



SEASPAN VANCOUVER DRYDOCK WATER LOT PROJECT

Supplementary Public Engagement
Summary Report
Appendix C: 2022 Engagement Notifications &
Community Survey
February 22, 2023

APPENDIX C: 2022 ENGAGEMENT NOTIFICATIONS AND COMMUNITY SURVEY

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North Shore News – Print Advertisements (1/ 3 of a page)

July 27, 2022 and August 3, 2022

September 7, 2022



**SEASPAN VANCOUVER
DRYDOCK PROPOSED
WATER LOT PROJECT
NOTICE OF
SUPPLEMENTARY PUBLIC
ENGAGEMENT AND
REQUEST FOR
COMMUNITY FEEDBACK**

July 27 to September 14, 2022

Vancouver Drydock invites the public to provide feedback on its Vancouver Fraser Port Authority application proposed project mitigations.

Vancouver Drydock has applied to the port authority to extend its water lot west by approximately 40m and to install two new floating drydocks and a floating work pontoon. During the summer 2021 public engagement activities, the community identified several topics of interest. Vancouver Drydock has incorporated this feedback into the proposed project and is **asking for community input on the proposed project mitigations.**

Please complete the online survey at drydockprojects.com or scan the QR code:



Learn More:
drydockprojects.com or
portvancouver.com/drydockexpansion

Deadline for feedback - Sept 14, 2022

Contact Us:
infodrydock@seaspan.com
778-729-0288



REMINDER

**SEASPAN VANCOUVER
DRYDOCK PROPOSED
WATER LOT PROJECT
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Deadline for feedback - Sept 14

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North Shore News – Digital Advertisements

July 27, 2022 to August 5, 2022

**SEASPAN VANCOUVER DRYDOCK PROPOSED
WATER LOT PROJECT NOTICE OF
SUPPLEMENTARY PUBLIC ENGAGEMENT
& REQUEST FOR COMMUNITY FEEDBACK**

We invite you to learn more and share your feedback on our proposed mitigations.

July 27 to September 14, 2022

drydockprojects.com
portvancouver.com/drydockexpansion



September 2, 2022 to September 13, 2022

REMINDER

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PROPOSED WATER LOT PROJECT NOTICE OF
SUPPLEMENTARY PUBLIC ENGAGEMENT
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portvancouver.com/drydockexpansion



Facebook Advertisement (geotagged to North Vancouver)

July 27, 2022 to August 5, 2022



**SHARE YOUR FEEDBACK
ON VANCOUVER
DRYDOCK'S PROPOSED
WATER LOT PROJECT
MITIGATIONS**


September 6, 2022 to September 13, 2022



**SHARE YOUR FEEDBACK
ON VANCOUVER
DRYDOCK'S PROPOSED
WATER LOT PROJECT
MITIGATIONS**


Social Media Posts

Facebook – July 27, 2022


 **Seaspan Shipyards**
Published by Hootsuite · July 27 · 🌐


Have Your Say: Share your Feedback.

Seaspan wants to hear from you about the proposed water lot project mitigations at [#VancouverDrydock](#). Learn more about the project and complete the community survey at www.drydockprojects.com.



Instagram – July 27, 2022




 seaspanulc


seaspanulc Have Your Say: Share your Feedback.

Seaspan wants to hear from you about the proposed water lot project mitigations at [#VancouverDrydock](#). Learn more about the project and complete the community survey at the link in our bio.

6w

 antonioandco_barrett.meoc Hey 👋 we just sent you a message. Please check your DM! Thanks 🙏

4w Reply

 halindy2 I say that I'd love to be a part of this amazing establishment and the future growth of the Vancouver shipyards dry dock!

5w Reply

[View insights](#)

👍 🔍 🗒

👤 Liked by [dagss](#) and **88 others**

LinkedIn – July 27, 2022

 Seaspan ULC
35,201 followers
1mo · 

Have Your Say: Share your Feedback.

Seaspan wants to hear from you about the proposed water lot project mitigations at [#VancouverDrydock](#). Learn more about the project and complete the community survey at www.drydockprojects.com.



Twitter – July 27, 2022

 Seaspan @MoreThanShips · Jul 27
Have Your Say: Share your Feedback. ...

Seaspan wants to hear from you about the proposed water lot project mitigations at [#VancouverDrydock](#). Learn more about the project and complete the community survey at drydockprojects.com.



