



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  
                  Century High School  
                  2000 SE Century Boulevard  
                  Hillsboro, Oregon  
                  PBS Project 23440.024, Phase 0004

Dear Mr. Peterson:

From October 21 to October 24, 2019, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Century High School located at 2000 SE Century Boulevard 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 Century High 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

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October 31, 2019

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

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Radon test result report for:  
**CENTURY**  
**EARLY EDUCATION**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9227800	OFFICE 1	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227799	OFFICE 1 DUP	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227918	OFFICE 2	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227795	OFFICE 2 BLANK	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227908	ROOM 1	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227907	ROOM 2	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 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

Radon test result report for:**CENTURY  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9227702	ATHLETIC DEP.	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227701	ATHLETIC. DEP. BLANK	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227729	ATTENDANCE MAIN	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227745	AUDITORIUM 1	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227749	AUDITORIUM 2	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227744	BAND ROOM	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227720	BOOKKEEPER	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227704	C143A	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227703	C143B	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227707	C143C	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227710	C143D	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227708	C143F	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227712	C143G	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227713	C143I	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227714	C143J	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227717	C143K	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227732	C144A	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227726	C144E	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227718	C145C	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227719	C145D	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227716	C145F	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227715	C145G	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227709	C145H	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227706	CAREER CENTER	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227705	CAREER CTR DUP	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227756	COMMONS 2	2019-10-21 @ 6:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227764	CUST. OFF. BLANK	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227763	CUST. OFF. DUP	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227762	CUSTODIAL OFFICE	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	0.8 ± 0.3	2019-10-28
9227748	DRAMA OFFICE	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227754	DRAMA ROOM	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227757	ENSAMBLE ROOM	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227755	FACULTY DINING	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227775	GYM 1	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227777	GYM 2	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227731	HEALTH RM	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227765	KITCHEN OFFICE	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28

Radon test result report for:**CENTURY  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9227711	MAIN OFFICE	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227796	MENS LOCKER OFFICE	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227785	N101	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227781	N101A	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227779	N101A BLANK	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227780	N101A DUP	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227782	N102	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227784	N104	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227783	N105	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227786	N109	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227787	N110	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227776	N111	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227793	N112	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227788	N112 DUP	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227778	N114	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227770	N115	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227766	N116	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227771	N117	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227767	N118	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227761	N119	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227769	N119 BLANK	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227768	N120	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227759	N121	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227772	N121 OFFICE	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227760	N122	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227774	N122 DUP	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227773	N123	2019-10-21 @ 6:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227725	OFFICER OFFICE	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227789	P.E. CONFERENCE	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227721	PRINCIPAL OFF.	2019-10-21 @ 4:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227743	S156	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227730	S156 DUP	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227724	S156 OFFICE	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227723	S157	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227741	S158	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227735	S159	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227739	S159 STUDIO	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28

Radon test result report for:**CENTURY  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9227737	S160	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227728	S161	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227734	S162	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227738	S162A	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	1.0 ± 0.3	2019-10-28
9227722	S164	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227727	S165	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227751	S166	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227752	S167	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227747	S171	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	0.6 ± 0.3	2019-10-28
9227742	S172	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227733	S173	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227750	S176	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227753	S177	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227746	S177 DUP	2019-10-21 @ 5:00 pm	2019-10-24 @ 4:00 pm	< 0.3	2019-10-28
9227794	TRAINING ROOM	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227790	TRAINING ROOM DUP	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227792	WEIGHT ROOM	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227798	WEIGHT ROOM OFF. DUP	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227791	WEIGHT ROOM OFFICE	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28
9227797	WOMENS LOCKER RM OFFICE	2019-10-21 @ 7:00 pm	2019-10-24 @ 5:00 pm	< 0.3	2019-10-28