December 22, 2023

Jonathan Spitzer
District Facilities Manager
Fridley Public Schools
6000 West Moore Lake Drive
Fridley, MN 55432

Providing Trusted
Health and Safety Solutions

RE: RL Stevenson Elementary School and Hayes Elementary School
Short-Term Radon Testing Results
IEA Project #202111221 (Round 3)

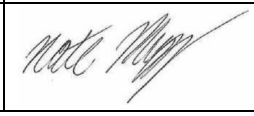
Dear Mr. Spitzer:

IEA placed 151 Air Chek Pro Chek short-term radon test kits in 124 locations in the following buildings for the purpose of evaluating radon levels:

- Hayes Elementary School – 65 locations
- RL Stevenson Elementary School– 59 locations

The number of kits placed includes those used for quality control purposes. See Appendix A for Quality Control information.

The radon test kits were placed by the following Minnesota Department of Health (MDH) licensed Radon Measurement Professional(s):

Measurement Professional	License Number	Signature
Erin Bengtson	RMEA-00533	
Nate Murphy	RMEA-00483	

INTRODUCTION

Radon is a colorless, odorless, tasteless, radioactive gas that occurs naturally in soil, rocks, and underground water supplies and in the ambient air. According to the U.S. Environmental Protection Agency (EPA) and other scientific organizations, naturally occurring radon gas has been associated with an increased risk of developing lung cancer. The chances of developing lung cancer from radon exposure are dependent on several factors, including individual susceptibility and, perhaps more importantly, the dose and duration of exposure. Radon testing in schools is highly recommended by the Minnesota Department of Health (MDH) and EPA.

METHODOLOGY

IEA placed Air Chek Pro Chek short-term radon test kits in frequently occupied areas in the buildings listed above at Fridley Public Schools for the purpose of sampling for radon in accordance with the MDH's *Guidance for Radon Testing in Minnesota Schools* (2021) and ANSI/AARST *'Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings'* (ANSI/AARST MALB 2014 with 1/21 revisions).

A total of 151 radon test kits were placed from December 4, 2023 to December 7, 2023 for a total short-term sampling period of 3 days including 1 test kit that was missing at the time of pick-up. The radon test kits were analyzed by AirChek, Inc., MDH license #RL-00003, located at 1936 Butler Bridge Road, Mills River, NC 28759. The Analysis Methodologies are provided in Appendix A.

Air intakes and ventilation systems were operating in normal condition at the time of placement and retrieval. IEA was informed that the HVAC was on a normal operating schedule during the testing period.

IEA followed ANSI/AARST MALB 2014 with 1/21 revisions for quality assurance measurements by including duplicate kits, control kits (blanks), and spiked kits.

Client communications and commitments were delivered to the client and are located in Appendix C:
- Client Commitments, Advisories and Authorizations
- Facilitating Staff Commitments

Occupant notices were sent to the client for distribution on October 17, 2023.

EVALUATION CRITERIA

The MDH and the EPA have established a recommended action level in intended to be occupied areas of 4.0 picocuries per liter (pCi/L) for an annual average. Testing was conducted during school days when the building is significantly occupied. The HVAC system was set on a normal occupied operating schedule. Testing was conducted during the heating season when the average outdoor temperature is less than 65°F, as recommended by the MDH, when the ventilation system was operating normally, and windows and doors were closed. Consequently, sampling under these "closed" conditions is when the radon risk is most likely to occur

MDH recommends follow-up testing for sampling results that are above the action level. Please refer to the following table for MDH guidelines:

RESULTS (pCi/L)	RECOMMENDED ACTION
LESS THAN 4	Re-test after changes to foundation or HVAC and every 5 years
GREATER THAN 4	Conduct CRM short-term testing during winter months
LESS THAN 4 (DURING OCCUPANCY) AFTER CRM TESTING	Repeat CRM testing if not conducted during winter or if conducted during abnormal ventilation. Otherwise consider re-testing after changes to foundation or HVAC and every 5 years
GREATER THAN 4 (DURING OCCUPANCY) AFTER CRM TESTING	Reduce radon in rooms to less than 4 through radon mitigation. Conduct CRM testing to verify radon reduction.

CRM: Continuous Radon Monitor

RESULTS & DISCUSSION

The laboratory report, maps of each building with sampling locations, and chain of custody are provided in Appendix B. The following includes summary results for each building.

Hayes Elementary School
615 Mississippi St NE
Fridley, MN 55432

A total of 75 test kits were placed in 65 locations at Hayes Elementary School. One test kit in Room 131 was missing when the test kits were collected. The number of missing test kits did not exceed allowance in the ANSI/AARST MALB 2014 with 1/21 revisions standard.

The results indicated that radon levels in Hayes Elementary School were below the action level of 4 pCi/L. See Table 1 below for a summary of the results:

TABLE 1: HAYES ELEMENTARY SCHOOL RANGE OF RESULTS				
	0.0 – 1.9 pCi/L	**2.0 – 2.9 pCi/L**	**3.0 – 3.9 pCi/L**	**≥ 4 pCi/L**
Number of Tests	74	0	0	0

pCi/L: picocuries per liter

RL Stevenson Elementary School
6080 E River Rd
Fridley, MN 55432

A total of 76 test kits were placed in 59 locations at RL Stevenson Elementary School. No test kits were missing or damaged when the test kits were collected.

The results indicated that radon levels in RL Stevenson Elementary School were below the action level of 4 pCi/L. See Table 2 below for a summary of the results:

TABLE 2: RL STEVENSON ELEMENTARY SCHOOL RANGE OF RESULTS				
	0.0 – 1.9 pCi/L	**2.0 – 2.9 pCi/L**	**3.0 – 3.9 pCi/L**	**≥ 4 pCi/L**
Number of Tests	34	39	3	0

pCi/L: picocuries per liter

CONCLUSIONS AND RECOMMENDATIONS

It is recommended by ANSI/AARST MALB 2014 with 1/21 revisions to consider taking action and address results of radon concentrations greater than half the action level (2-4 pCi/L).

The EPA has established recommended guidelines for permissible radon concentrations in schools. The following are general recommendations for frequently occupied areas of schools:

- The building should be retested at least every 5 years and in conjunction with any sale of the building.
- Ground contact rooms that were not tested because they were not occupied, should be tested if they become occupied in the future.

In addition, retesting should be conducted when any of the following circumstances occur:

- A new addition is constructed, or a significant renovation occurs
- Heating or cooling systems are significantly altered, resulting in changes to air pressures or distribution
- Ventilation is significantly altered by extensive weatherization, changes to mechanical systems, or comparable procedures
- Significant openings to soil occur due to:
  - Ground water or slab surface water control systems (e.g., sumps, perimeter drain tile, shower/tub retrofits, etc.)
  - Natural settlement causing major cracks to develop
  - Earthquakes, construction blasting, or formation of sink holes nearby
  - A mitigation system is altered, modified, or repaired
- Rooms should be retested during the winter heating season (i.e., under "closed" conditions) which is typically "worst case" conditions.

Per Minnesota Statutes, section 123B.571, school districts are required to report radon test results at a school board meeting and report results to the MDH. IEA is able to assist with presenting results to the school board, and the MDH reporting. The MDH 'School Radon Testing Form' is located in Appendix E.

For more information regarding radon, see the EPA's A Citizen's Guide to Radon at http://www.epa.gov/radon. MDH can be contacted at health.indoorair@state.mn.us or 651-201-4601.

