

INDUSTRIAL HYGIENE REPORT

RADON TESTING REPORT

Lake Labish School

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

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On-site: November 18–21, 2019

Report: December 2, 2019

PURPOSE

Radon retesting was done at Lake Labish to determine if there have been any changes in the background radon levels in the classrooms, offices and of other rooms that are in contact with the ground. This is a requirement in ORS 332 Healthy and Safe Schools Plan rules.

CONCLUSION

All tested rooms continue to have 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 November 18-21, 2019 during normal and routine school ventilation system operation. Weather conditions during the weeks prior of testing had been generally dry with moderate temperatures.

Quality assurance testing was also conducted by utilizing laboratory spiked test devices, (QCS), blank (QCB) test devices, and duplicate samples per the recommendations found in ORS 332.166-167. QCS1 is the spiked test kit and does not represent a radon level in the school.

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.

Sample Data Attached

Radon test result report for:
SK
LAKE LABISH

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9304944	KITCHEN	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	1.5 ± 0.3	2019-11-25
9304940	MAIN OFFICE	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	1.0 ± 0.3	2019-11-25
9304948	MULTIPURPOSE RM	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	1.5 ± 0.3	2019-11-25
9304973	QCB1	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	< 0.3	2019-11-25
7274552	QCS1	2019-11-17 @ 8:00 am	2019-11-20 @ 8:00 am	26.5 ± 1.6	2019-11-25
9304947	RM 1	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	1.3 ± 0.3	2019-11-25
9304945	RM 103	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	1.3 ± 0.3	2019-11-25
9304946	RM 2	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	2.1 ± 0.3	2019-11-25
9304941	TEACHER OFFICE	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	1.3 ± 0.3	2019-11-25
9304942	TUTOR OFFICE	2019-11-18 @ 10:00 am	2019-11-21 @ 11:00 am	1.0 ± 0.3	2019-11-25