

The text 'PUBLIC FORUM' in a bold, white, sans-serif font, positioned in the upper left corner of the page. The background behind the text is a blue sky with white clouds and a white line-art silhouette of a city skyline.

WELCOME

A large industrial facility, likely a drydock, with several large blue and white structures. A yellow crane is visible on the right side. The sky is overcast with grey clouds. The facility is surrounded by a fence and has various pieces of equipment and structures visible.

Vancouver Drydock is seeking an Air Quality Permit from Metro Vancouver for its operations in North Vancouver, BC. The permit is to allow existing operations to continue. There is no proposed change in operations or uses.

Located in the Lower Lonsdale area, Vancouver Drydock provides a full range of quality services for the local marine industry including vessel conversion, repair, maintenance and dry-docking services. Vancouver Drydock is a large local employer that provides well-paid jobs for approximately 200 trades and office staff.

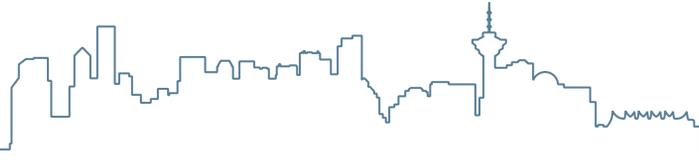
The permit application is at the request of Metro Vancouver. Vancouver Drydock has not been previously asked to make such an application.

The application is not the result of any change in operations or any anticipated increase in emissions. The facility will continue to operate as it does today, in accordance with safety and environmental guidelines.

Care for our environment and community remain a core value for Seaspan. Ensuring the health and safety of our workforce and local residents is of the utmost importance for our company.



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WHO IS SEASPAN?

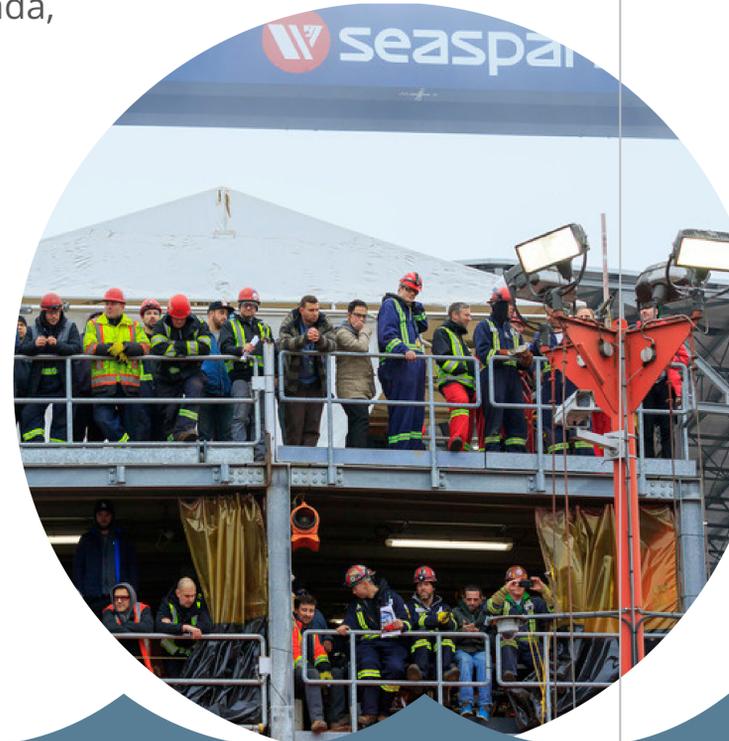
Seaspan is an association of Canadian companies based in Western Canada, which include:

SEASPAN MARINE

- Marine Transportation
- Marine Petrobulk
- Seaspan Ferries

SEASPAN SHIPYARDS

- Vancouver Drydock
- Vancouver Shipyards
- Victoria Shipyards



SEASPAN SHIPYARDS

Conveniently located to serve the West Coast's marine industry, our full-service shipyards in Vancouver and Victoria, British Columbia are dedicated to serving our customers with a commitment to reliable service and quality craftsmanship. This care is lived out every day by the more than 2,000 women and men who enjoy employment at Seaspan.

Seaspan recognizes that we operate our shipyards on the traditional land of the Coast Salish people both in North Vancouver and on Vancouver Island. As a good neighbour, it is our goal to foster strong relationships with First Nations in our communities.