GENERAL COMMENTS

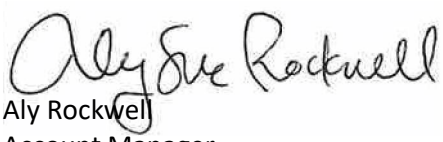
The analysis and opinions expressed in this report are based upon data obtained from radon sampling district-wide and are representative of the locations and time period sampled. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental, health and safety practices. Other than as provided in the preceding sentence and in our Proposal #10036 dated October 22, 2021, regarding radon sampling services at the district locations, including the General Conditions attached thereto, no warranties are extended or made.

Should you require additional radon testing or have any questions regarding radon or any other environmental, health, or safety-related concerns, please do not hesitate to contact our office.

Sincerely,

IEA, Inc.



Aly Rockwell
Account Manager

Reviewed by:

Emma Squires-Sperling
Laboratory Director

AR/khb 12222023

Enc.

Appendix A

Analysis Methodology and
Quality Control Measurements

Analysis Methodology

IEA placed Air Chek, Inc. Pro Chek activated charcoal radon test kits designed specifically for the detection of gamma emissions caused by the decay of Radon-222 and its daughter products. The kit is made of a padded envelope which contains activated charcoal. Upon pick-up, the kit is sealed with vinyl tape after 72 to 96 hours of indoor exposure. Individual kits are uniquely identified with a number and corresponding bar code.

Upon receipt at the analytical laboratory, the kits are logged in using the unique numbers assigned to each kit. The kits are placed on a gamma detector to count the gamma emissions from the decay of radon adsorbed by the charcoal. A calibration factor determined in part by the exposure time and decay time is used to calculate the radon concentration. A correction factor is also applied for weight gain from any moisture absorbed by the charcoal during the sampling period.

Any unusual conditions are noted on the processing form and shown on the exposure report.

MDH and ANSI/AARST MALB 2014 Quality Control Measurements

IEA followed ANSI/AARST MALB 2014 with 1/21 revisions and MDH recommendations for quality assurance measurements to ensure the accuracy of test results. Quality assurance measurements include side-by-side test kits (duplicates) and unexposed control test kits (blanks).

Duplicates are pairs of test kits placed 4-8 inches apart for the same test period. Duplicates are stored, placed, retrieved, and shipped to the laboratory for analysis in the same manner as the other test kits so that the laboratory cannot distinguish them. Since duplicates are placed side-by-side, the measured values for radon should be the same. The average of all duplicates' relative percent difference (RPD) should not exceed 25%. If they do, an investigation to identify the cause may be warranted and could include repeating the measurements. Duplicate averages are listed in Table 1 below.

Table 1: Duplicate Device Measurements and Averages

Location	Test 1 (pCi/L)	Test 2 (pCi/L)	Average (pCi/L)
Stevenson 103	2.7	2.7	2.7
Stevenson 108	2.1	2.0	2.05
Stevenson 125	2.6	2.4	2.5
Stevenson 129	2.7	2.5	2.6
Stevenson 144	1.9	1.6	1.75
Stevenson 148	1.5	1.8	1.65
Stevenson P.E. Office	1.3	1.5	1.4
Hayes 101	0.7	0.6	0.65
Hayes 121	< 0.3	0.6	0.45
Hayes 133	0.9	0.6	0.75
Hayes 149	< 0.3	0.5	0.4
Hayes Main Office Conference Room	0.6	0.9	0.75
Hayes Occ Therapy	0.7	< 0.3	0.5

Blanks can be used to determine whether the manufacturing, shipping, storage, or processing of the detector has "contaminated" your measurements. Blanks are opened and immediately re-sealed to keep room air from infiltrating the test kit. Blanks are labeled and shipped in the same manner as the exposed test kits so that the laboratory cannot distinguish them. Since blanks are not exposed to radon, their measurement value should be below the lower limit of detection. Field blanks are listed in the laboratory report as FStorage Room A, FStorage Room B, etc. Office blanks are listed in the laboratory report as OStorage Room A, OStorage Room B, etc. Lab-Transit Blanks are listed in Table 2 below.

Table 2: Blanks						
Date	**Start Time**	**End Time**	**Device ID**	**Type of Blank**	**Description**	**Radon Concentration (pCi/L)**
12/4/2023	11:00 AM	12:00 PM	11625290	Field	FStorage Room A	< 0.3
12/4/2023	11:00 AM	12:00 PM	11625275	Field	FStorage Room B	< 0.3
12/4/2023	11:00 AM	12:00 PM	11625284	Field	FStorage Room C	< 0.3
12/4/2023	11:00 AM	1:00 PM	11625274	Office	OStorage Room A	< 0.3
12/4/2023	11:00 AM	1:00 PM	11625265	Office	OStorage Room B	< 0.3
12/4/2023	11:00 AM	1:00 PM	11625266	Office	OStorage Room C	< 0.3
10/6/2023	8:00 AM	8:00 AM	11610507	Lab-Transit	LTBP-1	<0.3
11/10/2023	9:00 AM	9:00 AM	11620313	Lab-Transit	LTBP-2	< 0.3
12/1/2023	8:19 AM	8:19 AM	11610519	Lab-Transit	LTBP-3	<0.3
12/5/2023	1:00 PM	1:00 PM	11376311	Lab-Transit	LTBP-4	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376312	Lab-Transit	LTBP-5	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376313	Lab-Transit	LTBP-6	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376314	Lab-Transit	LTBP-7	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376315	Lab-Transit	LTBP-8	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376316	Lab-Transit	LTBP-9	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376317	Lab-Transit	LTBP-10	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376318	Lab-Transit	LTBP-11	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376319	Lab-Transit	LTBP-12	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376320	Lab-Transit	LTBP-13	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376321	Lab-Transit	LTBP-14	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376322	Lab-Transit	LTBP-15	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376323	Lab-Transit	LTBP-16	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376324	Lab-Transit	LTBP-17	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376325	Lab-Transit	LTBP-18	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376326	Lab-Transit	LTBP-19	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376327	Lab-Transit	LTBP-20	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376328	Lab-Transit	LTBP-21	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376329	Lab-Transit	LTBP-22	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376330	Lab-Transit	LTBP-23	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376331	Lab-Transit	LTBP-24	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376332	Lab-Transit	LTBP-25	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376333	Lab-Transit	LTBP-26	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376334	Lab-Transit	LTBP-27	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376335	Lab-Transit	LTBP-28	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376336	Lab-Transit	LTBP-29	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376337	Lab-Transit	LTBP-30	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376338	Lab-Transit	LTBP-31	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376339	Lab-Transit	LTBP-32	< 0.3

