

March 18, 2019

Mr. Kain Smith  
Faribault Public Schools  
1051 Faribault Road  
Faribault, MN 55021

**RE: Faribault Public Schools  
Short-Term Radon Testing Results  
IEA Project #201910186**

Dear Mr. Smith:

As requested by Faribault Public Schools, IEA placed 263 Air Chek Pro Chek short-term radon test kits, including four (4) test kits that were missing at the time of pick-up, in the following four (4) buildings for the purpose of evaluating radon levels:

- Faribault High School – 152 samples
- Lincoln Elementary – 69 samples
- Nerstrand Elementary – 23 samples
- Area Learning Center – 19 samples

The radon samples were placed by Sara Dominick, RMEA-00057, Craig English, RMEA-00038, and Samantha Pofert, RMEA-00198, certified radon measurement professionals.

## 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.

IEA placed 263 Air Chek Pro Chek short-term radon test kits in frequently occupied areas in the buildings listed above in the district for the purpose of sampling for radon in accordance with the MDH's *Guidance for Radon Testing in Minnesota Schools* (2018) and ANSI/AARST 'Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings' (ANSI/AARST MALB 2014). A total of 263 radon test kits were placed from March 4, and 5, 2019, to March 8, and 11, 2019, for a total short-term sampling period of three (3), four (4), and seven (7) days. The radon test kits were analyzed by AirChek, Inc. 1936 Butler Bridge Road, Mills River, NC 28759. The sampling and analysis methodologies are provided in Appendix A. IEA followed ANSI/AARST MALB 2014 for quality assurance measurements by including duplicate kits, control kits (blanks), and spiked kits.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC  
[www.ieasafety.com](http://www.ieasafety.com)

BROOKLYN PARK  
4201 West Broadway, #600  
Brooklyn Park, MN 55445  
53-315-7900 / FAX 763-315-7920  
800-233-9513

MANKATO  
610 North Riverfront Drive  
Mankato, MN 56001  
507-345-8818 / FAX 507-345-537  
800-233-9513

ROCHESTER  
110 Woodlake Drive SE  
Rochester, MN 55904  
507-281-6664 / FAX 507-281-6662  
800-233-9513

BRAINERD  
501 NW 5<sup>th</sup> Street, Ste. #4  
Brainerd, MN 56401  
218-454-0703 / FAX 218-454-0703  
800-233-9513

MARSHAL  
420 East College Drive  
Marshall, MN 56238  
507-476-3599 / FAX 507-537-6985  
800-233-9513

VIRGINIA  
3525 Emerald Avenue  
Mountain Iron, MN 55768  
218-410-9521  
800-233-9513

**EVALUATION CRITERIA**

The MDH and the EPA have established a recommended action level in frequently occupied areas of 4.0 picoCuries per liter (pCi/L) for an annual average. Testing was conducted during the winter, as recommended by the MDH, when the ventilation system was operating normally, and windows and doors were closed. Consequently, sampling under these “closed” conditions should be considered “worst case.” The 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	Consider re-testing 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 reports, which includes sampling locations, and maps of each building with sampling locations, are provided in Appendix B. The Chain of Custody cover page is also provided in Appendix B. Following are summary results for each building.

***Faribault High School***

A total of 152 test kits were placed at Faribault High School. Four (4) test kits, one each in rooms E107A, D130B, E118, and B113, were missing when the test kits were collected. The results for the other 148 test kits indicated that radon levels were below the action level of 4 pCi/L. See Table 1 below for a summary of the results:

	0.0 – 1.9 pCi/L	2.0 – 2.9 pCi/L	3.0 – 3.9 pCi/L	≥ 4 pCi/L
<b>Number of Tests</b>	145	3	0	0
All below action level				

pCi/L: picocuries per liter

***Lincoln Elementary***

A total of 69 test kits were placed at Lincoln Elementary. The results indicated that radon levels were below the action level of 4 pCi/L. See Table 2 below for a summary of the results:

	0.0 – 1.9 pCi/L	2.0 – 2.9 pCi/L	3.0 – 3.9 pCi/L	≥ 4 pCi/L
<b>Number of Tests</b>	63	6	0	0
All below action level				

pCi/L: picocuries per liter

**Nerstrand Elementary**

A total of 23 test kits were placed at Nerstrand Elementary. The results indicated that radon levels were below the action level of 4 pCi/L. See Table 3 below for a summary of the results:

TABLE 3: Nerstrand Elementary 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	7	12	4	0
All below action level				

pCi/L: picocuries per liter

**Area Learning Center**

A total of 19 test kits were placed at the Area Learning Center. Ten (10) test kits resulted in levels higher than the action level recommended by the EPA for frequently occupied rooms. The results for the other nine (9) test kits indicated that radon levels were lower than the action level of 4 pCi/L. See Table 4 below for a summary of the results:

