

How PCT's Upgrades Affect the Supply of Sulphur Around the World



Ships berthed at PCT deliver sulphur to countries around the world.

Supplying the world with sulphur is no easy task. Past issues of *Channels* have discussed the movement of sulphur from Alberta, through Port Moody, to countries across the globe. It's a job that requires careful timing and excellent communication with suppliers, purchasers, railways, ships, and employees. It's also a job that requires PCT's state-of-the-art facility to work its best to get the job done as safely and as quickly as possible.

In order to keep everything ship-shape, each piece of equipment needs

to be maintained, upgraded, and sometimes even replaced. Maintenance at PCT is an every day task, but upgrades and replacements need to happen less frequently – even as little as once every 20 years. PCT has identified three pieces of equipment that need to be upgraded: the rotary dumper, the Stakrake, and the shiploading conveyor system.

How does PCT plan to make these upgrades?

Planning is the key to any successful refurbishment process. Over the past two

years, PCT has worked with engineers and contractors to map out both timing and supply chain management issues. A three-year program is in place to shut down all sulphur operations for four weeks each year, starting this year. Each period has been carefully planned, with contractors and engineers ready to follow a stringent schedule.

Year 1: July 2008

- Replacement of the entire shiploading conveyor system.
- Preparation work to replace the rotary dumper.
- Replacement of the first boom on the Stakrake.

Year 2: June 2009

- Barrel replacement on the rotary dumper.
- Replacement of the second boom on the Stakrake.

Year 3: June 2010

- Upgrade of electrical systems on the Stakrake.
- Replacement of electrical substation building.

How does PCT, the world's largest sulphur export terminal, make these upgrades while minimizing their effect on the world's supply chain?

Minimizing the effect on the world's supply chain of sulphur is best ensured by completing upgrades as quickly as possible. To do this, crews will be working around the clock at PCT for four weeks each year.

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PCT Upgrades (continued)



The booms on this stakrake will be replaced as part of PCT's upgrades.

Suppliers in Alberta and customers around the world were also contacted, years in advance, to prepare for these shut downs. Arrangements have been made on a number of fronts. Some customers have stockpiled sulphur in advance or have prepared to simply cut back on receiving shipments. Others will be temporarily receiving shipments from other sources. For example, a portion of PCT's sulphur shipments will be diverted to a terminal located in North Vancouver.

There is no doubt that these upgrade periods will have a slowing effect on the sulphur supply chain, however PCT is doing everything it can to minimize these effects.

What does this mean for Port Moody?

The refurbishment process ensures that PCT's equipment will remain up-to-date and work effectively over the next 20 years. PCT remains committed to serving the Port Moody community and its worldwide customers.

The Story of Sulphur: Part Two



Sometimes steam rises from these piles of sulphur at PCT.

What starts out as a hot liquid cools into warm sulphur pellets. These pellets are then poured into rail cars and transported across the Rocky Mountains from Alberta to Port Moody.

As a natural insulator, it's not surprising that sulphur can be still warm in its cars upon arrival at PCT. After being added to PCT's piles on a cool day, it's easy to confuse the natural steam rising from each pile for dust.

Taking a Fresh Look at PCT's Water

As the summer cools down and autumn leaves start falling, Port Moody residents look to the cool ice of the local Curling Centre instead of a dip in Rocky Point Pool. PCT, on the other hand, carefully monitors the water in ponds, like the one pictured below, all year-round.

Water plays an important part in PCT's daily operations, and has been the cornerstone of environmental efforts over the years. PCT not only protects the water around loading ships, adjacent streams, and estuaries, but also treats and recycles water from operations.

All water drained from the terminal's surface is collected and pumped into two ponds where it is then tested and treated to ensure it meets or exceeds regulatory standards.

The water is then reused in an award-winning recycling system. Over the last

five years, PCT has recycled 2.5 million cubic meters of water. That's equivalent to 3,500 Rocky Point Pools combined!

PCT does everything they can to ensure the terminal's impact on the environment is a positive one. That is why PCT is always taking preventative measures and undergoing restoration projects.



PCT recycles water in ponds like these.

Q and A with

Angela Griffiths

Director of Conservation Programs,
Vancouver Aquarium



Q: What is the TD Great Canadian Shoreline Cleanup?

It's a Canada-wide initiative to cleanup and improve shoreline habitats. This year the cleanup will take place over the week of September 20 to 28.

Q: Who is involved in cleaning the shores?

A huge range of people. Most groups come from schools, scouting troops and other community organizations. However, we are seeing more and more corporations and employees participate over the years.

Q: What are the benefits of the cleanup?

Marine litter is becoming a growing issue because plastics remain on shorelines for long periods of time. Whether it is from directly eating shoreline litter or wind that blows it in, the

effect on marine animals' habitats and health is substantial.

Q: What is the strangest item ever found?

Everyone has a different opinion, but I think the strangest item found was a blown-up safe in Toronto. Every group is asked to submit a report on the most unusual items found and we include them in our annual report each year.

Q: What role does PCT play in the Cleanup?

