



“Shed”ding Some Light

THE CONSTRUCTION (AND BEYOND) OF THE POTASH SHED.

With approximately 95% of the world’s potash going to the production of fertilizer, potash plays a central role in helping feed the world’s growing population.

PCT will receive potash by train from a mine about 150km south of Saskatoon. Up to 177 rail cars per train will travel at once with up to 105 metric tonnes per car. Trains, conveyors and transfers will all be enclosed and a “railcar belly unloading” technique will protect this soluble potassium chloride during transport and handling, along with protecting the environment from any potential dust. It goes without saying that with such a shielding transport technique, protective storage procedures are required. This is where PCT comes in. Typically potash sheds are over 45 meters high (if you need something to compare that to, Godzilla’s first ever TV appearance he stood 50 meters tall!). Potash sheds are generally constructed of all wood due to their ability to absorb the utmost amount of moisture. Wood sheds maximize effectiveness for storage of the easily dissolved potash, yet produce a substantially higher structure in order to sustain sufficient stability and accommodate the necessary equipment. Due to PCT’s success with their current sulphur stacker reclaimer technology, PCT was able to mirror the same operations for potash handling, varying from tradition but allowing for some flexibility in shed construction. PCT proposed the construction of a significantly

lower, metal frame shed with a wooden roof and wall structure, creating not only stability without the excessive height, but still providing the necessary means to absorb the moisture. With the peak height at 35.7 meters our potash shed will hold a capacity of 160,000 tonnes of potash within 540,000 meters³ building volume (that’s a space large enough to host 216 Olympic-size swimming pools) with a base footprint of 21,830m². Introducing a distinctive storage facility and a new innovative way of handling potash, K+S, PCT’s partners in potash, were keen to implement this new technology – a unique selling feature for PCT.

Did You Know?

The total length of all the pipe piles under the shed is 15.8 km! That’s over 3 round trips of the Coquitlam Crunch! Also, PCT’s new potash shed required 17,300m² of formwork, 3,400m³ of concrete and 570,000Kg of rebar. These precast elements were fabricated offsite eliminating the need for approximately 500 material deliveries to site, reduced traffic of workers to site by approximately 8,813 worker days and reduced traffic to site by approximately 10,600 round trips!

Offsite Fabrication	Vs.	Onsite Fabrication
300 deliveries to site	Vs.	800 deliveries to site
4500 hours/8 = 562 work days on site	Vs.	75,000 hours/8 = 9,375 worker days on site
Approx. 900 round trips to site	Vs.	Approx. 11,500 round trips to site



PCT Site Expanded

Our site continues to undergo quite an expansion and transformation with our construction. At the beginning of 2016, PCT began leasing another 3 acres (approximately) of land from the Port of Vancouver along the shoreline from the site’s previous western boundary to the eastern border of Reed Point Marina. Since then, construction to expand and fortify this shoreline has been completed in preparation to extend an existing rail track to accommodate the longer potash trains. Part of PCT’s responsibilities in leasing this additional land is the assessment of its environmental condition and including this new area in PCT’s site environmental management plan.

Ask an Employee

Aaron Lepp, Assistant Maintenance Manager at PCT
Nickname: Leppy and/or A-A-Ron

10 FUN FACTS ABOUT AARON:

- 1) I enjoy snowboarding and snowshoeing.
- 2) I'm an avid camper and hiker.
- 3) I'll never understand how Canadians can be scared of spiders and snakes and yet have a "Bears? Meh..." attitude.
- 4) When I played cricket I opened the batting, fielded at short leg and bowled right arm off spin.
- 5) I've watched a game of cricket for 5 days straight, it ended in a draw and I was happy with the result.
- 6) I love Rugby Union, I like Rugby League and I don't really care for Australian Rules football, the professional Australian Football League.
- 7) I'm a diehard Portland Trailblazers fan and will support the Timbers to wind up White Caps fans.
- 8) I've taken a liking to curling as it reminds me of lawn bowls, although it's tough to play barefoot...
- 9) I'm learning to speak French through the various bilingual food labels at the supermarket.
- 10) I found it hard to come up with 10 fun facts about myself.

Q: Tell us about your life BPCT (before PCT)

A: Life before PCT started 33 years ago in Brisbane, Australia. I spent my days bending bananas, playing cricket and wrestling crocodiles. I went to university to study Mechanical Engineering. Following that, I did a season in Whistler and worked in the outback at a coal mine. I have now been in Canada for 4 years and I'm officially, as of a month ago, a permanent resident of Canada...eh.

Q: What's the best part about working at PCT?

A: The people I work with, the challenges of the waterfront and working outside when the sun is shining.

Q: If you could describe yourself in one word what would it be?

A: Hilarious

Q: If your coworkers described you in one word what would it be?

A: Unfunny



Community Connections

This regular section is dedicated to showcasing some of our partnerships and providing important information to the residents of Port Moody.



IMAGINE

Pacific Coast Terminals has been a community supporter and corporate partner of SHARE since 2002. For over 13 years, PCT has supported a variety of SHARE programs and services, most recently, as sponsor of the annual fundraising event IMAGINE.



HIKE FOR HOSPICE

PCT is a proud sponsor for the Crossroad's Hike for Hospice. This year the hike attracted the most people ever (over 350!) and raised over \$52,000!



SEARCH FOR THE PERFECT PINT

For the love of beer! PCT, always a proud supporter of the Rotary Club of Port Moody, and especially when beer is involved! PCT was a bronze sponsor this year in the Search for the Perfect Pint event that hosted 6 food vendors and 18 craft breweries (and our PCT team) and raised nearly \$27,000!



Contact

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Your comments and contributions are welcome. Please forward them to us at:

EMAIL pctinfo@pct.ca
 TEL 604-939-7371

Upcoming Events..

GOLDEN SPIKE DAYS
June 30th – July 3rd

SUMMER SUNDAY CONCERT SERIES
Every Sunday from July 10th – September 4th

RIBFEST
July 22 – 24

PCT wants to know!

What is your favourite part about Port Moody in the summer?

Tweet your summer pictures and hashtag us (#PacificCoastTerminals) for your chance to win 1 of 4 \$50 Meat Craft Urban Butchery gift cards and 1 of 4 \$20 Moody Ales gift cards.

 @PCTPortMoody

 @MeatcraftPM

 @MoodyAles

MOODY
ALES



Scholarship Winners!

PCT and K+S Potash Canada offer four \$1,500 scholarships to assist graduates of Heritage Woods and Glen Eagle secondary schools in Port Moody to pursue post-secondary education. These four students overwhelmingly demonstrated leadership in academics, athletics, the community or the arts. Selection was also based on personal references and planned attendance at a postsecondary institution. This year we are proud and honoured to present the following outstanding individuals with a scholarship!

TINA MADANI KIA
 Port Moody Secondary

AMANDA DUNBAR
 Heritage Woods Secondary

KATHLEEN DUNBAR
 Heritage Woods Secondary

ZONGKONG (MARK) SHEN
 Heritage Woods Secondary.



(From left to right) Wade Leslie, VP and GM of PCT; Tina Madani Kia, Amanda Dunbar, Kathleen Dunbar, Mark Shen and Steffen Brill, Senior Manager Logistics and Transportation of K+S Potash Canada GP.