TABLE 4: Area Learning Center 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	0	1	8	10 <sup>1</sup>
<sup>1</sup> Room A129 – 5.3 pCi/L, Room A107 – 4.7 pCi/L, Room A130 – 4.3 pCi/L, Room A119 – 4.3 pCi/L, Room A128 – 4.3 pCi/L, Room A123 – 4.0 pCi/L and 4.2 pCi/L, Room A117 – 4.2 pCi/L, Room A124 – 4.0 pCi/L, and Room A120 – 4.0 pCi/L				

pCi/L: picocuries per liter

**CONCLUSIONS & RECOMMENDATIONS**

The radon levels in ten (10) sample locations at the Area Learning Center were above the EPA action level of 4 pCi/L. Follow-up testing should be conducted for all sampling results above the action level in occupied areas and non-occupied areas that are adjoining to occupiable areas or could be occupiable with little or no modification. Please refer to the following MDH guidelines. These guidelines should also be considered if test results indicate radon concentrations between 2-4 pCi/L:

1. If the initial test results are greater than 4 pCi/L, conduct Continuous Radon Monitoring short-term testing during the winter months.
2. If the average radon levels from the CRM are below 4 pCi/L during occupancy, then consider re-testing after changes to the building foundation or HVAC system and every 5 years.
3. If the average radon levels from the CRM are above 4 pCi/L during occupancy, then the building HVAC system settings (e.g. start time, night set-back temperature) should be adjusted to allow for improved airflow (and thereby reduce radon infiltration into the building). Conduct follow-up CRM testing to verify radon reduction. Continue to operate HVAC system under adjusted settings to keep radon levels within an acceptable range. Documentation should be kept with HVAC operation instructions for responsible building staff and the Director of Buildings and Grounds that settings are maintained in the future.
4. If the follow-up average radon levels from the CRM are still above 4 pCi/L during occupancy (after the HVAC adjustments have been made), then the district should contact a professional radon mitigation contractor for assistance. IEA recommends using a contact with experience specific to schools.

5. Mitigation is not complete until retests provide evidence of the initial status of system effectiveness. Conduct a Short-Term radon measurement no sooner than 24 hours after a mitigation system is operational and within 30 days after installation of the systems. Repeat the test as soon as possible or within one year under conditions that reasonably represent:
  - Average building operating conditions that normally exist during the greatest amount of significantly occupied time; and
  - Building operating conditions most likely to clearly characterize a radon hazard.

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

- Retest the building at least every 5 years and in conjunction with any sale of a building.
- In addition, be certain to test again when any of the following circumstances occur:
  - A new addition is constructed, or a significant renovation occurs
  - A ground contact area not previously tested is occupied
  - 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.) or
    - Natural settlement causing major cracks to develop
  - Earthquakes, construction blasting, or formation of sink holes nearby or
  - 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 C.

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](mailto: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 #7841 dated February 6, 2019, regarding radon sampling services at the district locations, including the General Conditions attached thereto, no warranties are extended or made.

IEA appreciates the opportunity to submit this analysis to Faribault Public Schools. 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.



Thad Dahling  
Sr. Project Manager

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# **Appendix A**

## *Methodology*

## **Sampling Methodology**

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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. The kit is placed during normal occupancy HVAC operations and 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 Assurance Measurements**

IEA followed ANSI/AARST MALB 2014 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.

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.

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.

# **Appendix B**

*Laboratory Reports and COC Cover Page*



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March 11, 2019

**\*\* LABORATORY ANALYSIS REPORT \*\***

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Radon test result report for:

**ALTERNATE LEARNING CENTER**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9183808	A101	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.5 ± 0.5	2019-03-11
9183810	A107	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.7 ± 0.5	2019-03-11
9183813	A114	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.5 ± 0.5	2019-03-11
9183922	A117	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.2 ± 0.5	2019-03-11
9183940	A118	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.7 ± 0.4	2019-03-11
9183825	A119	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.3 ± 0.5	2019-03-11
9183818	A120	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.0 ± 0.4	2019-03-11
9183946	A121	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.2 ± 0.4	2019-03-11
9183823	A122	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	2.4 ± 0.4	2019-03-11
9183822	A125	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.2 ± 0.4	2019-03-11
9183826	A128	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.3 ± 0.5	2019-03-11
9183817	A129	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	5.3 ± 0.5	2019-03-11
9183816	A130	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.3 ± 0.5	2019-03-11
9183830	A131 REC ROOM	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.3 ± 0.5	2019-03-11
9183820	A132	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.2 ± 0.4	2019-03-11
9183819	D A123-1	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.0 ± 0.4	2019-03-11
9183815	D A123-2	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.2 ± 0.5	2019-03-11
9183814	D A124-1	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	4.0 ± 0.5	2019-03-11
9183828	D A124-2	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	3.7 ± 0.4	2019-03-11

March 11, 2019

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAULT PUBLIC SCHOOLS**  
**FARIBAULT HIGH SCHOOL**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9183994	I23	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183134	A100	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.8 ± 0.3	2019-03-11
9183133	A100A	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183119	A100B	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.3	2019-03-11
9183139	A100C	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183141	A100D	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183125	A100E	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183120	A104	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183122	A106B	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.3	2019-03-11
9183124	A106C	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183106	A108	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183114	A108A	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	2.0 ± 0.4	2019-03-11
9183121	A109	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183128	A109	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.2 ± 0.3	2019-03-11
9183112	A110	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.1 ± 0.4	2019-03-11
9183105	A110	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.2 ± 0.4	2019-03-11
9183110	A112A	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.7 ± 0.4	2019-03-11
9183148	A113	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.3	2019-03-11
9183126	A114	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.3 ± 0.3	2019-03-11
9183103	A114A	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.4	2019-03-11
9183118	A115A	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183146	B100	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.6 ± 0.3	2019-03-11
9183998	B102	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183997	B102A	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9184000	B102B	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183988	B102D	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183984	B102F	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183978	B102F	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183966	B102F	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183999	B103A	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183965	B103B	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183987	B103C	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.8 ± 0.4	2019-03-11
9183956	B104	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183963	B104A	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.4	2019-03-11
9183955	B104B	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183952	B104C	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.5 ± 0.3	2019-03-11
9183949	B104C	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11

