



November 4, 2019

Dave Peterson  
Hillsboro School District  
4901 SE Witch Hazel Road  
Hillsboro, Oregon 97123

Via email:       petersod@hsd.k12.or.us

Regarding:       District Wide Radon Testing  
                  Lincoln Street Elementary School  
                  801 NE Lincoln Street  
                  Hillsboro, Oregon  
                  PBS Project 23440.024, Phase 0004

Dear Mr. Peterson:

From October 29 to November 1, 2019, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Lincoln Street Elementary School located at 801 NE Lincoln Street in Hillsboro, 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 AirChek, Inc. brand 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.

**Laboratory results indicate all short-term radon tests at Lincoln Street Elementary School were below 4.0 pCi/L.**

See the attached Laboratory Analysis Report for more details.

In addition to the EPA recommendation that radon concentrations not exceed 4.0 pCi/L, OHA recommends 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.

Please feel free to contact me at 503.935.5484 or [dale.voeller@pbsusa.com](mailto:dale.voeller@pbsusa.com) with any questions or comments.

Sincerely,

Dale Voeller, CHMM, CSP  
Senior Project Manager

Attachment: AirChek, Inc Laboratory Analysis Report

Radon test result report for:  
**LINCOLN STREET  
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9227806	CAFETERIA 1	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.3 ± 0.3	2019-11-04
9227805	CAFETERIA 2	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.3 ± 0.3	2019-11-04
9227820	CUSTODIAN OFFICE	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	0.8 ± 0.3	2019-11-04
9227818	GYM 1	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.4 ± 0.3	2019-11-04
9227811	GYM 2	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.2 ± 0.3	2019-11-04
9227810	GYM OFFICE	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.3 ± 0.3	2019-11-04
9227816	HEALTH ROOM	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.8 ± 0.3	2019-11-04
9227804	KITCHEN OFFICE	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.1 ± 0.3	2019-11-04
9227825	KITCHEN OFFICE BLANK	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	< 0.3	2019-11-04
9227819	KITCHEN OFFICE DUP	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.1 ± 0.3	2019-11-04
9227809	MAIN OFFICE	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	0.8 ± 0.3	2019-11-04
9227817	MUSIC ROOM	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.3 ± 0.3	2019-11-04
9227801	PRINCIPAL OFFICE	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.1 ± 0.3	2019-11-04
9227808	ROOM 103	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.2 ± 0.3	2019-11-04
9227812	ROOM 104	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.4 ± 0.3	2019-11-04
9227815	ROOM 105	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.2 ± 0.3	2019-11-04
9227807	ROOM 107	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	3.0 ± 0.4	2019-11-04
9227821	ROOM 147	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	0.8 ± 0.3	2019-11-04
9227822	ROOM 150	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	0.7 ± 0.3	2019-11-04
9227824	ROOM 160	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.2 ± 0.3	2019-11-04
9227814	ROOM 160 OFFICE	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.4 ± 0.3	2019-11-04
9227802	ROOM 161	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	0.8 ± 0.3	2019-11-04
9227823	ROOM 162	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.1 ± 0.3	2019-11-04
9227803	ROOM 163	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	1.0 ± 0.3	2019-11-04
9227813	ROOM 164	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	0.9 ± 0.3	2019-11-04
9227829	ROOM 165	2019-10-29 @ 4:00 pm	2019-11-01 @ 7:00 pm	0.7 ± 0.3	2019-11-04
9227827	ROOM 165 BLANK	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	< 0.3	2019-11-04
9227828	ROOM 165 DUP	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	1.4 ± 0.3	2019-11-04
9227840	ROOM 166	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	0.6 ± 0.3	2019-11-04
9227839	ROOM 167	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	1.0 ± 0.3	2019-11-04
9227838	ROOM 168	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	1.1 ± 0.3	2019-11-04
9227834	ROOM 169	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	0.7 ± 0.3	2019-11-04
9227833	ROOM 170	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	1.4 ± 0.3	2019-11-04
9227837	ROOM 171	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	1.2 ± 0.3	2019-11-04
9227832	ROOM 172	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	0.9 ± 0.3	2019-11-04
9227831	ROOM 173	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	1.0 ± 0.3	2019-11-04
9227826	ROOM 173 DUP	2019-10-29 @ 5:00 pm	2019-11-01 @ 7:00 pm	0.5 ± 0.3	2019-11-04