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March 7, 2017

Gino Faiella, *Director of Facilities*
Newtown Public Schools
Maintenance Department
12 Berkshire Road
Sandy Hook, CT 06482-1398

Dear Mr. Faiella:

The results of recent radon-in-air testing at **Newtown Middle School** are enclosed. You will find one page presented in a format suitable for posting. The radon-in-air concentration is given in the second column labeled “pCi/L” and the location is given in the third column labeled “Room”. Note that the symbol “<” indicates no radon was detected. In that case, the number given (0.3) represents the detection limit.

This round of testing was done in response to the five-year reevaluation protocol contained in guidelines issued by the Connecticut Department of Public Health (CT-DPH) for Connecticut Public Act 03-220, “An Act Concerning Indoor Air Quality in Schools”. Charcoal samplers, manufactured and analyzed by Air-Chek Inc., 1936 Butler Bridge Road, Mills River, NC 28759, were placed in 10% of the rooms tested during the initial round of testing in 2007. Testing took place during a school week with building systems operating normally. Teachers were instructed to keep windows closed during the testing.

The Connecticut guideline for radon-in-air is 4 pCi/L. The Department of Public Health currently feels that no further action is indicated when results this low are obtained. Although exposures in this range do present some risk of lung cancer, no remedial measures are recommended since reduction of levels this low may be impossible to achieve.

All of the results obtained in this survey were below 4 pCi/L.

Sincerely yours,

Mark F. Granville
Senior Consultant

enclosures
MG170014

APPENDIX

Some of the samples listed with the results were collected as part of quality control. These samples fall into two categories: (1) blanks and (2) duplicates.

The blank sample yielded <0.3, indicating this batch of packets was not contaminated and the laboratory did not introduce an upward bias. The blanks are indicated by “BL” following a room designation.

Duplicates were collected by setting two packets 4” apart in one room. The results indicate an overall standard deviation of measurement of less than 0.3 pCi/L.

Duplicate	#1	#2	Mean	StdDev	RPD
main office	0.6	<0.3	<0.45	<0.3	NA

The CT-DPH states that the quality of the results should be questioned if the relative percent difference (RPD) of results over 4.0 pCi/l is 25% or more. Since all of the results for duplicates are less than 4.0 pCi/L, the CT criteria is not applicable. The National Radon Safety Board states that RPD less than 37% is acceptable for results greater than 4 pCi/L and RPD less than 67% is acceptable for results less than 4 pCi/L (excluding non-detects). Since one of the duplicate pair is non-detect, the NRSB criteria is not applicable.

NEWTOWN PUBLIC SCHOOLS / MIDDLE SCHOOL

Kit #	pCi/L	Room	Hours	Started	Ended	Analyzed	NOTES	MST%
7867753	< 0.3	A9	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		4.5%
7867751	< 0.3	B3	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		3.7%
7867744	< 0.3	B4	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		3.7%
7867743	< 0.3	B4 BL	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		2.9%
7867750	< 0.3	B5	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		3.7%
7867749	1.5	C16	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		4.5%
7867748	< 0.3	C22	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		4.5%
7867752	< 0.3	C3	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		4.5%
7867747	< 0.3	D2	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		4.5%
7867745	0.6	MAIN OFFICE	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		3.7%
7867746	< 0.3	MAIN OFFICE	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		4.5%
7867742	< 0.3	POLICE	71	2017-02-28 @ 1:00 pm	2017-03-03 @ 12:00 pm	2017-03-06		3.7%

Air Chek, Inc. 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498