CORPORATE RESPONSIBILITY

With our company's deep roots on the West Coast, Seaspan is committed to our local communities and the environment. Seaspan demonstrates this commitment through partnerships with local organizations, charitable initiatives, strict adherence to environmental standards, and promotion of initiatives that support sustainability.

CARE FOR OUR ENVIRONMENT

Care for the Environment is a Seaspan Core value and is the foundation of the Seaspan Environmental Policy. Seaspan recognizes that it has a responsibility to protect the environment within which we operate and adheres to rigorous environmental standards and programs.



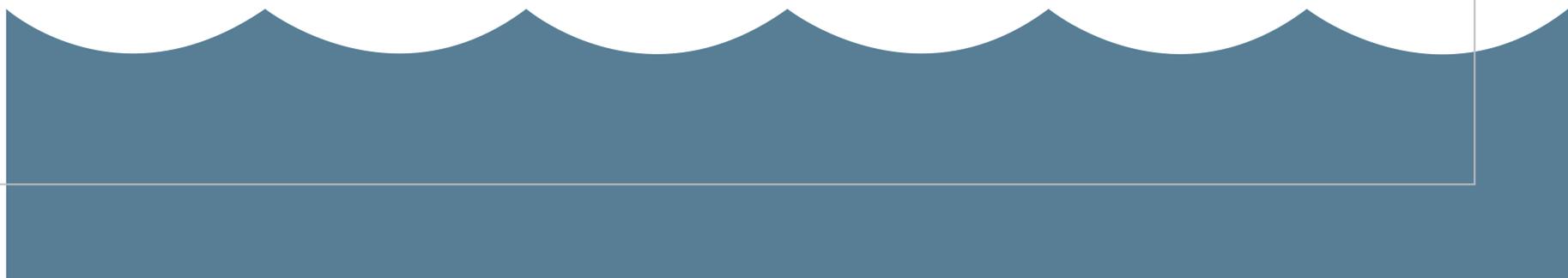
Environmental Management System

Since 2007, Seaspan has operated under an Environmental Management System (EMS) based on the International Standard ISO 14001.



Green Marine Certification

Since 2011, Seaspan has participated in Green Marine Program, a leading Marine Industry environment and community certification program that is voluntary. Companies' levels are verified by certified, third party assessors.





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CORPORATE RESPONSIBILITY

EMPLOYEE SUSTAINABILITY AND AWARENESS:

For the health of our workforce and communities, Seaspan works to protect the environment and ensures that our company acts in a sustainable and responsible manner. This includes:

- The Great Canadian Shoreline Cleanup (*see right*)
- The Enhancing Cetacean Habitat and Observation (ECHO) Program
- MacKay Creek Restoration Program and Community Volunteer
- Bike to Work Week
- Idle-Free Zones in our shipyards and marine terminals
- Port of Vancouver *EcoAction Program*

CARE FOR OUR COMMUNITY:

We pride ourselves as an engaged member of the community and actively contribute to a range of local charities including United Way, BC Children’s Hospital and the BC SPCA.

Seaspan also participates in local festivals and events including North Vancouver Fun Day and last year we welcomed our community to Vancouver Shipyards proving a rare behind-the-scenes look for the public.

In 2017, Seaspan was awarded the Association of Canadian Port Authorities (ACPA) Medal of Merit Award, for Sustainability and Business, recognising Seaspan’s economic impact and strong focus on Environmental Programs, community and First Nations Engagement.





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SHIPYARDS ON THE NORTH SHORE

Shipbuilding and ship repair has over 100 years of history on the North Shore waterfront, providing jobs and supporting economic growth.

HISTORY OF THE VANCOUVER DRYDOCK

For more than a century, shipyard workers have built and repaired vessels in North Vancouver. Seaspan has inherited this lineage and is proud to continue it at Vancouver Drydock.

Operations on the North Shore began when Wallace Shipyards moved from its False Creek home to the base of Lonsdale in North Vancouver in 1905. Advancements in ship construction and a need to serve British Columbia's growing maritime interests led to the investment in a drydock and the company became Burrard Dry Dock Co Ltd.

Having primarily acted as a repair yard, during World War II the company would participate in the construction of dozens of supply ships followed by a period of growth after the war.

VANCOUVER DRYDOCK

Following years of expansion and investment – and changes in ownership – the modern Vancouver Drydock Co Ltd took shape.

The company undertook a massive investment with the Panamax class drydock in the 1980s. Eventually added to this was the Careen drydock. These drydocks form the basis of Seaspan's current business and are necessary for supporting the employment of roughly 200 highly skilled shipyard workers.