Table 2: Blanks						
Date	Start Time	End Time	Device ID	Type of Blank	Description	Radon Concentration (pCi/L)
12/5/2023	1:00 PM	1:00 PM	11376340	Lab-Transit	LTBP-33	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376341	Lab-Transit	LTBP-34	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376342	Lab-Transit	LTBP-35	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376343	Lab-Transit	LTBP-36	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376344	Lab-Transit	LTBP-37	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376345	Lab-Transit	LTBP-38	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376346	Lab-Transit	LTBP-39	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376347	Lab-Transit	LTBP-40	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376348	Lab-Transit	LTBP-41	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376349	Lab-Transit	LTBP-42	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376350	Lab-Transit	LTBP-43	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376351	Lab-Transit	LTBP-44	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376352	Lab-Transit	LTBP-45	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376353	Lab-Transit	LTBP-46	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376354	Lab-Transit	LTBP-47	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376355	Lab-Transit	LTBP-48	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376356	Lab-Transit	LTBP-49	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376357	Lab-Transit	LTBP-50	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376358	Lab-Transit	LTBP-51	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376359	Lab-Transit	LTBP-52	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376360	Lab-Transit	LTBP-53	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376361	Lab-Transit	LTBP-54	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376362	Lab-Transit	LTBP-55	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376363	Lab-Transit	LTBP-56	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376364	Lab-Transit	LTBP-57	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376365	Lab-Transit	LTBP-58	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376366	Lab-Transit	LTBP-59	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376367	Lab-Transit	LTBP-60	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376368	Lab-Transit	LTBP-61	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376369	Lab-Transit	LTBP-62	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376370	Lab-Transit	LTBP-63	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376371	Lab-Transit	LTBP-64	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376372	Lab-Transit	LTBP-65	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376373	Lab-Transit	LTBP-66	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376374	Lab-Transit	LTBP-67	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376375	Lab-Transit	LTBP-68	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376376	Lab-Transit	LTBP-69	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376377	Lab-Transit	LTBP-70	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376378	Lab-Transit	LTBP-71	< 0.3

Table 2: Blanks						
Date	**Start Time**	**End Time**	**Device ID**	**Type of Blank**	**Description**	**Radon Concentration (pCi/L)**
12/5/2023	1:00 PM	1:00 PM	11376379	Lab-Transit	LTBP-72	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376380	Lab-Transit	LTBP-73	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376381	Lab-Transit	LTBP-74	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376382	Lab-Transit	LTBP-75	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376383	Lab-Transit	LTBP-76	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376384	Lab-Transit	LTBP-77	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376385	Lab-Transit	LTBP-78	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376386	Lab-Transit	LTBP-79	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376387	Lab-Transit	LTBP-80	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376388	Lab-Transit	LTBP-81	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376389	Lab-Transit	LTBP-82	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376390	Lab-Transit	LTBP-83	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376391	Lab-Transit	LTBP-84	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376392	Lab-Transit	LTBP-85	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376393	Lab-Transit	LTBP-86	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376394	Lab-Transit	LTBP-87	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376395	Lab-Transit	LTBP-88	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376396	Lab-Transit	LTBP-89	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376397	Lab-Transit	LTBP-90	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376398	Lab-Transit	LTBP-91	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376399	Lab-Transit	LTBP-92	< 0.3
12/5/2023	1:00 PM	1:00 PM	11376400	Lab-Transit	LTBP-93	< 0.3

Spikes are test kits that have been exposed in a chamber to a known concentration of radon. Using spiked measurements can help evaluate the accuracy of a laboratory analysis and/or how accurately test kits supplied by a laboratory measure radon. Spiked test kits are labeled and shipped in the same manner as the exposed test kits so that the laboratory cannot distinguish them. Spiked results completed for our laboratory are included in the following pages. Spiked test kits are listed in Table 3 below.

Table 3: Spiked Detectors

Date	Start Time	End Time	Device ID	Measured Value (pCi/L)	Reference Value (pCi/L)
12/1/2023	8:19 AM	8:19 AM	11610520	43.5	47.0
12/1/2023	8:19 AM	8:19 AM	11610521	50.2	47.0
12/1/2023	8:19 AM	8:19 AM	11610522	45.6	47.0
12/1/2023	8:19 AM	8:19 AM	11610523	46.5	47.0
12/1/2023	8:19 AM	8:19 AM	11610524	47.5	47.0
12/1/2023	8:19 AM	8:19 AM	11610525	40.1	47.0

Appendix B

Laboratory Reports and Maps

December 12, 2023 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

FRIDLEY PUBLIC SCHOOLS
HAYES ELEMENTARY SCHOOL

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11624594	102	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624595	103	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624548	104	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624551	104 KILN ROOM	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.9 ± 0.4	2023-12-12
11624593	105	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624584	106	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	0.6 ± 0.4	2023-12-12
11624592	107	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.8 ± 0.4	2023-12-12
11624589	108	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.7 ± 0.4	2023-12-12
11624590	109	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624599	110	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624598	111	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	0.9 ± 0.4	2023-12-12
11624573	112	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624597	113	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624553	114	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624596	115	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624557	116	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.5 ± 0.4	2023-12-12
11624600	117	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.7 ± 0.4	2023-12-12
11624564	118	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.9 ± 0.4	2023-12-12
11624558	118A	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624566	119	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624541	120	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.6 ± 0.4	2023-12-12
11625215	122	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.8 ± 0.4	2023-12-12
11624546	123	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	1.0 ± 0.4	2023-12-12
11625221	124	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.7 ± 0.4	2023-12-12
11624545	125	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.9 ± 0.4	2023-12-12
11625212	126 NORTHEAST	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	< 0.3	2023-12-12
11625211	126 SOUTHWEST	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	1.0 ± 0.4	2023-12-12
11624550	127	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.6 ± 0.4	2023-12-12
11625220	129	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11625214	135	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.7 ± 0.4	2023-12-12
11625204	137	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.9 ± 0.4	2023-12-12
11625203	139	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624578	140	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624554	141	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624538	142	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	1.0 ± 0.4	2023-12-12
11624536	143	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	1.0 ± 0.4	2023-12-12
11624539	144	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.6 ± 0.4	2023-12-12

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

December 12, 2023 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

FRIDLEY PUBLIC SCHOOLS
HAYES ELEMENTARY SCHOOL

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11624572	145	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624577	146	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.7 ± 0.4	2023-12-12
11624580	147	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624570	148	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	1.0 ± 0.4	2023-12-12
11624543	150	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.9 ± 0.4	2023-12-12
11624567	CAFETERIA NORTH	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624574	CAFETERIA SOUTH	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624542	COMPUTER LAB	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624575	CUSTODIAL OFFICE	2023-12-04 @ 8:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624555	D101-1	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.7 ± 0.4	2023-12-12
11624547	D101-2	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.3	2023-12-12
11624576	D121-1	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624540	D121-2	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.6 ± 0.4	2023-12-12
11625205	D133-1	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.9 ± 0.4	2023-12-12
11625213	D133-2	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624544	D149-1	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624569	D149-2	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.5 ± 0.4	2023-12-12
11624563	DMAIN OFFICE CONFERENCE-1	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.6 ± 0.4	2023-12-12
11624561	DMAIN OFFICE CONFERENCE-2	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.9 ± 0.4	2023-12-12
11624537	DOCCUPATIONAL THERAPY ROOM-1	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.7 ± 0.4	2023-12-12
11624549	DOCCUPATIONAL THERAPY ROOM-2	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624591	GYM OFFICE	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624552	HEALTH OFFICE	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.8 ± 0.4	2023-12-12
11624568	KITCHEN OFFICE	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624556	MAIN OFFICE	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.8 ± 0.4	2023-12-12
11624562	MAIN OFFICE COPY ROOM	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.9 ± 0.4	2023-12-12
11624582	MEDIA CENTER NORTH	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624571	MEDIA CENTER OFFICE A	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624581	MEDIA CENTER OFFICE B	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624588	MEDIA CENTER SOUTH	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	0.6 ± 0.4	2023-12-12
11624579	MEDIA CENTER WORKROOM	2023-12-04 @ 8:00 am	2023-12-07 @ 9:00 am	< 0.3	2023-12-12
11624585	NORTH GYM EAST	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	0.7 ± 0.4	2023-12-12
11624587	NORTH GYM WEST	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	0.8 ± 0.4	2023-12-12
11624559	NURSES OFFICE	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.9 ± 0.4	2023-12-12
11624560	PRINCIPAL OFFICE	2023-12-04 @ 9:00 am	2023-12-07 @ 10:00 am	0.8 ± 0.4	2023-12-12
11624586	SOUTH GYM EAST	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	0.7 ± 0.4	2023-12-12
11624583	SOUTH GYM WEST	2023-12-04 @ 9:00 am	2023-12-07 @ 9:00 am	0.6 ± 0.4	2023-12-12