March 11, 2019

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:

**FARIBAULT PUBLIC SCHOOLS  
FARIBAULT HIGH SCHOOL**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9183954	B105	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183976	B106A	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183975	B106C	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.6 ± 0.3	2019-03-11
9183970	B106D	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183974	B107	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183983	B107A	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	1.1 ± 0.4	2019-03-11
9183958	B108	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	0.8 ± 0.4	2019-03-11
9183953	B108A	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	1.2 ± 0.4	2019-03-11
9183944	B108B	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	1.5 ± 0.4	2019-03-11
9183897	B108D	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183898	B108F	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183925	B108G	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	1.3 ± 0.4	2019-03-11
9183891	B108H	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.6 ± 0.3	2019-03-11
9183967	B108I	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	1.3 ± 0.4	2019-03-11
9183968	B108J	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.9 ± 0.4	2019-03-11
9183144	B111A	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	2.4 ± 0.4	2019-03-11
9183143	B112	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	2.5 ± 0.4	2019-03-11
9183137	B114	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.1 ± 0.4	2019-03-11
9183972	B115	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.5 ± 0.4	2019-03-11
9183971	B116	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183979	B117	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.9 ± 0.4	2019-03-11
9183981	B121	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.7 ± 0.4	2019-03-11
9183980	B123	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.3 ± 0.4	2019-03-11
9183153	B124	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.1 ± 0.4	2019-03-11
9183131	B125	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.2 ± 0.4	2019-03-11
9183142	B126	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.9 ± 0.3	2019-03-11
9183147	B126A	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.2 ± 0.4	2019-03-11
9183116	BOYS LOCKER ROOM	2019-03-05 @ 8:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183115	BOYS LOCKER ROOM OFFICE	2019-03-05 @ 8:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183123	BOYS POOL LOCKER ROOM	2019-03-05 @ 8:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183989	CONFERENCE ROOM	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.9 ± 0.4	2019-03-11
9183995	COPY ROOM	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183151	D A112-1	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183113	D A112-2	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183109	D A115-1	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.9 ± 0.3	2019-03-11
9183117	D A115-2	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.4	2019-03-11
9183977	D B101-1	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11

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**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAULT PUBLIC SCHOOLS**  
**FARIBAULT HIGH SCHOOL**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9183993	D B101-2	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.3	2019-03-11
9183969	D B103-1	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183996	D B103-2	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183950	D B106B-1	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	0.6 ± 0.3	2019-03-11
9183964	D B106B-2	2019-03-05 @ 6:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183138	D B111-1	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.2 ± 0.4	2019-03-11
9183154	D B111-2	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.5 ± 0.4	2019-03-11
9183992	D B118-1	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.3 ± 0.4	2019-03-11
9183991	D B118-2	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.1 ± 0.4	2019-03-11
9183982	D B122-1	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.0 ± 0.4	2019-03-11
9183973	D B122-2	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.3	2019-03-11
9183107	D D010-1	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.4	2019-03-11
9183104	D D010-2	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.9 ± 0.4	2019-03-11
9183150	D006	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.5 ± 0.3	2019-03-11
9183132	D012	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183136	D104 NORTH	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183130	D104 SOUTH	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183960	D106	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183933	D106	2019-03-05 @ 5:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183951	D108	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183942	D110	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183931	D110A	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183899	D111-1	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183943	D111-2	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183900	D111A	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	0.8 ± 0.3	2019-03-11
9183893	D111B	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183957	D111D	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	0.7 ± 0.4	2019-03-11
9183926	D111F	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183945	D111G	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	0.7 ± 0.3	2019-03-11
9183962	D112	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	0.9 ± 0.4	2019-03-11
9183959	D112 OFFICE	2019-03-05 @ 6:00 am	2019-03-08 @ 7:00 am	1.4 ± 0.4	2019-03-11
9183961	D113	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	0.8 ± 0.4	2019-03-11
9183948	D115	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183947	D115A	2019-03-05 @ 6:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183935	D116	2019-03-05 @ 6:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183176	D130 NORTH	2019-03-05 @ 8:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183127	D134 NORTH	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.6 ± 0.3	2019-03-11

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March 11, 2019

**\*\* LABORATORY ANALYSIS REPORT \*\***

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Radon test result report for:

**FARIBAULT PUBLIC SCHOOLS  
FARIBAULT HIGH SCHOO**

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<u>Kit #</u>	<u>Room Id</u>	<u>Started</u>	<u>Ended</u>	<u>pCi/L</u>	<u>Analyzed</u>
9183140	D134 SOUTH	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.7 ± 0.3	2019-03-11
9183149	E107	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.7 ± 0.3	2019-03-11
9183179	E108D	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	1.0 ± 0.4	2019-03-11
9183145	E110	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	1.1 ± 0.4	2019-03-11
9183180	E111	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.9 ± 0.3	2019-03-11
9183894	MAINTENANCE OFFICE	2019-03-05 @ 5:00 am	2019-03-08 @ 5:00 am	< 0.3	2019-03-11
9183986	MOTHERS ROOM	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	0.7 ± 0.4	2019-03-11
9183108	POOL OFFICE	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183990	SHERRI OFFICE	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	1.2 ± 0.4	2019-03-11
9183135	WOMEN'S LOCKER ROOM	2019-03-05 @ 7:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11