Photo courtesy of North Vancouver Museum and Archives



SHIPBUILDING & SHIP REPAIR AT VANCOUVER DRYDOCK

At Vancouver Drydock Seaspan leads the shipbuilding and ship repair industries through a commitment to our employees, the community, the environment and the long-term sustainability of our facility.



- 1. Shop
- 2. Office
- 3. Careen
- 4. Panamax

WHAT HAPPENS AT THE DRYDOCK?

Vancouver Drydock occupies a strategic location on the West Coast on the north shore of the sheltered deep water port of Vancouver. The yard provides a full range of quality repair and conversion services.

Vancouver Drydock is a key service provider to the marine industry servicing a wide range of domestic and international customers including BC Ferries, barge operators, commercial fish boats and deep sea vessels.



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SHIPBUILDING IS AN IMPORTANT LOCAL EMPLOYEMENT OPPORTUNITY

Seaspan's long-term commitment to the sustainability of the shipbuilding and ship repair industries is exemplified through our ongoing investment in education and diversification within our industry.

In all, Vancouver Drydock provides highly-paid jobs to 200 skilled employees.

EDUCATION:

With local partners including BCIT and UBC we invest in programs for future shipbuilders with a focus on increasing participation from women and First Nations peoples.

A typical project could include exceptional expertise from numerous technical trades:

- Mechanics & pipefitters performing rudder repairs, propeller replacement, engine repairs, gear box and piping,
- Electricians servicing existing onboard equipment, installing new equipment (navigation, sonar) and electrical repairs,
- Welders & shipfitters completing complex hull repairs and
- Painters performing surface preparation activities and vessel surface painting.

DIVERSIFICATION:

Seaspan is working to jointly develop and deliver quality training and employment opportunities in the shipbuilding industry for First Nations peoples living in Vancouver and on Vancouver Island. To date, we have established partnerships with:

- The Aboriginal Community Career Employment Services Society (ACCESS);
- Coast Salish Employment and Training Society (CSETS); and
- First Nations Employment Society (FNES).





WHY DOES SEASPAN REQUIRE AN AIR QUALITY PERMIT?

No changes are proposed to the operations at Vancouver Drydock. Seaspan was asked by Metro Vancouver to apply for an Air Quality Permit with the objective of having all industrial emission sources (including shipyards) in the Lower Mainland under a permit.

An Air Quality Permit application for the facility had not been required in the past and this application is not the result of any change in operations. The permit will require annual reporting and fees paid to Metro Vancouver.

Vancouver Drydock works diligently to protect the environment and ensure the health and safety of our workers and surrounding community. This includes following industry best practices to manage potential emissions and ensuring compliance with all applicable regulations.

Seaspan has a good relationship with our regulators, stakeholders, and neighbours. Having a permit in place will help provide additional assurance to Metro Vancouver and the neighbouring public through regular reporting that Seaspan is complying with required protection controls and procedures.



FREQUENTLY ASKED QUESTIONS

Q WHAT ARE THE EMISSIONS BEING APPLIED FOR AND HOW WERE THEY CALCULATED?

The emissions being applied for include Volatile Organic Compounds (VOC's), particulates and metals. The estimated annual loading for the VOC's was calculated based upon projected mass of VOC components in the paint used in 2017. The estimated annual loading for particulates and metals were calculated based upon projected hours of painting and abrasive blasting to occur assuming a 24 hr working day, multiplied by an emission factors developed by the US EPA for the specific technologies and controls applied. These estimated annual loadings were then increased by 25% to provide allowance for a potential increase in production at VDC in future years.

ESTIMATED EMISSION LOADING ESTIMATES

Volatile Organic Compound

77 tonnes/year

Particulates

22 tonnes/year

Metals Class I/II/III

3 tonnes/year

Q WHY DID THE FACILITY APPLY FOR A PERMIT LENGTH OF 20 YEARS?

Vancouver Drydock has been in operation at this location for half a century, and plans to remain at this location for the foreseeable future. A permit length of 20 years was applied for in the application provide certainty to support long term facility planning, operational and infrastructure investments.

Q IS VANCOUVER COASTAL HEALTH PART OF THIS PROCESS?

As part of Metro Vancouver's public and stakeholder consultation process, the Public Notice was submitted to Vancouver Coastal Health (VCH) for comment. VCH recommended completing air dispersion modeling to determine the public health impact. Seaspan is currently consulting with VCH in the development of an enhanced emission-monitoring program for Vancouver Drydock.