

DELTAPORT PROJECT UPDATE

NOVEMBER 2007



MARINE WORKS CONSTRUCTION WELL UNDERWAY

The Deltaport Third Berth Project (DP3) will add a third berth to the existing two berth terminal at the Deltaport container terminal, located at Roberts Bank, British Columbia.

The construction of DP3 is on schedule and expected to be complete in fall 2009. The Vancouver Port Authority (VPA) is striving to make this process as smooth as possible and keep any disruption to a minimum.

During construction of the marine works, contractors will be transporting construction material to the site by barge instead of by truck, thereby eliminating 600,000 single dump-truck trips on local roads.

Marine works construction has been progressing on schedule with the completion of the first perimeter dike and infilling behind the dike to create a substantial portion of the terminal land base. The caisson trench dredging is close to completion and the turning basin and tug basin dredging is complete. Fraser River sand will be transferred to the site by barge and dredge for use as fill periodically until late 2008.

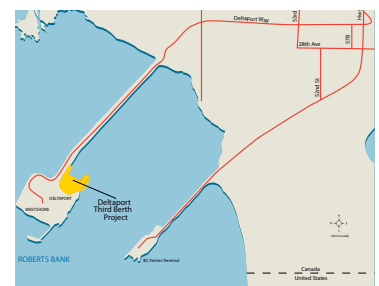
Ten concrete caissons (the dock structures) are being constructed in North Vancouver and towed by tugs to Roberts Bank for storage. Once densification of the mattress rock is complete, the caissons will be floated into position and then placed on top of the mattress rock to form the outer edge of the third berth. Construction of the tug basin is also in progress.

Any underwater construction noise will be suspended if whales are in the area and will not resume until the whales are safely out of the construction zone. These are just some of the ways we are working hard to ensure minimal disruption during project construction.

Work on the habitat compensation projects are underway. In total, approximately \$25 million will be spent on environmental initiatives that focus on local marine, mammals and wildlife. VPA is also working closely with the Ministry of Environment and the Corporation of Delta to complete final design plans for Highway 17 road improvements. Highway 17 improvements are expected to be completed in mid 2008.

VPA is committed to creating a sustainable future for the community of Delta while we grow Canada's Pacific Gateway.

The demand for container facilities is in direct response to the unprecedented growth in bilateral trade between Canada and many Asia Pacific nations. In 2000, the Port of Vancouver's three container terminals – Centerm, Deltaport and Vanterm – handled 1.1 million TEUs (twenty-foot equivalent units). In 2006, that number doubled to 2.2 Million TEUs.



BUSINESS



The Port of Prince Rupert's Fairview Container Terminal was officially opened on September 12, 2007.

PRINCE RUPERT'S FAIRVIEW CONTAINER TERMINAL

The Port of Prince Rupert held the official opening for the Fairview Container Terminal on September 12.

Fairview will primarily serve container cargo destined for eastern Canadian and Midwestern U.S. markets. Fairview will provide much needed container capacity on Canada's west coast and will help facilitate the dramatic growth in container trade with Asian markets.

The opening was attended by 650 invited guests and approximately half of Prince

Rupert's residents. The Fairview Container Terminal Project cost of approximately \$170 million and has a capacity of 500,000 TEUs.

Expansion is required in both Prince Rupert and the Lower Mainland in order to meet future container capacity requirements for Canada's west coast.

DELTAPORT IMPORTS DESTINED FOR CANADIAN MARKETS

Approximately 93 per cent of goods imported through the Deltaport Container Terminal are destined for the Canadian market.

More than 30 per cent of import containers remain in the Lower Mainland while the remainder are transported by rail to eastern Canadian markets such as Montreal and Toronto.

TOP 3 CONTAINER IMPORTS

- Consumer and Related Goods
- Machinery, Vehicles and Construction Materials
- Chemicals, Metals and Minerals

TOP 3 CONTAINER EXPORTS

- Forest Products
- Grains, Special Crops (beans, lentils, barely etc.)
- Chemicals, Metals and Minerals

HIGHWAY 17



VPA is spending \$3.2 million on Highway 17 improvements to mitigate the additional truck-trips generated by DP3.

UPDATE ON HIGHWAY 17 IMPROVEMENTS

As part of the Deltaport Third Berth Project, the VPA is working with the Ministry of Transportation (MOT) and the Corporation of Delta (COD) to implement improvements to Highway 17 that will mitigate the additional truck-trips generated by the project. Detailed design is underway and improvements are scheduled to be complete in mid 2008. The Highway 17 projects include:

- Improvements to the Highway 17 northbound on-ramp onto Highway 99 southbound
- Extension of northbound HOV lane on Highway 17 south of Ladner Trunk Road
- Signal modifications at Highway 17/Ladner Trunk Road as appropriate and approved by MOT and COD

VPA supports longer-term solutions to traffic congestion in Delta, including the Gateway Program's South Fraser Perimeter Road, to address increased

commuter and port related traffic in the region.