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

March 11, 2019

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:

**FARIBAULT PUBLIC SCHOOLS  
FARIBAULT HIGH SCHOOL**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9183182	B202	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183181	B212	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183161	C007	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.6 ± 0.3	2019-03-11
9183159	C008	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.5 ± 0.4	2019-03-11
9183171	C010	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183156	C011	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183157	C012	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183158	C013	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183165	C014	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183170	C016	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.6 ± 0.4	2019-03-11
9183169	C017	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.7 ± 0.3	2019-03-11
9183178	C019	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.7 ± 0.3	2019-03-11
9183177	C020	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.6 ± 0.3	2019-03-11
9183188	C206	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183187	C216	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183162	D C009-1	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183172	D C009-2	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183164	D C015-1	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183173	D C015-2	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183163	D C018-1	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183174	D C018-2	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183166	D105	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183155	D105A	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	< 0.3	2019-03-11
9183183	D117	2019-03-05 @ 8:00 am	2019-03-08 @ 7:00 am	0.5 ± 0.3	2019-03-11
9183175	D130 SOUTH	2019-03-05 @ 8:00 am	2019-03-08 @ 6:00 am	0.5 ± 0.4	2019-03-11
9183167	D130D	2019-03-05 @ 8:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11
9183160	KITCHEN	2019-03-05 @ 8:00 am	2019-03-08 @ 6:00 am	< 0.3	2019-03-11

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**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:

**LINCOLN ELEMENTARY**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9183838	100	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.8 ± 0.3	2019-03-11
9183802	101	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.0 ± 0.4	2019-03-11
9183824	101A	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.6 ± 0.4	2019-03-11
9183848	101B	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183834	103	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.9 ± 0.4	2019-03-11
9183863	104	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.6 ± 0.4	2019-03-11
9183850	104A	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	2.7 ± 0.4	2019-03-11
9183853	105	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.5 ± 0.4	2019-03-11
9183852	105 WORK ROOM	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.0 ± 0.4	2019-03-11
9183896	107	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	2.7 ± 0.4	2019-03-11
9183880	109	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.8 ± 0.4	2019-03-11
9183858	110	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	0.6 ± 0.4	2019-03-11
9183864	112	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	< 0.3	2019-03-11
9183865	113	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.5 ± 0.4	2019-03-11
9183866	114	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.0 ± 0.4	2019-03-11
9183869	115	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.7 ± 0.4	2019-03-11
9183836	116	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.0 ± 0.4	2019-03-11
9183839	116B	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	< 0.3	2019-03-11
9183870	117	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.6 ± 0.3	2019-03-11
9183861	119B	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.1 ± 0.4	2019-03-11
9183874	120	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.6 ± 0.4	2019-03-11
9183888	121	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.0 ± 0.4	2019-03-11
9183887	121A	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.2 ± 0.4	2019-03-11
9183886	121B	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.5 ± 0.4	2019-03-11
9183885	122	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183847	123	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183827	124	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	1.2 ± 0.4	2019-03-11
9183837	126	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	0.8 ± 0.4	2019-03-11
9183854	127	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	0.6 ± 0.3	2019-03-11
9183833	128	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	0.9 ± 0.3	2019-03-11
9183841	129	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	0.8 ± 0.4	2019-03-11
9183840	130	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	0.5 ± 0.4	2019-03-11
9183857	220	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	0.7 ± 0.4	2019-03-11
9183879	76 - GYM	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	2.3 ± 0.4	2019-03-11
9183867	76- GYM	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	2.2 ± 0.4	2019-03-11
9183807	D 102-1	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.6 ± 0.3	2019-03-11
9183920	D 102-2	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11

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**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:

