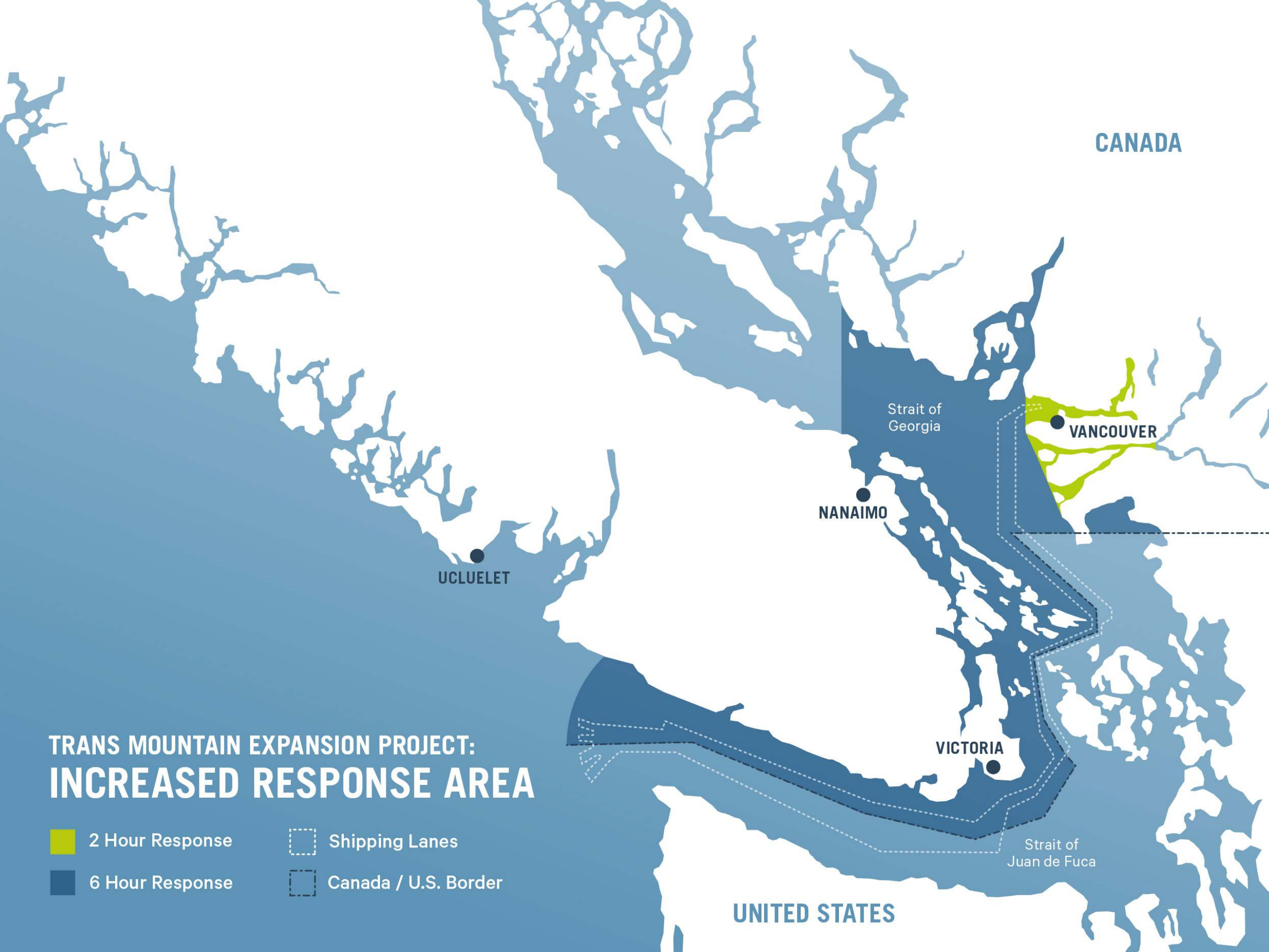


Marine Spill Response Base: Vancouver Harbour



April-11-17





CANADA

Strait of
Georgia

VANCOUVER

NANAIMO

UCLUELET

VICTORIA

Strait of
Juan de Fuca

**TRANS MOUNTAIN EXPANSION PROJECT:
INCREASED RESPONSE AREA**

2 Hour Response

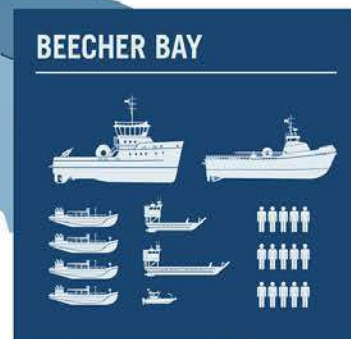
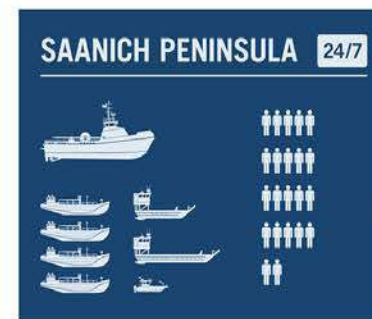
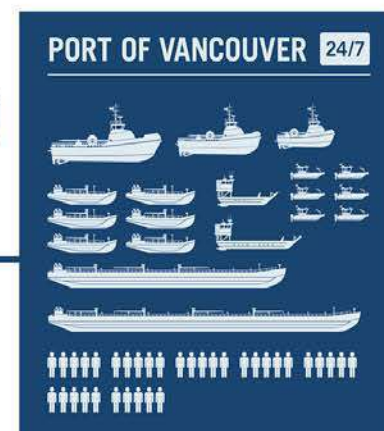
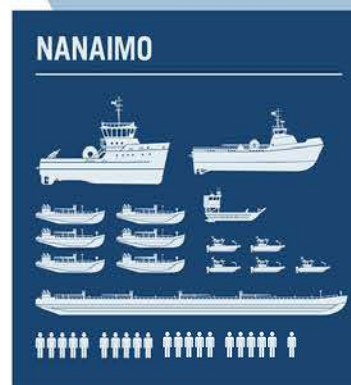
Shipping Lanes

6 Hour Response

Canada / U.S. Border

UNITED STATES

MARINE SPILL RESPONSE ENHANCEMENTS



Spill Response Vessels in Vancouver Harbour



Proposed Vancouver Base



Camera 1



Camera 1



Camera 1
















Base Operations

- 24/7 emergency response base
- Site activities to consist of training/exercising and routine maintenance of vessels
- Noise levels expected to be at or below background levels
- Night time crews are on stand-by mode

Impact Mitigation

- Dark Sky certified lighting
- “West Coast” office design and architecture
- Native vegetation to be planted as part of landscaping plan
- Minimal night time operations



Task no.	Task Description		Duration (Months)													
Marine Works		Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Mobilization	1.0														
2	Pile Supply and Splicing	2.0														
3	Pile Installation	3.0														
4	Float and Gangway Design, Fabrication and Delivery	4.5														
5	Float and Gangway Installation	3.0														
Upland Works																
6	Clearing, Excavation, Repairs and Retaining Wall	6.0														
7	Utility Installations	5.0														
8	Grading, Paving and Resurfacing	2.0														
9	Office Trailer, Fabrication, Delivery and Installation	5.0														
10	Site Commissioning	2.0														
11	Demobilization	1.0														



Thank-you!