



April 21, 2020

Ivan Leigh  
Woodburn School District Facilities  
1390 Meridian Drive  
Woodburn, Oregon 97071

Via email: ileigh@woodburnsd.org

Regarding: District Wide Radon Testing  
French Prairie Middle School  
1025 N Boones Ferry Road  
Woodburn, Oregon  
PBS Project 25453.007

Dear Mr. Leigh:

From March 10 to March 13, 2020, PBS Engineering and Environmental Inc. (PBS) performed short-term radon testing at French Prairie Middle School located at 1025 N Boones Ferry Road in Woodburn, 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 French Prairie Middle 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 do 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 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 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 503.209.1500 or Rich.Dufresne@pbsusa.com with any questions or comments.

Sincerely,

Rich Dufresne  
Senior Project Manager

Attachment: AirChek, Inc., Laboratory Analysis Report

BC:RD:mo

Radon test result report for:  
**FRENCH PRARIE M.S.**  
**MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9314046	BOYS LOCKER ROOM OFFICE	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314023	COMMONS 1	2019-12-04 @ 3:00 pm	2019-12-06 @ 6:00 pm	0.6 ± 0.3	2019-12-09
9314024	COMMONS 2	2019-12-04 @ 3:00 pm	2019-12-06 @ 6:00 pm	0.9 ± 0.3	2019-12-09
9314294	CORTES OFFICE	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.0 ± 0.3	2019-12-09
9314079	GIRLS LOCKER ROOM OFF	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314071	GYM 1	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314067	GYM 2	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.9 ± 0.3	2019-12-09
9314288	HEALTH ROOM	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.4 ± 0.3	2019-12-09
9314030	LIBRARY 1	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.7 ± 0.3	2019-12-09
9314029	LIBRARY 2	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.3 ± 0.3	2019-12-09
9314028	LIBRARY PRODUCTION	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.7 ± 0.3	2019-12-09
9314295	MAIN OFFICE	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.0 ± 0.3	2019-12-09
9314290	MAIN OFFICE DUP	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	0.7 ± 0.3	2019-12-09
9314297	MR. O OFFICE	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	0.9 ± 0.3	2019-12-09
9314299	PRINCIPAL OFFICE	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.1 ± 0.3	2019-12-09
9314292	RAMIREZ OFF. BLANK	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	< 0.3	2019-12-09
9314289	RAMIREZ OFFICE	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.0 ± 0.3	2019-12-09
9314060	ROOM 10	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.1 ± 0.3	2019-12-09
9314058	ROOM 11	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.8 ± 0.3	2019-12-09
9314049	ROOM 12	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.6 ± 0.3	2019-12-09
9314048	ROOM 12W	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.3 ± 0.3	2019-12-09
9314057	ROOM 13	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.9 ± 0.3	2019-12-09
9314061	ROOM 13 DUP	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.8 ± 0.3	2019-12-09
9314025	ROOM 16	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.1 ± 0.3	2019-12-09
9314037	ROOM 2	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	0.8 ± 0.3	2019-12-09
9314042	ROOM 20	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	0.6 ± 0.3	2019-12-09
9314075	ROOM 24	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.8 ± 0.3	2019-12-09
9314074	ROOM 24 OFFICE	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314073	ROOM 25	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.8 ± 0.3	2019-12-09
9314040	ROOM 28	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314059	ROOM 28 DUP	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314041	ROOM 29	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	0.9 ± 0.3	2019-12-09
9314036	ROOM 3	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.2 ± 0.3	2019-12-09
9314045	ROOM 30	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	0.8 ± 0.3	2019-12-09
9314055	ROOM 31	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314054	ROOM 32	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	0.7 ± 0.3	2019-12-09
9314051	ROOM 33	2019-12-04 @ 4:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09

Radon test result report for:  
**FRENCH PRARIE M.S.**  
**MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9314053	ROOM 35	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.3 ± 0.3	2019-12-09
9314052	ROOM 36	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314047	ROOM 38	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.9 ± 0.3	2019-12-09
9314035	ROOM 4	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.9 ± 0.3	2019-12-09
9314056	ROOM 40	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314027	ROOM 41	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314070	ROOM 42	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.9 ± 0.3	2019-12-09
9314069	ROOM 43	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.8 ± 0.3	2019-12-09
9314068	ROOM 44	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.0 ± 0.3	2019-12-09
9314066	ROOM 45	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314064	ROOM 46	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314065	ROOM 47	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.9 ± 0.3	2019-12-09
9314063	ROOM 48	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.8 ± 0.3	2019-12-09
9314034	ROOM 5	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.9 ± 0.3	2019-12-09
9314072	ROOM 51	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314078	ROOM 52	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314032	ROOM 6	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.8 ± 0.3	2019-12-09
9314031	ROOM 7	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.2 ± 0.3	2019-12-09
9314026	ROOM 8	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	0.8 ± 0.3	2019-12-09
9314296	ROOM 9	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.5 ± 0.3	2019-12-09
9314044	ROOM CF2	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.5 ± 0.3	2019-12-09
9314039	ROOM MC1	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.3 ± 0.3	2019-12-09
9314038	ROOM MC2	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.3 ± 0.3	2019-12-09
9314043	ROOM MC3	2019-12-04 @ 4:00 pm	2019-12-06 @ 5:00 pm	1.0 ± 0.3	2019-12-09
9314300	ROOM1	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.2 ± 0.3	2019-12-09
9314033	STAFF ROOM	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	0.9 ± 0.3	2019-12-09
9314298	STAFF WORK ROOM	2019-12-04 @ 3:00 pm	2019-12-06 @ 5:00 pm	1.0 ± 0.3	2019-12-09

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April 6, 2020

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

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Radon test result report for:  
**FRENCH PRARIE**  
**MAIN**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9378267	102	2020-03-10 @ 1:00 pm	2020-03-13 @ 11:00 am	< 0.3	2020-03-16
9378268	34	2020-03-10 @ 1:00 pm	2020-03-13 @ 11:00 am	0.6 ± 0.3	2020-03-16

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

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April 17, 2020

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

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Radon test result report for:  
**FRENCH PRARIE M.S.  
PORTABLES**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9314090	ROOM 101	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314077	ROOM 102 DUP	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.7 ± 0.3	2019-12-09
9314082	ROOM 103	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314076	ROOM 103 DUP	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	1.1 ± 0.3	2019-12-09
9314091	ROOM 104	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.9 ± 0.3	2019-12-09
9314085	ROOM 104 BLANK	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	< 0.3	2019-12-09
9314084	ROOM 104 DUP	2019-12-04 @ 5:00 pm	2019-12-06 @ 6:00 pm	0.6 ± 0.3	2019-12-09

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