

ENVIRONMENTAL

- Canadian Environmental Assessment Screening completed to document environmental effects and determine measures to eliminate, minimize and mitigate identified effects.
- In-water work will only occur during the Fisheries window between August 16 and February 28.
- Intertidal works to be done during a dropping tide and to be completed prior to tide inundation.
- Harmful alteration to eelgrass habitat will be compensated at a 2 to 1 ratio.
- Silt screens will be used during installation around the eelgrass habitat.
- Meet all requirements set out in the Fisheries Authorization and Fisheries Act.
- Comply with District of North Vancouver Aquatic Area Permits.



Eelgrass habitat will be compensated at a 2 to 1 ratio with the existing eelgrass removed and replanted post construction. Silt screens will be used during construction in areas with eelgrass habitat.

SCHEDULE

No.	Projects	Start	August	September	October	November	December
1	Notice to Proceed	Aug 25					
2	Pipeline Fabrication in Belcarra	Sep 27					
3	DNV Marine Construction	Nov 1					
4	Marine Construction in Main Channel	Nov 15					
5	Belcarra Marine Construction	Nov 29					
6	Testing and Disinfection	Dec 20					
7	Completion	Dec 31					



VILLAGE OF BELCARRA

"Between Forest and Sea"



Belcarra Municipal Potable Water Supply

Summary of the watermain crossing from North Vancouver

October 2010



OPUS DAYTONKNIGHT



BACKGROUND

In 2006 a study was completed to review options for a potable water supply for the Village of Belcarra. The study reviewed local water supplies and a connection to the Greater Vancouver Water District through the adjacent municipalities of Port Moody, Anmore and the District of North Vancouver.

The Village decided to pursue water supply from the District of North Vancouver. The supply would consist of a marine pipeline crossing of Indian Arm with two 200 mm diameter watermains.

Over the past 2 years the design has been completed and the project has gone through an extensive permitting process to satisfy the Canadian Environmental Assessment Act, Department of Fisheries and Oceans, Ministry of Environment, Navigable Waters Protection Act, Port Metro Vancouver, Metro Vancouver, District of North Vancouver, Tsleil-Waututh Nation and Western Economic Diversification Canada. The Village believes in a consultative process and wishes to obtain the opinions of locally impacted residents.

MARINE ACCESS LOCATIONS

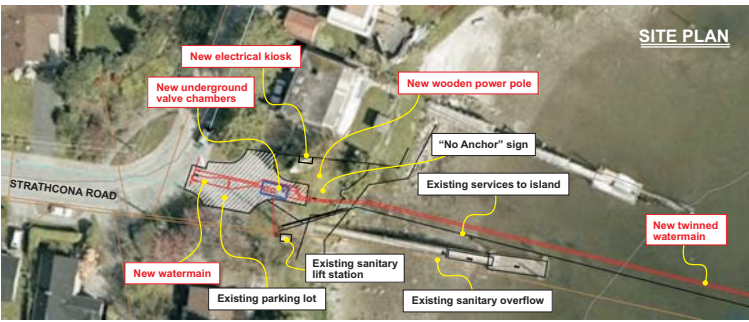


North Vancouver Marine Access

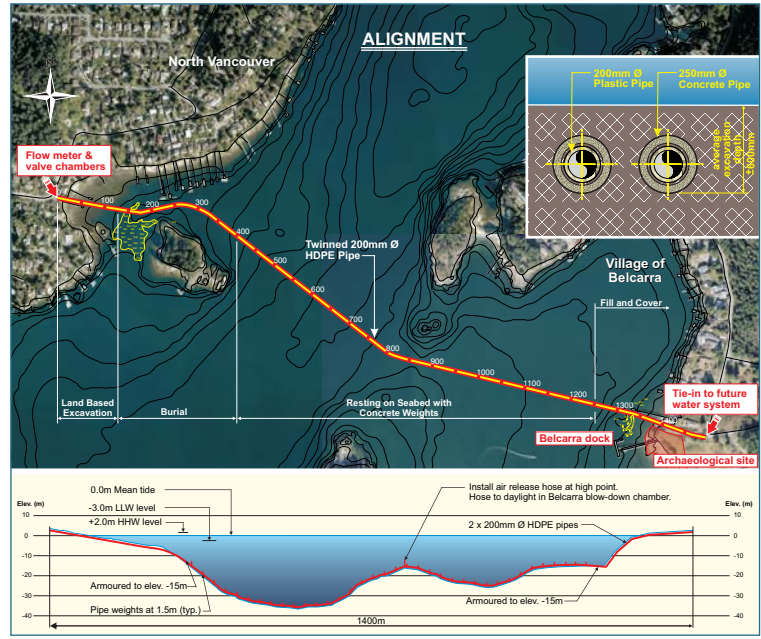
District of North Vancouver Connection 4545 Strathcona Road

This location as shown in the adjacent photograph was chosen because:

- Existing public right-of-way provides access to the water.
- Existing water distribution system can meet the demands from Belcarra with minimal upgrades.
- The soils and slopes of the shore and seabed in the area are well suited for the construction burial of a marine pipeline.



SITE PLAN



INSTALLATION OF SIMILAR MARINE PIPELINES

Oyster Bay, Sunshine Coast

