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Canadian Perspectives on Environmental Noise Survey (CPENS) 2026

Methodological Report

Prepared for Health Canada

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Ce rapport est aussi disponible en français.

Canada 

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Supplier Name: Advanis Inc.

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This public opinion research report presents the results of an online survey conducted by Advanis Inc. on behalf of Health Canada. The research was conducted with 5,081 Canadians 18 years of age or older, between February 10th and April 24th, 2026.

Aussi disponible en français sous le titre : Enquête canadienne sur les perceptions du bruit environnemental (ECPBE) 2026: rapport méthodologique

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1. Executive summary

1.1 Background

The 2021 Canadian Perspectives on Environmental Noise Survey (CPENS-1) included 6,647 Indigenous and non-Indigenous adults from all provinces. It is the only known source of noise-relevant surveillance data collected from Indigenous individuals, informing Health Canada's (HC) advice on environmental noise for the Impact Assessment (IA) review process. CPENS-1 findings have informed comments on individual IAs (e.g. Sorel-Tracy), HC guidance on sleep disturbance, noise annoyance, and decibel adjustments for advice provided under the Impact Assessment Act. Indigenous respondents were more likely to report louder outdoor nighttime noise, had lower expectations of quiet, and were less likely to live in areas considered quiet. Despite similar sensitivity to noise, high annoyance with road traffic noise was slightly higher among Indigenous respondents but not statistically significant. Similar trends were observed for rail, aircraft, and other industrial noise. Limitations of CPENS-1 include potential bias from COVID-19 lockdowns and the cross-sectional design, which reduced the power to assess low-prevalence demographic variables. CPENS-2 was designed to closely align with CPENS-1 to enable data merging.

1.2 Objectives

The primary objective of the research is to gather information on attitudes and expectations regarding noise annoyance and sleep and to understand personal and situational variables that may affect these responses.

Specifically, the survey will be used to:

- Gain an understanding of noise levels in communities across Canada, including noise from road traffic, air traffic and industry;
- Determine how outdoor noise may affect attitudes and behaviours in one's home/community;
- Assess outdoor noise as a potential contributor to sleep disturbances; and
- Identify correlations between outdoor noise disturbances and mental/physical health.

1.3 Methodology

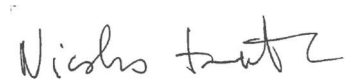
The probability-based study was conducted using Advanis' GPRS sample, in both English and French, using a two-step approach where respondents were recruited by telephone to participate in an online web survey. Overall, 5,081 people completed the survey between February 10th and April 24th, 2026, with a response rate of 34.9%, and a margin of error of 1.4% (19 times out of 20 at a 95% confidence interval). The data was weighted based on geographic area (rural, suburban, urban), age, gender, and Indigenous status.

1.4 Contract value

The contract value for this survey was \$102,968.24 (including HST).

1.5 Political neutrality requirement

I hereby certify as a Senior Officer of Advanis that the deliverables fully comply with the Government of Canada political neutrality requirements outlined in the *Policy on Communications and Federal Identity and the Directive on Management of Communications*' requirements for public opinion research reports. Specifically, the deliverables do not contain any reference to electoral voting intentions, political party preferences, standings with the electorate, or ratings of the performance of a political party or its leader.



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2. Background

The 2021 Canadian Perspectives on Environmental Noise Survey (CPENS-1) included 6,647 Indigenous and non-Indigenous adults from all provinces. It is the only known source of noise-relevant surveillance data collected from Indigenous individuals, informing Health Canada's (HC) advice on environmental noise for the Impact Assessment (IA) review process. CPENS-1 findings have informed comments on individual IAs (e.g. Sorel-Tracy), HC guidance on sleep disturbance, noise annoyance, and decibel adjustments for advice provided under the Impact Assessment Act. Indigenous respondents were more likely to report louder outdoor nighttime noise, had lower expectations of quiet, and were less likely to live in areas considered quiet. Despite similar sensitivity to noise, high annoyance with road traffic noise was slightly higher among Indigenous respondents but not statistically significant. Similar trends were observed for rail, aircraft, and other industrial noise. Limitations of CPENS-1 include potential bias from COVID-19 lockdowns and the cross-sectional design, which reduced the power to assess low-prevalence demographic variables.

CPENS-2 closely aligned with CPENS-1 to enable data merging, doubling sample size and improving statistical power, especially for low-prevalence comparisons. Survey length was slightly extended to ~30-35 items (~12 min).

2.1 Rationale and Intended Use of Research

Manner in which research supports government or departmental priorities:

Health Canada's Safe Environment Directorate (SED) provides the Impact Assessment Agency of Canada (IAAC) with advice on IA under IAA, which extends to noise impacts on human health.

