

Project Profile

Project Name:	Ambient Noise Study—Extension of research from phase 1
Project Number:	ES-Wells-2021-01
Proponent:	Patching Associates Acoustical Engineering Ltd.
Funding Envelope:	Engineering and Safety—Wells, Facilities and Other
Timeframe:	August 15, 2020, to January 31, 2021

Project objectives

The objective of this project is to extend the learnings from the first phase of research on ambient noise in the Farmington Development Area (FDA) to a larger regional development area in northeast BC—focusing on areas where well site development may occur in the future around residential developments. The methodology from phase 1 will be used to extend the dataset to a larger area—creating clarity and certainty for industry and regulators in noise mitigation planning.

Project description

This project aims to extend the methodology for studying ambient noise from 42 km of roadway in phase 1 to approximately 130km of roadway in this phase. The proposed roadways are:

- Alaska Highway (97 North) Buckinghorse River, BC to Dawson, BC
 - 10km from Dawson RD 221 to 212RD (FDA South)
 - 42km FDA (already completed)
 - 10km from 230 Road (FDA North) to Taylor, BC
- John Hart Highway (97 West) Dawson Creek to Chewynd 100km
 - 68km Dawson Creek to East Pine
- Highway 49 Dawson Creek, BC to Alberta Border 14km
- Highway 2 Dawson Creek, BC to Alberta Border 32km
 - Pouce Coupe to Alberta Border 29km

Project approach

The project will be carried out in two phases:

1. Preliminary Planning and Modeling—gathering roadway data and modeling.
2. Reporting—including noise contour maps for planning purposes.

Project deliverables

The deliverables from this project include the following:

1. Final Report summarizing the findings.
2. Noise contour maps showing validated noise contours and propagation from roadways.