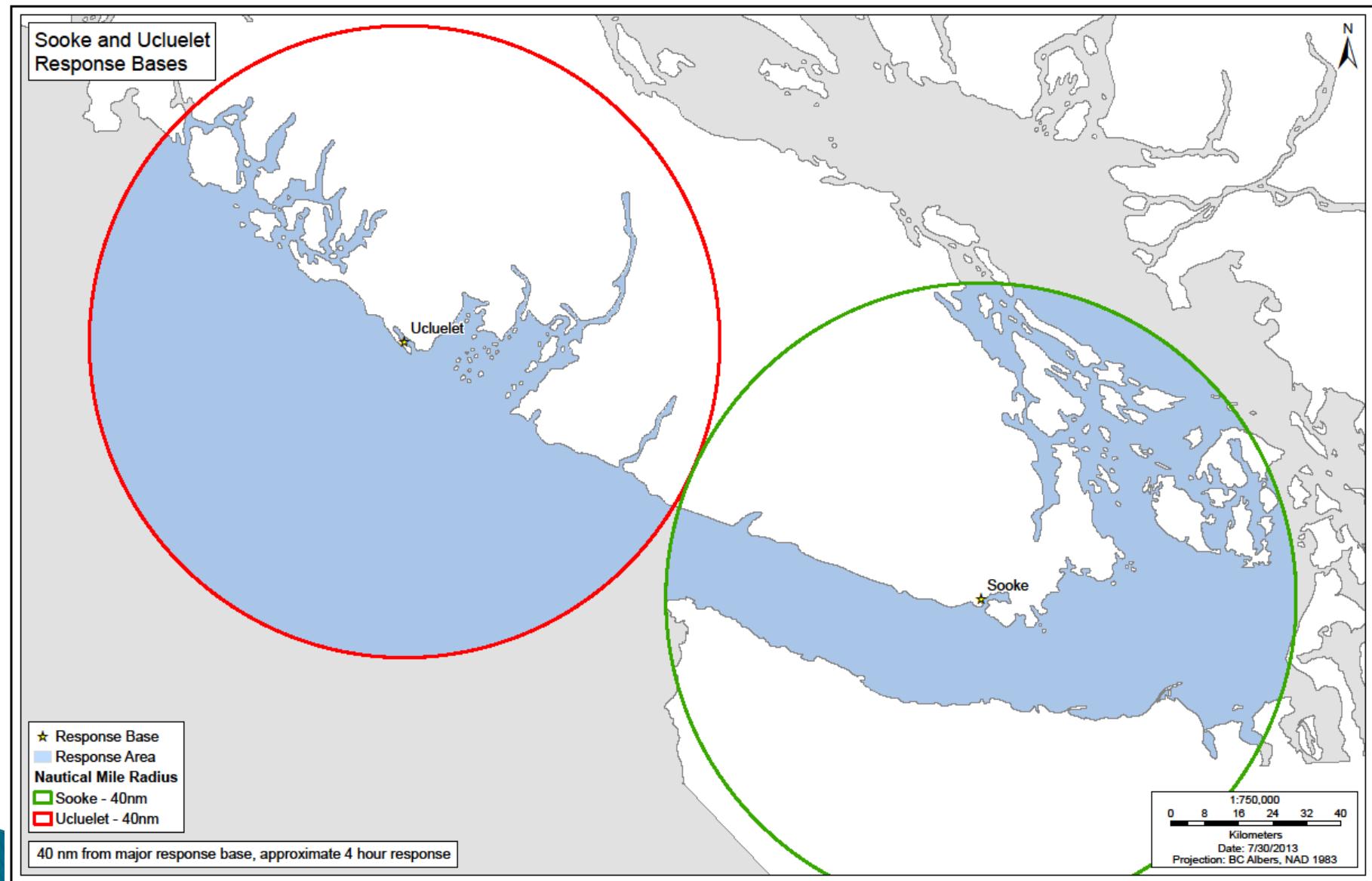


WCRMC– Proposed

- ▶ 6 locations (4 PROPOSED): Burnaby (24/7), Delta Port (24/7), Saanich Peninsula (24/7), Sooke area, Ucluelet area, Nanaimo/Campbell River
- ▶ Up to 6 large skimming vessels: #9, MJ Green, 2 65' high speed skimmers, 2 90' high speed skimmers (180t/hr and 246 tonne storage)
- ▶ Possibly 6 barges: #10, #17, #18 +3 new (27,000 tonnes)
- ▶ 9 boom boats: #8, #11, #6, #7, 2 more boom boats, 3 large landing craft (3,900m)
- ▶ Multiple quick recovery barges
- ▶ Possibly a large supply vessel
- ▶ Up to 90 people approximately
- ▶ Reduced response times, regardless of spill size
- ▶ Potentially tripling the BC capacity, but on the tanker route

**Delta Port, Nanaimo, and Sidney
Response Bases**





Supersized

