

7 Jacks Valley Elementary School

7.1 Summary



Short-term radon measurements were conducted in this school from March 17-19, 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 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.

7.2 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 8: Jacks Valley Elementary School Radon Survey Results

Room	Device	Start Date	Start Time	End Date	End Time	Result (pCi/L)
1	4265528	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
2	4265527	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
3	4265534	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
4	4265532	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
5	4328969	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
6	4265529	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
7	4328478	2009-03-17	9:00 pm	2009-03-20	12:00 am	0.5
8	4328457	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
9	4328486	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
10	4328991	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
11	4328998	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
12	4328962	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
13	4328956	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
14	4328470	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
15	4328487	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
16	4328483	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
17	4328444	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
18	4328485	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
19	4328465	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
20	4328484	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
21	4328477	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
22	4328500	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
23	4328499	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
24	4328498	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
25	4328999	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
26	4328488	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
AV Room	4328474	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Conf Rm	4328986	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Counselor	4328458	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Cust Ofc	4328468	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
EDK	4265523	2009-03-17	9:00 pm	2009-03-20	12:00 am	0.6
EDK Ofc	4265524	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
First Aid	4328473	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Guest	4328497	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Gym 1	4328994	2009-03-17	8:00 pm	2009-03-20	12:00 am	< 0.3
Gym 2	4328995	2009-03-17	8:00 pm	2009-03-20	12:00 am	< 0.3
Hall 13-18	4265515	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Kitchen	4328461	2009-03-17	9:00 pm	2009-03-20	12:00 am	0.6
Kitchen Ofc	4328463	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Library	4328940	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Library Ofc	4328472	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Lit P1	4328987	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Lit P2	4328460	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Lit P3	4328481	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Lit Stor	4328479	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Literacy	4328420	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3

Room	Device	Start Date	Start Time	End Date	End Time	Result (pCi/L)
Literacy Ofc	4328482	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Lounge	4328495	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Nurse	4328471	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Office	4328475	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Office Wkrm	4328438	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Preschool	4265526	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Principal	4328466	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Reception	4328476	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Speech	4328416	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3
Workroom	4328977	2009-03-17	9:00 pm	2009-03-20	12:00 am	< 0.3

7.3 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 0.6 pCi/L with several locations being at or near the lower level of detection for the devices utilized.

7.4 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.