COMMERCIAL VEHICLE LANE RESTRICTIONS ON HIGHWAY 17

MOT has received authority to implement commercial lane restrictions and is accelerating this initiative as part of the Highway 17 improvements.

Implementation is expected to be complete by the end of 2007. Lane restrictions will be enforceable by local traffic authorities.



COMMUNITY



\$300 million will be invested in the Roberts Bank Rail Corridor for the construction of nine road-rail grade separations. VPA will contribute up to \$50 million.

ROBERTS BANK RAIL CORRIDOR RECEIVES \$300 MILLION

\$300 million will be invested in the Roberts Bank Rail Corridor for the construction of nine road-rail grade separations. This will provide safer roads and less congestion along the corridor.

In January 2007, the *Roberts Bank Rail Corridor Road Rail Interface Study* was completed to prioritize road-rail grade

separations along the rail corridor. The study was coordinated by Transport Canada with other participants including the Ministry of Transportation, TransLink, Greater Vancouver Gateway Council, VPA, the Corporation of Delta, the City of Surrey, the City of Langley and the Township of Langley.

In Delta, rail grade separations have been identified at 41B Street and 80th Avenue.

As part of the DP3 project, BC Rail Company will be constructing two additional rail sidings within the existing right-of-way along the Roberts Bank Causeway.

OPEN HOUSE DELTAPORT THIRD BERTH PROJECT

VPA will be hosting a public open house to provide the community with an update on the DP3 project.

November 24th, 10:00 am to 2:00 pm

Delta Town and Country Inn

6005 Highway 17, Delta, BC

VPA staff, TSI Terminal Systems Inc. and technical consultants will be available to answer questions.

In addition, members of the Deltaport Third Berth Project Community Liaison Committee (DCLC) will be in attendance.

Project Information Line: 604-665-9337

Project Email: container_expansion@portvancouver.com

Project Website: www.portvancouver.com/the_port/deltaport.html

COMMUNITY



DELTAPORT THIRD BERTH PROJECT COMMUNITY LIAISON COMMITTEE

In March 2007, the Deltaport Third Berth Project Community Liaison Committee (DCLC) was formed. The purpose of the committee is to work with the VPA during the construction and first year operation of the third berth at Deltaport to identify community concerns, develop potential solutions to address those concerns and assist in communicating information among the community, VPA and other stakeholders.

The committee consists of up to 18 individuals representing Delta residents, community associations and businesses in Delta, as well as port stakeholder groups.

Since the formation of the committee earlier this year, DCLC has met eight times. Initial meetings focused on developing the committee's framework, gathering information on the project and initiatives related to the project.

Some of the key issues that the DCLC is working on include air quality, traffic and truck safety and wildlife. The key role of DCLC is to make recommendations to the VPA for consideration. To date, suggestions by DCLC have resulted in:

- The development of a Port Operation Community Pilot Program to monitor truck traffic beyond VPA's land and

water jurisdiction to help increase truck safety and promote positive driving behaviour on local roads.

- An additional noise study to identify project-related noise impacts on local residents.
- More effective liaison between VPA, the terminal operator, TSI, and vessels to help reduce the impact of noise and air emissions from ship generators while vessels are in port.
- Advocating for the implementation of the Roberts Bank Environmental Stewardship Committee through Environment Canada.

To find out more about the DCLC, please visit www.portvancouver.com

To contact the DCLC with questions or concerns pertaining to the Deltaport Third Berth Project:

Email: liaison.committee@portvancouver.com

Project Information Line: 604-665-9337

Mail: DCLC, PO Box 166, Delta, BC, V4K 3N6

SUPPORTING OUR COMMUNITIES

VPA is committed to sharing its success with the communities it serves. Through our Community Investment Program, we strive to support the economic, social and environmental aspirations of our operating communities with a view to building sustainable futures together.

VPA is proud to support the community of Delta through a number of different initiatives including community sponsorship, scholarships, outreach programming and ongoing community relations activities.

VPA works directly with Delta Secondary School on a Leadership Programme, which provides specialized training for students to develop public speaking, leadership and organizational skills. Over the past four years, sixteen Delta students have participated in the Leadership Programme.

A few of the organizations supported by VPA in 2007 include: The Delta Hospital Foundation, Burns Bog Conservation Society, Ladner Pioneer May Days and Pumpkin Festival, Tour de Delta, South Delta Jazz Festival, Tsawwassen Sun Festival, Delta Healthcare Association, Rotary Club of Tsawwassen, the Delta Chamber of Commerce (Hats Off to Excellence Awards), Operation Red Nose, and the Delta Farmland and Wildlife Trust.