Facebook – September 7, 2022



Seaspan Shipyards

Published by Adam D'Agostino · Yesterday at 10:46 AM · 🌐

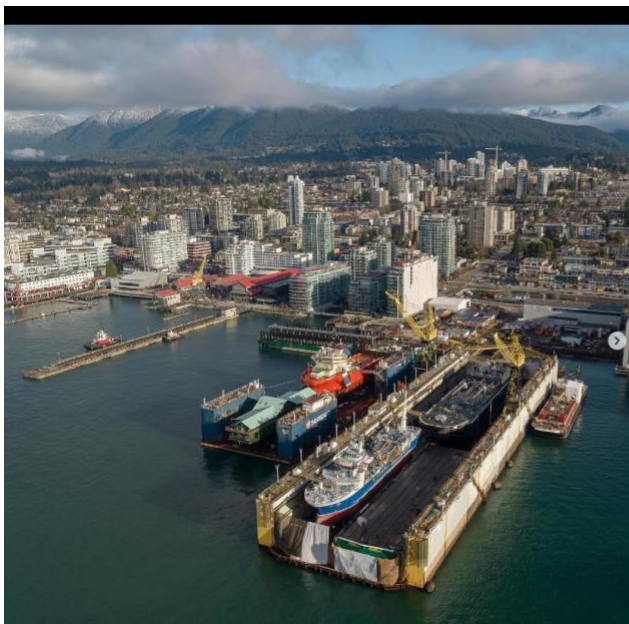
Have Your Say: Deadline - Sept 14, 2022.

Seaspan wants to hear how you feel about the proposed water lot project mitigations at Vancouver Drydock. Learn more and complete the community survey today 📌

www.drydockprojects.com



Instagram – September 7, 2022



seaspanulc
Seaspan Vancouver Drydock

seaspanulc Have Your Say: Deadline - Sept 14, 2022.
Seaspan wants to hear how you feel about the proposed water lot project mitigations at Vancouver Drydock. Learn more and complete the community survey today at the link 📌 in our bio
23h

hourmedia 🙏🙏🙏
9h Reply

james_ward369 Any strike updates?
20h Reply

barca_music2022 🙏🙏🙏
23h Reply

View insights

📌
Liked by **dags** and 117 others
23 HOURS AGO

LinkedIn – September 7, 2022

 **Seaspan ULC**
35,201 followers
1d • 🌐

Have Your Say: Deadline - Sept 14, 2022.

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Twitter – September 7, 2022

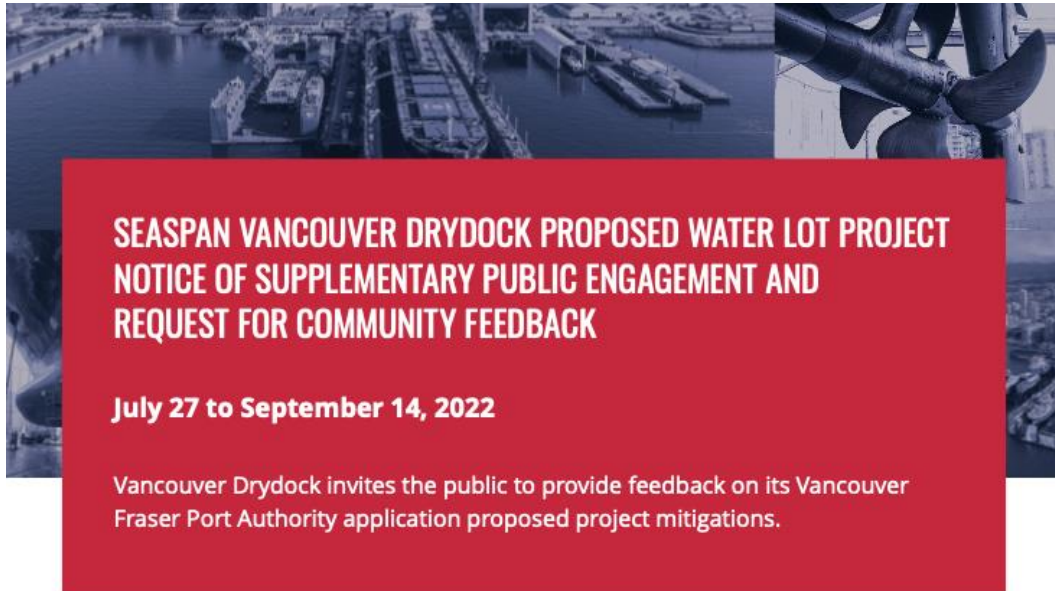
 **Seaspan @MoreThanShips** · Sep 7
Have Your Say: Deadline - Sept 14, 2022. ...