**LINCOLN ELEMENTARY**

<u>Kit #</u>	<u>Room Id</u>	<u>Started</u>	<u>Ended</u>	<u>pCi/L</u>	<u>Analyzed</u>
9183872	D 108-1	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	2.1 ± 0.4	2019-03-11
9183871	D 108-2	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	2.1 ± 0.4	2019-03-11
9183860	D 111-1	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.6 ± 0.4	2019-03-11
9183859	D 111-2	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.9 ± 0.4	2019-03-11
9183821	D 116A-1	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	0.8 ± 0.4	2019-03-11
9183835	D 116A-2	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	0.7 ± 0.4	2019-03-11
9183876	D 118-1	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.9 ± 0.4	2019-03-11
9183875	D 118-2	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.7 ± 0.4	2019-03-11
9183862	D 119A-1	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.2 ± 0.4	2019-03-11
9183873	D 119A-2	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.3 ± 0.4	2019-03-11
9183829	D 125-1	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	1.0 ± 0.4	2019-03-11
9183832	D 125-2	2019-03-04 @ 4:00 pm	2019-03-08 @ 3:00 am	0.6 ± 0.4	2019-03-11
9183844	D 97-1	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.0 ± 0.3	2019-03-11
9183843	D 97-2	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.3 ± 0.4	2019-03-11
9183856	F 107	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183895	F 109	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183883	F 110	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183882	F 112	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183855	F 114	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183846	F 122	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183849	F 123	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183845	F 129	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183877	GYM	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	1.0 ± 0.4	2019-03-11
9183878	GYM	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.8 ± 0.3	2019-03-11
9183884	KITCHEN OFFICE- HALLWAY	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.8 ± 0.3	2019-03-11
9183851	MEDIA CENTER	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	0.5 ± 0.3	2019-03-11
9183831	MEDIA CENTER	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	0.7 ± 0.3	2019-03-11
9183892	O 102	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183889	O 165	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183890	O 220	2019-03-04 @ 6:00 pm	2019-03-08 @ 3:00 am	< 0.3	2019-03-11
9183881	PE OFFICE	2019-03-04 @ 5:00 pm	2019-03-08 @ 3:00 am	0.8 ± 0.3	2019-03-11
9183868	STAGE	2019-03-04 @ 5:00 pm	2019-03-08 @ 4:00 am	1.9 ± 0.4	2019-03-11



March 11, 2019

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:

**NERSTRAND ELEMENTARY**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9183930	A001	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	3.7 ± 0.4	2019-03-11
9183806	A002	2019-03-04 @ 3:00 pm	2019-03-11 @ 3:00 pm	1.1 ± 0.3	2019-03-11
9183804	A003	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.7 ± 0.4	2019-03-11
9183919	A004	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.6 ± 0.4	2019-03-11
9183927	A005	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	1.7 ± 0.4	2019-03-11
9183934	A007	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	0.9 ± 0.3	2019-03-11
9183805	A008	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	3.5 ± 0.4	2019-03-11
9183801	A009	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.1 ± 0.4	2019-03-11
9183939	A010	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.0 ± 0.4	2019-03-11
9183937	A012	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	1.5 ± 0.4	2019-03-11
9183924	A014	2019-03-04 @ 3:00 pm	2019-03-11 @ 3:00 pm	1.3 ± 0.3	2019-03-11
9183938	A021	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.2 ± 0.4	2019-03-11
9183809	A023 OFFICE	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	1.1 ± 0.4	2019-03-11
9183932	A031 STAGE	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.3 ± 0.4	2019-03-11
9183812	A035	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.5 ± 0.4	2019-03-11
9183811	A036	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	3.6 ± 0.5	2019-03-11
9183803	A108	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	1.9 ± 0.4	2019-03-11
9183918	D A006-1	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.6 ± 0.4	2019-03-11
9183929	D A006-2	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	3.1 ± 0.4	2019-03-11
9183921	D A022-1	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.1 ± 0.4	2019-03-11
9183936	D A022-2	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.5 ± 0.4	2019-03-11
9183928	GYM	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.3 ± 0.4	2019-03-11
9183923	GYM	2019-03-04 @ 3:00 pm	2019-03-08 @ 2:00 am	2.6 ± 0.4	2019-03-11

Chain-of-Custody Cover Page

IEA, Inc.  
9201 West Broadway, Suite 600  
Brooklyn Park, MN 55445  
763-315-7900



Device Type (circle)      Radtrak<sup>2</sup>      Air Check      Pro Chek      CRM

Project Number      201910186

District: Faribault Public Schools      Building: \_\_\_\_\_  
Address: 2800 1st Ave NW Suite 1  
Faribault, MN 55021

Project Manager: Thad Dehling      Time: 3:00 pm

Date Disbursed: 3-4-19

Disbursing Measurement Professional Name: Craig English      Signature: [Signature]

