

March 15, 2024

Kildeer Countryside School District # 96
1072 Ivy Hall Lane
Buffalo Grove, IL 60089



816 Burr Oak Drive Westmont, Illinois 60559
Phone: (630) 655-8500 Fax: (630) 655-8724
jmsenviro.com

Attn: Mr. Sam Miranda
Director of Facilities and Transportation

Re: Indoor Radon Screening Report
Twin Grove School
2600 N. Buffalo Grove Road
Buffalo Grove, IL

JMS Project: J-25659

Dear Mr. Miranda:

The following report covers the results of the Radon Screening that JMS Environmental Associates, Ltd. (JMS) performed at the Twin Grove School, 2600 N. Buffalo Grove Road located in Buffalo Grove, Illinois from August 9, 2023 to December 27, 2023.

Radon Facts:

Radon is a naturally occurring radioactive gas. It comes from the natural decay of uranium which is found in the soil and rock all over the United States. Radon travels through soil and enters buildings through cracks and other holes in the foundation. Eventually, it decays into radioactive particles. EPA studies have found that radon concentrations in outdoor air average about 0.4 pCi/L. However, radon and its decay products can accumulate to much higher concentrations inside a building.

Radon is a colorless, odorless, and tasteless. The only way to know whether an elevated level of radon is present in any room of a school is to test. Each frequently occupied room that is in contact with the ground should be measured separately from adjacent rooms.

Sampling:

EPA protocol recommends sampling all frequently used rooms on and below the ground level. Sampling should be performed when windows and doors are more likely to be closed and heating is in operation. This is considered to be the "Closed Conditions" and "worst case" conditions for estimating the highest radon level to which someone may be exposed.

Alpha-track detectors were utilized for this long-term sampling period. This type of detector gives a better estimate of the average radon concentration.

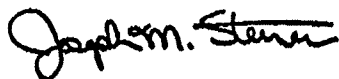
Forty-one(41) locations were sampled ranging from $0.5\pm 10\%$ to $1.4\pm 7\%$. EPA action level is 4pCi/L (picoCuries per liter). This is the level at which EPA Recommends that schools take action to reduce the level.

Conclusion:

Of the 41 samples taken, all were below the EPA action level is 4pCi/L (picoCuries per liter). No action needs to be taken at this time. However, EPA does recommend resampling in the future. Re-sampling should be performed when any major renovation take place, such as ones that effect the foundation, HVAC systems and additions to the structure.

If you have any questions regarding this project survey report, please do not hesitate to contact us at JMS.

Respectfully submitted,
JMS ENVIRONMENTAL ASSOCIATES, LTD.



Joseph M. Sterner, MS
Environmental Director/President

APPENDIX 'A'

Laboratory Report



6312 West Oakton Street
 Morton Grove, IL 60053-2723
 847-965-1999
 Fax 847-965-1991



January 05, 2024

JMS Environmental Associates, Ltd.
 Joyce Ciesla
 816 Burr Oak Drive
 Westmont, IL 60559
 USA

Alpha Track Radon Test Results

Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829371	0.9 ± 8%	Band 44	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829372	0.8 ± 8%	Band 45	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829373	0.8 ± 8%	Band 44A	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829374	0.6 ± 9%	West Gym 1 Near 46 Storage	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829375	0.8 ± 8%	Small Gym	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829386	0.9 ± 8%	Room 31	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829388	1.1 ± 7%	Tech Ed Room 104	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	

Analysis was performed at RSSI's laboratory in Morton Grove, Illinois, which is accredited to the ISO/IEC 17025:2017 standard by PJLA under accreditation number 101315. This analysis was performed under the scope of testing certificate L21-761. Analytical results showing the radon concentration relate only to the device(s) tested in the condition as received by RSSI. Results were calculated based on information provided by the client.

Customer Number:
4160

Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829392	0.8 ± 8%	Room 55	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829393	0.7 ± 9%	Room 52	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829394	0.5 ± 10%	LRC	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829395	1.0 ± 8%	Room 101	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829396	0.8 ± 8%	Room 63	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829397	0.9 ± 8%	Room 66	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829398	0.8 ± 8%	Room 64	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829399	0.7 ± 9%	Room 65	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829400	0.8 ± 8%	Room 61	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829401	0.7 ± 9%	Room 67	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829402	0.7 ± 9%	Room 54	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829403	0.6 ± 9%	Room 51	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829404	0.7 ± 9%	Room 53	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829405	0.9 ± 8%	Room 62	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829406	0.8 ± 8%	Mech 36	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829407	0.9 ± 8%	Mech 37	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829412	0.8 ± 8%	Kitchen 74	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829413	0.6 ± 10%	Cafeterial 30	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829414	0.8 ± 9%	Big Gym 2	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829415	0.7 ± 9%	Kitchen 73	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829416	0.8 ± 8%	Room 103	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829417	1.0 ± 8%	Room 105	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829418	0.7 ± 9%	Tech Ed Room 102	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829419	0.7 ± 9%	Room 106	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829421	0.7 ± 9%	Room 43	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829422	0.7 ± 9%	Orch 43	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829423	1.4 ± 7%	Room 41	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829424	0.8 ± 8%	Room 40 Home EC	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829425	0.8 ± 9%	Room 119	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829426	0.7 ± 9%	Room 121	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829427	0.8 ± 8%	Room 123	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829428	0.8 ± 8%	Room 124	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829429	0.8 ± 8%	Room 125	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	
829430	0.7 ± 9%	Room 122	2600 N. Buffalo Grove Road Buffalo Grove, IL 60089	8/9/2023	12/27/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
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Analyzed By:		01/04/ 2024
	Zoe Darlington Radon Analyst	Analysis Date

END REPORT

* 1-Broken Seal, 2-Damaged Filter, 3-Loose Test Material, 4-Missing Test Material, 5-Missing End Date, 6-Missing Start Date, 7-Less Than 8 Days, 8-Past Expiration Date, 9-Missing Both Dates, NA-No applicable notes

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