Seaspan wants to hear how you feel about the proposed water lot project mitigations at Vancouver Drydock. Learn more and complete the community survey today 🗳️
drydockprojects.com



Notification Postcards

July 26, 2022 provided to Canada Post



Dear Neighbour

Vancouver Drydock has applied to the port authority to extend its water lot west by approximately 40m to accommodate the installation of two smaller floating drydocks and a floating work pontoon. During the summer 2021 public engagement activities, the community identified several topics of interest. Vancouver Drydock has incorporated this feedback into the proposed project and is **asking for community input on the proposed project mitigations.**

Please share your feedback:

Complete the online survey at drydockprojects.com or scan the QR code:



Learn more:

drydockprojects.com or
portvancouver.com/drydockexpansion

Contact us:

infodrydock@seaspan.com | 778-729-0288

Deadline for feedback - Sept 14, 2022

318 LONSDALE AVE
NORTH VANCOUVER BC V7M 2G2

August 31, 2022 provided to Canada Post



REMINDER

**SEASPAN VANCOUVER DRYDOCK PROPOSED WATER LOT PROJECT
SUPPLEMENTARY PUBLIC ENGAGEMENT AND REQUEST FOR
COMMUNITY FEEDBACK**

Deadline for feedback – September 14, 2022

Vancouver Drydock invites the public to provide feedback on its Vancouver Fraser Port Authority application proposed project mitigations.



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DEADLINE FOR FEEDBACK - Sept 14, 2022

318 LONSDALE AVE
NORTH VANCOUVER BC V7M 2G2

Project Website

www.drydockprojects.com



Shipyards have been a part of our neighbourhood for over a century – building, repairing and maintaining the many vessels that ply our West Coast waters.

At Seaspan's Vancouver Drydock, we take great pride in being a link from North Vancouver's rich maritime history to the diverse and vibrant Shipyards District waterfront community we have today – and we look forward to continuing that tradition for many years to come. As a company, our goal is to build a multi-generational business that will create sustained jobs and economic activity in our local community for decades to come. To enable this, we are consolidating our repair and maintenance services at Vancouver Drydock and focusing our shipbuilding activities at our Pemberton site.

At Vancouver Drydock, this means making improvements to better use our land and the space within our water lots. We have applied to the Vancouver Fraser Port Authority to extend our water lot and add two new smaller floating drydocks and a work pontoon to our existing drydock operations.

In 2021, as part of the port authority's Project & Environmental Review (PER) process, Seaspan undertook a number of activities to both notify the community about the proposed project and to solicit feedback. These activities are summarized in the [Water Lot Engagement Summary Report](#), available under [Learn More](#) or on the [port authority's website](#).

[Share your feedback on the proposed project mitigations](#)

Based on the input received in the summer of 2021, Seaspan has identified a number of proposed mitigations to address community feedback. Seaspan is now undertaking supplemental public engagement to seek further input from the community on these proposed project mitigations.

We invite you to share your feedback on the proposed water lot project mitigations. Deadline for feedback is September 14, 2022

Additional information on community topics of interest is available under [Learn More](#).

July 27, 2022 to September 14, 2022

[Share your feedback on the proposed project m](#)

Hearing From You

Share Your Feedback

July 27, 2022 to September 14, 2022

Seaspan is asking for community input on the proposed project mitigations. These mitigations have been developed based on the feedback that was previously provided by the community.

The additional feedback will inform the final project mitigations that will be submitted to the port authority for consideration as part of the permit review process.

[Complete the Community Survey](#)

Deadline for feedback is September 14, 2022.

Additional information on community topics of interest is available under [Learn More](#).



LATEST NEWS

Where are we in the permit review process and what's happening right now?

We want to hear - more - from you

Jul 27, 2022 - We are asking for your input on our proposed project mitigations and are asking you to please complete our Community Survey. **Deadline for feedback is September 14, 2022.** To find out more, we invite you to review the Project Fact Sheets below.



We want to hear - more - from you

We are asking for your input on our proposed project mitigations. **Please complete the community survey.**

Deadline for feedback is September 14, 2022.

To find out more, we invite you to review the Project Fact Sheets below.

PROJECT FACT SHEETS AND INFORMATION GUIDE

- 2021 Public Engagement Fact Sheet
- Drydock Siting Fact Sheet
- Noise Fact Sheet
- Air Quality Fact Sheet
- Lighting Fact Sheet
- Land Use Fact Sheet
- Marine Habitat Fact Sheet
- Spill Prevention & Emergency Response Fact Sheet
- Project Construction Fact Sheet

PROJECT INFORMATION GUIDE

[Download PDF here](#)

PERMIT APPLICATION TIMELINE



Community Survey on Proposed Mitigations



INTRODUCTION

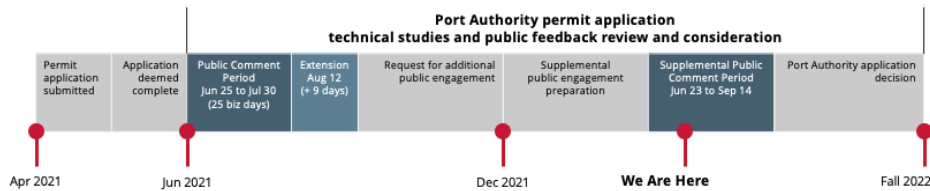
Welcome to the Seaspan Vancouver Drydock community survey!