ENVIRONMENT



VPA is investing approximately \$25 million on environmental mitigation to protect local marine, mammals and wildlife.

SCIENTIFIC ADVISORY COMMITTEE

In April 2007, VPA was pleased to announce the establishment of the Scientific Advisory Committee (SAC). The mandate of SAC is to provide scientific and technical advice and recommendations to VPA for the implementation of the Adaptive Management Strategy (AMS).

The AMS is one of several significant environmental programs being undertaken as part of the DP3 Project. The AMS is a science-based approach to monitoring and managing the Roberts Bank ecosystem and will assess ecosystem trends attributable to the third berth's construction and operation. SAC will consider the scientific data to monitor positive and negative ecosystem trends that emerge as a result of the project, and will advise VPA if additional mitigation measures or monitoring are required.

SAC consists of one scientist appointed by the VPA, one scientist appointed by Environment Canada, and one scientist selected jointly by VPA and Environment

Canada. Members include Dr. Ron Ydenberg, Dr. Terri Sutherland and Mr. Rowland Atkins.

The committee may consult with other independent scientists, engineers and technical experts as needed when additional expertise is required.

The committee will meet at a frequency dictated by the AMS monitoring and reporting schedule, with meetings held approximately every quarter during the first year of monitoring. The first annual report will be provided in spring 2008. Following the committee's review of the report, their advice and recommendations will be incorporated into the AMS program. The results of the first year of monitoring will be made available on the project website at www.portvancouver.com/the_port/deltaport.html following committee review.

HABITAT COMPENSATION



VPA is working in partnership with Ducks Unlimited and the Pacific Salmon Foundation to create 7.5 hectares of off-site compensation.

UPDATE ON HABITAT COMPENSATION

The Habitat Compensation Plan for DP3 will provide approximately 20 hectares of on-site compensation projects and 7.5 hectares of off-site compensation.

- **East causeway enhancements** include the excavation of the east causeway shoreline to create aquatic habitat for fish and coastal seabirds.

Status: Initial construction works are expected to proceed early next year. Baseline monitoring work is underway and mostly complete.

- **Log removal and salt marsh restoration** to increase productive capacity for fish and fish habitat.
- **Caisson habitat** openings within the dock structure will provide increased surface area and refuge for marine organisms.

Status: Caisson habitat is being incorporated into three of the caisson structures as they are constructed.

- **Subtidal rock reef** for increased fish and coastal seabird habitat productivity.

Status: Baseline monitoring work has been completed. Equipment targeted for rock placement has not been available this year. Rock placement will proceed next year.

- **Sandbar stabilization** to re-establish eel grass beds within areas that have been modified by dendritic channels.

Status: After consultation with Fisheries and Oceans Canada and Canadian Wildlife Services, a pilot project has been prepared that will conduct the stabilization work in phases leading to a larger project based on success measures. The pilot will be undertaken next summer. Baseline monitoring will be conducted in the spring.

- **7.5 hectares of off-site compensation** is being created in partnership with Ducks Unlimited and the Pacific Salmon Foundation.

Status: An engineering assessment of Rose-Kirkland Island has been completed. Baseline work will be undertaken this winter and early spring 2008 to determine the islands' current use as fish and wildlife habitat and to assess the potential for the creation of new habitat.

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PROJECT SCHEDULE 2008

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MARINE WORKS												
VPA is responsible for all marine works construction												
Construction of Containment Dike No. 2												
Fill Stockpiling and Placement (by dredges)												
Fill Pre-Load												
Caisson Mattress Placement and Densification												
Caisson Placement												
HABITAT COMPENSATION												
East Causeway (to be determined)												
Rock Reefs												
Salt Marsh Creation												
Sandbar Stabalization (to be determined)												
Off-site Compensation (to be determined)												
TERMINAL WORKS												
TSI Terminal Systems Inc. is responsible for all terminal works construction												
Tender Closes												
Contractor Mobilization												
Stage 1: Underground Utilities												
Stage 1: Import Gravels, Rough Grade Site												
Stage 1: Construct Rubber Tire Gantry Crane (RTG) Runways												
Stage 2,3: Underground Utilities												
Stage 2,3: Import Gravels, Rough Grade Site												
Stage 2,3: Construct RTG Crane Runways 9												
Stage 4: Underground Utilities												
HIGHWAY 17 IMPROVEMENTS												
VPA is working with the Ministry of Transport and the Corporation of Delta to implement road improvements												
Design Completion												
Ministry and Delta Approvals												
Tender Period												
Construction												

Note: Project Schedule is subject to change.

The Deltaport Project Newsletter is published twice a year. To sign up for more frequent project updates, please visit the DP3 Project website page at www.portvancouver.com/deltaport/construction, or call 604-665-9337.

HOW TO CONTACT US AND LEARN MORE

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www.portvancouver.com/deltaport/construction
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