Environmental assessment coordinators at SED depend on subject matter experts (SME) from Consumer and Clinical Radiation Protection Bureau (CCRPB) to provide, upon request, science-based advice on noise and health. They also rely on CCRPB SMEs to develop, review and update Health Canada guidance on noise and health and to defend the Department's advice at formal panel hearings. To fulfill these obligations and support the development's legal obligation under IAA, CCRPB conducts research to address knowledge gaps that aim to improve the department's provision of advice.

Manner in which research findings will benefit Canadians:

Results will provide new information on noise annoyance, sleep, attitudes and expectations, which will inform future updates to Health Canada's guidelines. Health Canada considers both annoyance and sleep disturbance to be potential risk factors for adverse health outcomes and, for this reason, insights that can be gleaned through this

survey will form the development of a knowledge base that can be relied upon to provide expert advice regarding noise-related health impacts.

3. Objectives

The primary objective of the research is to gather information on attitudes and expectations regarding noise annoyance and sleep and to understand personal and situational variables that may affect these responses.

Specifically, the survey will be used to:

- Gain an understanding of noise levels in communities across Canada, including noise from road traffic, air traffic and industry
- Determine how outdoor noise may affect attitudes and behaviours in one's home/community
- Assess outdoor noise as a potential contributor to sleep disturbances
- Identify correlations between outdoor noise disturbances and mental/physical health

4. Survey methodology

4.1 Questionnaire design

The questions for this survey were designed by Health Canada and provided to Advanis in English. Advanis used the existing survey translations from the previous cycle where applicable and translated any new or changed items into French. In order to ensure comparability with previous data cycle, the majority of questions, response levels, and translations were kept consistent in order to truly capture any emerging trends. Several new questions were added this cycle to capture some additional demographic information, such as residence type, and asking about noise barriers near respondents homes. CPENS-2 also added new content to evaluate well-being.

In 2026, there were 6 respondents who completed the survey that are excluded from the data due to being located in the Territories. To prevent similar issues in future cycles, Advanis recommends positioning the province question at the beginning of the survey. This would allow a termination point to be added for respondents in the Territories.

4.2 Data collection instrument

The probability-based study was conducted using a two-step approach where respondents were recruited by telephone to participate in an online web survey. Using Advanis' proprietary General Population Random Sample (GPRS), respondents were recruited to the online study by either email or SMS (text message), based on their preference at the time of recruitment. After the initial invitation, if respondents had not yet completed the survey, they were sent 2 reminder messages. Reminder messages were sent 3 and 6 days after the initial recruit.

In total, 29,120 phone numbers were called between February 10th and April 24th, 2026, and 15,952 people were recruited to the survey. Of the 15,952 recruited participants, 5,081 completed the online survey, for a response rate among those recruited of 31.8%. The margin of error for the study was $\pm 1.4\%$, at a 95% confidence interval (i.e., 19 times out of 20).

The average length of time to complete the online survey was 12 minutes.

4.3 Target population

The survey aimed to target Canadian adults (18+) with some over-sampling of rural residents and Indigenous respondents. The respondent profile was also aiming to reflect the Canadian general population in terms of age group and gender, targeting similar proportions to the Stats Canada 2021 census.

Advanis collected the data aiming to be representative of age group, gender and regions of Canada. In total 5,081 completed surveys were collected.

5. Data processing

5.1 Data capture

Responses to all survey questions were entered directly by the respondents. The electronic questionnaire reduces processing time and costs associated with data entry, transcription errors and data transmission. The responses were secured through industry standard encryption protocols, firewalls, and encryption layers.

When a response was outside the range (too large or small) of expected values, the respondent was prompted, through message screens, to verify the information.

5.2 Data cleaning

The information from all respondents who submitted the electronic questionnaire was retained and the data processed.

Editing can occur at several points throughout the survey process. It ranges from simple preliminary checks to more complex automated verifications performed after the data have been captured. For this study, “other specify” responses were reviewed in detail and back coded into existing survey levels where appropriate. The majority of survey questions were closed ended and did not require much cleaning. Combined net levels were added in the data tables, but the original data remains unchanged.

5.3 Creation of derived variables

A few variables were derived for the purposes of weighting the data. A gender+ variable was computed in a similar manner to how Statistics Canada reports gender, where respondents who refused to provide a gender or indicated another gender such as non-binary are randomly assigned into male or female so that all cases can be accounted for in the weighting. A bucketed age group variable was also derived based on the responses grouping ages into categories of 18 to 34, 35 to 54 and 55 or older. A binary version of Indigenous status was also derived from responses grouping respondents into either Indigenous or Non-Indigenous.

