

Noise Monitoring Program

The Vancouver Fraser Port Authority maintains a long-term noise monitoring network to better understand and track the source and intensity of port and urban noise. Port operations are industrial by nature, occur on a 24/7 basis, and can impact local communities. The port authority is working with port tenants and users to minimize noise and other nuisances. We are also actively monitoring, observing, and reporting on noise to raise awareness of the importance of managing impacts and to inform policy and planning decisions.

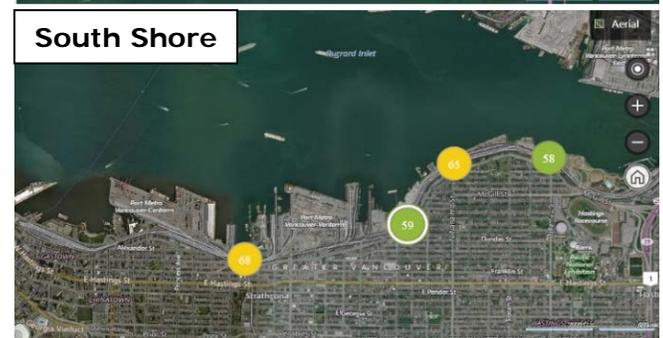
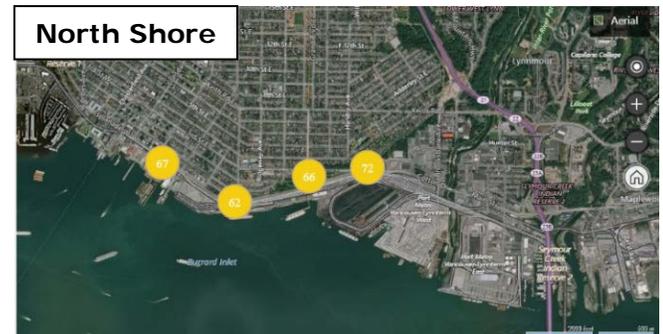
Noise monitor locations

In late 2014, the port authority deployed a network of noise monitoring terminals on the north and south shores of the Burrard Inlet, and in 2015 we expanded the network at Roberts Bank. In total, 11 long-term noise monitors operate throughout the port authority's jurisdiction. Locations for the noise monitors were chosen in collaboration with noise experts, municipal partners, and based on feedback from the community.

Noise monitor terminals



The noise monitoring terminals are supplied and serviced by Brüel and Kjær and specifically designed for permanent continuous monitoring. Monitoring terminals include a microphone to measure and record sound levels, a connection to municipal power, a fully weatherproof instrumentation enclosure, and secure wireless data transmission. As weather influences how sound travels through the atmosphere, some terminals are also equipped with a weather station to capture wind speed, direction, humidity, temperature, and precipitation. Data is streamed in real time and available on the port authority website.

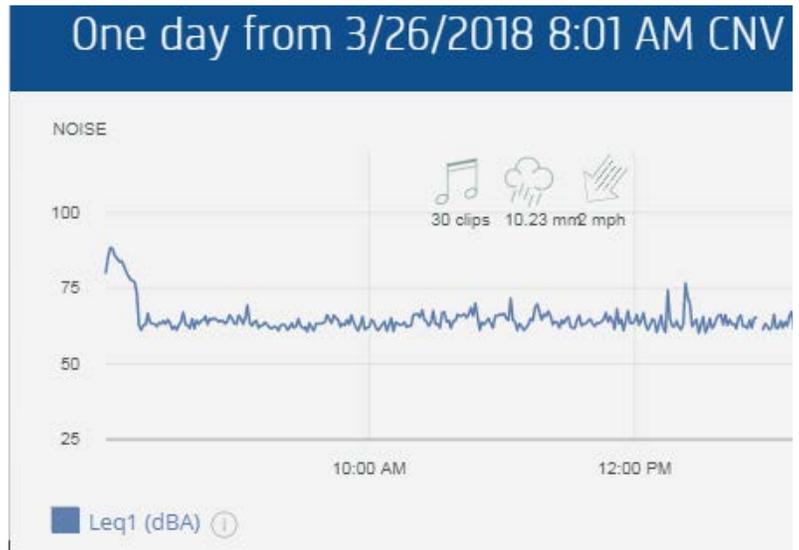


Public noise reporting

The port authority's public reporting of port noise via its website is supported by the Brüel and Kjær Noise Sentinel™ software application. Data from the noise monitoring terminals are streamed in real time using an interactive map. Users can select specific locations and view and hear live sound levels and recent historical data.

Available information includes:

- Description and photos of noise monitoring locations
- Real time measured sound levels
- Historical data for the previous hour, day, week, and month
- Sound clip events, shown as musical notes, which represent sound recordings to assist in identifying the source of a sound
- Weather data indicating wind speed and direction, atmospheric pressure, temperature, and rain fall precipitation



How noise data is used by the port authority

The data from the noise monitoring program is used to inform our land use planning, authorizations of new construction projects, studies to assess opportunities for minimizing noise, and our engagement strategy with port users such as ship owners and rail operators. We also draw on the monitoring data to educate port users and communities about port noise issues and to support improved feedback on noise.

Further Information

Please visit our website to learn more about the noise monitoring program

<https://www.portvancouver.com/port-dashboard/noise-monitoring/>

If you have a concern about noise, please contact our community feedback line at 604.665.9004 or email community.feedback@portvancouver.com