

Kinder Morgan – Vancouver Wharves Terminal



Terminal Specifications

Size	139 acres
Storage Capacity	<p>Bulk – 1 million tons</p> <ul style="list-style-type: none"> – Mineral storage; enclosed storage for over 500,000 tons of concentrate, multiple separations; 7 warehouses, some with multiple separations – Pulp/paper storage; 35,000 sq. meters covered storage on wide apron dock area – Sulfur storage of approx. 175,000 tons – Agri-products storage includes 10 bins that hold approx. 25,000 tons in total. <p>Liquids – 248,000 barrels (4 tanks)</p> <p><i>Available land for expansion</i></p>
No. of Ship Docks	<p>4 deep-sea berths: Draft varies from 37 – 45 ft, each berth with approximate length of 900 ft.</p> <p>Accommodates deep draft ships; up to and including Panamax vessels</p>

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Terminal Specifications

Commodities Handled *Bulk:* Mineral concentrates (copper, zinc, & lead), sulfur, specialty agriculture products (peas, malt barley, etc.), wood pellets and break bulk cargo handling

Liquids: Petroleum products

Transportation Modes

Servicing Body of Water Burrard Inlet, Pacific Ocean

Servicing Railroads CN Rail; Interchanges from CP and Burlington Northern Santa Fe

Major Features

- Strategically located in the Port of Vancouver
- 4 berths

Contact Information

Terminal Address

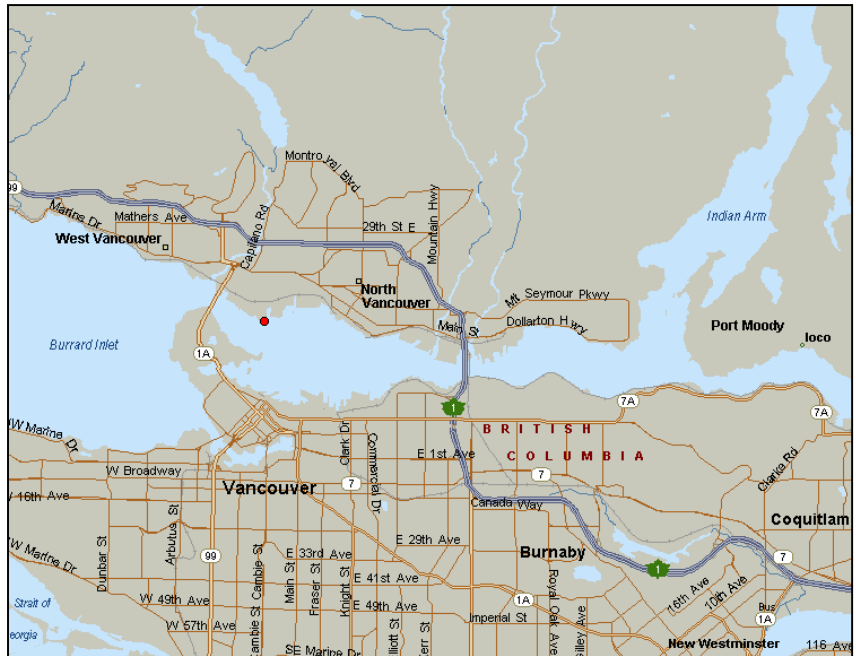
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Terminal Manager

Alex Goold

Business Address

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Terminal Services

Sulfur / Dry Bulk

- Railcar dumper: can receive rotary gondolas or bottom-dump hopper cars
 - Multiple loop tracks: means no breaking the trains – cars stay together as a unit
 - Fast unloading: sulfur units (104 cars) are unloaded in less than five hours; fertilizer units in less than a shift
 - Fast loading: two quadrant shiploaders rated at up to 3500 tph each
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Minerals

- Environmental care is first and foremost at Vancouver Wharves. Our concentrates facilities are fully enclosed to ensure the cleanest handling possible.
 - Additionally, we collect and treat all the water used on our site, including even rainfall. The water is cleaned in sophisticated, modern treatment facilities before being released back into the ocean.
 - The terminal boasts the only permanent unloading crane in the Port of Vancouver, and we have enclosed facilities for both loading and unloading railcars. We can also receive product by truck.
 - Loading equipment: traveling gantry shiploader
 - Unloading equipment: grab bucket unloading crane
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Agri-Products

- Rail, handling systems and berth are totally dedicated to agriproducts
- Surge (storage) capacity protects product quality; currently 25,000 tons with room to add more
- 100-car unit trains can be brought onto the loop track and unloaded with only one break in the train
- Totally enclosed variable-speed belts provide gentle handling – there are no bucket elevators anywhere in the system
- Airveyor belts ride on a layer of air (instead of rollers) for smooth, clean handling
- Certified weighing and sampling are possible both on receipt and shipping
- Individual car weights can be provided on receipt
- Fully enclosed track shed unloads over 50 cars/shift
- Powerful dust-control and brush/vacuum systems allow for quick product change
- Fast loading system designed for 1500 tons per hour from storage
- Cascade" shiploader flows product into the bottom of the hold, for gentle dust-free vessel loading
- Fully licensed by the Canadian Grain Commission – a government regulatory agency responsible for maintaining the consistent high quality of Canada's grain supply

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Terminal Services

Liquids

- Vancouver Wharves four tanks available – 2 100,000 bbl tanks and 2 25,000 bbl tanks. Two separate outbound handling and shipping systems offer flexibility required to handle and store two different products.
 - Two separate systems: each with their own receiving, storing and shipping capabilities
 - Railcar Unloading stations: five on one system, ten on the other
 - Loading arm: services ships at rates of up to 900 tonnes per hour
 - Stainless steel shipping line: services ships at rates of up to 700 tons per hour
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Pulp/Paper

- Significant features of our facility include weather-protected unloading areas, enclosed cement-floor warehouses, weather-protected trailer-loading stations, and the closest warehouse proximity to vessel of any export facility in the Lower Mainland.
 - With both railcar and truck unloading ramps, a full-depth berth, and ample storage, we're able to provide our customers with the flexibility they require.
 - Vancouver Wharves has a complete array of modern efficient handling equipment to protect pulp quality. We were the first deep-sea pulp terminal in Canada to attain independent recognition by the ISO quality assurance program.
 - Three covered/enclosed railcar-unloading areas
 - Three truck-unloading ramps
 - Loading equipment: a complete array of up-to-date mobile equipment including surf-boards, clamp-style lift trucks, stainless-steel decked trailers and custom loading platforms for optimum cargo protection
 - Advanced computerized pulp-inventory-management system
 - Compressed-air stations to ensure product care
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