Other than variables for weighting there was a derived variable created to bucket the number of people in household into categories (1, 2, 3-4, 5 or more). There was also a rural FSA variable computed to flag cases who resided within a list of specific FSA's that

had been provided by Health Canada in cycle 1 of the CPENS study. This variable was again calculated in cycle 2.

5.4 Weights

The weighting of the final file was based on four variables: age, gender+, Indigenous status, and geographic location. There were 25 people who refused in the survey to provide their age, and for these cases Advanis used their GPRS sample pre-profiled age category for weighting. This is consistent with what was done in CPENS cycle 1.

In 2026 an opt out option was added to Q3 (the geographic location question), that is used for weighting the data. If the study is conducted again, it is recommended that this option be removed from the survey. For the purposes of weighting the 2026 data, where Advanis had pre-profiled cases as living in rural areas, cases were assigned as rural, and in addition any FSA's that were provided that aligned with the Health Canada provided list of FSAs to flag were assigned to rural. This left 63 cases that did not have a response to Q3 that could not be easily classified location-wise. For these cases the data was assigned a weight value of 1, or neutral, for location and results were still weighted for demographic information.

The population sizes used for weighting are based on the latest Statistics Canada census results published in the 2021 Census. Weighting was used to ensure that the results match the marginal population proportions for age, gender, Indigenous status and geographic location. See Appendix B for detailed weights.

5.5 Non-response bias

Non-response bias occurs when non-responders differ in a meaningful way from respondents, and this difference impacts the information gathered. It is difficult to assess the presence of non-response bias since information about why non-responders did not participate is usually unavailable. That said, one way to gauge the potential impacts of non-response bias is to evaluate if the sample is representative by comparing the respondents' characteristics and gauge if they reflect known population characteristics. Where possible, we can check the distribution of respondents across various demographics (for example, age and gender) and geographic categories and compare those distributions against known population characteristics. If the variation is fairly small and we have no reason to believe there are other factors impacting respondents' willingness to participate, we can conclude the likelihood of non-response bias impacting the information gathered in the survey is minimal. This is the case with the current survey.

Several strategies were employed to increase response rates and reduce the effects of non-response bias. This includes:

- Recruiting respondents by telephone (cellular).
- Outpulsing a local phone number (rather than a toll-free number) which increases pick-up rates (reducing call screening).
- Systematically setting the next call date and time based on the outcome of the current call, which ensures each respondent is called methodically across days of the week and times of the day. Especially for respondents that are difficult to reach, this maximizes the likelihood of reaching them.
- Sending an SMS text message to recruits, which assures a seamless transition from the telephone survey to the online survey, as receipt can be confirmed in real time and encourages respondents to complete the survey as soon as the call ends.
- Collecting both email address and telephone number for recruitment so if the email address does bounce, we can contact them via SMS message if they agree.
- Offering the survey in both official languages to maximize ease of completion.

Data tables were created and provided to Health Canada. Results in the data tables were crossed by geographic location and Indigenous status. Results were not trended against the cycle 1 results in the data tables.

Appendix

A. Response Rate

Table 2. Response rate calculation

	TOTAL	%
Generated	29120	100.0%
Used	29120	100.0%
No service	1596	5.5%
Not residential/business	68	0.2%
Line problems	49	0.2%
Fax	5	0.0%
Wrong number	5	0.0%
Invalid	1723	5.9%
Potentially Eligible	27397	94.1%
U. No answer	409	1.5%
U. Busy	71	0.3%
U. Answering machine/voicemail	5175	18.9%
U. Unresolved[2]	5655	19.4%
IS. Language barrier	44	0.2%
IS. Illness/incapacity	14	0.1%
IS. Household refusals	3459	12.6%
IS. Respondent refusal	1827	6.7%
IS. Appointments	39	0.1%
IS. In-Scope Non-Responding	5383	18.5%
R. Non eligible	407	1.5%
R. Quota Blocked	0	0.0%
R. Recruited to Web	15952	58.2%
R. Responding Units	16359	59.7%
Completed short (screeners)	5703	
Completed full survey	5081	

% Refusal¹	19.3%
% Completed Telephone²	58.2%
Cooperation rate³	75.2%
Recruit rate⁴	59.7%
Web response rate	34.9%

¹ Household plus Respondent Refusal / Potentially Eligible Sample

² Completed / Potentially Eligible Sample

³ Responding Units / (Potentially Eligible minus Unresolved)

⁴ Responding Units / (Unresolved plus In Scope Non-Responding plus Responding Units)

B. Weights

The below table presents the detailed weights.

Table 1.