In the summer of 2021, Seaspan gathered feedback from the community on its **proposed water lot project at Vancouver Drydock**. These activities are summarized in the **Water Lot Engagement Summary Report**, available under **Learn More** on the project website and on the **port authority's website**.

In response to feedback provided by the community, Seaspan is proposing a number of adjustments and changes (mitigations) to the proposed project and to the existing operations.

Seaspan is now undertaking the additional, supplemental public engagement on the proposed project mitigations. The goal of this survey is to get your opinions about Seaspan's proposed mitigations.

Here is where we are now in the PER process:



How Your Feedback Will Be Used

Seaspan will use feedback from this survey to inform its Consideration Report, which describes what feedback was heard and how Seaspan is responding to the feedback. This report will be provided to the port authority as part of its Project & Environmental Review (PER) **permit application review process** [<https://www.portvancouver.com/permitting-and-reviews/per/>]

Heads Up! Before You Begin the Survey

This survey covers several aspects of drydock operations that may not be familiar to you, and a certain level of technical detail is necessary to describe the proposed mitigations fully. We have included photos and links to resources throughout the survey to help give you enough information to provide informed feedback.

- Because of the amount of information and images in the survey, we recommend you complete it on a desktop computer or tablet rather than a mobile phone.
- The survey is longer than most that you may have completed before. You can choose to complete all of the survey, or only those sections that are most of interest to you.
- It will take anywhere from 15 to 35 minutes, depending number of resources you review and the depth of feedback you choose to provide.

604.725.5892 ♦ strategy@majidkhoury.com
5272 Somerville Street ♦ Vancouver, BC ♦ Canada ♦ V5W 3H4





Please know all your responses will remain confidential and your identity anonymous. The survey will be open from July 27 to September 14, 2022. Seaspan has contracted with an independent, third-party market research company to carry out this survey.

If you have questions or concerns about the survey, please contact Seaspan at infodrydock@seaspan.com. For any technical questions, please contact <strategy@majidkhoury.com>

Now, let's get started! Click "Start" below to begin.





Section A: Initiate

(To be shown to all respondents)

A1. [OPEN END POSTAL CODE FORMAT] To begin this study, help us understand where you live. What are the first three digits of your postal code?

- Please use the format "A1A"
- (In analysis, document those outside of the North Vancouver (City and District) postal codes)

North Vancouver postal codes

V7G / V7H / V7J / V7K / V7L / V7M / V7N / V7P / V7R

A2. Which of the following best describes how familiar you are with the drydock operations, repair and maintenance activities happening at Seaspan's Vancouver Drydocks?

- I can explain most of the activities
- I have a general understanding but can't explain most of it to others
- I know where it is, but don't know much about it
- I know very little about it

A3. In our first phase of public engagement, feedback and comments fell into key themes. In some cases, the proposed mitigations are lengthy and there is a lot of information to consider, but we are seeking your opinion and input as best you can.

You may choose the themes you want to provide feedback on, and may also provide general comments.

To begin, which key themes of the proposed project would you like to provide your feedback on?

[Note: themes listed alphabetically]

Please select all that apply

- Air Quality
- Construction Activities
- Drydock siting
- Lighting
- Marine Habitat
- Noise
- All of the above
- None of the above





Section B: Air Quality

(To be shown to those that selected this section at A)

Some Background

Metro Vancouver regulates air emissions in the Lower Mainland and is responsible for policies, bylaws and permits. These bylaws are supported by a comprehensive network of air quality monitoring stations throughout the airshed. Under Metro Vancouver's Air Quality Management Bylaw No. 1082, a **permitting system** is used to manage air emissions from industrial and commercial emitters.

In 2017, Vancouver Drydock applied to Metro Vancouver for an air emissions permit. As this is the first permit for an operation of this kind, Metro Vancouver is still working to scope the permit parameters and establish baseline metrics. Vancouver Drydock continues to actively work with Metro Vancouver to support this important work. Once in place, Vancouver Drydock will be the first dedicated ship repair facility included in Metro Vancouver's permit registry.

While the permit scope is still being reviewed, it is anticipated, the permit will define the type and quantities of emissions that can be released. The permit will regulate volatile organic compounds (VOCs), metals and particulate from on-site emission sources. Emission sources include the two existing floating drydocks, a surface preparation shed and a paint shed.

Should the proposed water lot project be approved, the air permit will be amended to also include the activities on the new proposed drydocks and work pontoon.

