

June 11, 2024

Lisa McConnell  
 Lane Benton Lincoln ESD  
 905 4<sup>th</sup> Avenue SE  
 Albany, Oregon 97321

Via email: [lisa.mcconnell@lblestd.k12.or.us](mailto:lisa.mcconnell@lblestd.k12.or.us)

Regarding: LBLESD Main Administration Building  
 Short-Term Radon Testing  
 Albany, Oregon  
 PBS Project 52827.000

Dear Ms. McConnell:

From May 20 to May 23, 2024, PBS Engineering and Environmental LLC (PBS) performed short-term radon testing at Lane Benton Lincoln Education Service District's (LBLESD) Main Administration Building located at 905 4<sup>th</sup> Avenue SE in Albany, Oregon.

The Environmental Protection Agency (EPA) and Oregon Health Authority (OHA) recommend that buildings be tested for radon, and that any radon concentrations be maintained below 4.0 picocuries per liter (pCi/L) of air. PBS used Radonova, single-use, short-term radon test kits to measure radon levels in frequently occupied rooms that are in contact with the ground or above unoccupied basements or crawlspaces. **No samples taken by PBS at LBLESD's Main Administration Building were found to be above the EPA action level of 4.0 pCi/L.**

In addition to the single-use, short-term radon test kits deployed throughout the school, three (3) sample blanks, two (2) spike samples, and five (5) duplicates were analyzed by Alpha Energy Laboratories in Carrollton, Texas for quality control (QC) purposes. Refer to the attached laboratory analysis report for more details.

The following table presents the results of all tests conducted during this study. Results are listed in pCi/L.

Kit Number	Start Date	End Date	Room	Floor	Result (pCi/L)	Comments
RK140839	5/20/24	5/23/24	Facilities B-15	0	0.7 ± 0.3	
RK140847	5/20/24	5/23/24	CR Storage B-14	0	0.6 ± 0.3	
RK140814	5/20/24	5/23/24	CR Workshop B-29	0	1.0 ± 0.4	
RK140832	5/20/24	5/23/24	SEES Storage B-03	0	2.0 ± 0.4	
RK140824	5/20/24	5/23/24	Tech Staging B-21	0	1.5 ± 0.4	
RK140818	5/20/24	5/23/24	115	1	0.6 ± 0.3	
RK140829	5/20/24	5/23/24	105	1	< 0.5	
RK140817	5/20/24	5/23/24	112	1	< 0.4	
RK140863	5/20/24	5/23/24	113	1	< 0.6	
RK140856	5/20/24	5/23/24	116	1	< 0.4	
RK140809	5/20/24	5/23/24	117	1	< 0.6	
RK140810	5/20/24	5/23/24	118	1	0.8 ± 0.3	
RK140834	5/20/24	5/23/24	114	1	0.5 ± 0.3	

Kit Number	Start Date	End Date	Room	Floor	Result (pCi/L)	Comments
RK140842	5/20/24	5/23/24	106	1	< 0.6	
RK140837	5/20/24	5/23/24	102	1	< 0.6	
RK140821	5/20/24	5/23/24	150	1	< 0.7	
RK140830	5/20/24	5/23/24	149	1	0.5 ± 0.3	
RK140848	5/20/24	5/23/24	146	1	< 0.7	
RK140855	5/20/24	5/23/24	147	1	< 0.7	
RK140884	5/20/24	5/23/24	148	1	0.7 ± 0.3	
RK140822	5/20/24	5/23/24	125	1	0.7 ± 0.3	
RK140827	5/20/24	5/23/24	119	1	< 0.6	
RK140857	5/20/24	5/23/24	121	1	< 0.5	
RK140860	5/20/24	5/23/24	122	1	< 0.4	
RK140867	5/20/24	5/23/24	123	1	0.5 ± 0.3	
RK140806	5/20/24	5/23/24	124	1	0.5 ± 0.3	
RK140836	5/20/24	5/23/24	128	1	< 0.5	
RK140820	5/20/24	5/23/24	145	1	0.5 ± 0.3	
RK140876	5/20/24	5/23/24	142	1	< 0.6	
RK140868	5/20/24	5/23/24	129	1	< 0.9	
RK140864	5/20/24	5/23/24	136	1	< 0.6	
RK140872	5/20/24	5/23/24	137	1	< 0.5	
RK140815	5/20/24	5/23/24	138	1	< 0.5	
RK140852	5/20/24	5/23/24	139	1	< 0.7	
RK140859	5/20/24	5/23/24	134A	1	0.5 ± 0.3	
RK140844	5/20/24	5/23/24	104	1	0.6 ± 0.3	
RK140890	5/20/24	5/23/24	103	1	0.6 ± 0.3	
RK140831	5/20/24	5/23/24	Facilities B-15	0	< 0.5	Duplicate Device RPD: NA
RK140840	5/20/24	5/23/24	CR Storage B-14	0	0.8 ± 0.3	Duplicate Device RPD: NA
RK140871	5/20/24	5/23/24	CR Workshop B-29	0	< 0.6	Duplicate Device RPD: NA
RK140823	5/20/24	5/23/24	116	1	0.5 ± 0.3	Duplicate Device RPD: NA
RK140826	5/20/24	5/23/24	102	1	0.9 ± 0.4	Duplicate Device RPD: NA
RK120411	5/23/24	5/23/24	N/A	N/A	< 0.7	Blank Device
RK120382	5/23/24	5/23/24	N/A	N/A	< 0.6	Blank Device
RK120377	5/23/24	5/23/24	N/A	N/A	< 0.5	Blank Device
RK120448	5/25/24	5/28/24	N/A	N/A	27.0 ± 1.5	Spike Device RPE: 19.47%

