

Sent via electronic mail: aneta.mistak@d214.org

Ms. Aneta Mistak
Assistant Director of Operations
Township High School District 214
2121 S. Goebbert Road
Arlington Heights, IL 60005

**Re: Long Term Radon Testing
Elk Grove High School**

Dear Ms. Mistak:

Date: June 14, 2024

In January 2013, the Illinois Emergency Management Agency (IEMA) enacted new legislation regarding the testing of licensed Day Care Centers and Day Care Homes for Radon. The legislation requires retesting every three (3) years. Signed into law on January 1, 2010, Public Act 96-0417 recommends, requires and/or authorizes the following action with regard to radon and schools in Illinois:

1. Recommends all Illinois school districts test their school buildings every five years.
2. Requires Illinois schools that do test for radon to report the results to the State Board of Education. The State Board of Education will then report radon test data bi-annually to the General Assembly. This data will be made public.

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Ref 1940105696-003

At the request of Township High School District 214 (THSD214), Ramboll Americas Engineering Services, Inc. (Ramboll) retained Radon Detection Specialists, Inc. (RDS) to perform a long-term radon survey at Elk Grove High School (EGHS), 500 W. Elk Grove Blvd., Elk Grove, Illinois. The radon testing included all occupied areas of the high school which previously demonstrated potentially elevated radon levels. None of the potentially elevated areas are used as a day care. Radon Detection Specialists are licensed by the IEMA Department of Nuclear Safety (DNS) for both residential and commercial radon testing. The survey was conducted from February 20 – May 24, 2024.

Radon is an odorless, tasteless, and colorless radioactive gas that comes from the decay of naturally occurring uranium in the soil. At EGHS, forty-nine (49) passive radon detection devices (Alpha Tracks™) were deployed in thirty-eight (38) locations on February 20 and retrieved on May 24, 2024, for this survey. The radon detection devices were placed in the rooms by a State of Illinois Licensed Radon Professional.

Long term radon measurements were determined to be below the United States Environmental Protection Agency (USEPA) and IEMA Division of Nuclear Safety Action Level (AL) of 4.0 picocuries per liter (pCi/L) in 4 locations, including Rooms 109, 123A, 128C, and 128E.. The follow up long-term testing determined radon concentrations were above the USEPA and IEMA AL of 4.0 pCi/L in 31 locations. These locations included Rooms 124, 124 Kitchen, 124B, 124D, 124E, 125, 126A, 126B, 126C, 128, 128D, 131, 131A, 132A, 132B, 133, 133B, 133C, 135, 136B, 137, 139, 140, 140A, 141, 143, 144, 145, 146, 147, 148.

Results ranged from 4.2 to 15.7 pCi/L. The radon detection device deployed in Room 120 was found on the floor and the device in Room 149 was missing. The long-term samples in Rooms 120 and 149 were therefore invalid. Long term tests were not completed by RDS in Rooms 138, 125A, 161C, and 161J. Short term radon tests in these areas were found to be above 4.0 pCi/L.

Attached is the full report forwarded from Radon Detection Specialists outlining basics of radon and radon health impacts, scope of work, quality assurance plan, device results and site notes, summary, and recommendations.

If you have any questions regarding the above report, please do not hesitate to contact our office. Ramboll thanks you for the opportunity to be of continued service to THSD214.

Sincerely,

Ramboll Americas Engineering Solutions, Inc.



Scott C. Fountain
Managing Consultant

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sfountain@ramboll.com

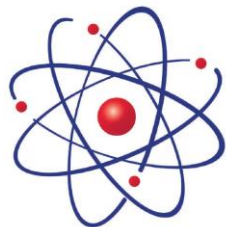
Reviewed and Approved by,



Kevin E. Aikman, Ph.D., CIH, FAIHA
Principal

D 312.288.3808
kaikman@ramboll.com

ATTACHMENT



**RADON
DETECTION
SPECIALISTS**

**RADON TEST REPORT
LONG-TERM MEASUREMENT**

FACILITY NAME: ELK GROVE HIGH SCHOOL

Test Site: 500 West Elk Grove Blvd
Elk Grove Village, IL 60007

Report Date: May 24, 2024

825 North Cass Avenue Suite 310, Westmont, IL 60559
630-325-4443 800-244-4242

www.radondetection.net

office@radondetection.net

Prepared For: Ramboll
Facility Name: Elk Grove High School
Test Site: 500 West Elk Grove Blvd
Elk Grove Village, IL 60007
Test Dates: Tuesday, February 20, 2024 to Friday, May 24, 2024

