

INDUSTRIAL HYGIENE REPORT

RADON TESTING REPORT

Sprague High School

Report to: Vonnie B. Good, EHS Salem Keizer School District

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On-site: March 14-17, 2017

Report: April 10, 2017

PURPOSE

After initial testing showed radon levels above EPA's Action Level of 4.0 picoCuries/L (pCi/L) in a number of rooms at Sprague High School, three radon mitigation systems were installed in August of 2012. To ensure that the systems are functioning properly and levels are well below EPA's Action Level, annual radon testing is performed.

CONCLUSION

All tested locations had very low levels of radon.

TESTING

Radon testing was conducted using protocols recommended by the Oregon Health Authority per ORS 332.166-.167. Radon Air-Chek short-term test devices were used in the rooms by suspending the device in each room. The testing occurred from March 14-17, 2017, during normal and routine school ventilation system operation, as well as with the radon mitigation system in operation.

Quality assurance testing was also conducted by utilizing blank, duplicate, and spiked samples per the recommendations found in ORS 332.166-.167. Test kits labeled "Check In" rooms, are the blanks. They tested at <0.3 pCi/L, confirming the lab results.

EPA RADON GUIDELINES

The EPA has set an Action Level of 4.0 pCi/L (picoCuries per liter) for schools. If classrooms or buildings have radon levels at or above 4.0 pCi/L, EPA recommends that schools take action to reduce the level. These actions include:

Step 1 If your result is 4.0 pCi/L or higher take a follow-up test (Step 2) to be sure.

Step 2. Follow up with either a long-term test or a second short-term test.

The World Health Organization has set their action level at 2.7 pCi/L. Salem Keizer School District has determined that 2.7 pCi/L is a target level where retesting should be done.

CONTROL OF RADON LEVELS IN SCHOOLS

The major control mechanism for lowering radon levels within school buildings is the use of dilution ventilation. If the amount of outside air delivered into a building increases, the radon levels should decrease. At Sprague, increased ventilation wasn't sufficient, so sub-slab radon mitigation systems were installed.

Sample Data Attached

March 24, 2017

**** LABORATORY ANALYSIS REPORT ****

Pg 1 of 1

I5068 / VONNIE GOOD

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
7854724	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	114		1	1.2
7854725	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	116		1	0.8
7854726	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	118		1	0.8
7854727	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	119		1	1.0
7854728	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	119		1	1.0
7854729	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	117		1	1.1
7854730	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	121		1	0.7
7854731	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	122		1	0.7
7854732	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	123		1	0.8
7854733	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	124		1	0.9
7854734	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	1		0	< 0.3
7854735	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	2		0	< 0.3
7854736	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	4		0	0.7
7854737	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	6		0	0.6
7854738	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	8		0	0.5
7854739	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	10		0	< 0.3
7854740	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	11		0	0.6
7854741	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	12		0	< 0.3
7854742	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	14		0	< 0.3
7854743	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	14		0	< 0.3
7854744	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	15A		0	1.4
7854745	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	CHECK IN		0	< 0.3
7854746	2017-03-14	9:00 am	2017-03-17	11:00 am	70	SCHOOL	SPRAGUE	CHECK IN		0	< 0.3