

March 15, 2024

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



Attn: Mr. Sam Miranda
Director of Facilities and Transportation

Re: Indoor Radon Screening Report
Kildeer School
3100 Old McHenry Road
Long 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 Kildeer School, 3100 Old McHenry Road located in Long 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.

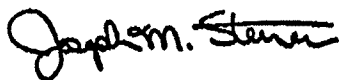
Forty-three (43) locations were sampled ranging from $0.5 \pm 10\%$ to $3.0 \pm 7\%$. EPA action level is 4pCi/L (picoCuries per liter). This is the level at which EPA Recommends that schools take action to reduce the level.

Conclusion:

Of the 43 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*
829226	1.0 ± 8%	LRC Northeast	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829227	1.0 ± 8%	Kitchen South	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829228	1.0 ± 8%	Gym Office	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829230	1.1 ± 7%	LRC West	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829231	1.1 ± 7%	Gym Stage	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829233	1.2 ± 7%	Gym Main	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829234	1.0 ± 8%	Stage	3100 Old McHenry Road Long Grove, IL 60047	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.

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829235	0.9 ± 8%	Cafeteria North	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829236	1.2 ± 7%	Band Room	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829237	1.3 ± 7%	Cafeteria South	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829238	0.7 ± 9%	Office 106	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829239	1.0 ± 8%	Room 104	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829240	0.9 ± 8%	Kitchen North	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829241	0.9 ± 8%	Maintenance Barn - Lunch Room	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829246	0.9 ± 8%	Room 123	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829247	1.2 ± 7%	Room 125	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829248	1.4 ± 7%	Room 004	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829249	1.4 ± 7%	Room 001	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829250	1.2 ± 7%	Room 003	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829251	1.9 ± 6%	Boiler Room North.	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829252	2.7 ± 5%	Boiler Room South	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829253	0.9 ± 8%	Maintenance Barn - Office 1 Northwest	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829254	0.7 ± 9%	Custodian Office	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829255	0.8 ± 8%	Maintenance Barn - Office 2 Northeast	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829256	0.9 ± 8%	Gym Office Wall	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829257	0.8 ± 8%	Gym Clock Wall West	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829258	0.8 ± 8%	Gym West Wall Padding	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829259	0.8 ± 8%	Room 110	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829260	0.8 ± 9%	Room 112	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829261	3.0 ± 5%	Principan's Office	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829262	1.6 ± 6%	Front Office	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	

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Detector Number	pCi/L	Test Location	Test Address	Start Date	End Date	Note*
829263	1.9 ± 6%	Nurse's Office	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829264	0.9 ± 8%	Teacher's Lounge	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829265	1.5 ± 7%	Copy Room	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829266	1.0 ± 8%	Room 116	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829267	0.7 ± 9%	Room 114	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829268	1.0 ± 8%	Room 121	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829269	0.9 ± 8%	Room 118	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829270	0.8 ± 8%	Room 119	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829291	1.0 ± 8%	Room 006	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829293	0.8 ± 8%	Room 009	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829294	0.5 ± 10%	Room 007	3100 Old McHenry Road Long Grove, IL 60047	8/9/2023	12/27/2023	
829295	0.7 ± 9%	Room 008	3100 Old McHenry Road Long Grove, IL 60047	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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3 LOWER LEVEL PLAN - WEST
SCALE: 1/8" = 1'-0"

2 LOWER LEVEL
SCALE: 1/8" = 1'-0"

1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

4 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"