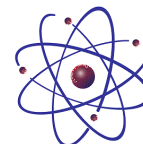
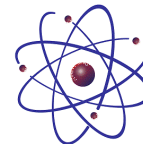


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Section 1.0 Radon Health Effects

Radon is recognized by the Environmental Protection Agency as well as the scientific and medical communities as a Class A carcinogen, accounting for 15,000 – 22,000 lung cancer deaths annually. Exposure to radon gas is the leading cause of lung cancer among non-smokers.

Radon is a naturally occurring, radioactive gas which comes from the soil. It can't be seen, smelled or tasted. The only way to know if the level of radon gas in your building exceeds the recommended Action Level of 4.0 pCi/L is to test. The Department of Nuclear Safety in Illinois requires those testing for radon in commercial buildings, schools and multi-family housing communities, as well as individual residences, to be properly licensed.

The amount of radon in the soil depends on soil chemistry, which naturally varies. Radon levels in the soil can range from a few hundred to several thousands of pCi/L (pico Curies per liter of air). The amount of radon that escapes from the soil and enters the building depends on the weather, soil porosity, soil moisture, and the suction within the building.

Radon is the leading cause of lung cancer among non-smokers.

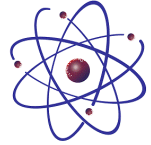
- There is no safe level of radon exposure. Any exposure causes some risk of developing cancer. The National Academy of Sciences (NAS) concluded that only cigarette smoking poses a greater risk. Exposure to radon accounts for 10% of all lung cancer deaths annually.
- As we breathe, the alpha radiation from radon and its decay products cause damage to the sensitive lung tissue. Most of the radiation dose is not actually from radon itself, but rather from radon's chain of short-lived decay products that are inhaled and lodged in the airways of the lungs. These radionuclides decay quickly, producing other radionuclides that continue damaging the lung tissue. Those particles that are retained long enough release radiation and damage the surrounding lung tissue. It is this damage that can lead to lung cancer.

What other health risks are related to radon exposure?

- No other respiratory ailments are linked to radon exposure.
- There are preliminary studies that are looking at the link between radon exposure and the development of Parkinson's and Alzheimer's disease. These are early studies, and research is on-going.



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Facility Name: Elk Grove High School
Test Site: 500 West Elk Grove Blvd
Elk Grove Village, IL 60007
Test Dates: Tuesday, February 20, 2024 to Friday, May 24, 2024



Section 2.0 Radon Testing Protocol for This Site

Pre-Deployment Testing Strategy

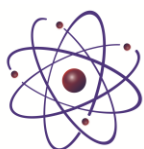
Measurements will be conducted in all areas of the subject building which previously demonstrated potentially elevated radon levels. A minimum of 1 detector will be placed every 2000 square feet in open areas. Measurements will not be conducted in rooms that are not frequently occupied such as closets, storage rooms, restrooms, hallways, and stairwells unless the space is considered alterable for future regular use, or the measurement is taken for diagnostic purposes.

Materials and Methods

RDS will use alpha tracks to measure radon levels in the air in the above referenced property. The test will comply with all protocols set forth by IEMA and ANSI/AARST, as well as the RDS Quality Assurance Plan.

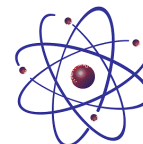
Duplicate measurements will be conducted for not less than 10% of the total single devices placed to measure precision. Field blanks will be deployed for not less than 5% of the total number of single measurements deployed to measure background gamma radiation.

RDS will locate devices in such a way to limit unintentional interference from building occupants. A walk-through inspection of the building will allow RDS to document observations regarding radon entry mechanisms and general building pressure gradients. Measurement results will be reported in picoCuries per liter (pCi/L) of air.



Radon Detection Specialists, Inc.
825 N Cass Avenue. • Suite 310
Westmont, IL 60559
630-325-4443

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Section 3.0 Scope of Work Performed

Radon Detection Specialists performed a Long-Term Measurement at Elk Grove High School, located at 500 West Elk Grove Blvd, in Elk Grove Village, Illinois.

