



November 11, 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
Administration Building
3083 NE 49th Place
Hillsboro, Oregon 97124
PBS Project 23440.024, Phase 0004

Dear Mr. Peterson:

Between November 4 and November 7, 2019, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at the Hillsboro School District Administration building located at 3083 NE 49th Place 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 the Administration building 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 with any questions or comments.

Sincerely,

Dale Voeller, CHMM, CSP
Senior Project Manager

Attachment: AirChek, Inc Laboratory Analysis Report

Radon test result report for:
ADMINISTRATION
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9200974	114 OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.5 ± 0.3	2019-11-11
9227887	114 WORK ROOM	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.3	2019-11-11
9200961	120 CONFERENCE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9227886	BAYER OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.6 ± 0.3	2019-11-11
9200995	BELK OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.1 ± 0.4	2019-11-11
9200991	BEVERIDGE OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.5 ± 0.4	2019-11-11
9200988	BUSINESS CONFERENCE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9227885	BUTLER OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.6 ± 0.3	2019-11-11
9227872	COFFMAN OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.7 ± 0.3	2019-11-11
9227878	CROUCH OFF. DUP	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.3	2019-11-11
9227879	CROUCH OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.3	2019-11-11
9200996	CUSTODIAN OFFICE	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	0.9 ± 0.4	2019-11-11
9200960	DRENNEN OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.7 ± 0.3	2019-11-11
9200986	HAATS OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.1 ± 0.4	2019-11-11
9200985	HAGHIGHI OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.3	2019-11-11
9227877	HR CONFERENCE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.0 ± 0.4	2019-11-11
9227876	JANSEN OFF. DUP	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9227880	JANSEN OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.6 ± 0.3	2019-11-11
9200980	JONES OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.9 ± 0.4	2019-11-11
9200971	LUBA OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.4	2019-11-11
9227875	MCCARTHY OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.0 ± 0.3	2019-11-11
9200983	MORRISON OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.7 ± 0.3	2019-11-11
9200966	NASE OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9200972	RECEPTION	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9200984	ROOM 100	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	0.7 ± 0.3	2019-11-11
9200973	ROOM 101	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	1.3 ± 0.4	2019-11-11
9200970	ROOM 103	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	0.7 ± 0.3	2019-11-11
9200976	ROOM 104	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9200965	ROOM 105	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9200992	ROOM 108	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	0.9 ± 0.3	2019-11-11
9200975	ROOM 110	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.7 ± 0.3	2019-11-11
9200969	ROOM 111	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9227881	ROOM 114	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.7 ± 0.3	2019-11-11
9200993	ROOM 116	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	0.6 ± 0.3	2019-11-11
9200998	ROOM 117	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.3	2019-11-11
9200982	ROOM 117 BLANK	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9227871	ROOM 117 DUP	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.0 ± 0.3	2019-11-11

November 11, 2019

**** LABORATORY ANALYSIS REPORT ****

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

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9200981	ROOM 117 OFF BLANK	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	< 0.3	2019-11-11
9200987	ROOM 117 OFF DUP	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.0 ± 0.3	2019-11-11
9200994	ROOM 117 OFFICE	2019-11-04 @ 3:00 pm	2019-11-07 @ 3:00 pm	0.9 ± 0.3	2019-11-11
9200962	ROOM 122	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.4	2019-11-11
9227882	WILLIAMS OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	1.1 ± 0.4	2019-11-11
9227874	WOODARD OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.4	2019-11-11
9227862	ZAVATSKY OFFICE	2019-11-04 @ 4:00 pm	2019-11-07 @ 3:00 pm	0.8 ± 0.3	2019-11-11

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