

# INDUSTRIAL HYGIENE REPORT

## RADON TESTING REPORT

### West High School

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

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On-site: January 5–8, 2016

Report: January 13, 2016

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#### PURPOSE

Radon monitoring was done to measure the background levels in classrooms 117 and 105 to determine if the radon levels are remaining below the EPA's Action Level after installation of the radon mitigation system.

#### CONCLUSION AND RECOMMENDATION

Classroom 117 had very low levels of radon. Two test locations were still elevated, office 105A @4.7 pCi/L, and the classroom105 @3.7 pCi/L.

It is recommended that the operation of the ventilation systems for the classroom and office should be checked to make sure that the amount of outdoor air supplied has not been shut off. If possible increase the amount of outdoor air to these rooms, then retest these rooms for radon levels.

#### TESTING

Radon Air-Chek short-term test devices were used in the rooms by suspending the device in each room. The testing occurred from January 5-8, 2016, during normal and routine school ventilation system operation, as well as with the radon mitigation system in operation.

#### EPA RADON GUIDELINES

Salem Keizer School District has determined that 2.7 pCi/L is a target level where retesting should be done.

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:

## 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. A subslab depressurization system was installed in in this school.

### Sample Data Attached

Radon test result report for:  
SK  
WEST

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Kit #	Room Id	Started	Ended	pCi/L	Analyzed
4925941	105	2016-01-05 @ 11:00 am	2016-01-08 @ 3:00 pm	3.7 ± 0.4	2016-01-12
4925939	105A	2016-01-05 @ 11:00 am	2016-01-08 @ 3:00 pm	4.7 ± 0.4	2016-01-12
4925940	105B	2016-01-05 @ 11:00 am	2016-01-08 @ 3:00 pm	2.1 ± 0.3	2016-01-12
4925942	105C	2016-01-05 @ 11:00 am	2016-01-08 @ 3:00 pm	2.4 ± 0.3	2016-01-12
4925938	117	2016-01-05 @ 11:00 am	2016-01-08 @ 3:00 pm	0.7 ± 0.3	2016-01-12

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