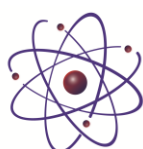
This scope of work included a 94-day (long-term) radon test. This measurement was conducted from Tuesday, February 20, 2024 to Friday, May 24, 2024.

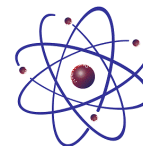
The testing was conducted in accordance with the Illinois Emergency Management Agency Department of Nuclear Safety (IEMA) and the United States Environmental Protection Agency testing protocols for commercial radon measurements, ANSI/AARST standards, the device manufacturer's recommendations, and the RDS Quality Assurance Plan.

The devices used at this facility were alpha tracks (model AT-102) manufactured and analyzed by RSSI.

A total of 49 devices were deployed at this site in these configurations:

Measurement Type	Number of Devices
Single	38
Duplicate	6
Blank	5





Section 4.0 Site Conditions and Device Placement

Site Conditions

1. The subject building was occupied and fully-functional during this radon measurement.
2. The testing period was noted to have been unremarkable in terms of changes/repairs to the building functionality and the weather.
3. At device retrieval, the testing device deployed in Classroom 120 was found on the floor. Results for this location are invalid. (Result was 4.2 – for general informational purposes only.)
4. At device retrieval, the testing device deployed in Classroom 149 was noted to be missing. There are no results for this location.

Device Locations

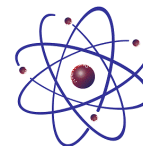
If an appropriate and accurate drawing is provided by the client and dimensional device plotting is possible, Appendix B provides a detailed drawing showing the device locations. If Appendix B is blank, please refer to the Device Placement columns provided in Appendix A (Room Use and Room Number) as an explanation of device locations.

The building was tested in accordance with IEMA and ANSI/AARST protocols with regard to device placement and analytical methods of calculating results.

1. Tampering was not detected at the time the devices were retrieved, unless noted in the Comment Column.
2. Devices were placed strategically to reduce accidental interference by building occupants.
3. Duplicates are averaged together. It is the average of the two devices upon which Follow-Up Testing and mitigation decisions should be based.



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Section 5.0 Test Location Results and Recommendations

Test Location Results Table

The table below lists the radon test results by location in the facility.

Because radon levels fluctuate hourly, daily, weekly, seasonally and yearly, these results should not be used to estimate radon levels of rooms that were not measured, or to estimate future radon levels of rooms that were measured.

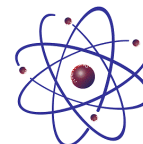
Changes to the building components (both structural and mechanical) can affect radon concentrations.

The EPA Action Level is 4.0 picoCuries per Liter (pCi/L).

Location #	Room Name/Number	Description	Results (pCi/L)
1	Classroom 109	Classroom	3.8
2	Classroom 120	Classroom	Invalid
3	Classroom 126A	Classroom	5.8
4	Classroom 126B	Classroom	4.2
5	Classroom 126C	Classroom	15.7
6	Classroom 128	Classroom	5.6
7	Classroom 135	Classroom	9.6
8	Classroom 137	Classroom	11.3
9	Classroom 139	Classroom	12.0
10	Classroom 140	Classroom	8.6
11	Classroom 141	Classroom	10.6
12	Classroom 143	Classroom	9.7
13	Classroom 144	Classroom	11.2
14	Classroom 145	Classroom	10.7
15	Classroom 146	Classroom	11.6
16	Classroom 147	Classroom	11.8
17	Classroom 148	Classroom	6.8
18	Kitchen 124	Kitchen	5.1
19	Kitchen 131A	Kitchen	5.2
20	Office 123A	Office	3.7
21	Office 124	Office	5.1
22	Office 124B	Office	4.9
23	Office 124D	Office	5.2



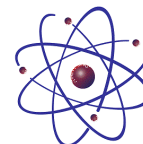
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24	Office 124E	Office	4.6
25	Office 125	Office	4.4
26	Office 128C	Office	3.2
27	Office 128D	Office	5.0
29	Office 128E	Office	3.5
30	Office 131	Office	4.9
31	Office 132A	Office	4.8
32	Office 132B	Office	6.1
33	Office 133	Office	6.6
34	Office 133B	Office	8.0
35	Office 133C	Office	8.0
36	Office 136B	Office	7.8
37	Office 140A/B	Office	7.6
38	Shipping	Blank	0.7