Please click here to learn more about air quality activities underway (this link will open a document in a new tab)

[<https://drydockprojects.com/wp-content/uploads/2022/06/Air-Quality-Fact-Sheet.pdf>]





Proposed Mitigations

Seaspan received the feedback on air quality and is proposing to take a number of additional steps, described below.

To what extent do these initiatives meet your needs:

1. Very well
2. Somewhat well
3. Neutral
4. Not very well
5. Not at all
6. Don't know

To what extent do these initiatives meet your needs?	1	2	3	4	5	6
Seaspan will actively monitor particulate emissions in compliance with an anticipated Metro Vancouver air quality permit. Monitoring and reporting will commence once Metro Vancouver confirms the equipment specifications for compliance. A quarterly report will summarize results from the previous period compared against the permit criteria and will be available on the Vancouver Drydock website and through Metro Vancouver.						
Seaspan will conduct dust sampling in the adjacent neighbourhood twice a year. Seaspan will work with the community to identify the preferred months and monitoring location.						
Seaspan will invest in a solvent recycling system to reduce VOC emissions against current baseline conditions. (This equipment is currently on order.)						
Seaspan will work with industry experts to assess new tools and technology in paint volatile organic compound (VOC) content and non-solvent based alternatives in the marine coating industry.						

B0. In general, how effectively will these initiatives address concerns around **Air Quality**?

- Very effective
- Moderately effective
- Somewhat effective
- Not very effective
- Not sure





Section C: Construction Activities

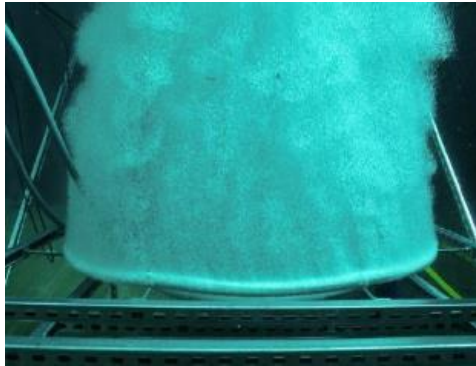
(To be shown to those that selected this section at A)

Some Background

Seaspan has planned the project to minimize the scope and duration of construction. Should the project proceed, six piles would need to be installed in the water over six weeks to secure the drydocks and work pontoon in place.

Seaspan's Construction Environmental Management Plan (CEMP), outlines the protocols that will be followed during construction to adhere to all regulations and to minimize impacts on the marine environment and surrounding community. These include such things as:

- Completing construction activities during Fisheries and Oceans Canada (DFO) '[least risk' window](#), the time of year when work may be carried out with the lowest risk to fish, wildlife and marine habitat.
- Having an Environmental Monitor on site to oversee construction activities.
- Using readily biodegradable hydraulic fluids in construction equipment.
- Using a sound dampening device (bubble curtain) to reduce underwater sound.



Bubble curtain example

Please click here to learn more about the proposed project construction

[<https://drydockprojects.com/wp-content/uploads/2022/06/Project-Construction-Fact-Sheet.pdf>]

Please click here to learn more about the Construction and Environmental Management Plan (CEMP)

[<https://drydockprojects.com/wp-content/uploads/2021/06/6-Construction-Environmental-Management-Plan.pdf>]





Proposed Mitigations

Seaspan received the feedback on the proposed construction activities and is proposing to take a number of steps, described below.

To what extent do these initiatives meet your needs:

1. Very well
2. Somewhat well
3. Neutral
4. Not very well
5. Not at all
6. Don't know

To what extent do these initiatives meet your needs?	1	2	3	4	5	6
Seaspan will have environmental consultants on site to oversee construction activities, measure noise, and observe wildlife use of the area to ensure that they are not negatively affected.						
Seaspan will ensure the engines on all construction equipment are running efficiently, will use soft start procedures, and will time construction operations within daylight hours.						
Seaspan will follow all safe practices guidelines as prescribed by the Department of Fisheries and Ocean (DFO) to limit impact to marine wildlife while performing the construction work.						
Seaspan will reduce pile driving noise during construction by pile driving only during daylight hours.						

C0. In general, how effectively will these initiatives address concerns around **Construction**?

- Very effective
- Moderately effective
- Somewhat effective
- Not very effective
- Not sure





Section D: Drydock Siting

(To be shown to those that selected this section at A)

Some Background

We have applied to the port authority to extend our water lot and add two new smaller floating drydocks and a work pontoon to our existing drydock operations.

Existing Operations and Siting



Proposed Operations and Siting



Please click [here](https://drydockprojects.com/wp-content/uploads/2022/06/Drydock-Siting-Fact-Sheet.pdf) to learn more about the siting criteria for the proposed project

[<https://drydockprojects.com/wp-content/uploads/2022/06/Drydock-Siting-Fact-Sheet.pdf>] fact sheet.