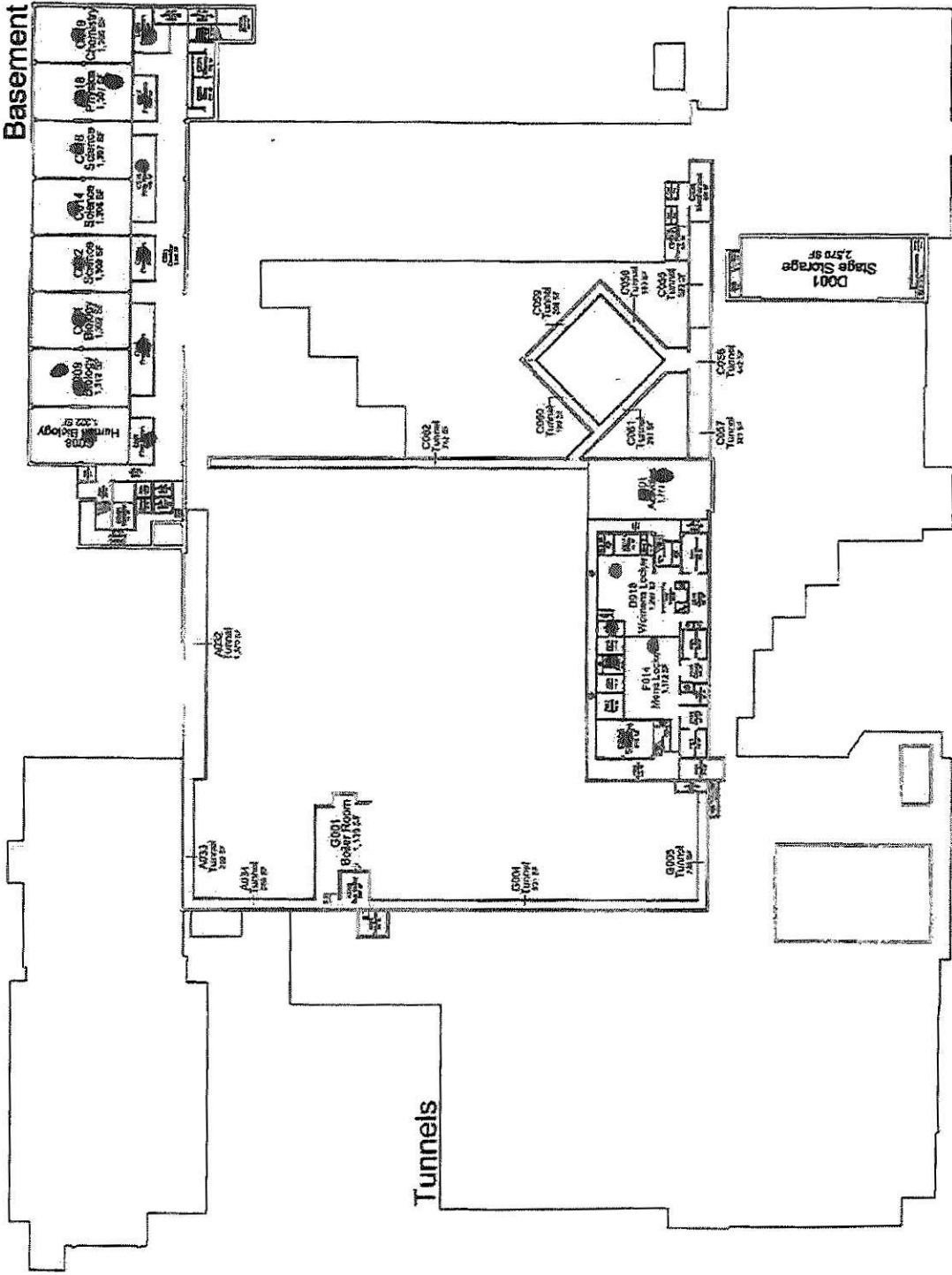
Date Retrieved: 3-8-19      Time Retrieved: 2:30 AM

Retrieving Measurement Professional Name: Craig English      Signature: [Signature]

Date sent to Analytical Lab: 3-8-19      Time: 2:00 pm

Tracking Number: 18-ES4-JW4-01-940-9905      Date Lab Received: \_\_\_\_\_  
Received by: \_\_\_\_\_

