



Neptune Terminals has applied to Port Metro Vancouver for a permit to build a storage and handling facility for phosphate rock. This project will see the replacement and upgrade of terminal infrastructure enabling the storage of imported phosphate rock, used for production of fertilizer. These upgrades replace the proposed storage facility previously approved and permitted by Port Metro Vancouver in 2005.

Port Metro Vancouver conducts a comprehensive project review process. Details on Port Metro Vancouver's review process can be found at [www.portvancouver.com/projectreview](http://www.portvancouver.com/projectreview).

## About Neptune Terminals

Located just west of the Iron Workers' Memorial Bridge within Port Metro Vancouver, Neptune Terminals handles potash, steelmaking coal, bulk vegetable oils, fertilizers and agricultural products shipped to markets around the world. Neptune Terminals is one of the largest multi-product bulk terminals in North America.

Neptune Terminals is continually upgrading its terminal infrastructure as part of an ongoing commitment to improve the efficiency of our terminal, enhance our product handling equipment, and continue to meet our customers' needs. By 2013 upgrades will total \$230 million in investments and will create an estimated 185 new jobs for our community.

As has been the case since we began our terminal improvements, all the upgrades are within Neptune's existing footprint.

- The upgrades we have made since 2008 include a new surge bin used to manage the loading of potash onto ships, a new potash railcar dumper, upgrades to our potash berth and conveyors, and additional rail track to manage longer trains.

- In 2011, we installed new automated railcar positioning equipment and began work on a power system upgrade to improve service delivery for the terminal.
- We also commissioned a new steelmaking coal stacker reclaimer, which will allow us to more quickly move the steelmaking coal from our terminal onto the ships, further enhancing the equipment on our terminal. This steelmaking coal equipment is currently being built in Sidney, BC, and we anticipate it will be operating by Spring 2013.
- We have three ultra-low emission N-ViroMotive engines used to move railcars around the terminal. Because of the design of our terminal, with a full loop track, we have almost eliminated the need for railcar shunting, which significantly reduces the noise from trains at our terminal.

These terminal improvements have allowed us to upgrade much of the original terminal equipment, incorporating the best available proven technology for terminal environmental management.

## What is new for 2012?

Our terminal renovations are focused on the phosphate rock handling system. Phosphate rock is used in the production of phosphate fertilizer and is the first product we handled at our terminal. Phosphate is an essential nutrient for life and a key link in the global food chain, which helps feed the world.

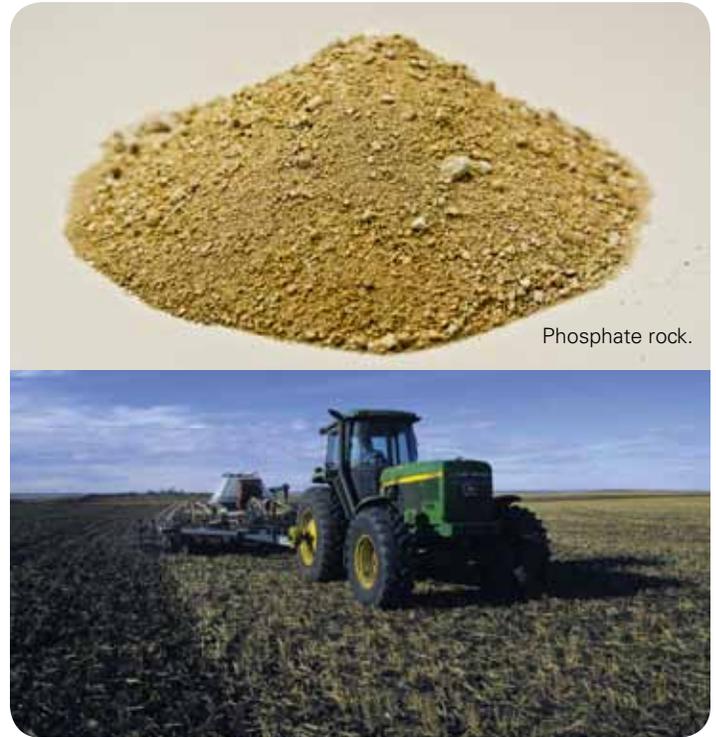
Phosphate rock is similar to coarse beach sand. As a result, it is easier and most efficient to handle when dry, so is covered for transportation and storage.