Proposed Mitigations

Seaspan received the feedback on the siting of the **new proposed drydock** and **work pontoon** and is proposing to take a number of additional steps, described below.

To what extent do these initiatives meet your needs:

1. Very well
2. Somewhat well
3. Neutral
4. Not very well
5. Not at all
6. Don't know

To what extent do these initiatives meet your needs?	1	2	3	4	5	6
Seaspan will engage with the City of North Vancouver and the local community, including Indigenous communities, to select the preferred exterior colour to best integrate the proposed new drydocks into the neighbourhood.						

D0. In general, how effectively will these initiatives address concerns around **Views and Siting**?

- Very effective
- Moderately effective
- Somewhat effective
- Not very effective
- Not sure



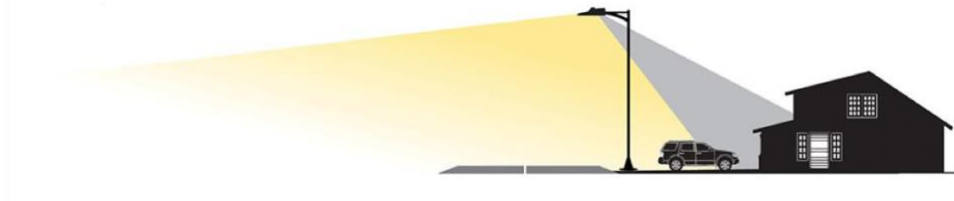


Section E: Lighting

(To be shown to those that selected this section at A)

Some Background

The proposed project lighting has been designed to be 'dark-sky friendly certified', which means the lighting meets all safety requirements and minimizes glare in the marine environment and towards the shoreline. To be 'dark-sky friendly', lights are only on when needed, only illuminate needed areas, are no brighter than necessary, minimize blue light emissions, and are shielded (like the image below).



Please click here to learn more dark-sky friendly lighting

[<https://www.darksky.org/our-work/lighting/lighting-for-citizens/lighting-basics/>]

Please click here to learn more about the proposed project lighting design including house-side shields

[<https://drydockprojects.com/wp-content/uploads/2022/06/Lighting-Fact-Sheet.pdf>] fact sheet.





Proposed Mitigations

Seaspan received the feedback on lighting and is proposing to take a number of additional steps, described below.

To what extent do these initiatives meet your needs:

1. Very well
2. Somewhat well
3. Neutral
4. Not very well
5. Not at all
6. Don't know

To what extent do these initiatives meet your needs?	1	2	3	4	5	6
Seaspan will use dark-sky-friendly lighting to illuminate the work pontoon. Dark-sky-friendly lighting is specifically designed to meet safety requirements and eliminate light outside of the required circulation and work areas.						
Seaspan will use house-side shields on the work pontoon for fixtures facing residential areas, to reduce the light spread. With this shield added the lighting level is reduced to zero at 11m/35ft from the work pontoon (versus 28m/92ft without a shield).						
Seaspan will reduce the height of the light poles on the work pontoon to 7.5m (25ft) (from original proposal of 10.7m (35ft)) to minimize the visual impact.						
Seaspan will reduce the colour temperature of the light fixtures to 3000degK (warm white) (from original proposal of 4000degK (cool white)) to minimize blue light emissions.						
Seaspan will retrofit the existing operations lighting across the site to also be dark-sky-friendly. While outside the of the scope of this project application, Seaspan has initiated design work for the replacement of existing light poles and building mounted lights with dark sky friendly lighting incorporating 'House-Side Shields' where appropriate.						

E0. In general, how effectively will these initiatives address concerns around **Lighting**?

- Very effective
- Moderately effective
- Somewhat effective
- Not very effective
- Not sure





Section F: Marine Habitat, Spill Prevention & Emergency Response

(To be shown to those that selected this section at A)

Some Background

Seaspan operates under an internationally certified environmental management system (ISO 14001:2015). Under this system, Seaspan is committed to pollution prevention, verification of the effectiveness of controls to protect the environment, and continuous improvement.

Marine Habitat Protection

Marine wildlife and habitat protection is strictly controlled by Fisheries and Oceans Canada (DFO) and the operating protocols used at Vancouver Drydock comply with all applicable regulations. This includes how water is collected and treated in operations.

Marine Habitat Assessment

Before Seaspan applied to the port authority for a permit for the proposed project, it contracted an environmental consulting firm to assess the potential impacts on the marine environment in the water lot area. This habitat assessment concluded that the seabed in this area does not support marine vegetation (e.g., seaweed or eelgrass).

Spill Prevention

Every effort is made to prevent a spill in the marine environment, and as part of its environmental management system, Seaspan has a robust Spill Contingency Plan that aligns with the BC *Environmental Management Act*.

