radonova
The global leader in radon measurement

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2021-08-27

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N/A

BY
REMC / BC Lung Foundation

REPORT RECEIVER(S)
Cottonwood Creek Community

Cottonwood Creek Community
Gerald Beaudry
19-2917 Georama Road
NELSON BC V1L 6Y7
CANADA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed alpha-track detector (Radtrak²®/Radtrak³®) following the quality guidance given in CNRPP-AL-DF-v6.

The detector(s) arrived to Radonova Laboratories **2021-08-19**.
They were measured **2021-08-25**.

Test data have been given by Gerald Beaudry

Property data and address

MEASURE SITE ADDRESS
Cottonwood Creek Community
19-2917 Georama Road
NELSON BC V1L 6Y7

BUILDING ID

TYPE OF BUILDING:	BUILDING YEAR:	FOUNDATION TYPE:	PURPOSE OF TEST:
Other	*1982*	*Basement*	*Primary Screening*

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	ROOM	FLOOR	RADON RESULT
715133-5 [Radtrak²®]	*2021-03-03 – 2021-08-10*	*basement bedroom wall*			126 ± 16 Bq/m³

Comment to the results

Tryggve Rönnqvist (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

SWEDAC ACKREDITERING
Accred. no. 1489
Testing
ISO/IEC 17025

RADONOVA INC.
1 EAST 22nd STREET, SUITE 200
LOMBARD, IL 60148
331.814.2200, help@radonova.com

What Does My Result Mean?

Health Canada recommends remediation if the radon concentration exceeds 200 Bq/m³.

Concentration (Bq/m³)	Recommended Action
Less than 200	No action required
Between 200 and 600	Mitigate within 2 years
600 and higher	Mitigate within 1 year

Health Canada recommends that the radon test performed in a home or public building be a long-term measurement. Health Canada does not recommend a test duration of less than one month. A minimum of 3 months is recommended and 12 months is optimum. It is strongly recommended that the result of any short-term measurement be confirmed with a "follow-up" long-term measurement. A single short-term measurement is not a sufficient basis for a decision to mitigate. Remedial measures should be undertaken in a dwelling whenever the average annual radon concentration exceeds 200 Bq/m³ in the normal occupancy area. The higher the radon concentration, the sooner remedial measures should be undertaken. For more information, or to find a certified mitigation professional, visit the Canadian National Radon Proficiency Program (CNRPP) website at **www.c-nrpp.ca**.

Measurement method: Closed alpha-track detector (Radtrak²®/Radtrak³®)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure. Radonova Laboratories (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories. Detector deployment is not performed by Radonova Laboratories. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories by the end user. The presented results apply only to the samples tested.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

More information about radon can be found in the following Health Canada publications:

- Guide for Radon Measurements in Residential Dwellings
- (Homes) Radon – Reduction Guide for Canadians
- Radon: Is it in your Home?
- Radon – Another Reason to Quit

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.

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