The upgrades include installing:

- A new, modern storage facility for phosphate rock, replacing the original silos that were built when we first opened the terminal in the mid-1960s and used for over 30 years.

The replacement phosphate rock storage facility will be designed with a similar A-frame shape and height as our adjacent potash storage building. Extending north towards Low Level Road, the replacement facility is estimated to have a height of 33 metres, or slightly lower, compared to the 33.8 metres of the adjacent building. It will also be smaller than the facility that was previously proposed and approved in 2005 for potash storage.

- New equipment to transfer the phosphate rock from the ships to the storage facility and then onto trains, including conveyors and a railcar loading station.



Phosphate rock.

Phosphate nutrients are used by farmers to stimulate early root development and flowering in plants. Phosphate also helps in the prevention of disease and stress. Phosphate, nitrogen, potash and sulphur are the key ingredients in crop nutrients.

- Redesign of the rail operations on our terminal to accommodate the trains that will carry phosphate rock.

The upgrades we have planned will create phosphate rock terminal capacity of 1 million MT, allowing us to efficiently move the product between the ships and the trains.

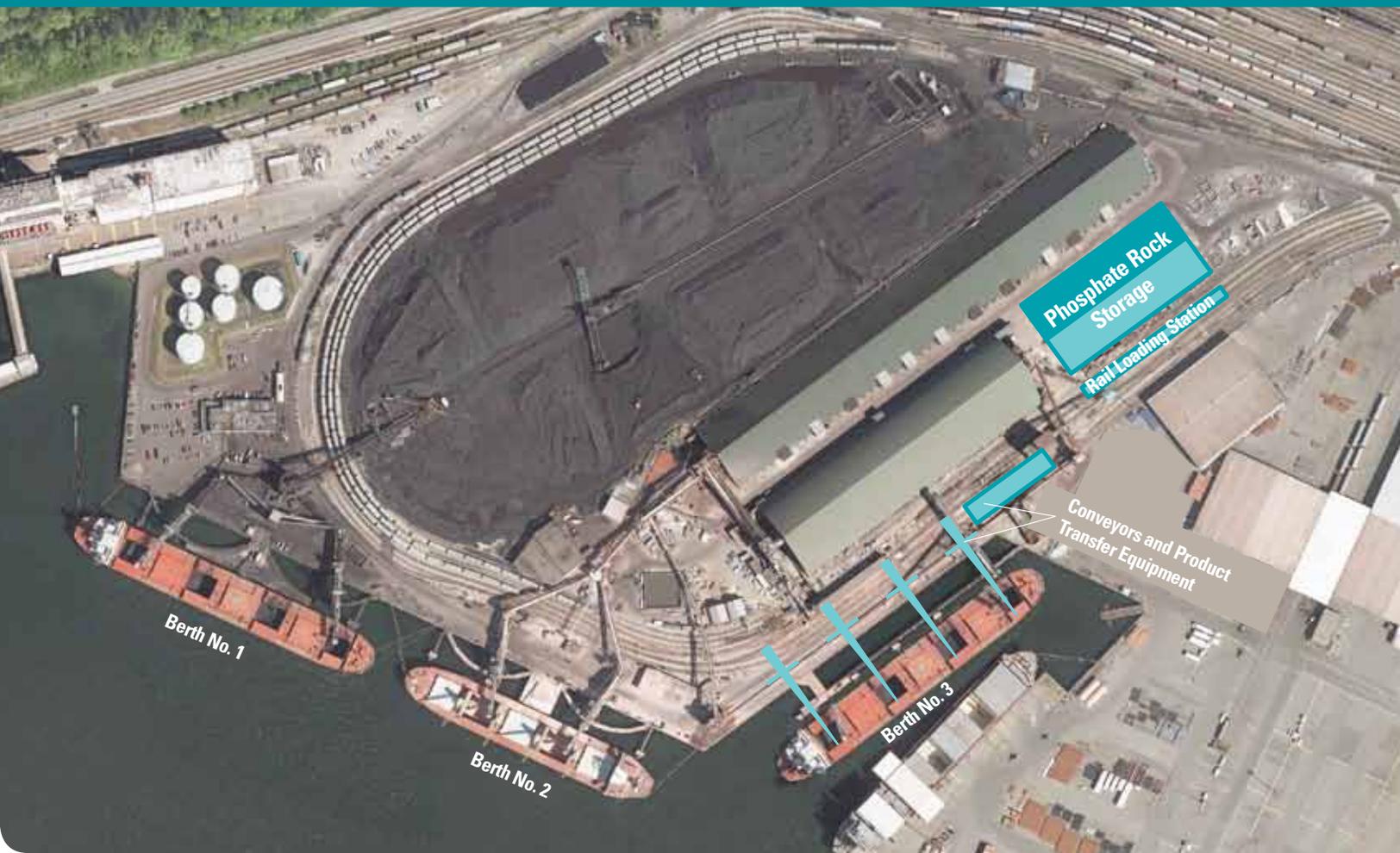
Neptune's approximately \$80 million phosphate rock upgrade investment will deliver 35 new jobs and is estimated to nearly double our annual tax payment to the City of North Vancouver, providing further important community services and programs that benefit all local residents.