PCT has participated in the TD Great Canadian Shoreline Cleanup for the past six years. PCT employees gather together on the site's waterfront in Port Moody every year. They scour the shores with bags in hand, picking up garbage and debris. It's groups like these that make the cleanup a success every year.



Q: How can people sign up?

People can sign up online or drop by a designated cleanup site at their convenience. More information is available on our website at www.vanaqua.org/cleanup.

The total sulphur produced worldwide in 2007 was 71.4 million tonnes. 29.5 million tonnes of this sulphur was traded internationally, with Canada's portion at 24 percent. PCT is the largest sulphur export terminal in the world, handling 3.5 to 4.0 million tonnes of sulphur each year.

Did you know

What this means for Port Moody:

- PCT contributes over \$1.1 million in property taxes every year.
- PCT provides the equivalent of 92 full-time jobs, paying employees over \$12 million in salaries each year.
- In 2008, PCT will purchase \$24 million in goods and services, primarily from merchants in Metro Vancouver.

Winner of Summer Channels Website Contest

PCT is pleased to announce the winner of the Summer Channels Website Contest. Congratulations Darrell Bryce. Darrell logged on to www.pct.ca, completed five questions online, and won a dinner for two at the Saint St. Grill. Bon appetit Darrell!

The Port's City Scene

Port Moody students share their experience at a recent school tour at PCT.

The TD Great Canadian Shoreline Cleanup, September 20–28, 2008

What started 15 years ago as a small beach cleanup by four Vancouver Aquarium employees has now grown into the second largest shoreline cleanup in the world! PCT is proud to join over 52,000 Canadians registered to clean up 1,240 shorelines removing 87,489 kg of harmful shoreline litter. To find out more, please visit www.vanaqua.org/cleanup.

An Evening of Caring at Eagle Ridge Hospital, September 27, 2008

PCT is pleased to contribute to Eagle Ridge Hospital Foundation's "An Evening of Caring" for the seventh year. This black-tie gala and auction raises funds for new hospital equipment, such as operating tables and an ultrasonic scanning system. The event includes a gourmet dinner, complimentary wine, unique silent and live auction items, and entertainment. For more information, please visit www.erhf.ca.

Summer Sunday Concerts

PCT was delighted to sponsor the third annual Pacific Coast Terminals Summer Sundays in Rocky Point Park. During this concert series, which kicked off on July 6th, Port Moody residents were able to enjoy free concerts at Rocky Point Park every Sunday until the end of August.

Links to Literacy Golf Tournament

On August 25th, the Port Moody Public Library hosted their eight annual "Links to Literacy" golf tournament and fundraiser at Meadow Gardens Golf Club. Participants enjoyed a great day of golf and supported a good cause. PCT was once again proud to be the main sponsor for this event.

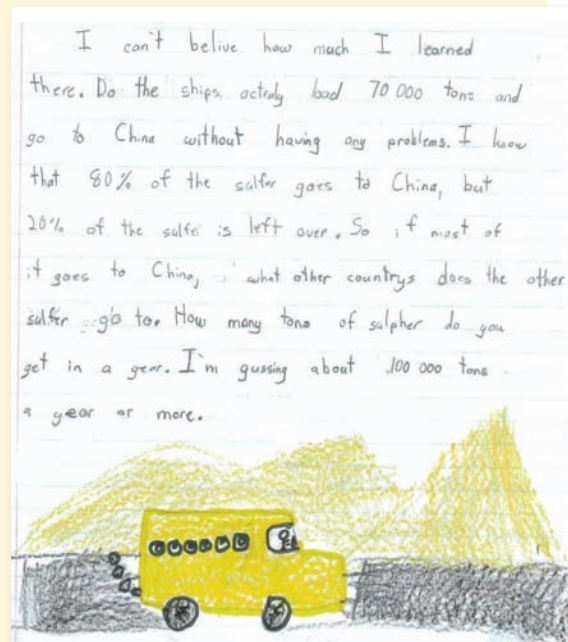
Back to School with PCT

Each year PCT invites Port Moody teachers and students to participate in guided field trips through the shipping terminal. Students in Kindergarten to Grade 12 are given the opportunity to explore the science, history, and future directions and markets for sulphur and ethylene glycol.

These tours are connected to BC's curriculum in several subject areas including: Personal Planning K–1, Social Studies 2–3, Social Studies 5, Social Studies 6, Business Education 8 & 10, Marketing 12, Career and Personal Planning 8–12.

A PCT guide takes students through the terminal on a school bus and works to combine learning with fun. To ensure students are prepared with questions and know what to expect on their tour, lesson plans are available for teachers prior to each trip.

To learn more about school tours, to order a free copy of the PCT school program or to book a tour, please visit www.pct.ca.



2009 PCT Scholarships

Are you a graduating student from Port Moody Secondary School or Heritage Woods Secondary School who is passionate about continuing your education? If you're graduating in 2009, we would like to know more about your involvement in the community and why you deserve to win this award. For more information on applying for one of PCT's three \$1000 scholarships, contact your high school guidance counsellor, or download the PCT scholarship brochure from www.pct.ca.

Contact Information

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