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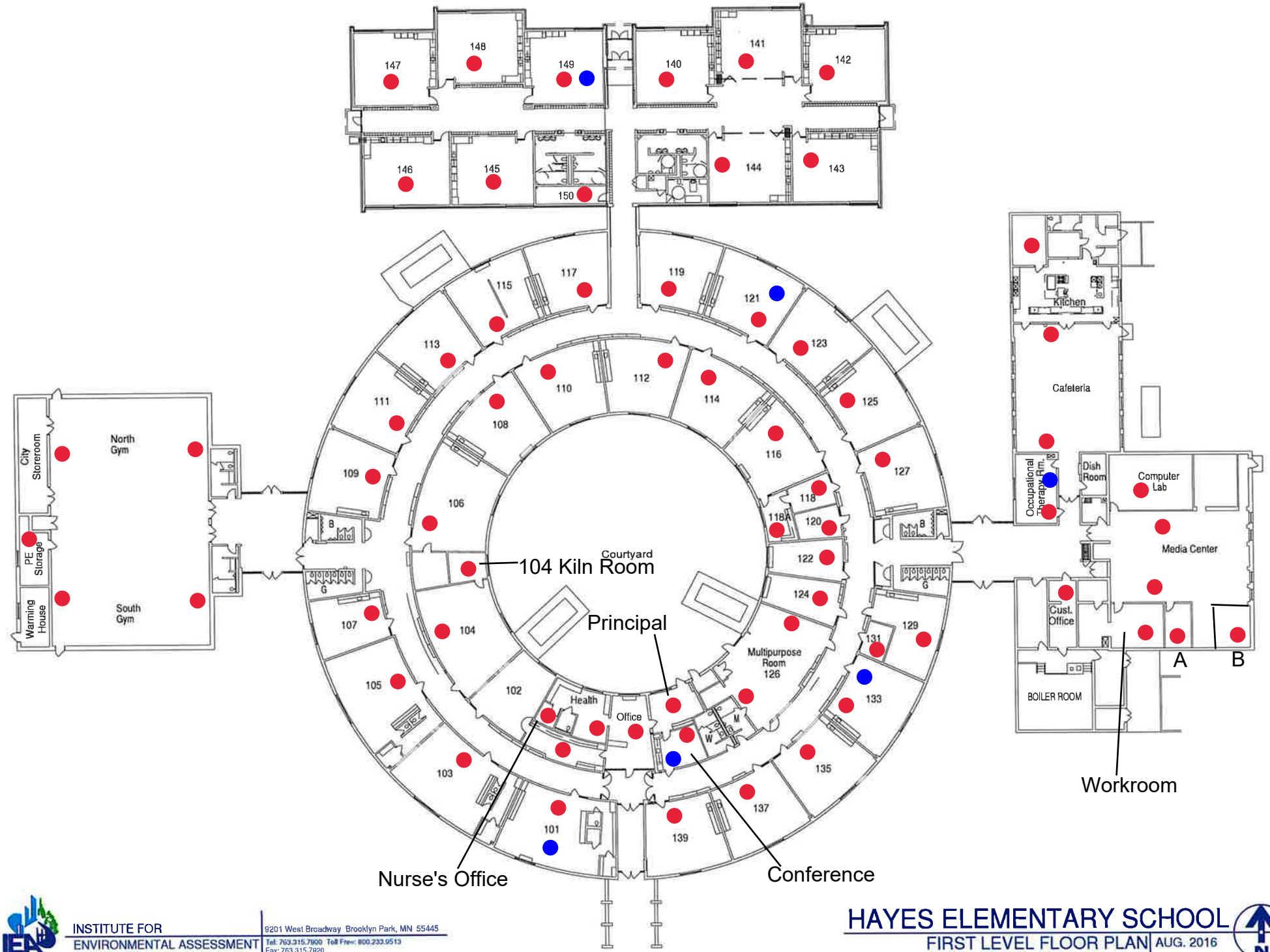
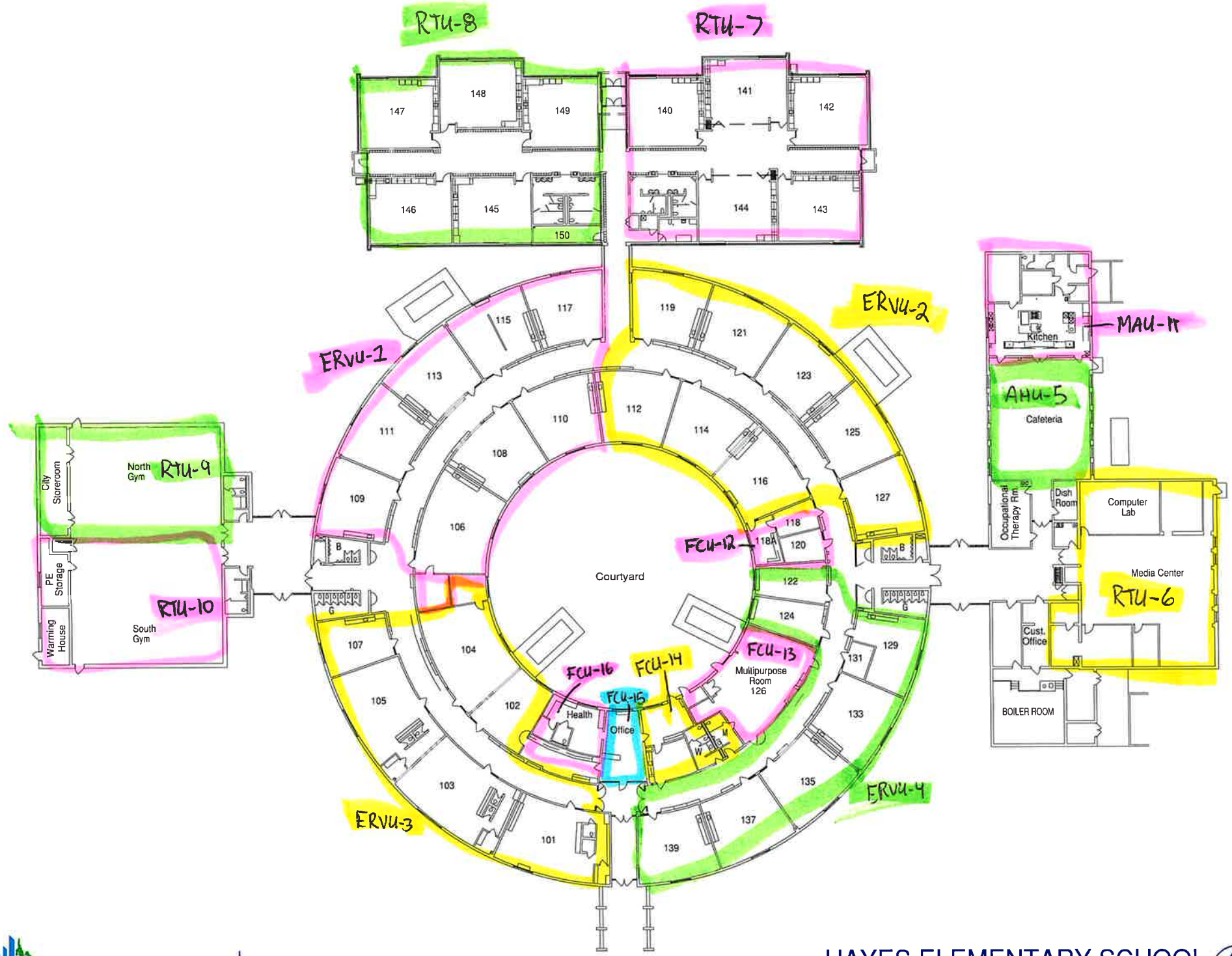