This builds on where we are today:

- 300 jobs at Neptune
- \$1.3 million in annual tax revenue to the City
- \$19 million in annual spending in our local community through our 'Buy-Local' program



Neptune's berth three where phosphate rock will be unloaded on to waiting trains.



An aerial view of Neptune's site highlighting the planned upgrades to Neptune's phosphate rock handling system.

## How will this impact our community?

We believe the impact on our community will be overwhelmingly positive, with new job creation, additional tax revenue for the City and significant growth in our 'Buy Local' purchasing program. While there will be ongoing activity during the construction phase, we believe the impact on the community will be minimal, and we are determined to keep it that way.

We are still in the early design stages for many of the improvements. Right now, we know that:

- During construction, there will be contractor activity on our terminal, similar to the activity we have on our terminal today. We will share specific information on the construction schedule as it is developed.
- The storage facility and supporting terminal equipment will be designed and positioned on our site to minimize terminal noise. The phosphate rock railcars will also be moved using our ultra-low emission engines.

- Once the upgrades are complete, we anticipate the equivalent of one train every four days for phosphate rock.

As has been our practice in the past and will continue to be our approach moving forward, we are committed to sharing terminal information with the community, to operating Neptune to the highest standards possible, and using the best available proven technology in all our operations.



The terminal improvements will deliver an estimated 35 new jobs.

## What is the timeline for these changes?

The phosphate rock system project is still in the planning and design stage. The upgrades are being designed to ensure they are built in line with Neptune's commitment to operate to the highest standards possible, while also reflecting the company's values and those of the community for responsible operations.



## Why are we making these changes?

Neptune has been operating on North Vancouver's waterfront for over 40 years and we are committed to continuing to operate for many decades to come. The new storage facility and equipment will replace the original silos, upgrade our system to the best proven environmental technology standards, and respond to our customers' growing needs.

Our terminal improvements also drive growth for Canada's Gateway, supporting the countless communities across Western Canada that rely on our terminal to deliver their products to global markets.

## Where can you go for more information?

Neptune is committed to sharing information with the community as the upgrades proceed. Project information and updates are available on our website – [www.neptuneterminals.com](http://www.neptuneterminals.com).

We invite the community to visit our terminal for a tour to see first-hand the changes we have planned. Tours will take place at 10:00 am on May 4, 9 and 11. To register, call 604.983.4407 (Note: Maximum 20 people per tour).

### **For project information, please contact:**

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