



November 13, 2018

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
 Rosedale Elementary School
 3901 SE 67th Avenue
 Hillsboro, Oregon
 PBS Project 23440.024, Phase 0003

Dear Mr. Peterson:

From October 29 to November 1, 2018, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Rosedale Elementary School located at 3901 SE 67th Avenue 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 Rosedale Elementary School tested 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

SG::dsv

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

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9123990	162 BLANK	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123959	CAF 1	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123958	CAF 2	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123993	CUSTODIAN DUP	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	0.6 ± 0.2	2018-11-02
9123992	CUSTODIAN OFFICE	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	0.5 ± 0.2	2018-11-02
9123982	GYM 1	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123983	GYM 1 DUP	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123977	GYM 2	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123988	GYM OFFICE	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123962	HEALTH	2018-10-29 @ 1:00 pm	2018-11-01 @ 12:00 pm	< 0.3	2018-11-02
9123997	KITCH. OFF. BLAN	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123987	KITCHEN OFFICE	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123961	MAIN OFFICE	2018-10-29 @ 1:00 pm	2018-11-01 @ 12:00 pm	< 0.3	2018-11-02
9123991	MUSIC ROOM	2018-10-29 @ 2:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123956	OFFICE WORK ROOM	2018-10-29 @ 1:00 pm	2018-11-01 @ 12:00 pm	< 0.3	2018-11-02
9123967	ROOM 103	2018-10-29 @ 1:00 pm	2018-11-01 @ 12:00 pm	< 0.3	2018-11-02
9123960	ROOM 105	2018-10-29 @ 1:00 pm	2018-11-01 @ 12:00 pm	< 0.3	2018-11-02
9123955	ROOM 107	2018-10-29 @ 1:00 pm	2018-11-01 @ 12:00 pm	< 0.3	2018-11-02
9123972	ROOM 115	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123973	ROOM 116	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123966	ROOM 116 DUP	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123969	ROOM 117	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123964	ROOM 150C	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123963	ROOM 151	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123981	ROOM 151D	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123974	ROOM 152	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123971	ROOM 153	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123975	ROOM 156	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	0.6 ± 0.2	2018-11-02
9123970	ROOM 157	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123976	ROOM 158	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123980	ROOM 159	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	0.6 ± 0.2	2018-11-02
9123979	ROOM 159 DUP	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	0.6 ± 0.2	2018-11-02
9123965	ROOM 160	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123978	ROOM 162	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123985	ROOM 163	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	0.5 ± 0.2	2018-11-02
9123984	ROOM 164	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	< 0.3	2018-11-02
9123986	ROOM 164 WRK RM	2018-10-29 @ 1:00 pm	2018-11-01 @ 1:00 pm	0.5 ± 0.2	2018-11-02

November 2, 2018

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
ROSEDALE
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9123957	STAFF LOUNGE	2018-10-29 @ 1:00 pm	2018-11-01 @ 12:00 pm	< 0.3	2018-11-02

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