INSTITUTE FOR ENVIRONMENTAL ASSESSMENT
9201 West Broadway Brooklyn Park, MN 55445
Tel: 763.315.7900 Toll Free: 800.233.9513
Fax: 763.315.7920

HAYES ELEMENTARY SCHOOL

FIRST LEVEL FLOOR PLAN | AUG. 2016



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HAYES ELEMENTARY SCHOOL

FIRST LEVEL FLOOR PLAN | OCT. 2018

December 12, 2023 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

FRIDLEY PUBLIC SCHOOLS
STEVENSON ELEMENTARY SCHOOL

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11625264	101	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.5 ± 0.4	2023-12-12
11625287	102	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.4 ± 0.4	2023-12-12
11625291	104	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.4 ± 0.4	2023-12-12
11625293	105	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.1 ± 0.4	2023-12-12
11625208	106	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.0 ± 0.5	2023-12-12
11625295	107	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.3 ± 0.4	2023-12-12
11625229	109	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.5 ± 0.4	2023-12-12
11625234	110	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.0 ± 0.4	2023-12-12
11625218	111	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.8 ± 0.4	2023-12-12
11625242	112	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.5 ± 0.4	2023-12-12
11625241	113	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.2 ± 0.4	2023-12-12
11625259	114	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.6 ± 0.5	2023-12-12
11625250	115	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.0 ± 0.4	2023-12-12
11625249	116	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.9 ± 0.5	2023-12-12
11625237	117	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.3 ± 0.5	2023-12-12
11625260	118	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.9 ± 0.5	2023-12-12
11625261	119	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.9 ± 0.5	2023-12-12
11625252	120	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.1 ± 0.4	2023-12-12
11625248	121	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	3.1 ± 0.5	2023-12-12
11625258	122	2023-12-04 @ 11:00 am	2023-12-07 @ 12:00 pm	2.0 ± 0.4	2023-12-12
11625247	123	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.5 ± 0.5	2023-12-12
11625270	124	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	2.1 ± 0.5	2023-12-12
11625289	126	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	1.4 ± 0.4	2023-12-12
11625278	131	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	2.1 ± 0.4	2023-12-12
11625282	133	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	2.9 ± 0.4	2023-12-12
11625272	135	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	2.5 ± 0.5	2023-12-12
11625279	137	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	1.7 ± 0.4	2023-12-12
11625256	140	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.0 ± 0.4	2023-12-12
11625238	141	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.7 ± 0.5	2023-12-12
11625255	142	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	3.2 ± 0.5	2023-12-12
11625251	143	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.9 ± 0.4	2023-12-12
11625243	145	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.3 ± 0.5	2023-12-12
11625210	146	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.1 ± 0.4	2023-12-12
11625216	147	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.6 ± 0.4	2023-12-12
11625233	149	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.8 ± 0.4	2023-12-12
11625262	150	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.4 ± 0.5	2023-12-12
11625244	CAFETERIA N	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.7 ± 0.5	2023-12-12

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December 12, 2023 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

FRIDLEY PUBLIC SCHOOLS
STEVENSON ELEMENTARY SCHOOL

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11625245	CAFETERIA S	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.6 ± 0.4	2023-12-12
11625285	CONFERENCE ROOM	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.2 ± 0.4	2023-12-12
11625280	COPIER ROOM	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	3.4 ± 0.5	2023-12-12
11625226	CUSTODIAL OFFICE	2023-12-04 @ 9:00 am	2023-12-07 @ 12:00 pm	1.4 ± 0.4	2023-12-12
11625294	D103 - 1	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.7 ± 0.5	2023-12-12
11625288	D103 - 2	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.7 ± 0.5	2023-12-12
11625209	D108 - 1	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.1 ± 0.4	2023-12-12
11625219	D108 - 2	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.0 ± 0.4	2023-12-12
11625253	D125 - 1	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.6 ± 0.5	2023-12-12
11625254	D125 - 2	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.4 ± 0.5	2023-12-12
11625283	D129 - 1	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	2.7 ± 0.5	2023-12-12
11625281	D129 - 2	2023-12-04 @ 10:00 am	2023-12-07 @ 12:00 pm	2.5 ± 0.5	2023-12-12
11625239	D144 - 1	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.9 ± 0.4	2023-12-12
11625202	D144 - 2	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.6 ± 0.4	2023-12-12
11625201	D148 - 1	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.5 ± 0.4	2023-12-12
11625217	D148 - 2	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.8 ± 0.4	2023-12-12
11625246	DP.E. OFFICE - 1	2023-12-04 @ 9:00 am	2023-12-07 @ 11:00 am	1.3 ± 0.4	2023-12-12
11625240	DP.E. OFFICE - 2	2023-12-04 @ 9:00 am	2023-12-07 @ 11:00 am	1.5 ± 0.4	2023-12-12
11625290	FSTORAGE ROOM A	2023-12-04 @ 11:00 am	2023-12-07 @ 12:00 pm	< 0.3	2023-12-12
11625275	FSTORAGE ROOM B	2023-12-04 @ 11:00 am	2023-12-07 @ 12:00 pm	< 0.3	2023-12-12
11625284	FSTORAGE ROOM C	2023-12-04 @ 11:00 am	2023-12-07 @ 12:00 pm	< 0.3	2023-12-12
11625277	HEALTH OFFICE	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.6 ± 0.5	2023-12-12
11625236	KITCHEN	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.0 ± 0.5	2023-12-12
11625276	MAIN OFFICE	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.8 ± 0.5	2023-12-12
11625224	MEDIA CENTER 1	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.0 ± 0.4	2023-12-12
11625230	MEDIA CENTER 2	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	0.9 ± 0.4	2023-12-12
11625222	MEDIA CENTER 3	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.4 ± 0.4	2023-12-12
11625223	MEDIA CENTER 4	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.2 ± 0.4	2023-12-12
11625207	MEDIA CENTER EAST	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	0.7 ± 0.4	2023-12-12
11624565	MEDIA CENTER SOUTH	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	0.5 ± 0.4	2023-12-12
11625227	NORTH GYM S	2023-12-04 @ 9:00 am	2023-12-07 @ 11:00 am	0.7 ± 0.4	2023-12-12
11625235	NORTH GYM SW	2023-12-04 @ 9:00 am	2023-12-07 @ 11:00 am	0.5 ± 0.4	2023-12-12
11625267	NURSES OFFICE	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	2.3 ± 0.5	2023-12-12
11625274	OSTORAGE ROOM A	2023-12-04 @ 11:00 am	2023-12-07 @ 1:00 pm	< 0.3	2023-12-12
11625265	OSTORAGE ROOM B	2023-12-04 @ 11:00 am	2023-12-07 @ 1:00 pm	< 0.3	2023-12-12
11625266	OSTORAGE ROOM C	2023-12-04 @ 11:00 am	2023-12-07 @ 1:00 pm	< 0.3	2023-12-12
11625286	PRINCIPALS OFFICE	2023-12-04 @ 10:00 am	2023-12-07 @ 11:00 am	1.8 ± 0.4	2023-12-12