Weight Category	N Size	Weight
Female 18-34 Indigenous Urban	11	0.94200
Female 18-34 Indigenous Suburb	18	0.67600
Female 18-34 Indigenous Rural	10	0.50000
Female 18-34 Indigenous Refused location	2	0.73300
Female 18-34 Not Indigenous Urban	100	2.54500
Female 18-34 Not Indigenous Suburb	156	1.82600
Female 18-34 Not Indigenous Rural	74	1.35100
Female 18-34 Not Indigenous Refused location	3	1.97800
Male 18-34 Indigenous Urban	34	0.50000
Male 18-34 Indigenous Suburb	51	0.35900
Male 18-34 Indigenous Rural	24	0.26600
Male 18-34 Not Indigenous Urban	2	0.38900
Male 18-34 Not Indigenous Suburb	187	1.35100
Male 18-34 Not Indigenous Rural	442	0.96900
Male 18-34 Not Indigenous Refused location	157	0.71800
Female 35-54 Indigenous Urban	12	1.05000
Female 35-54 Indigenous Suburb	26	0.52300
Female 35-54 Indigenous Rural	63	0.37500
Female 35-54 Indigenous Refused location	30	0.27800
Female 35-54 Not Indigenous Urban	212	1.41200
Female 35-54 Not Indigenous Suburb	526	1.01300
Female 35-54 Not Indigenous Rural	251	0.75000
Female 35-54 Not Indigenous Refused location	8	1.09700
Male 35-54 Indigenous Urban	11	1.06700
Male 35-54 Indigenous Suburb	13	0.76600
Male 35-54 Indigenous Rural	5	0.56700
Male 35-54 Not Indigenous Urban	95	2.88200
Male 35-54 Not Indigenous Suburb	152	2.06800
Male 35-54 Not Indigenous Rural	48	1.53100
Male 35-54 Not Indigenous Refused location	3	2.24100
Female 55+ Indigenous Urban	29	0.43300

Weight Category	N Size	Weight
Female 55+ Indigenous Suburb	54	0.31000
Female 55+ Indigenous Rural	33	0.23000
Female 55+ Not Indigenous Urban	219	1.16800
Female 55+ Not Indigenous Suburb	464	0.83800
Female 55+ Not Indigenous Rural	194	0.62100
Female 55+ Not Indigenous Refused location	11	0.90800
Male 55+ Indigenous Urban	42	0.39600
Male 55+ Indigenous Suburb	75	0.28400
Male 55+ Indigenous Rural	40	0.21000
Male 55+ Indigenous Refused location	3	0.30800
Male 55+ Not Indigenous Urban	245	1.07000
Male 55+ Not Indigenous Suburb	631	0.76800
Male 55+ Not Indigenous Rural	296	0.56800
Male 55+ Not Indigenous Refused location	19	0.83200

C. Questionnaire

Canadian Perspectives on Environmental Noise Survey (CPENS)



Languages: English, French

Section Login page

Page Consent

LoginTCH

You are being invited to participate in the Canadian Perspectives on Environmental Noise Survey, which is being conducted by Advanis, a research firm, on behalf of Health Canada. The survey's aim is to collect information on how community noise may affect you. This will help Health Canada develop advice to limit noise impacts on Canadians. The survey includes questions about your home and the community you live in, your response towards noise sources that you may sometimes hear while you are at home, your health and well-being and general sociodemographic questions such as gender, education and employment status. The survey will take you about 10 minutes to complete.

Your participation in this survey is entirely voluntary. You may stop the survey at any time without consequence. If you get interrupted while doing the survey, you can **click on the same link** to pick up right where you left off.

The personal information you provide to Advanis will be used by Health Canada under the authority of section 4 of the *Department of Health Act* and handled in accordance with the *Privacy Act*. For more information about privacy, please read the Privacy Notice below.

If you have any questions about the survey, you may contact Advanis at survey+noise25@telicityhall.ca (<mailto:survey+noise25@telicityhall.ca>).

By clicking the start survey button, you indicate that you have read this information and that you consent to take part in the study.

Privacy Notice

Why are we collecting your personal information?

The personal information you provide to Health Canada is required to better understand the

attitudes towards community noise in Canada. This will help Health Canada develop advice to limit noise impacts on Canadians.

You may choose to provide your postal code so that Health Canada can determine if the response to noise is influenced by geographic area. You may also choose to provide your home address so that Health Canada may estimate the noise levels outside your home. Health Canada will be using this information to understand how noise levels affect attitudes toward noise and will not use this information to identify you.

We will not ask you to provide us with any information that could directly identify who you are, such as your name, or full date of birth. It is possible the responses you provide could be used alone or in combination with other available information, however your personal information will be safeguarded to ensure that you are not identified.

Will we use or share your personal information for any other reason?