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List of Locations with Missing LT Devices, No LT Results, or Invalid LT Results:

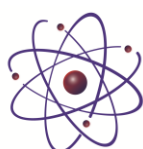
Recommendation: Consult with an Illinois licensed commercial mitigation professional

Room Name/Number	Description	Notes
Classroom 120	Classroom	Invalid. Found on Floor. (Initial 6.7, FU 5.5)
Classroom 149	Classroom	Device missing at retrieval. (Initial 12.8, FU 12.8)
Classroom 138	Classroom	No LT Measurement (Initial 11.9, Follow-Up 9.8)
Office 125A	Office	No LT Measurement (Initial 6.0, Follow-Up 4.3)
Office 161C	Office	No LT Measurement (Initial 4.0, Follow-Up 4.8)
Office 165J	Office	No LT Measurement (Initial 4.1, Follow-Up 4.6)

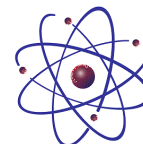
List of Locations Above the Action Level

Recommendation: Consult with an Illinois licensed commercial mitigation professional

Room Name/Number	Description	Results
Classroom 126A	Classroom	5.8
Classroom 126B	Classroom	4.2
Classroom 126C	Classroom	15.7
Classroom 128	Classroom	5.6
Classroom 135	Classroom	9.6
Classroom 137	Classroom	11.3
Classroom 139	Classroom	12.0
Classroom 140	Classroom	8.6
Classroom 141	Classroom	10.6
Classroom 143	Classroom	9.7
Classroom 144	Classroom	11.2
Classroom 145	Classroom	10.7
Classroom 146	Classroom	11.6
Classroom 147	Classroom	11.8
Classroom 148	Classroom	6.8
Kitchen 124	Kitchen	5.1
Kitchen 131A	Kitchen	5.2
Office 124	Office	5.1
Office 124B	Office	4.9
Office 124D	Office	5.2
Office 124E	Office	4.6
Office 125	Office	4.4



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Office 128D	Office	5.0
Office 131	Office	4.9
Office 132A	Office	4.8
Office 132B	Office	6.1
Office 133	Office	6.6
Office 133B	Office	8.0
Office 133C	Office	8.0
Office 136B	Office	7.8
Office 140A/B	Office	7.6

When elevated levels are confirmed with either two short-term measurements or a single long-term measurement:

When a single long-term measurement, or the average of two short-term measurements, confirms elevated radon levels, consultation with an Illinois licensed commercial mitigation firm is recommended. A list of firms licensed for radon mitigation in commercial buildings in Illinois can be found on the state's website at <http://www.illinois.gov/iema/NRS/Radon/Pages/Commercial.aspx>

Commercial mitigation firms differ in terms of their experience, their approaches to your project and their pricing. In order to make sure you find one best suited to the needs of your building, please call more than one.

A Note about Long-Term Testing

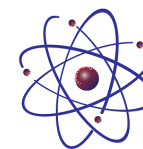
The EPA and IEMA Action Level of 4.0 pCi/L is based on annual average exposure. As a matter of best practice in measurement, a long-term measurement is the best way to determine occupants' annual exposure because radon levels vary hourly, daily, weekly, seasonally, and over the years. Long-term testing (lasting 90 days to one year) provides a better understanding of building radon concentrations and the risks of exposure to radon.

To have a thorough understanding of occupants' risk of exposure, a long-term measurement is always recommended. This type of measurement will provide the best indication of radon concentrations and are the basis upon which mitigation decisions should be made.

Should you choose to engage in additional long-term measurement as recommended, please contact us for further details.



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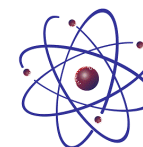
Appendix A: Device Table

The table below lists all the devices deployed and their reported radon levels. The results were determined using calculations supplied by the device manufacturer.