Kit Number	Start Date	End Date	Room	Floor	Result (pCi/L)	Comments
RK120464	5/25/24	5/28/24	N/A	N/A	30.0 ± 1.6	Spike Device RPE: 32.74%

Simultaneous measurement results that are between 2.0 pCi/L and 3.9 pCi/L shall agree with a Relative Percent Difference (RPD) of less than (<) 67 percent. RPD is calculated by taking the difference between 2 results, dividing by the average of the results, and multiplying by 100.

Simultaneous measurement results that are greater than or equal to (≥) 4.0pCi/L shall agree with a Relative Percent Difference (RPD) of less than (<) 36 percent. RPD is calculated by taking the difference between 2 results, dividing by the average of the results, and multiplying by 100.

Relative Percentage Error (RPE) is calculated by taking the difference between a measured value and reference value, dividing by the reference, and multiplying by 100. A trend in RPE values that are more than 30% should be investigated.

The following abnormalities were noted during this testing event:

- One of the two detectors spiked for quality assurance/quality control purposes was measured by the laboratory at a radon concentration that exceeded the acceptable allowable Relative Percentage Error (RPE) of 30% when compared to the radon concentration at which the detector was spiked. This may suggest an error in laboratory analysis due to background radiation levels during analysis. Given that the laboratory analyzed the spiked detector at a higher concentration of radon than was present in the chamber during the spiking process, this possible error does not suggest that other detectors were measured at a lower concentration than was present during testing. Therefore, PBS does recommend retesting the building at this time.

In addition to the EPA recommendation that radon concentrations do not exceed 4.0 pCi/L, OHA recommends that the following steps be conducted based on the results of a room’s initial short-term test:

- **If the result is less than 2.0 pCi/L**, school districts are required to test again every 10 years, per Oregon Revised Statute 332.166-167.
- **If the result is between 2.0 pCi/L and 4.0 pCi/L**, consider fixing (i.e., lowering) the radon in that room.
- **If the result is from 4.0 pCi/L to 8.0 pCi/L**, perform a follow-up measurement of that room using a long-term test. This test should be conducted over as much of a nine-month school year as possible, when the room is likely to be occupied. If that result is equal to or greater than 4.0 pCi/L, the radon in the room should be fixed (i.e., lowered).
- **If the initial short-term test result is equal to or greater than 8.0 pCi/L**, conduct a second short-term test and average its result with the initial short-term test result. If the average of the two is equal to or greater than 4.0 pCi/L, radon in the room should be fixed (i.e., lowered).

Note: A great difference in the results of the short-term tests may indicate a flaw in the testing process. Investigate and consider retesting. For situations in which one of the test results is equal to or greater than 4.0 pCi/L, if the higher result is two or more times the lower result, repeat the test.

### LIMITATIONS OF SCOPE

This study was limited to the tests and locations as previously indicated. The site as a whole may have other environmental concerns that will not be characterized by this study. The findings and conclusions of this work are not scientific certainties, but probabilities based on professional judgment concerning the significance of the data gathered during the course of this investigation. PBS is not able to represent conditions on the site or adjoining sites beyond those detected or observed by PBS.

LBLESD  
Main Administration Building – Short-Term Radon Testing  
June 11, 2024  
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Please feel free to contact me at [kennedy.potts@pbsusa.com](mailto:kennedy.potts@pbsusa.com) with any questions or comments.