The final methodological report and data tables will be available to the public from the Library and Archives Canada (www.bac-lac.gc.ca ([opens in a new window](#)) (www.bac-lac.gc.ca)) within six months following end of fieldwork. The final report will be presented in aggregate form and will not contain any directly identifying information. The aggregated survey results may also be shared with the scientific community through journal publications. In addition, Health Canada may share postal code data with Statistics Canada to conduct sound level modelling that will support this research.

What happens if you don't want to provide your personal information?

Participation is completely voluntary. Your decision to participate or not is yours alone and there will be no consequences if you decide not to participate.

What are your rights?

You have the right to access and request a correction and/or notation to your personal information. You also have a right to complain to the Privacy Commissioner of Canada if you feel your personal information has been handled improperly. For more information about these rights, or about how we handle your personal information, please contact Dr. David Michaud at david.michaud@hc-sc.gc.ca (<mailto:david.michaud@hc-sc.gc.ca>).

For more information:

The collection of your personal information is described in Info Source at infosource.gc.ca ([opens in a new window](#)) (<https://www.canada.ca/en/treasury-board-secretariat/services/access-information-privacy.html>). Refer to the personal information bank Public Communications – PSU 914.

If you have any questions about the survey, you may contact Dr. David Michaud at david.michaud@hc-sc.gc.ca (<mailto:david.michaud@hc-sc.gc.ca>).

Your help is greatly appreciated and we look forward to receiving your feedback.

This survey is registered with the Canadian Research Insights Council's (CRIC) Research Verification Service. The project verification number is: 20260109-AD910. Click [here \(opens in a new window\)](https://www.canadianresearchinsightscouncil.ca/rvs/home/) (<https://www.canadianresearchinsightscouncil.ca/rvs/home/>) to verify the legitimacy of this survey.

Section Survey Questions

Page Home and Community

Q1

The first few questions are related to your home and the community you live in.

How long have you lived in your current home?

Please select one.

- ☐ ₇ Less than 3 months
- ☐ ₈ 3 months to less than 6 months
- ☐ ₉ 6 months to less than 1 year
- ☐ ₂ 1 year to less than 5 years
- ☐ ₃ 5 years to less than 10 years
- ☐ ₄ 10 years and over
- ☐ ₅ Unknown
- ☐ ₆ Prefer not to answer

Q2

In the time since you have lived in your home, how has the overall outdoor noise around your home changed?

Please select one per item.

1. During the daytime (7AM-10PM)
 2. During the nighttime (10PM-7AM)
- ☐ ₁ It is louder
 - ☐ ₂ It is less loud
 - ☐ ₃ It has not changed

Q2a

Which of the following best describes the home you have lived in the most often during the past 12 months?

Please select one.

- ☐ 1 A detached single-family home
- ☐ 2 A semi-detached or row/townhouse
- ☐ 3 An apartment or condominium (low-, mid-, or high-rise building)
- ☐ 4 A university or college dormitory or other group housing (e.g., residence hall, barracks)
- ☐ 5 A mobile home or trailer
- ☐ 6 A basement or secondary suite
- ☐ 7 Other (please specify): _____
- ☐ 8 Don't know
- ☐ 9 Prefer not to answer

Q2b

Including yourself, how many people live in your home?

If you live in an apartment building or college dorm please refer to your apartment or room, not the entire building. If you rent a room in a house or you are occupying only part of the house (e.g. basement), please include the total number of people in the home.

Please enter a number.

Minimum: 1, Maximum: 15

Q2c

How close is your home to a dominant source of transportation noise, such as a heavily travelled road or rail line?

"Heavily travelled" means high traffic for your area, which could include commonly used roads in rural areas or a busy multi-lane road in cities.

Please select one.

- ☐ 1 Home is directly adjacent or within 30 metres (< 6 car lengths) of a major road or rail line
- ☐ 2 Home is within half a kilometer (about 5 blocks) from a major road or rail line
- ☐ 3 Home is more than a half kilometer away from a major road or rail line
- ☐ 4 Don't know
- ☐ 5 Prefer not to answer

Q2d

Is there a noise barrier (such as a wall or raised mound of earth, sometimes called an “earth berm”) near your home that is intended to reduce the noise you hear while at home?

Please select one.

- ☐ ₁ Yes
- ☐ ₂ No
- ☐ ₃ No, there is no noise barrier but my home has a quiet side where outdoor noise is noticeably lower
- ☐ ₄ Don't know
- ☐ ₅ Prefer not to answer

Q2e *Show if (Yes noise barrier near home (Q2d = 1))*

How effective is the noise barrier (e.g., wall or earth berm) near your home at reducing the noise you hear while at home?

