

### 3 CC Meneley Elementary School

#### 3.1 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, including portable classrooms. 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:	63
Locations where devices retrieved:	63
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 noted

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.

#### 3.2 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 4: CC Meneley Elementary School Radon Survey Results**

Room	Device	Start Date	Start Time	End Date	End Time	Result (pCi/L)
1	4328726	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.7
2	4328747	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.9
3	4328739	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.9
4	4328725	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.6
5	4328744	2009-03-18	8:00 pm	2009-03-20	8:00 pm	1.5
6	4328741	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.8
7	4328735	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.6
8	4328732	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.7
9	4328734	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.7
10	4328736	2009-03-18	8:00 pm	2009-03-20	8:00 pm	< 0.3
11	4328759	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.6
12	4328738	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.7
13	4328793	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.8
14	4328754	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
15	4328722	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.8
16	4328710	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
17	4328717	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
18	4328728	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
19	4328763	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
20	4328702	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
21	4328757	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
22	4328715	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
23	4328721	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.5
24	4328719	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
25	4328701	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
26	4328341	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
28	4328743	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
KA	4328737	2009-03-18	8:00 pm	2009-03-20	8:00 pm	1.1
KA Ofc	4328729	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.9
KB	4328748	2009-03-18	8:00 pm	2009-03-20	8:00 pm	< 0.3
KB Ofc	4328731	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.7
Counselor	4328752	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
Custodian Ofc	4328711	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
First Aid	4328712	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
Grove	4328705	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
GT	4328785	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.8
Gym 1	4328749	2009-03-18	7:00 pm	2009-03-20	7:00 pm	< 0.3
Gym 2	4328713	2009-03-18	7:00 pm	2009-03-20	7:00 pm	1.0
Kitchen	4328756	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.8
Kitchen Ofc	4328762	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
Learn	4328716	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.8
Librarian	4328761	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.9
Library	4328755	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
Library Ofc	4328770	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.5
Lounge	4328742	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
Lounge - A	4328714	2009-03-18	8:00 pm	2009-03-20	8:00 pm	< 0.3

Room	Device	Start Date	Start Time	End Date	End Time	Result (pCi/L)
Music	4328707	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.7
Music Prac 1	4328703	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.5
Music Prac 2	4328764	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.9
Music Prac 3	4328733	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.6
Music Prac 4	4328740	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.9
Ofc Workroom	4328718	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
Office	4328765	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
P1 N	4328760	2009-03-18	8:00 pm	2009-03-20	8:00 pm	< 0.3
P1 S	4328746	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.6
P2 E	4328727	2009-03-18	8:00 pm	2009-03-20	8:00 pm	< 0.3
P2 W	4328745	2009-03-18	8:00 pm	2009-03-20	8:00 pm	< 0.3
Principal	4328758	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
Reception	4328750	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
Rest Area	4328373	2009-03-18	7:00 pm	2009-03-20	8:00 pm	< 0.3
Speech	4328751	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.6
Workroom	4328709	2009-03-18	7:00 pm	2009-03-20	8:00 pm	0.7
Workroom - A	4328789	2009-03-18	8:00 pm	2009-03-20	8:00 pm	0.5



### 3.3 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 1.5 pCi/L with several locations being at or near the lower level of detection for the devices utilized.

No anomalies were identified with this survey.

### 3.4 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.

1. 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.
2. 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.
3. 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.