Sincerely,

Kennedy Potts  
Radon Measurement Professional  
NRPP ID 112977-RMP

Reviewed by: JH

Attachment: Alpha Energy Laboratories Analysis Reports

PBS Engineering  
Kennedy Potts  
"3500 Chad Dr., Suite 100"  
Eugene OR 97408

# 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. **05/24/2024**. They were measured **05/24/2024**.

*No person has signed the record card and verified that the instructions have been followed.*

## Property data and address

MEASURE SITE ADDRESS

97321

BUILDING ID

## Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK140839 [QuickScreen]	05/20/2024 06:15 AM – 05/23/2024 07:49 AM	LBLESD Main Building, Facilities B-15		0.7 ± 0.3 pCi/L
RK140831 [QuickScreen]	05/20/2024 06:15 AM – 05/23/2024 07:49 AM	LBLESD Main Building, Facilities B-15		< 0.5 pCi/L
RK140847 [QuickScreen]	05/20/2024 06:17 AM – 05/23/2024 07:49 AM	LBLESD Main Building, CR Storage B-14		0.6 ± 0.3 pCi/L
RK140840 [QuickScreen]	05/20/2024 06:17 AM – 05/23/2024 07:49 AM	LBLESD Main Building, CR Storage B-14		0.8 ± 0.3 pCi/L
RK140814 [QuickScreen]	05/20/2024 06:22 AM – 05/23/2024 07:51 AM	LBLESD Main Building, CR Workshop B-29		1.0 ± 0.4 pCi/L
RK140871 [QuickScreen]	05/20/2024 06:22 AM – 05/23/2024 07:51 AM	LBLESD Main Building, CR Workshop B-29		< 0.6 pCi/L
RK140832 [QuickScreen]	05/20/2024 06:25 AM – 05/23/2024 07:53 AM	LBLESD Main Building, SEES Storage B-03		2.0 ± 0.4 pCi/L

## Comment to the results

### Trygve Rönnqvist (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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LOMBARD, IL 60148  
331.814.2200, help@radonova.com

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DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK140824 [QuickScreen]	05/20/2024 06:28 AM – 05/23/2024 07:54 AM	LBLESD Main Building, Tach Staging B-21		1.5 ± 0.4 pCi/L
RK140818 [QuickScreen]	05/20/2024 06:33 AM – 05/23/2024 07:15 AM	LBLESD Main Building, 115		0.6 ± 0.3 pCi/L
RK140829 [QuickScreen]	05/20/2024 06:33 AM – 05/23/2024 07:15 AM	LBLESD Main Building, 105		< 0.5 pCi/L
RK140817 [QuickScreen]	05/20/2024 06:34 AM – 05/23/2024 07:16 AM	LBLESD Main Building, 112		< 0.4 pCi/L
RK140863 [QuickScreen]	05/20/2024 06:34 AM – 05/23/2024 07:14 AM	LBLESD Main Building, 113		< 0.6 pCi/L
RK140856 [QuickScreen]	05/20/2024 06:36 AM – 05/23/2024 07:16 AM	LBLESD Main Building, 116		< 0.4 pCi/L
RK140823 [QuickScreen]	05/20/2024 06:36 AM – 05/23/2024 07:16 AM	LBLESD Main Building, 116		0.5 ± 0.3 pCi/L
RK140809 [QuickScreen]	05/20/2024 06:37 AM – 05/23/2024 07:18 AM	LBLESD Main Building, 117		< 0.6 pCi/L
RK140810 [QuickScreen]	05/20/2024 06:38 AM – 05/23/2024 07:19 AM	LBLESD Main Building, 118		0.8 ± 0.3 pCi/L

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RK140834 [QuickScreen]	05/20/2024 06:41 AM – 05/23/2024 07:43 AM	LBLESD Main Building, 114		0.5 ± 0.3 pCi/L
RK140842 [QuickScreen]	05/20/2024 06:42 AM – 05/23/2024 07:44 AM	LBLESD Main Building, 106		< 0.6 pCi/L
RK140837 [QuickScreen]	05/20/2024 06:43 AM – 05/23/2024 07:22 AM	LBLESD Main Building, 102		< 0.6 pCi/L
RK140826 [QuickScreen]	05/20/2024 06:45 AM – 05/23/2024 07:22 AM	LBLESD Main Building, 102		0.9 ± 0.4 pCi/L
RK140821 [QuickScreen]	05/20/2024 06:51 AM – 05/23/2024 07:24 AM	LBLESD Main Building, 150		< 0.7 pCi/L
RK140830 [QuickScreen]	05/20/2024 06:51 AM – 05/23/2024 07:23 AM	LBLESD Main Building, 149		0.5 ± 0.3 pCi/L
RK140848 [QuickScreen]	05/20/2024 06:52 AM – 05/23/2024 07:26 AM	LBLESD Main Building, 146		< 0.7 pCi/L
RK140855 [QuickScreen]	05/20/2024 06:52 AM – 05/23/2024 07:26 AM	LBLESD Main Building, 147		< 0.7 pCi/L
RK140884 [QuickScreen]	05/20/2024 06:53 AM – 05/23/2024 07:26 AM	LBLESD Main Building, 148		0.7 ± 0.3 pCi/L

