

PBS Engineering & Environmental  
Kiera Yap

BY  
PBS Engineering & Environmental

REPORT RECEIVER(S)  
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## RADON MONITORING REPORT

### Description of the measurement

The measurement was performed with Activated Charcoal Adsorption by Alpha Energy Laboratories (NRPP ID: 101132 AL).

The detector(s) arrived to Alpha Energy Laboratories, Inc. **03/31/2023**. They were measured **03/31/2023**.

*Test data have been given by PBS Engineering & Environmental*

### Property data and address

MEASURE SITE ADDRESS  
Pathways Center at Oak Street Campu  
440 SE Oak Street  
Hillsboro OR 97213

BUILDING ID

### Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK110035 [QuickScreen]	03/27/2023 07:01 AM – 03/30/2023 08:05 AM	"Floor 1, C102", Standard		< 0.7 pCi/L
RK109996 [QuickScreen]	03/27/2023 07:01 AM – 03/30/2023 08:07 AM	"Floor 1, C102", Standard		< 0.6 pCi/L
RK110683 [QuickScreen]	03/27/2023 07:02 AM – 03/30/2023 08:06 AM	"Floor 1, 112/153", Standard		< 0.6 pCi/L
RK110680 [QuickScreen]	03/27/2023 07:04 AM – 03/30/2023 08:07 AM	"Floor 1, 110/152", Standard		< 0.8 pCi/L
RK110720 [QuickScreen]	03/27/2023 07:07 AM – 03/30/2023 08:08 AM	"Floor 1, 108C/148", Standard		< 0.6 pCi/L
RK110679 [QuickScreen]	03/27/2023 07:08 AM – 03/30/2023 08:09 AM	"Floor 1, 108D/148D", Standard		< 0.6 pCi/L
RK110731 [QuickScreen]	03/27/2023 07:09 AM – 03/30/2023 08:10 AM	"Floor 1, 108E/148E", Standard		< 0.8 pCi/L

### Comment to the results

#### Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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RK110712 [QuickScreen]	03/27/2023 07:11 AM – 03/30/2023 08:05 AM	"Floor 1, 108B/148B", Standard		< 0.7 pCi/L
RK110734 [QuickScreen]	03/27/2023 07:12 AM – 03/30/2023 08:05 AM	"Floor 1, 108A/148A", Standard		< 0.6 pCi/L
RK110726 [QuickScreen]	03/27/2023 07:14 AM – 03/30/2023 08:05 AM	"Floor 1, 108/148", Standard		< 0.6 pCi/L
RK110693 [QuickScreen]	03/27/2023 07:16 AM – 03/30/2023 08:05 AM	"Floor 1, 104/144", Standard		< 0.6 pCi/L
RK110736 [QuickScreen]	03/27/2023 07:16 AM – 03/30/2023 08:05 AM	"Floor 1, 104/144", Duplicate		< 0.7 pCi/L
RK110688 [QuickScreen]	03/27/2023 07:17 AM – 03/30/2023 08:05 AM	"Floor 1, 102/142", Standard		< 0.5 pCi/L
RK109988 [QuickScreen]	03/27/2023 07:18 AM – 03/30/2023 08:05 AM	"Floor 1, 101/141", Standard		< 1.0 pCi/L
RK110043 [QuickScreen]	03/27/2023 07:19 AM – 03/30/2023 08:05 AM	"Floor 1, 103/143", Standard		< 0.7 pCi/L
RK110067 [QuickScreen]	03/27/2023 07:19 AM – 03/30/2023 08:05 AM	"Floor 1, 103/143", Duplicate		< 0.7 pCi/L

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DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK110006 [QuickScreen]	03/27/2023 07:20 AM – 03/30/2023 08:05 AM	"Floor 1, 105/145", Standard		< 0.7 pCi/L
RK110695 [QuickScreen]	03/27/2023 07:22 AM – 03/30/2023 08:05 AM	"Floor 1, 107/147", Standard		< 0.6 pCi/L
RK110690 [QuickScreen]	03/27/2023 07:22 AM – 03/30/2023 08:05 AM	Blank, Blank		< 0.6 pCi/L

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## Measurement method: Activated Charcoal Adsorption

For this method using the QuickScreen detector, the airtight container with activated charcoal is opened in the area to be sampled and radon in the air adsorbs onto the charcoal granules. At the end of the sampling period, the container is sealed and may be sent to a laboratory for analysis. The gamma decay from the radon adsorbed to the charcoal is counted on a scintillation detector and a calculation based on calibration information is used to calculate the radon concentration at the sample site.

## 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  $4.0 \pm 0.5$  pCi/L means that the radon concentration is most likely contained in the range 3.5 - 4.5 pCi/L. 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 pCi\*days/L will be reported. 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.

## Codes on non-reportable detectors

**DNR** Not Reported – Detector Not Returned  
**ERR** Not Reported – See comment

## Measurement method versions used when the report was created

ANSI/AARST MAH-2019, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes

ANSI/AARST MAMF-2017, rev. 1/2021, Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily Buildings

ANSI/AARST MALB-2014, rev. 1/2021, Prot. for Conducting Measurements of Radon and Radon Decay Products In Schools and Large Buildings

## Radon measurements in Multifamily Buildings, Schools and Large Buildings

The United States Environmental Protection Agency (EPA) recommends remediation if the results of one long-term test or the average of two short-term tests conducted in an occupied room are 4.0 pCi/L or higher. The average yearly residential indoor radon level in the US is estimated to be around 1.3 pCi/L. Long-term tests are conducted for more than 90 days. Short-term tests are conducted between 2 and 90 days and should be performed under closed building conditions.

If an initial short-term test result is less than 4 pCi/L, a follow-up measurement is probably not needed.

If an initial short-term test result is between 4 pCi/L and 8 pCi/L, a long-term or a short-term follow-up measurement is recommended.

If an initial short-term test result is greater than 8 pCi/L, a short term follow-up measurement is recommended in order to get a fast result.

**More information about radon measurements and mitigation can be found in the ANSI/AARST publications:**

- ANSI/AARST Protocol for Conducting Measurements of Radon and Radon-Decay Products in Schools and Large Buildings.
- ANSI/AARST Protocol for Conducting Radon and Radon Decay Product Measurements in Multifamily Buildings.
- ANSI/AARST Radon Mitigation Standards for Schools and Large Buildings.
- ANSI/AARST Radon Mitigation Standards for Multifamily Buildings.

For more information about the interpretation of your test results or about other radon related issues we suggest contacting your state radon office.

## Signature on the report

With the signature on the report, the Measurement specialist at Radonova Laboratories certifies that the quality control procedures follows the guidance in accordance with the AARST/ANSI Measurement Protocols. Measurement information displayed in italics on report has been provided by the customer.

## Certification no:

101132-AL, 107830-RT, NY ELAP ID: 11430

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