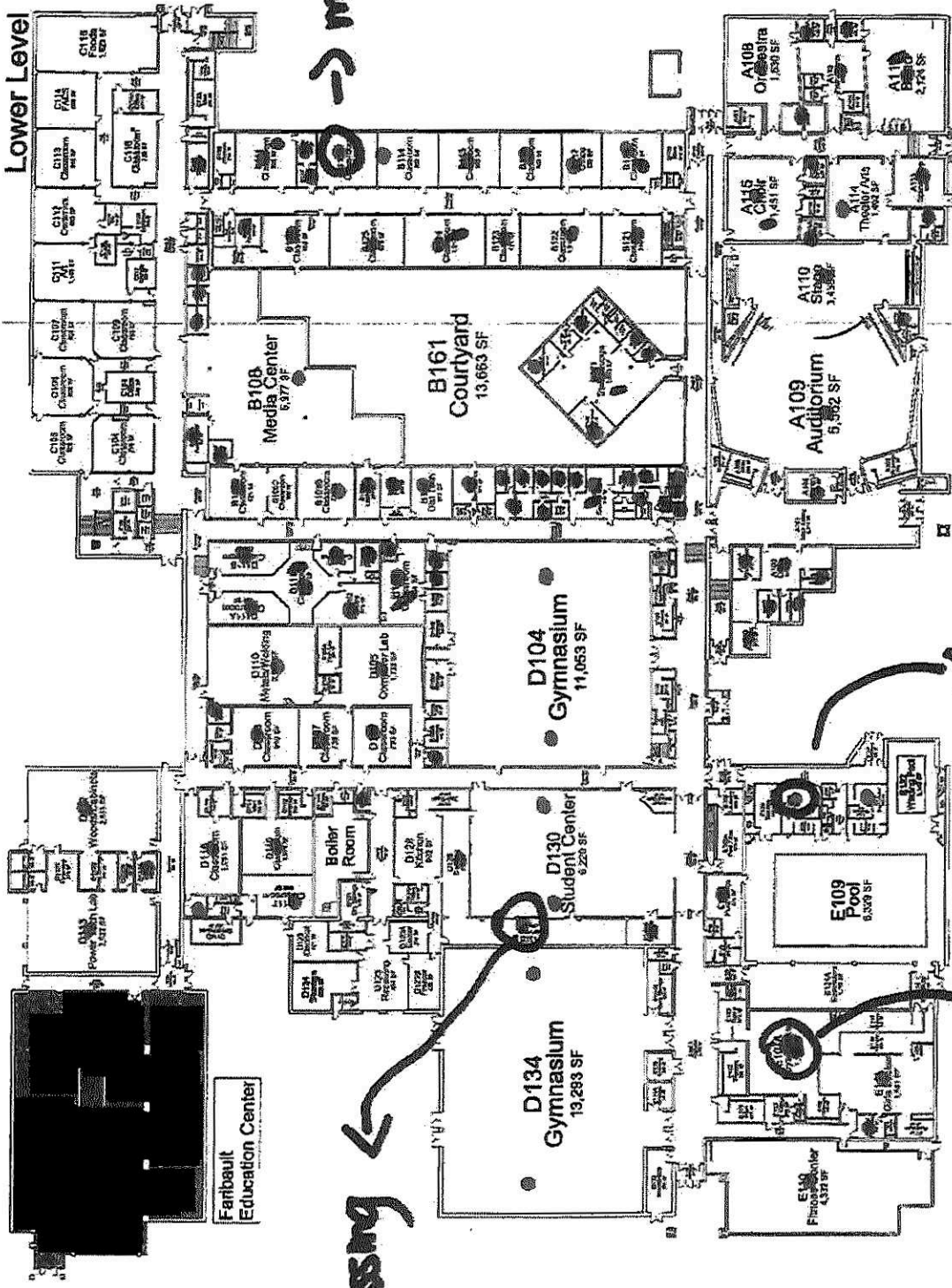
Basement



Faribault High School  
Date 8/12/2018  
Building Room Number-Name-Area



Lower Level



Missing

Missing

Missing

Missing

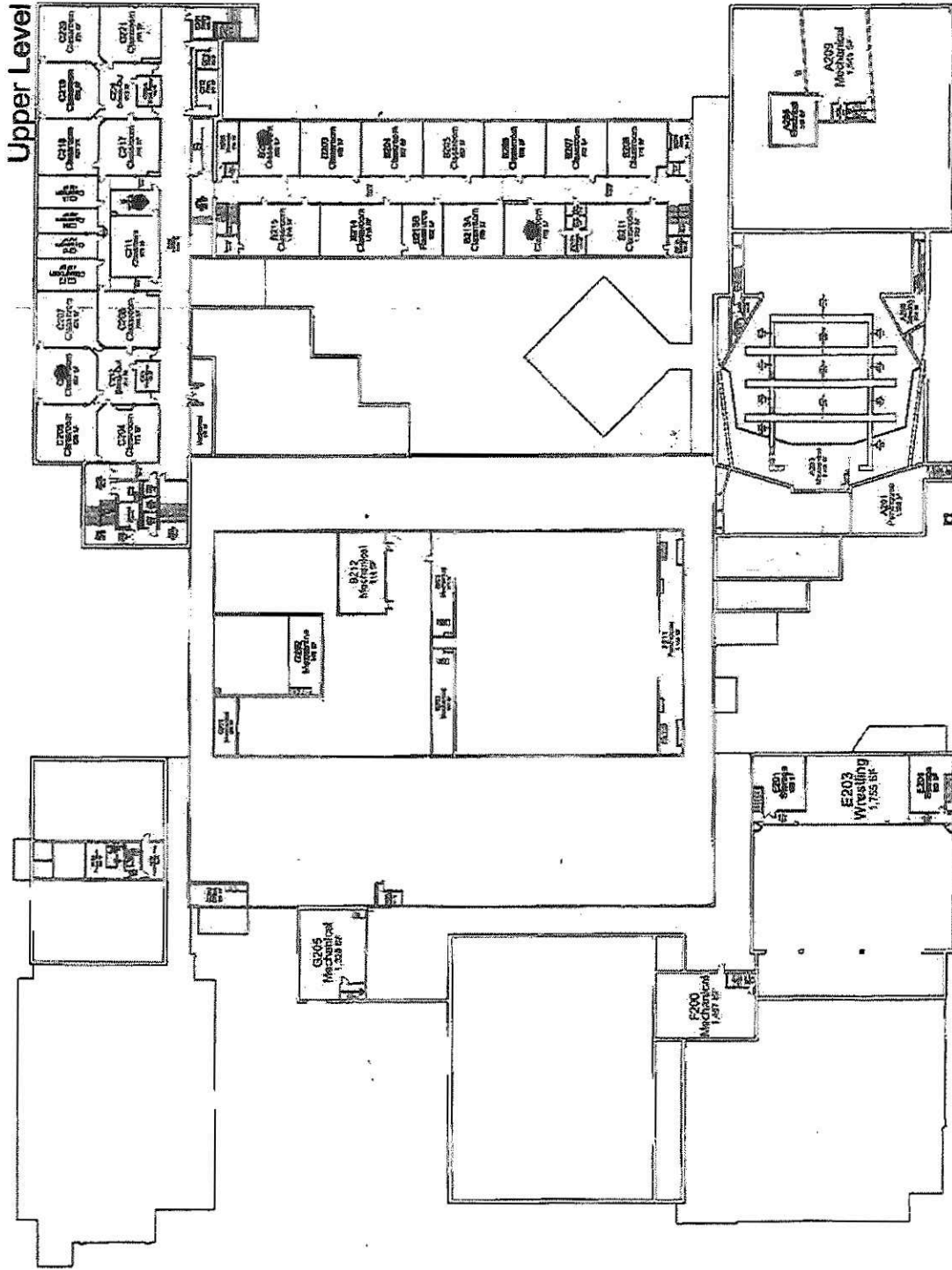


Faribault High School

Building Room Number-Name-Area

Date 8/12/2018






  
**Faribault High School**
  
 Building Room Number-Name-Area

Date  
8/12/2018

E203 Wrestling  