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RK140822 [QuickScreen]	05/20/2024 06:55 AM – 05/23/2024 07:27 AM	LBLESD Main Building, 125		0.7 ± 0.3 pCi/L
RK140827 [QuickScreen]	05/20/2024 06:56 AM – 05/23/2024 07:28 AM	LBLESD Main Building, 119		< 0.6 pCi/L
RK140857 [QuickScreen]	05/20/2024 06:56 AM – 05/23/2024 07:29 AM	LBLESD Main Building, 121		< 0.5 pCi/L
RK140860 [QuickScreen]	05/20/2024 06:57 AM – 05/23/2024 07:30 AM	LBLESD Main Building, 122		< 0.4 pCi/L
RK140867 [QuickScreen]	05/20/2024 06:57 AM – 05/23/2024 07:30 AM	LBLESD Main Building, 123		0.5 ± 0.3 pCi/L
RK140806 [QuickScreen]	05/20/2024 06:58 AM – 05/23/2024 07:32 AM	LBLESD Main Building, 124		0.5 ± 0.3 pCi/L
RK140836 [QuickScreen]	05/20/2024 06:59 AM – 05/23/2024 07:32 AM	LBLESD Main Building, 128		< 0.5 pCi/L
RK140820 [QuickScreen]	05/20/2024 07:00 AM – 05/23/2024 07:33 AM	LBLESD Main Building, 145		0.5 ± 0.3 pCi/L
RK140876 [QuickScreen]	05/20/2024 07:01 AM – 05/23/2024 07:34 AM	LBLESD Main Building, 142		< 0.6 pCi/L

### Comment to the results

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DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK140868 [QuickScreen]	05/20/2024 07:02 AM – 05/23/2024 07:35 AM	LBLESD Main Building, 129		< 0.9 pCi/L
RK140864 [QuickScreen]	05/20/2024 07:08 AM – 05/23/2024 07:36 AM	LBLESD Main Building, 136		< 0.6 pCi/L
RK140872 [QuickScreen]	05/20/2024 07:08 AM – 05/23/2024 07:36 AM	LBLESD Main Building, 137		< 0.5 pCi/L
RK140815 [QuickScreen]	05/20/2024 07:09 AM – 05/23/2024 07:38 AM	LBLESD Main Building, 138		< 0.5 pCi/L
RK140852 [QuickScreen]	05/20/2024 07:09 AM – 05/23/2024 07:39 AM	LBLESD Main Building, 139		< 0.7 pCi/L
RK140859 [QuickScreen]	05/20/2024 07:10 AM – 05/23/2024 07:40 AM	LBLESD Main Building, 134A		0.5 ± 0.3 pCi/L
RK140844 [QuickScreen]	05/20/2024 07:14 AM – 05/23/2024 07:20 AM	LBLESD Main Building, 104		0.6 ± 0.3 pCi/L
RK140890 [QuickScreen]	05/20/2024 07:14 AM – 05/23/2024 07:42 AM	LBLESD Main Building, 103		0.6 ± 0.3 pCi/L
RK120411 [QuickScreen]	05/20/2024 07:15 AM – 05/23/2024 07:45 AM	LBLESD Main Building, 200		< 0.7 pCi/L

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DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK120382 [QuickScreen]	05/20/2024 07:16 AM – 05/23/2024 07:46 AM	LBLESD Main Building, 201		< 0.6 pCi/L
rk120377 [QuickScreen]	05/20/2024 07:17 AM – 05/23/2024 07:47 AM	LBLESD Main Building, 202		< 0.5 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. The presented results apply only to the samples tested.

## 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-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes*

*ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use 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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331.814.2200, help@radonova.com

# 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. **06/03/2024**. They were measured **06/03/2024**.

*No person has signed the record card and verified that the instructions have been followed.*

## Property data and address

MEASURE SITE ADDRESS

97231

BUILDING ID

## Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	FLOOR	RADON RESULT
RK120448 [QuickScreen]	05/25/2024 07:16 AM – 05/28/2024 07:16 AM	LBLESD, E2 Right		27.0 ± 1.5 pCi/L
RK120464 [QuickScreen]	05/25/2024 07:16 AM – 05/28/2024 07:16 AM	LBLESD, E2 Right		30.0 ± 1.6 pCi/L

## Comment to the results

### Trygve Rönnqvist (Electronically signed)

Signature Radonova Laboratories Laboratory Measurement Specialist

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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. The presented results apply only to the samples tested.

## 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-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes*

*ANSI/AARST MA-MFLB-2023, Protocol for Measurements of Radon in Multifamily, School, Commercial and Mixed-Use Buildings*

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