Emergency Response

Seaspan has a robust Fire and Emergency Response Plan that aligns with the BC Emergency Response Management System to ensure a coordinated, organized response to any emergency in the province.

Recognizing the unique challenges faced by first responders to shipboard and drydock incidents, Seaspan has been working with all three North Shore fire departments to develop comprehensive training to improve land-based marine firefighting and emergency response.

Please click here to learn more about the *BC Environmental Management Act*.

[\[www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/03053_00\]](http://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/03053_00)

Please click here to learn more about marine habitat protection

[\[https://drydockprojects.com/wp-content/uploads/2022/06/Marine-Habitat-Fact-Sheet.pdf\]](https://drydockprojects.com/wp-content/uploads/2022/06/Marine-Habitat-Fact-Sheet.pdf)

Please click here to learn more about spill prevention and emergency response

[\[https://drydockprojects.com/wp-content/uploads/2022/06/Spill-Prevention-Emergency-Response-Fact-Sheet.pdf\]](https://drydockprojects.com/wp-content/uploads/2022/06/Spill-Prevention-Emergency-Response-Fact-Sheet.pdf) fact sheet]





Proposed Mitigations

Seaspan received some feedback about marine habitat, spill prevention and emergency response and is proposing to take a number of steps, described below.

To what extent do these initiatives meet your needs:

1. Very well
2. Somewhat well
3. Neutral
4. Not very well
5. Not at all
6. Don't know

To what extent do these initiatives meet your needs?	1	2	3	4	5	6
Seaspan will promote safe navigation and further reinforce safe on-water operations by providing vessel owner representative(s) with a link to port authority's Information Guide.						
Seaspan will update its Fire and Emergency Response Plan to include all components of the proposed project.						
Seaspan will continue to work with all three North Shore fire departments to develop comprehensive training to improve land-based marine firefighting and emergency response.						

F0. In general, how effectively will these initiatives address concerns around **Marine Habitat, Spill Prevention and Emergency Response?**

- Very effective
- Moderately effective
- Somewhat effective
- Not very effective
- Not sure





Section G: Noise

(To be shown to those that selected this section at A)

Some Background

Drydock operations are industrial in nature and include activities that generate noise. One example is using ultra-high pressure (UHP) water to remove debris and paint from ship hulls as part of the surface preparation process prior to inspection and repair. Vancouver Drydock upgraded to UHP washing in 2020, as it eliminates the potential for dust generated by older techniques like grit blasting.

Other sources of noise at Vancouver Drydock's site include vessels and tugs arriving and departing, gantry crane movements and other site activities which include safety alarms and alerts.

Port authority tenants, including Vancouver Drydock, can operate year-round, 24 hours a day. However, Vancouver Drydock's normal operations run across two shifts only, from 7:00am to 11:00pm. Occasionally work activities take place overnight, such as for urgent repair projects and vessel arrivals and departures which, for safety, must be timed to align with the tides and currents.

Vancouver Drydock makes best efforts to schedule activities with the highest potential noise impact during the daytime (from 7:00am to 7:00pm).

Please click here to learn more sources of noise and noise monitoring

[<https://drydockprojects.com/wp-content/uploads/2022/06/Noise-Fact-Sheet.pdf>] fact sheet and

Please click here to review the Environmental Noise Assessment report prepared for the proposed project application

[<https://drydockprojects.com/wp-content/uploads/2021/06/9-Environmental-Noise-Assessment.pdf>].





Proposed Mitigations

Seaspan received the feedback on noise and is proposing to take a number of additional steps, described below.

To what extent do these initiatives meet your needs:

1. Very well
2. Somewhat well
3. Neutral
4. Not very well
5. Not at all
6. Don't know

To what extent do these initiatives meet your needs:	1	2	3	4	5	6
Seaspan will increase awareness of and access to the port authority's real-time noise monitoring station, which is located at the boundary of the Vancouver Drydock site by creating a direct link on the Seaspan website.						
Seaspan will complete a post-project noise assessment to verify the permit application model predictions and to identify additional noise-reduction measures. For this assessment, Seaspan will collaborate with the community to identify where the measuring devices will be placed in the community and will post the results on Seaspan's project website.						
Seaspan will work to notify the community in advance when potential high noise-generating work is anticipated outside of the regular working hours of 7:00am to 11:00pm.						
Seaspan will use sound-reducing barriers around the ultra-high pressure (UHP) pumps, where practical. The use of the barriers follows a spring 2022 trial of noise-reducing materials. The results of the trial are available on the project website and will also be documented within the post-project noise assessment.						
Seaspan will trial the use of noise-reducing curtains on the drydocks. Acoustical consultants will establish baseline measurements at Vancouver Drydock and, in the community, to determine the effectiveness of the curtains. Seaspan will collaborate with the community to identify where the measuring devices will be placed in the community.						