Please select one.

- ☐ ₁ Very effective – greatly reduces noise
- ☐ ₂ Somewhat effective – noticeable reduction
- ☐ ₃ Not very effective – slight reduction
- ☐ ₄ Not effective at all – no noticeable reduction
- ☐ ₅ Don't know
- ☐ ₆ Prefer not to answer

Q3

Which best describes the neighborhood in which you live?

Please select one.

- ☐ ₂ Rural, mostly farming, countryside or small community
- ☐ ₃ Suburb- A mixed use or residential neighborhood near a city
- ☐ ₄ Urban- A busy downtown area or city centre
- ☐ ₅ Don't know
- ☐ ₆ Prefer not to answer

Q4

Do you live in a neighborhood where you have a high expectation for tranquility, peace and quiet?

Please select one.

- ☐ ₁ Yes, definitely
- ☐ ₂ Yes, somewhat
- ☐ ₃ No
- ☐ ₄ Don't know
- ☐ ₅ Prefer not to answer

Q5

With respect to outdoor noise levels, how often is the area where you live very quiet, calm and relaxing?

Please select one.

- ☐ ₁ Never
- ☐ ₂ Sometimes
- ☐ ₃ Often
- ☐ ₄ Always
- ☐ ₅ Don't know
- ☐ ₆ Prefer not to answer

Page Noise you experience at home

Q5a

The next few questions are related to your response towards noise sources that you may sometimes hear while you are at home.

Which of the following noise sources do you consider contributes **THE MOST** to the sound levels outside your home?

Please select one.

- ☐ ₁ Road traffic (cars, trucks, buses)
- ☐ ₂ Rail traffic (trains, subways)
- ☐ ₃ Aircraft including planes and helicopters
- ☐ ₄ Industrial or commercial activity (e.g., factories, loading docks, HVAC systems)
- ☐ ₅ Construction activity
- ☐ ₆ Neighbours (e.g., people talking, music, parties, pets)
- ☐ ₇ Natural sounds from wind, water or wildlife (birds)

- ☐ ₈ Other (specify) _____
- ☐ ₉ I do not notice any background noise outside my home
- ☐ ₁₀ Don't know
- ☐ ₁₁ Prefer not to answer

Q6

Thinking about the last 12 months or so, when you are at home, how much does noise from road traffic bother, disturb, or annoy you?

"At home" means either inside or outside your home.

Please select one.

- ☐ ₀ 0 - Not at all annoyed
- ☐ ₁ 1
- ☐ ₂ 2
- ☐ ₃ 3
- ☐ ₄ 4
- ☐ ₅ 5
- ☐ ₆ 6
- ☐ ₇ 7
- ☐ ₈ 8
- ☐ ₉ 9
- ☐ ₁₀ 10 - Extremely annoyed

Q7

How easy or difficult was it for you to think about and summarize your average level of annoyance from road traffic noise over the past 12 months?

Please select one.

- ☐ ₁ Very easy
- ☐ ₂ Fairly easy
- ☐ ₃ Somewhat difficult
- ☐ ₄ Very difficult
- ☐ ₅ Don't know
- ☐ ₆ Prefer not to answer

Q8a

The following list includes other outdoor sources of noise you may hear from inside or outside your home.

Thinking about the last 12 months or so, indicate how bothered, disturbed, or annoyed you are by the noise from each source. If you never hear the source, select "do not hear".

Please select one per item.

1. Trains *
2. Aircraft including planes and helicopters *
3. Wind turbines *
4. Mining related activities
5. Other industry unrelated to mining
6. Marine activity (e.g., ships, boats, watercraft) *
7. Construction activity, including backup alarms *
8. Lawnmowers, hedge trimmers, leaf blowers, chain saws *
9. Sounds of nature including birds, moving water, wind, etc.. *
10. Sounds from people talking or playing music outside *

*Levels marked with * are randomized*

- ☐ .9 Do not hear
- ☐ 1 0 - Not at all annoyed
- ☐ 2 1
- ☐ 3 2
- ☐ 4 3
- ☐ 5 4
- ☐ 6 5
- ☐ 7 6
- ☐ 8 7
- ☐ 9 8
- ☐ 10 9
- ☐ 11 10 - Extremely annoyed

Other industry unrelated to mining will always come after Mining related noise, these levels are in a group that is randomized within the list.

Q9

Thinking about the last 12 months or so, while you are at home, how disturbed was your sleep?

Please take into account any sleep problems, regardless of cause.

Please select one.

