



November 7, 2017

Casey Waletich
Executive Director of Facilities, Safety, and Operations
Hillsboro School District
4901 SE Witch Hazel Road
Hillsboro, Oregon 97123

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

Regarding: District Wide Radon Testing
Lenox Elementary School
21200 NW Rock Creek Boulevard
Portland, Oregon
PBS Project 23440.024, Phase 0002

Dear Mr. Waletich:

From October 9 to October 12, 2017, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Lenox Elementary School located at 21200 NW Rock Creek Boulevard in Portland, 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 Air Chek, 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 Lenox 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 503.417.7694 or chris.boyce@pbsusa.com with any questions or comments.

Sincerely,



Chris Boyce
Project Manager

Attachment: AirChek, Inc Laboratory Analysis Report

CB::bmp

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

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7888911	ADMIN AREA	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.2 ± 0.3	2017-10-16
7888914	CAFETERIA SE	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.3 ± 0.3	2017-10-16
7888913	CAFETERIA SW	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.0 ± 0.3	2017-10-16
7888939	CLR 1	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	0.7 ± 0.3	2017-10-16
7888916	CLR 10	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.3 ± 0.3	2017-10-16
7888921	CLR 11	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.6 ± 0.4	2017-10-16
7888952	CLR 12	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	0.9 ± 0.3	2017-10-16
7888934	CLR 13	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	0.6 ± 0.3	2017-10-16
7888942	CLR 14	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	1.1 ± 0.3	2017-10-16
7888951	CLR 14 DUP	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	0.8 ± 0.3	2017-10-16
7888945	CLR 15	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.1 ± 0.3	2017-10-16
7888943	CLR 16	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.0 ± 0.3	2017-10-16
7888944	CLR 17	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.2 ± 0.3	2017-10-16
7888938	CLR 18	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	0.9 ± 0.3	2017-10-16
7888936	CLR 19	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.0 ± 0.3	2017-10-16
7888926	CLR 2	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	0.8 ± 0.3	2017-10-16
7888932	CLR 2 DUP	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.4 ± 0.3	2017-10-16
7888935	CLR 20	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	0.8 ± 0.3	2017-10-16
7888933	CLR 3	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	1.7 ± 0.4	2017-10-16
7888925	CLR 4	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.7 ± 0.4	2017-10-16
7888931	CLR 5	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.0 ± 0.3	2017-10-16
7888924	CLR 6	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.4 ± 0.4	2017-10-16
7888918	CLR 7	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.7 ± 0.4	2017-10-16
7888922	CLR 8	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	1.6 ± 0.4	2017-10-16
7888923	CLR 9	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	2.1 ± 0.4	2017-10-16
7888953	CUST. DUP	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.0 ± 0.3	2017-10-16
7888946	CUSTODIAL	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	0.8 ± 0.3	2017-10-16
7888920	GYM	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	0.8 ± 0.3	2017-10-16
7888927	GYM	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	< 0.3	2017-10-16
7888937	GYM OFFICE	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	0.7 ± 0.3	2017-10-16
7888917	KITCHEN DESK	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	< 0.3	2017-10-16
7888940	LIBRARY	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.5 ± 0.3	2017-10-16
7888941	LIBRARY BLANK	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	< 0.3	2017-10-16
7888928	LIBRARY DUP	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.4 ± 0.3	2017-10-16
7888947	LIBRARY WKRM	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.1 ± 0.3	2017-10-16
7888915	MUSIC ROOM	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	2.3 ± 0.4	2017-10-16
7888919	PEER HELPER OFFI	2017-10-09 @ 11:00 am	2017-10-12 @ 10:00 am	0.9 ± 0.3	2017-10-16

October 17, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

LENOX

MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7888912	PRINCIPAL OFFICE	2017-10-09 @ 10:00 am	2017-10-12 @ 10:00 am	0.6 ± 0.3	2017-10-16
7888930	SPED OFFICE	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.1 ± 0.3	2017-10-16
7888929	SPED ROOM	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	1.0 ± 0.3	2017-10-16
7888959	STAFF LOUNGE	2017-10-09 @ 11:00 am	2017-10-12 @ 11:00 am	0.6 ± 0.3	2017-10-16

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