



November 1, 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  
                  Miller Education Center East  
                  215 SE 6th Avenue  
                  Hillsboro, Oregon  
                  PBS Project 23440.024, Phase 0004

Dear Mr. Peterson:

From October 22 to October 25, 2019, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Miller Education Center (MEC) East, located at 215 SE 6<sup>th</sup> Avenue in Hillsboro, Oregon. The MEC East campus includes a classroom building, cafeteria building, and a Life Skills residence.

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 the MEC East campus 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:**MEC EAST  
MAIN**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9227903	102	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.2 ± 0.3	2019-10-28
9227919	102 BLANK	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	< 0.3	2019-10-28
9227902	103	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	0.9 ± 0.3	2019-10-28
9227926	104	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.3 ± 0.3	2019-10-28
9227925	105	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.0 ± 0.3	2019-10-28
9227920	106	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	0.8 ± 0.3	2019-10-28
9227901	107	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.3 ± 0.3	2019-10-28
9227921	107 DUP	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.2 ± 0.3	2019-10-28
9227905	108	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	0.9 ± 0.3	2019-10-28
9227922	108 QUIET ROOM	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	0.9 ± 0.3	2019-10-28
9227904	109	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	2.8 ± 0.4	2019-10-28
9227912	110	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.6 ± 0.3	2019-10-28
9227911	111	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	0.8 ± 0.3	2019-10-28
9227927	112	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	< 0.3	2019-10-28
9227914	113	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	< 0.3	2019-10-28
9227931	115	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	< 0.3	2019-10-28
9227932	116	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	< 0.3	2019-10-28
9227913	RECEPTION	2019-10-22 @ 1:00 pm	2019-10-25 @ 12:00 pm	1.0 ± 0.3	2019-10-28
9227906	RECEPTION DUP	2019-10-22 @ 1:00 pm	2019-10-25 @ 12:00 pm	1.0 ± 0.3	2019-10-28

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**\*\* LABORATORY ANALYSIS REPORT \*\***

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Radon test result report for:  
**MEC EAST CAFETERIA**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9227930	MAIN	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.5 ± 0.3	2019-10-28
9227934	MAIN	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.6 ± 0.3	2019-10-28
9227933	OFFICE 1	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.8 ± 0.4	2019-10-28
9227936	OFFICE 2	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	2.6 ± 0.4	2019-10-28
9227937	OFFICE 2 DUP	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	2.4 ± 0.4	2019-10-28
9227935	OFFICE 3	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	1.6 ± 0.3	2019-10-28

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Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

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October 31, 2019

**\*\* LABORATORY ANALYSIS REPORT \*\***

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Radon test result report for:

**MEC EAST  
LIFE SKILLS**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9227938	CLASS ROOM	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	2.6 ± 0.4	2019-10-28
9227929	QUIET ROOM	2019-10-22 @ 2:00 pm	2019-10-25 @ 12:00 pm	3.4 ± 0.4	2019-10-28

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