- ☐ ₀ 0 - Not at all disturbed
- ☐ ₁ 1
- ☐ ₂ 2
- ☐ ₃ 3
- ☐ ₄ 4
- ☐ ₅ 5
- ☐ ₆ 6
- ☐ ₇ 7
- ☐ ₈ 8
- ☐ ₉ 9
- ☐ ₁₀ 10 - Extremely disturbed

Q10a

For each of the listed sources, indicate to what extent they have disturbed your sleep over the past 12 months or so. If the potential cause of sleep disturbance does not apply to you, select "does not apply"

Please select one per item.

- 1. Wind turbine noise *
- 12. Pain or illness *
- 4. Your partner's sleep disturbance for any reason disrupts your sleep *
- 5. Having to use the washroom *
- 6. Stress/anxiety/worrying about something *
- 7. Indoor noise from people *
- 16. Outdoor noise from people *
- 8. Road traffic noise *
- 9. Indoor noise from TV/Radio/ventilation *
- 10. Smartphone, tablet or other device usage *
- 11. Noise from pets indoors *
- 13. Sleep disorder *
- 14. Aircraft noise *
- 15. Other noise from hospitals, energy facilities, recreational music *

*Levels marked with * are randomized*

- ☐ _{.9} Does not apply
- ☐ ₁ 0 - Not at all disturbed
- ☐ ₂ 1

- ☐ ₃ 2
- ☐ ₄ 3
- ☐ ₅ 4
- ☐ ₆ 5
- ☐ ₇ 6
- ☐ ₈ 7
- ☐ ₉ 8
- ☐ ₁₀ 9
- ☐ ₁₁ 10 - Extremely disturbed

Q11

In your opinion, how important is it to limit environmental noise so that people can comfortably engage in the following activities?

Please select one per item.

1. Sleeping *
2. Speaking with others *
3. Hunting *
8. Fishing *
4. Participating in ceremonial or spiritual practices *
5. Watching television or other media *
6. Reading, studying, working (concentration) *
7. Relaxing *
9. Leisure activities (e.g. visiting parks, camping) *

*Levels marked with * are randomized*

- ☐ ₁ Not at all important
- ☐ ₂ Slightly
- ☐ ₃ Moderately
- ☐ ₄ Very
- ☐ ₅ Extremely important
- ☐ ₆ Don't know

Q12

In general, how sensitive would you say you are to noise?

Please select one.

- ☐ ₁ 0 - Not at all sensitive to noise
- ☐ ₂ 1
- ☐ ₃ 2
- ☐ ₄ 3

- ☐ ₅ 4
- ☐ ₆ 5
- ☐ ₇ 6
- ☐ ₈ 7
- ☐ ₉ 8
- ☐ ₁₀ 9
- ☐ ₁₁ 10 - Extremely sensitive to noise

Page Health and Wellbeing

Q12b

The next few questions are related to your health and well-being.

Overall, how do you feel about your life as a whole right now?

Please select one.

- ☐ ₁ 0 - Very dissatisfied
- ☐ ₂ 1
- ☐ ₃ 2
- ☐ ₄ 3
- ☐ ₅ 4
- ☐ ₆ 5
- ☐ ₇ 6
- ☐ ₈ 7
- ☐ ₉ 8
- ☐ ₁₀ 9
- ☐ ₁₁ 10 - Very satisfied

Q13

In general, how would you rate your physical health?

Please select one.

- ☐ ₁ Excellent
- ☐ ₂ Very good
- ☐ ₃ Good
- ☐ ₄ Fair
- ☐ ₅ Poor
- ☐ ₆ Don't know
- ☐ ₇ Prefer not to answer

Q14

In general, how would you rate your mental health?

Please select one.

- ☐ ₁ Excellent
- ☐ ₂ Very good
- ☐ ₃ Good
- ☐ ₄ Fair
- ☐ ₅ Poor
- ☐ ₆ Don't know
- ☐ ₇ Prefer not to answer

Q15

For each of the following health conditions, indicate if you have been diagnosed by a healthcare professional with...

Please select one per item.

- 1. Heart disease including high blood pressure *
- 7. Asthma *
- 8. Arthritis *
- 9. Obesity *
- 10. Cancer (ever diagnosed) *
- 2. Anxiety or depression *
- 3. Sleep disorder *
- 4. Hearing loss *
- 5. Tinnitus (ringing, buzzing sound in the ear) *
- 6. Misophonia (a severe emotional or physiological reaction to specific sounds) *

*Levels marked with * are randomized*

- ☐ ₁ Have been formally diagnosed
- ☐ ₂ Have not been formally diagnosed but I may have it
- ☐ ₃ Not applicable to me
- ☐ ₄ Prefer not to answer

Page Demographics

Q17

The last few questions are strictly for statistical purposes. All of your answers are completely confidential.

In which of the following age categories do you belong?

Please select one.