G0. In general, how effectively will these initiatives address concerns around **Noise**?

- Very effective
- Moderately effective
- Somewhat effective
- Not very effective
- Not sure





Section H: Community and Communications

(To be shown to all respondents)

Through the Project & Environmental Review (PER) process, Seaspan heard feedback about community outreach and communications and is proposing to take a number of additional steps, described below.

To what extent do these initiatives meet your needs:

1. Very well
2. Somewhat well
3. Neutral
4. Not very well
5. Not at all
6. Don't know

To what extent do these initiatives meet your needs:	1	2	3	4	5	6
Seaspan will maintain a dedicated phone line and email for community inquiries and feedback (infodrydock@seaspan.com and 778-729-0288) to provide a means for ongoing communication with Vancouver Drydock.						
Seaspan will compile and publicly share a quarterly report on community complaints and Seaspan's responses on the Vancouver Drydock website.						
Seaspan will establish a community liaison group for ongoing dialogue. The terms of reference will be developed with a qualified IAP2 facilitator with the intent to begin in 2022.						
Seaspan will continue to work with community organizations and the City of North Vancouver on future community-based initiatives, including a community amenity contribution to enhance the local community.						
Seaspan has initiated and will continue a community tour program for school or community groups.						

As part of our continued commitment to communicate about initiatives happening at Seaspan's Vancouver Drydock, we would like to ensure we are sharing information most relevant to you. What additional information would you like to know about Seaspan's operations?





Please select all that apply
 [Programming note: Randomize these]

- Seaspan’s activities: The work that Seaspan does at all of our sites in North Vancouver
- Drydock and shipyard operations: Understanding the activities and equipment on site and what our teams are doing each day at our shipyards
- Marine operations: Understanding the activities and equipment used by our tugs and barges
- Environment: Initiatives underway to enhance environmental stewardship
- Safety: Place to understand plans and measures, as well as emergency response situations
- Ship watch: The vessels that being constructed or repaired, including arrival & departure times or major milestones
- Community: Activities Seaspan is doing to support the North Vancouver community
- Community tours: Timing and sign-up information for community members to visit and tour our sites to learn more about our activities

The following are different communications and/or community engagements Seaspan uses. For each, please tick if you were aware of these activities before today or not and how effective do you feel each of these are to provide you information about Seaspan to those in the community.

	Yes, I was aware	No, I was not aware	Very effective	Somewhat effective	Not very effective	Not at all effective
Advertisements in newspapers and magazines						
Radio advertisements						
Television advertisements						
Online media platforms (website, Facebook, Twitter, YouTube, Instagram, LinkedIn)						
Online advertisements						
Outdoor advertising						
News articles						
In-person meetings/presentations						





As a member of Shipyards District waterfront community, we are considering various amenities to further enhance our neighbourhood. What type of amenity is important to you?

Select all that apply

- Public art (like sculpture, outdoor art installation)
- Social hub (like an annual community event)
- Recreational hub (like playgrounds)
- Environment enhancement (like a shoreline cleanup)
- Other (*Please specify*)

[OPEN END] What could Seaspan do differently to better support community needs?





Section I: Overall plan

(To be shown to all respondents)

I1: This survey has shared the proposed mitigations and modifications to the project that would be incorporated into the proposed water lot project should it be approved by the port authority.

Which of these statements best captures your thoughts about the project with the proposed mitigations and modifications?

For a refresher, see the project website – drydockprojects.com

- "I really like the current plan with the additional mitigations and don't have any significant issues "
- "I like most aspects of the plan but there are a few things I dislike "
- "I have mixed thoughts - there are many things I like and many things I dislike"
- "I dislike most aspects of the current plan with the additional mitigations, but there are a few things I like"
- "I dislike it and have significant issues with the plan – even with the additional mitigations and modifications"
- Don't know

I2. Why is that? What are you excited or concerned about?

I3: [OPEN END] Please provide any additional feedback you may have about the proposed project and be as specific as possible.





Participant Profile Questions

Please share a little bit about yourself. This information will help us to understand your responses compared to others:

Do you **live** in North Vancouver? If yes, how long have you lived here?

- Less than 1 year
- 1 to 5 years
- 6 to 10 years
- 11 to 20 years
- More than 20 years
- Prefer not to say
- Do not live in North Vancouver

Do you **work** in North Vancouver? If yes, ...

- City of North Vancouver
- District of North Vancouver
- Prefer not to say
- Do not work in North Vancouver

Sign Up for Updates

If you would like to receive future updates from us, please share your contact information here.

NAME []

EMAIL ADDRESS [] [Programming note: Include validation check that it is an email address format]

Closer

We thank you for your time to provide us this feedback! If you want to learn more about our proposed project, feel free to visit us at drydockprojects.com.

