



February 4, 2020

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  
                  Poynter Middle School  
                  1535 NE Grant Street  
                  Hillsboro, Oregon 97124  
                  PBS Project 23440.024, Phase 0004

Dear Mr. Peterson:

From January 13 to 16, and from January 27 to 30, 2020, PBS Engineering and Environmental Inc. (PBS) performed short term radon testing at Poynter Middle School in Hillsboro, Oregon. Twelve radon test kits were found to be missing or damaged after initial testing, necessitating retesting of those areas.

**Laboratory results indicate all short-term radon tests at Poynter Middle School were below 4.0 pCi/L.**

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.

See the attached Laboratory Analysis Reports 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:**POYNTER  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9314145	AVID OFFICE	2020-01-13 @ 6:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314102	AVID ROOM	2020-01-13 @ 6:00 pm	2020-01-16 @ 8:00 pm	0.5 ± 0.3	2020-01-20
9314123	BAND OFFICE	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314127	BAND ROOM	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314125	BAND ROOM DUP	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314128	CAFETERIA 1	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314140	CAFETERIA 2	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314109	CONFERENCE 129	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314157	COUNSELING CONF. RM	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	0.5 ± 0.3	2020-01-20
9314155	COUNSELING GROUP RM	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	0.9 ± 0.3	2020-01-20
9314149	COUNSELING HARVEY	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314148	COUNSELING MAIN	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	0.6 ± 0.3	2020-01-20
9314150	COUNSELING MYERS	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	0.6 ± 0.3	2020-01-20
9314156	COUNSELING OFF. 1	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314141	CUSTODIAL OFFICE	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314132	DRAMA ROOM	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314114	GIRLS LOCKER RM OFFICE	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314105	GYMNASTICS ROOM	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	0.6 ± 0.3	2020-01-20
9314198	HEALTH DUP	2020-01-13 @ 8:00 pm	2020-01-16 @ 7:00 pm	1.1 ± 0.4	2020-01-20
9314126	HEALTH ROOM	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	1.1 ± 0.3	2020-01-20
9314133	KITCHEN OFFICE	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314110	LARGE GYM 1	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314111	LARGE GYM 2	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314167	LIBRARY 1	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.9 ± 0.3	2020-01-20
9314165	LIBRARY 1 DUP	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.9 ± 0.3	2020-01-20
9314168	LIBRARY 2	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	1.0 ± 0.3	2020-01-20
9314158	LIBRARY CLASSROOM	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.6 ± 0.3	2020-01-20
9314120	OFF. BREAK ROOM	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314121	OFFICE 125	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	0.6 ± 0.3	2020-01-20
9314122	OFFICE 126	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	0.9 ± 0.3	2020-01-20
9314107	OFFICE 127	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314108	OFFICE 128	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	0.8 ± 0.3	2020-01-20
9314142	OFFICE WORK ROOM	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	0.7 ± 0.3	2020-01-20
9314154	ROOM 1	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314170	ROOM 1 BLANK	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314172	ROOM 1 DUP	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314152	ROOM 11	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20

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Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9314162	ROOM 12	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314163	ROOM 13	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314164	ROOM 14	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314159	ROOM 15	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.6 ± 0.3	2020-01-20
9314171	ROOM 16	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314160	ROOM 17	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314192	ROOM 19	2020-01-13 @ 7:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314153	ROOM 2	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314188	ROOM 20	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314190	ROOM 21	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314191	ROOM 22	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314176	ROOM 23	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.5 ± 0.3	2020-01-20
9314181	ROOM 24	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.7 ± 0.3	2020-01-20
9314187	ROOM 24C	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314186	ROOM 24C DUP	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.9 ± 0.3	2020-01-20
9314185	ROOM 24D	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.5 ± 0.3	2020-01-20
9314197	ROOM 24D DUP	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.9 ± 0.3	2020-01-20
9314184	ROOM 24E	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	1.0 ± 0.3	2020-01-20
9314183	ROOM 24F	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.6 ± 0.3	2020-01-20
9314182	ROOM 24G	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.8 ± 0.3	2020-01-20
9314189	ROOM 25	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.7 ± 0.3	2020-01-20
9314177	ROOM 26	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314175	ROOM 27	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314180	ROOM 28	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314179	ROOM 29	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314103	ROOM 3	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314178	ROOM 30	2020-01-13 @ 7:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314106	ROOM 31	2020-01-13 @ 6:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314112	ROOM 31 OFFICE	2020-01-13 @ 6:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314146	ROOM 35	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314147	ROOM 36	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314139	ROOM 37	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314136	ROOM 39	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314104	ROOM 4	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314135	ROOM 40	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314131	ROOM 42	2020-01-13 @ 5:00 pm	2020-01-16 @ 7:00 pm	1.0 ± 0.4	2020-01-20
9314143	ROOM 5	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20

Radon test result report for:

**POYNTER  
MAIN**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9314144	ROOM 6	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314169	ROOM 7A	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	0.7 ± 0.3	2020-01-20
9314151	ROOM 8	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314166	ROOM 9	2020-01-13 @ 7:00 pm	2020-01-16 @ 8:00 pm	< 0.3	2020-01-20
9314115	SMALL GYM 1	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314116	SMALL GYM 2	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314194	STAFF ROOM BLANK	2020-01-13 @ 8:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314195	STAFF ROOM DUP	2020-01-13 @ 8:00 pm	2020-01-16 @ 7:00 pm	0.6 ± 0.3	2020-01-20
9314119	WOOD SHOP CLASSROOM 1	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314117	WOODSHOP CLASSROOM 2	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20
9314118	WRESTLING ROOM	2020-01-13 @ 6:00 pm	2020-01-16 @ 7:00 pm	< 0.3	2020-01-20

February 4, 2020

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

Radon test result report for:  
**POYNTER MS REHANG  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9370109	BOYS LR OFFICE	2020-01-27 @ 5:00 pm	2020-01-30 @ 10:00 am	0.8 ± 0.3	2020-02-03
9370110	MAIN OFFICE	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	0.7 ± 0.3	2020-02-03
9370112	MAIN OFFICE BLANK	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	< 0.3	2020-02-03
9370111	MAIN OFFICE DUP	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	1.0 ± 0.3	2020-02-03
9370114	ROOM 10	2020-01-27 @ 5:00 pm	2020-01-30 @ 10:00 am	< 0.3	2020-02-03
9370115	ROOM 18	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	< 0.3	2020-02-03
9370104	ROOM 38	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	< 0.3	2020-02-03
9370105	ROOM 41	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	1.9 ± 0.4	2020-02-03
9370107	ROOM 41 BLANK	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	< 0.3	2020-02-03
9370106	ROOM 41 DUP	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	1.8 ± 0.4	2020-02-03
9370113	ROOM 7	2020-01-27 @ 4:00 pm	2020-01-30 @ 10:00 am	0.5 ± 0.3	2020-02-03
9370108	WOOD SHOP	2020-01-27 @ 5:00 pm	2020-01-30 @ 10:00 am	< 0.3	2020-02-03

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