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December 12, 2023 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

FRIDLEY PUBLIC SCHOOLS
STEVENSON ELEMENTARY SCHOOL

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11625232	SOUTH GYM S	2023-12-04 @ 9:00 am	2023-12-07 @ 11:00 am	0.8 ± 0.4	2023-12-12
11625231	SOUTH GYM SE	2023-12-04 @ 9:00 am	2023-12-07 @ 11:00 am	0.6 ± 0.4	2023-12-12

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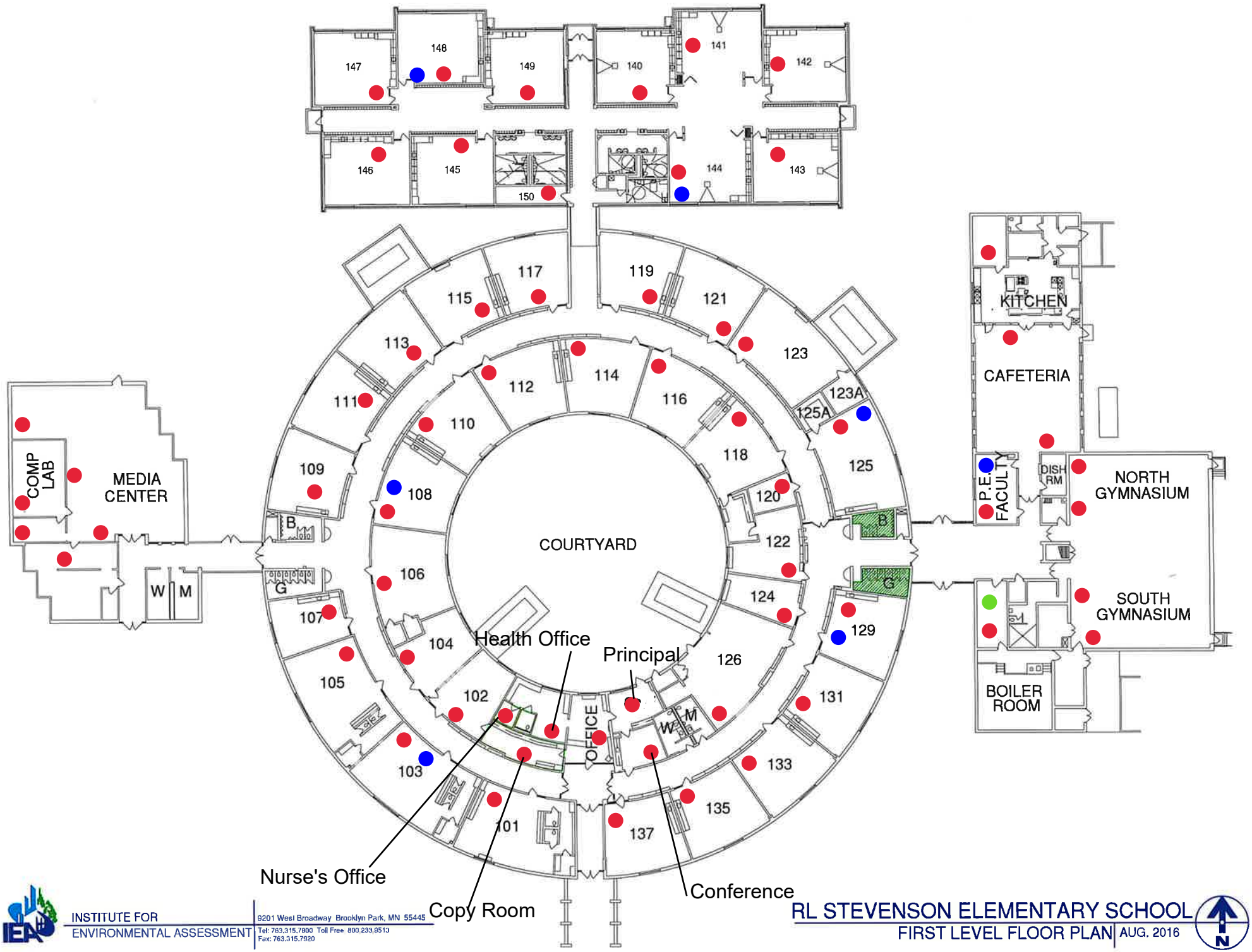

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RL STEVENSON ELEMENTARY SCHOOL