- ☐ ₁ 18-24
- ☐ ₂ 25-34
- ☐ ₃ 35-44
- ☐ ₄ 45-54
- ☐ ₅ 55-64
- ☐ ₆ 65 or older
- ☐ ₇ Prefer not to answer

Q18

What is your current employment status?

Select all that apply

- ☐ ₁ Employed and/or self-employed
- ☐ ₂ Unemployed
- ☐ ₃ In training/education
- ☐ ₄ Employed and in training/education
- ☐ ₅ Retired
- ☐ ₆ Prefer not to answer *(Exclusive)*

Q19

What is the highest level of education you have completed?

Please select one.

- ☐ ₁ Less than high school diploma or equivalent
- ☐ ₂ High school diploma or equivalent
- ☐ ₃ Registered apprenticeship or other trades certificate or diploma
- ☐ ₄ College, CEGEP or other non-university certificate or diploma
- ☐ ₅ University certificate or diploma below bachelor's degree
- ☐ ₆ Bachelor's degree
- ☐ ₇ Post graduate degree above bachelor's level

- ☐ 8 Prefer not to answer

Q20

What is your gender?

Please select one.

- ☐ 2 Man
- ☐ 1 Woman
- ☐ 5 Non-binary
- ☐ 6 Transgender
- ☐ 7 Two-Spirit
- ☐ 3 Other (Please specify) _____
- ☐ 4 Prefer not to answer

Q21

Do you self-identify as an Indigenous person, that is, First Nations, Métis, or Inuk (Inuit)?

Please select one.

- ☐ 1 No, not an Indigenous person
- ☐ 2 Yes, First Nations
- ☐ 3 Yes, Métis
- ☐ 4 Yes, Inuk (Inuit)
- ☐ 5 Yes, Mixed Indigenous heritage

Q22

Which of the following best describes your total household income last year, before taxes, from all sources for all household members?

Please select one.

- ☐ 1 Under \$20,000
- ☐ 2 \$20,000 to just under \$40,000
- ☐ 3 \$40,000 to just under \$60,000
- ☐ 4 \$60,000 to just under \$80,000
- ☐ 5 \$80,000 to just under \$100,000
- ☐ 6 \$100,000 to just under \$150,000
- ☐ 7 \$150,000 and above
- ☐ 8 Don't know
- ☐ 9 Prefer not to answer

Q24

Health Canada is interested in estimating the noise levels outside your home. Even if you find it to be very quiet around your home, this information is important because it can help determine noise limits to protect Canadians from noise. Health Canada does not need to go to your home to do this, however the computer software used to calculate noise levels is based on the distance between your home and the nearest road, rail line or airport. To calculate this distance Health Canada is asking that you share your address below, and in the next two questions your province/territory or residence and your full postal code. If you agree to share your address, Health Canada may need to share it with Statistics Canada to calculate population density. Health Canada can then use population density with distance to a major noise source to estimate the sound levels around your home. As with all of the answers you have provided on this survey, your information is protected and remains confidential under the Privacy Act.

Please enter your...

Please enter your response in the boxes provided.

Street name and house number	_____
City, town, municipality or First Nations	_____
Reserve	_____

☐ -8 Prefer not to answer

Q26

In which province or territory do you live?

Please select one.

- ☐ 1 British Columbia (BC)
- ☐ 2 Alberta (AB)
- ☐ 3 Manitoba (MB)
- ☐ 4 Saskatchewan (SK)
- ☐ 5 Ontario (ON)
- ☐ 6 Quebec (QC)
- ☐ 7 New Brunswick (NB)
- ☐ 8 Nova Scotia (NS)
- ☐ 9 Prince Edward Island (PE)
- ☐ 10 Newfoundland and Labrador (NL)
- ☐ 11 Yukon (YT)
- ☐ 12 Nunavut (NU)
- ☐ 13 Northwest Territories (NT)
- ☐ 14 Prefer not to say

Q23

What is your 6-digit postal code?

Please enter your full 6 digit postal code.

☐ -8 Prefer not to answer

Section Survey End

Page Conclusion

WebEndTCH

We have asked you all of our questions. We hope you've found this interesting, and we sincerely thank you for your time.

Health Canada has contracted an independent public opinion research company, [Advanis \(http://advanis.net\)](http://advanis.net), to conduct the research on their behalf. [TellCityHall \(http://www.tellcityhall.ca\)](http://www.tellcityhall.ca) is one of Advanis' data collection methods.

If you'd like to see results from other studies conducted by Advanis via TellCityHall, please visit [tellcityhall.ca/surveys \(http://www.tellcityhall.ca/surveys.html\)](http://www.tellcityhall.ca/surveys).

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