



## POTASH EXPORT TERMINAL

CLIENT - Confidential

LOCATION - Vancouver, B.C. & Longview, WA

COMPLETED - December 2011

### DESCRIPTION

Matrix PDM Engineering provided the front end engineering design to evaluate and compare two potash export facilities, including an AACE Class 4 cost estimate. Expert recommendations were provided, based on technical details, cost, and schedule comparisons of the two terminal locations. The summary report included scope and methodology, technical study, cost and schedule, and general site comparisons.

### PRINCIPAL FEATURES

- Terminal capable of receiving 2.4 mtpy (million tons per year) of potash by unit trains
- 150,000 tons of covered storage capacity
- 3,000 mtph (metric tons per hour) reclaim from storage using portal-type stacker/reclaimers
- Capacity to load deep-draft vessels up to Panamax size
- Upgrades to existing loop track to support the rail unloading operations and recommendation to utilize in-motion loading
- Risk assessment to evaluate potential cost overrun risks and analyze the material take-off and pricing cost precision
- Simulation study for both sites with loading/unloading for trains and ships
- Dual 3,000 mtph ship-loaders, configured to operate alternatively allowing continuous ship-loading operations

**FOR MORE INFORMATION:**

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