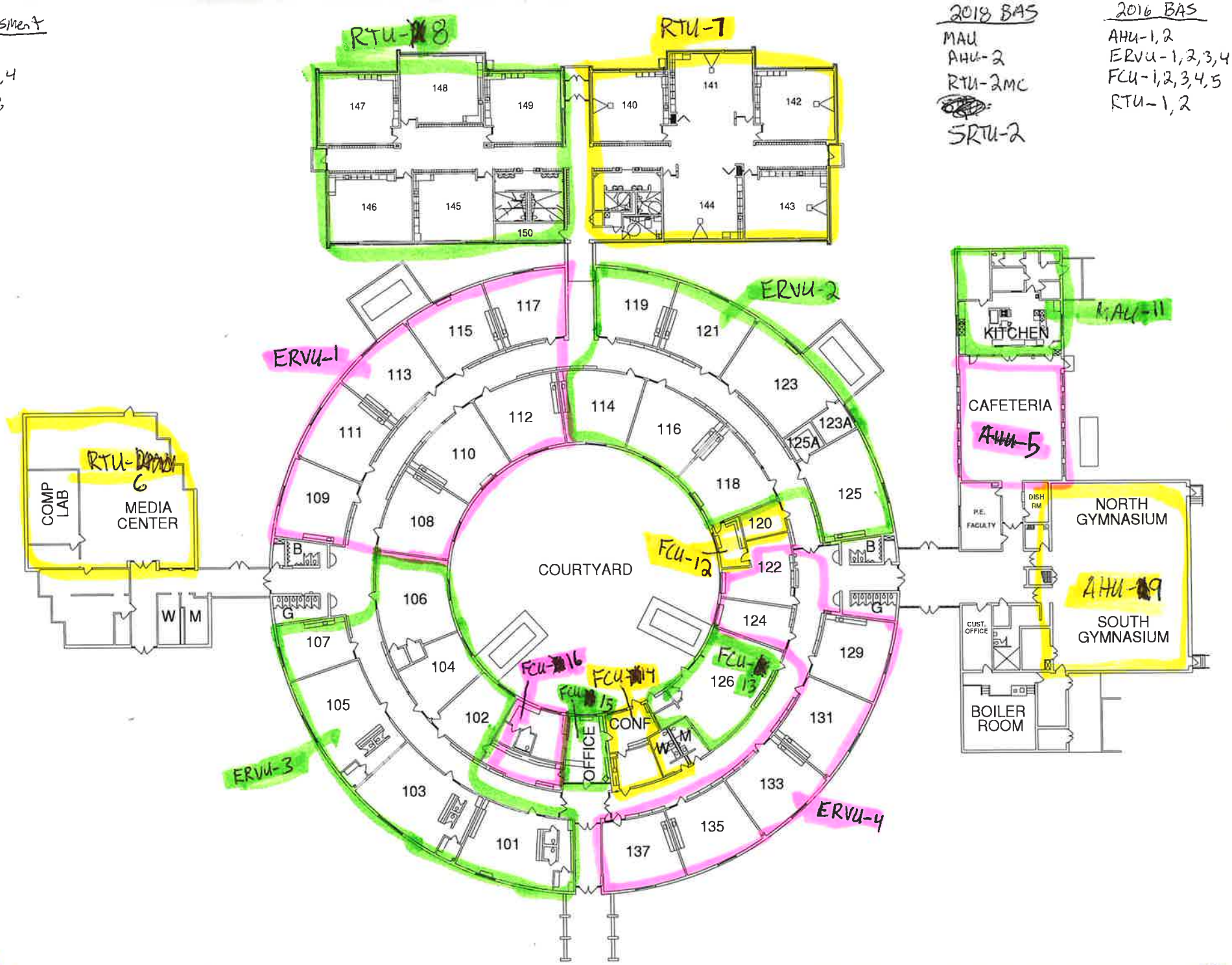
FIRST LEVEL FLOOR PLAN | AUG. 2016

Vent Assessment

AHU-1,2
ERVU-1,2,3,4
RTU-1,2,8
MAU-1

2018 BAS
MAU
AHU-2
RTU-2MC
~~SRTU-2~~

2016 BAS
AHU-1,2
ERVU-1,2,3,4
FCU-1,2,3,4,5
RTU-1,2



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RL STEVENSON ELEMENTARY SCHOOL
FIRST LEVEL FLOOR PLAN | OCT. 2018

Appendix C

Signed Non-Interference Agreement
Client Commitments, Advisories, and Authorizations

NOTICE OF INSPECTION FOR ALL FACILITATING STAFF

Kelly

A radon test is scheduled for:

Building: Hayes Elementary

Test Start Date: 12-4-23 Test End Date: 12-7-23

Please help to maintain the required test conditions throughout the building

1. All windows and exterior doors must be kept closed (aside from momentary entry or exit) for 12 hours before and during the test.
2. Heating and cooling systems must be set to normal occupied operating temperatures.
3. Test devices are not to be disturbed.

Further guidance on required building conditions are located on the next page.

Test devices are not dangerous in anyway. The type of devices used for this testing will include:

Short-term test kits. It is important that these devices are fully open and not covered. They will be analyzed by a laboratory.

Continuous radon monitors. These are electronic devices that record hourly radon readings.

Long-term test kits. It is important that these devices are not covered. They will be analyzed by a laboratory.

Declaration of Observed Compliance

Failure to reasonably maintain test conditions can lead to unnecessary expense, disruptions and unreliable data. Disturbing test devices can also cause unreliable or invalid test results.

- Please report in a timely manner if required test conditions are not maintained.
- Please sign and return this form once the test is complete.

To the best of my knowledge, the required conditions were maintained during the test.

Yes ☒ No ☐

Name: Kelly Nelson

Signature: Kelly Nelson

For more information regarding on-site activities, contact:

Licensed Measurement Professional:

DEPARTMENT OF HEALTH

NOTICE OF INSPECTION FOR ALL FACILITATING STAFF

A radon test is scheduled for:

Building: Hayes Elementary

Test Start Date: 12-4-23 Test End Date: 12-7-23

Please help to maintain the required test conditions throughout the building

1. All windows and exterior doors must be kept closed (aside from momentary entry or exit) for 12 hours before and during the test.
2. Heating and cooling systems must be set to normal occupied operating temperatures.
3. Test devices are not to be disturbed.

Further guidance on required building conditions are located on the next page.

Test devices are not dangerous in anyway. The type of devices used for this testing will include:

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- Please report in a timely manner if required test conditions are not maintained.
- Please sign and return this form once the test is complete.

To the best of my knowledge, the required conditions were maintained during the test.

Yes ☒ No ☐

Name: Nadine Teff

Signature: Nadine Teff

For more information regarding on-site activities, contact:

Licensed Measurement Professional:

DEPARTMENT OF HEALTH

NOTICE OF INSPECTION FOR ALL FACILITATING STAFF

Lance

A radon test is scheduled for:

Building: Stevenson Elementary

Test Start Date: 12-4-23 Test End Date: 12-7-23

Please help to maintain the required test conditions throughout the building

1. All windows and exterior doors must be kept closed (aside from momentary entry or exit) for 12 hours before and during the test.
2. Heating and cooling systems must be set to normal occupied operating temperatures.
3. Test devices are not to be disturbed.

Further guidance on required building conditions are located on the next page.

Test devices are not dangerous in anyway. The type of devices used for this testing will include:

Short-term test kits. It is important that these devices are fully open and not covered. They will be analyzed by a laboratory.

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Declaration of Observed Compliance

Failure to reasonably maintain test conditions can lead to unnecessary expense, disruptions and unreliable data. Disturbing test devices can also cause unreliable or invalid test results.

- Please report in a timely manner if required test conditions are not maintained.
- Please sign and return this form once the test is complete.

To the best of my knowledge, the required conditions were maintained during the test.

Yes ☑ No ☐

Name: LANCE KOLLER

Signature: L Koller

For more information regarding on-site activities, contact:

Licensed Measurement Professional:

DEPARTMENT OF HEALTH

NOTICE OF INSPECTION FOR ALL FACILITATING STAFF

A radon test is scheduled for:

Building: Stevenson Elementary Kitchen

Test Start Date: 12-4-23 Test End Date: 12-7-23

Please help to maintain the required test conditions throughout the building

1. All windows and exterior doors must be kept closed (aside from momentary entry or exit) for 12 hours before and during the test.
2. Heating and cooling systems must be set to normal occupied operating temperatures.
3. Test devices are not to be disturbed.

Further guidance on required building conditions are located on the next page.

Test devices are not dangerous in anyway. The type of devices used for this testing will include:

Short-term test kits. It is important that these devices are fully open and not covered. They will be analyzed by a laboratory.

Continuous radon monitors. These are electronic devices that record hourly radon readings.

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Declaration of Observed Compliance

Failure to reasonably maintain test conditions can lead to unnecessary expense, disruptions and unreliable data. Disturbing test devices can also cause unreliable or invalid test results.

- Please report in a timely manner if required test conditions are not maintained.
- Please sign and return this form once the test is complete.

To the best of my knowledge, the required conditions were maintained during the test.

Yes ☒ No ☐

Name: Renee Arbogast

Signature: Renee Arbogast

For more information regarding on-site activities, contact:

Licensed Measurement Professional:

DEPARTMENT OF HEALTH

COMMITMENTS, ADVISORIES, AND AUTHORIZATIONS

I have been informed of test plan options that comply with ANSI/AARST MALB 2014 with 1/2021 Revisions.