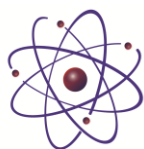
Location #	Device #	Serial Number	Room Name/Number	Room Description	Foundation	Occupiable?	Start Day/Time	End Day/Time	Invalid or Missing?	Device Radon Level (pCi/L)	Set Type
1	1	823888	Classroom 109	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		2.2	S
1	2	823906	Classroom 109	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.4	D
2	3	823886	Classroom 120	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM	Invalid		S
3	4	823902	Classroom 126A	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.8	S
4	5	823903	Classroom 126B	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		4.2	S
5	6	823905	Classroom 126C	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		15.7	S
6	7	823901	Classroom 128	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.6	S
7	8	824392	Classroom 135	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		9.6	S
8	9	824393	Classroom 137	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		11.3	S
9	10	824394	Classroom 139	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		12.0	S
10	11	823911	Classroom 140	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		8.6	S
11	12	824395	Classroom 141	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		10.6	S
12	13	823918	Classroom 143	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		9.7	S
13	14	823912	Classroom 144	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		10.8	S
13	15	823914	Classroom 144	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		11.6	D
14	16	823917	Classroom 145	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		10.7	S



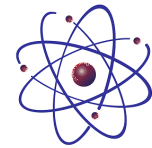
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15	17	823913	Classroom 146	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		11.6	S
15	18	823915	Classroom 146	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		11.5	D
16	19	823920	Classroom 147	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		11.8	S
17	20	823919	Classroom 148	Classroom	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		6.8	S
18	21	823889	Kitchen 124	Kitchen	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.1	S
19	22	823892	Kitchen 131A	Kitchen	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.2	S
19	23	823924	Kitchen 131A	Kitchen	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.2	D
20	24	823887	Office 123A	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		3.7	S
21	25	823890	Office 124	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.1	S
22	26	823897	Office 124B	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		4.7	S
22	27	823896	Office 124B	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.0	D
23	28	823899	Office 124D	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.2	S
24	29	823898	Office 124E	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		4.6	S
25	30	823900	Office 125	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		4.4	S
26	31	823921	Office 128C	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		3.2	S
27	32	823904	Office 128D	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		5.1	S
27	33	823922	Office 128D	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		4.9	D
29	34	823923	Office 128E	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		3.5	S
30	35	823925	Office 131	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		4.9	S
31	36	823893	Office 132A	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		4.8	S
32	37	823891	Office 132B	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		6.1	S
33	38	823894	Office 133	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		6.6	S
34	39	823895	Office 133B	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		8.0	S
35	40	824391	Office 133C	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		8.0	S
36	41	823907	Office 136B	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		7.8	S
37	42	823909	Office 140A/B	Office	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		7.6	S
38	43	839756	Shipping	Blank	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		0.7	B
38	44	839757	Shipping	Blank	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		0.7	B
38	45	839758	Shipping	Blank	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		0.7	B
38	46	839759	Shipping	Blank	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		0.7	B
38	47	839760	Shipping	Blank	Slab-on-grade	Yes	2/20/2024 12:00 PM	5/24/2024 12:00 PM		0.7	B



Prepared For: Ramboll
Facility Name: Elk Grove High School
Test Site: 500 West Elk Grove Blvd
Elk Grove Village, IL 60007
Test Dates: Tuesday, February 20, 2024 to Friday, May 24, 2024



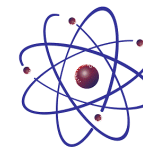
Appendix B: Site Plan Showing Device Locations

Site plan not available.



Radon Detection Specialists, Inc.
825 N Cass Avenue. • Suite 310
Westmont, IL 60559
630-325-4443

Prepared For: Ramboll
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Test Site: 500 West Elk Grove Blvd
Elk Grove Village, IL 60007
Test Dates: Tuesday, February 20, 2024 to Friday, May 24, 2024



Appendix C: License and Credentials



IEMA: Radon Measurement Professional RNI2006204

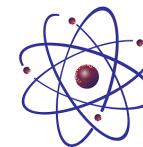


NRPP: Radon Measurement Professional with Standard and Analytical Services
NRPP ID 108034-RMP



Radon Detection Specialists, Inc.
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Elk Grove Village, IL 60007
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NRSB: Accredited Radon Laboratory NRSB ARL1301



NRSB: Radon Measurement Specialist NRSB 13SS016



AARST-NRPP: Advanced Certification: Multifamily Measurement



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