

11 Scarselli Elementary School

11.1 Summary



Short-term radon measurements were conducted in this school from March 18-20, 2009. The results obtained from these tests reflect the conditions that existed within this school and within these dates.

Tests were conducted in accordance with the US EPA's Guidance Document Radon Measurements in Schools, Revised Edition, EPA 402-R-92-014, July 1993.

These tests included all frequently occupied ground floor rooms within all structures on the campus. Additional details on the methodology of these tests as well as room selection can be found in Section 1.2 of this report.

Locations tested:	56
Locations where devices retrieved:	56
Locations with short-term results at or above 4.0 pCi/L:	0
Rooms at or above 4.0 pCi/L:	Not applicable
Survey anomalies:	None observed

Quality control and quality assurance measures that were taken for this school, which are detailed in Section 13, indicate that confidence can be placed in the survey results for this facility.

11.2 Results

The results provided below in both tabular and pictorial form represent the radon levels within these locations that were present at the time of the survey and under the condition in which the building was being operated, including its HVAC system. There are no locations that were at or above the 4.0 pCi/L action level.

All times indicated are Eastern Daylight Savings Time. Results indicated as <0.3 pCi/L are at the lower level of detection for the devices.

Table 12: Scarselli Elementary School Radon Survey Results

Room	Device	Start Date	Start Time	End Date	End Time	Result (pCi/L)
A1	4266755	2009-03-18	9:00 pm	2009-03-21	12:00 am	0.7
A2	4328622	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
A3	4328362	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
A4	4328347	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
A5	4328329	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
A6	4328393	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
A7	4328353	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
A8	4328394	2009-03-18	9:00 pm	2009-03-21	12:00 am	0.7
A9	4266751	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
A10	4328395	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
B1	4328355	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
B2	4328358	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
B3	4328366	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.7
B4	4266747	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
B5	4328340	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.5
B6	4328335	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.5
B7	4328387	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
B8	4328368	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
B9	4266731	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
C1	4266730	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.6
C2	4266728	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.7
C3	4266732	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
C4	4328333	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.5
C5	4266734	2009-03-18	9:00 pm	2009-03-20	11:00 pm	1.0
C6	4266774	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
C7	4266763	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
C8	4328352	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.6
C9	4328360	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.9
C10	4266727	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
K1	4328388	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
K2	4266737	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
Attendance	4266739	2009-03-18	8:00 pm	2009-03-20	11:00 pm	0.5
Comm Dev	4266762	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Counselor	4266776	2009-03-18	8:00 pm	2009-03-20	11:00 pm	0.6
Cust Ofc 1	4266733	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Cust Ofc 2	4266750	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.6
Fine Arts	4328367	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Gym 1	4266772	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Gym 2	4266753	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Kitchen	4266752	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Kitchen Ofc	4266757	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Library 1	4266756	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
Library 2	4266767	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.6
Library Ofc 1	4266740	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
Library Ofc 2	4266768	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
Literacy	4266761	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3

Room	Device	Start Date	Start Time	End Date	End Time	Result (pCi/L)
Literacy Ofc	4266736	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.5
Lounge	4266738	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.9
Nurse	4266735	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Ofc Wkroom	4266764	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Principal	4266754	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Psych	4328354	2009-03-18	9:00 pm	2009-03-21	12:00 am	< 0.3
Reception	4266769	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Resource Rm	4266729	2009-03-18	9:00 pm	2009-03-20	11:00 pm	< 0.3
Stage	4328730	2009-03-18	8:00 pm	2009-03-20	11:00 pm	< 0.3
Workroom	4266759	2009-03-18	9:00 pm	2009-03-20	11:00 pm	0.7

11.3 Discussion

It would appear that the potential for radon in this facility, based upon its current operation, is very low. The highest reading observed in this building was 1.0 pCi/L with several locations being at or near the lower level of detection for the devices utilized.

11.4 Recommendations

Due to the acceptable measurements obtained throughout this structure, no specific recommendations are being made, other than to maintain the HVAC system in such a manner as it is currently operating and to insure that adequate fresh air make-up is provided during occupied hours.

Maintenance

The following recommendations are made as a best practice approach for continuing to maintain low radon exposures in this campus.

4. Retest rooms after renovations, which would affect air flow and air supply, occur. This would include but not be limited to situations when:
 - HVAC system is modified, (Retest rooms affected by HVAC that is modified)
 - Partition walls are added within a room,
 - Insure that renovations include provisions for balanced air supply and return from newly created room.
 - Additions occur at this campus, whether they are new buildings or portable classrooms.
5. Maintain fresh air make-up in conformance with ASHRAE standards and state codes for schools and to insure an interior positive building pressure during occupied hours.
6. Develop a database either specifically for this school or district wide for all schools that allows for the retention of future test results that clearly delineate:
 - Location
 - Date of test
 - Purpose of test (routine, post-mitigation or post renovation, etc.)
 - Method by which room nomenclature is maintained or a clear means of determining when names are changed or rooms added.