



BKL

ACOUSTICAL EXPERIENCE: INDUSTRIAL NOISE

Our experience includes measurement and evaluation of noise and vibration sources and mitigation for both the workplace and the community:

BC HYDRO SUBSTATION COMMISSIONING MEASUREMENTS —

GREATER VANCOUVER, BC

Property line noise measurements around new and upgraded substations including John Lawson, Mount Pleasant and North Vancouver Substations.

CASCADIA GRAIN TERMINALS — VANCOUVER, BC

Comprehensive noise and vibration survey performed in mill with noise management plan provided and vibration controls recommended to reduce whole body vibration. Noise diagnostics and mitigation provided for fan/blower using FFT to identify problem tone in community and problem unit.

COWICHAN BAY SAWMILL — DUNCAN, BC

Detailed measurements of sawmill noise sources, week-long community noise and weather measurements and development of a detailed Cadna/A noise model to predict levels at other locations and investigate different noise mitigation options. Results presented to regional district, sawmill and community stakeholders. Follow-up monitoring performed to confirm noise reductions and review available noise control options.

LHOIST LIME — LANGLEY, BC

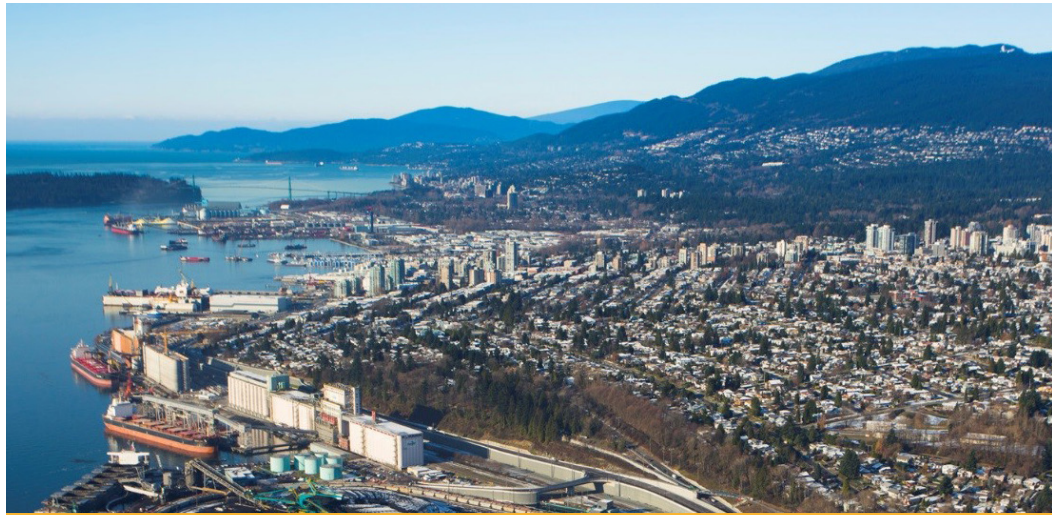
Property line noise measurements to assess compliance with noise bylaw limits and consultation on noise control opportunities to reduce property line levels.

MASONITE PLANT — LANGLEY, BC

Property line noise measurements to assess compliance with noise bylaw limits and recommendations for noise control to comply with bylaw.

NEW AFTON MINE — KAMLOOPS, BC

Continuous 48-hour noise measurements at five locations around the mine plus noise contour mapping and assessment of measurement uncertainties in accordance with ISO standards.



PORT OF VANCOUVER TERMINALS — GREATER VANCOUVER, BC

Environmental noise assessments for a number of industrial tenants of the Port including Neptune Terminals, Pacific Coast Terminals, Columbia Containers, Fibreco, Richardson Grain Terminal, BHP, Deltaport, and others. Assessments were required by the Port in support of proposed expansions and involved baseline community noise measurements, near field measurements of on-site noise sources, acoustic modelling of existing and proposed facilities, mitigation assessments, and preparation of reports.

Detailed measurements were also performed throughout the mill building and noise contours/maps produced for communicating occupational noise exposure.

PACIFIC BIOENERGY — PRINCE GEORGE, BC

Measurements and investigations in and around a wood pellet plant and also in the surrounding community to determine whether or not noise complaints from remote neighbourhoods were attributable to operation of the plant.

PRINCE RUPERT GRAIN TERMINAL OCCUPATIONAL NOISE SURVEY — PRINCE RUPERT, BC

Site survey of existing noise exposure levels throughout the facility including electrical motors, conveyors, cyclone fans, compressors, rail cars, locomotives etc. Recommendations for hearing protection.

TECK COMINCO BAGHOUSE REPLACEMENT — TRAIL, BC

Investigation of potential noise impact on neighbouring residential areas due to removal of Baghouse building. The assessment included noise emission measurements and acoustical 3-D modelling of the area to predict the noise impact of the proposed changes.