To the extent reasonably possible, I commit to helping ensure that building conditions required to achieve reliable radon tests are met, as portrayed herein, by accepting the following responsibilities:

1. **BUILDING PREPARATION**: I accept responsibility that, no later than 12 hours prior to testing, each building scheduled for testing will be reviewed for compliance with closed-building requirements.
2. **COMPLIANCE VERIFICATION**: I accept responsibility for taking actions that could include adjustments to HVAC units and repairs, such as for broken windows, where completion is required no later than 12 hours prior to testing. Verification will be provided as signed/initialed below or initialed on a log sheet, to be provided.
3. **PRIOR NOTIFICATIONS**: Notices will be distributed to all tested, non-tested dwellings and posted in publicly accessible areas such as in corridors, elevators and offices in a timely manner, no later than required by local law for gaining access to a dwelling or not later than the day before testing.
4. **ACCESS**: Access will be provided to each location being tested within a building, with intent to access all locations within a building on the same day for both the event of placing test devices, and a second event for retrieving test devices.

A valid measurement at all test locations in each building is required. There is a possibility of delays and additional expense when test locations are not readily accessible or where requirements for *closed-building conditions* are not observed.

Client: Fridley Public Schools / ISD 14

Building: Stevenson + Hayes Elementary School

Name: Jonathan Spitzer

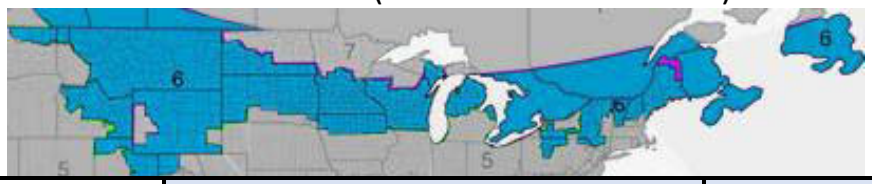
Signature: 

Date: 11-2-23

Appendix D

Average Building Operating Conditions Comparison

Climate Zone 6 (includes Southern MN)



		Annual Averages			During the Test
		24 Hour	Daytime	Daytime 9-Month	Prevailing During the Test
Operating Condition	Outdoor Temperature and Weather Conditions	45 °F	50 °F	N/A	Average: 34.94 Minimum: 22.00 Maximum: 50.00
	Heating Conditions	75%	66%	88%	100%
	Cooling Conditions	-	16%	11%	0%
	Mixed Conditions	25%	16%	-	0%
Normal Operating Condition		• Heating conditions • No variance in outdoor air ventilation			• Heating conditions • No variance in outdoor air ventilation
Condition less likely to inhibit characterization of a radon hazard		• Heating and air distribution systems active			• Heating and air distribution systems active

Appendix E

MDH Reporting Forms

School Radon Testing Reporting Form

According to Minnesota Statute 123B.571 subd. 3, a school district that has tested its school buildings for the presence of radon shall report the results of its tests to the Department of Health. Please use this form to submit information about the most recent round or cycle of testing conducted for each building.

Instructions

1. Complete one form for each building tested. In this case, a building is defined as an occupied facility with a unique address. This includes administrative buildings.
2. Include this form, raw data (e.g. laboratory report) and a building map.
3. Submit this form when all work is completed for a round of testing. This includes reporting to the school board, and follow-up testing and post-mitigation testing, if applicable.
4. Email information to health.indoorair@state.mn.us.

Contact Information

Name: Jonathan Spitzer	
Mailing Address: 6000 West Moore Lake Drive, Fridley MN 55432	
Phone: 763-502-5008	Email: jonathan.spitzer@fridley.k12.mn.us

Initial Radon Testing Information

School Building Name: Hayes Elementary School	
School District & District Number: Fridley Public Schools, ISD 14	
Building Address: 615 Mississippi St NE, Fridley, MN 55432	
Test Kit Manufacturer: Air Chek	Device Name: Pro Chek
Date of Kit Retrieval (DD/MM/YY): 12/7/20	Length of Test (days): 3
How many rooms were tested? 65	
Does the test period include weekends? ☐ Yes ☑ No	
Does the test period include school breaks or holidays? ☐ Yes ☑ No	

Were all frequently-occupied ground contact rooms tested?[1] ☑ Yes ☐ No If no, did you attempt to test all frequently occupied ground contact rooms, meaning test kits were placed in all these rooms? ☐ Yes ☐ No
How many rooms had results ≥ 4 pCi/L?: 0
Were the results reported at a school board meeting? ☐ Yes ☐ No

Follow-up Testing, Mitigation, & Post-Mitigation Testing

If one or more rooms tested ≥ 4 pCi/L, please answer the questions below:

How many rooms had follow-up testing?:		
Number of rooms with follow-up results	≥ 4 pCi/L:	< 4 pCi/L:
Of the rooms that had test results ≥ 4 pCi/L, how many rooms were:		
mitigated by HVAC balancing or operational changes? : mitigated by installation of active soil depressurization?: addressed through other corrective measures?[2]:		
What was the cost of the installation and/or HVAC service work, to mitigate radon? $ What is the known or anticipated annual operating cost of mitigation (estimate)? $		
After radon mitigation, how many rooms were retested?:		
Post mitigation results (# of rooms)	≥ 4 pCi/L:	< 4 pCi/L:

[1] This includes classrooms, offices, break rooms, laboratories, cafeterias, libraries, auditoriums, gymnasiums, etc. It includes rooms on grade and rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

[2] 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points.

School Radon Testing Reporting Form

According to Minnesota Statute 123B.571 subd. 3, a school district that has tested its school buildings for the presence of radon shall report the results of its tests to the Department of Health. Please use this form to submit information about the most recent round or cycle of testing conducted for each building.

Instructions

1. Complete one form for each building tested. In this case, a building is defined as an occupied facility with a unique address. This includes administrative buildings.
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Contact Information

Name: Jonathan Spitzer	
Mailing Address: 6000 West Moore Lake Drive, Fridley MN 55432	
Phone: 763-502-5008	Email: jonathan.spitzer@fridley.k12.mn.us

Initial Radon Testing Information

School Building Name: RL Stevenson Elementary School	
School District & District Number: Fridley Public Schools, ISD 14	
Building Address: 6080 E River Rd, Fridley, MN 55432	
Test Kit Manufacturer: Air Chek	Device Name: Pro Chek
Date of Kit Retrieval (DD/MM/YY): 12/7/20	Length of Test (days): 3
How many rooms were tested? 59	
Does the test period include weekends? ☐ Yes ☑ No	
Does the test period include school breaks or holidays? ☐ Yes ☑ No	

Were all frequently-occupied ground contact rooms tested?[1] ☑ Yes ☐ No If no, did you attempt to test all frequently occupied ground contact rooms, meaning test kits were placed in all these rooms? ☐ Yes ☐ No
How many rooms had results ≥ 4 pCi/L?: 0
Were the results reported at a school board meeting? ☐ Yes ☐ No

Follow-up Testing, Mitigation, & Post-Mitigation Testing

If one or more rooms tested ≥ 4 pCi/L, please answer the questions below:

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Of the rooms that had test results ≥ 4 pCi/L, how many rooms were:		
mitigated by HVAC balancing or operational changes? : mitigated by installation of active soil depressurization?: addressed through other corrective measures?[2]:		
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Post mitigation results (# of rooms)	≥ 4 pCi/L:	< 4 pCi/L:

[1] This includes classrooms, offices, break rooms, laboratories, cafeterias, libraries, auditoriums, gymnasiums, etc. It includes rooms on grade and rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

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