 1,755 sq ft





**Nerstrand Elementary**  
 Building Room Number-Name-Area

Date  
 8/1/2018

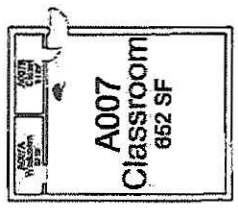
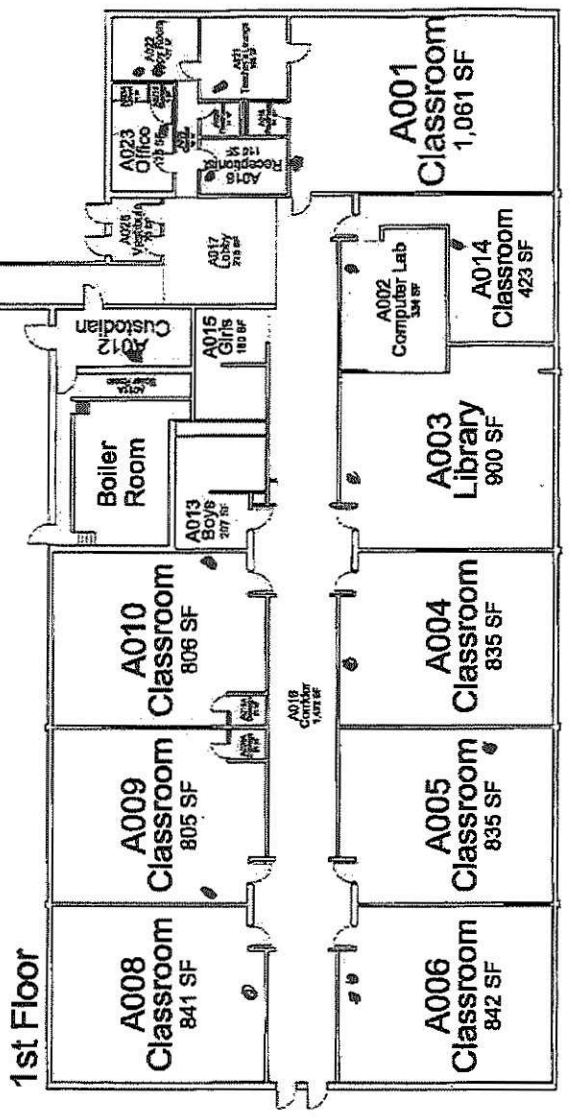
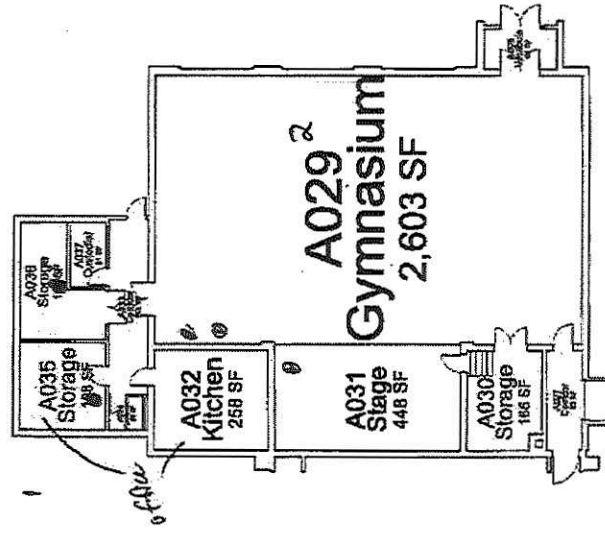


23 +

(23)

Dues  
 11

201510186

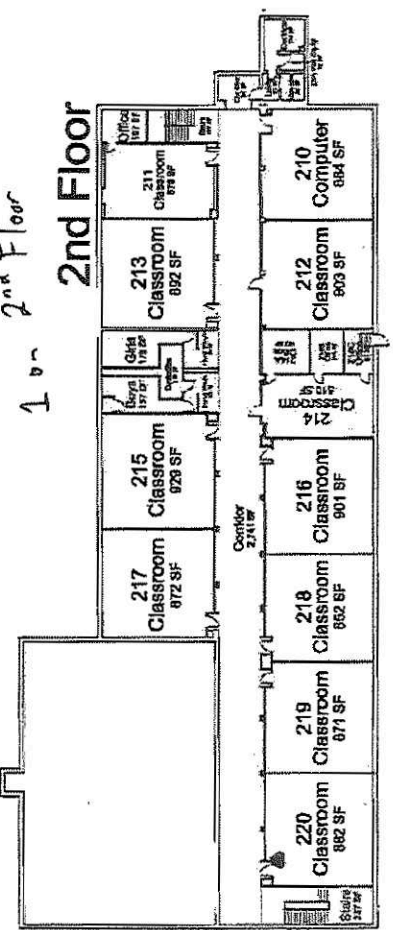




Lincoln Elementary  
 Building Room Number-Name-Area  
 Date 8/6/2018

1st 2nd Floor

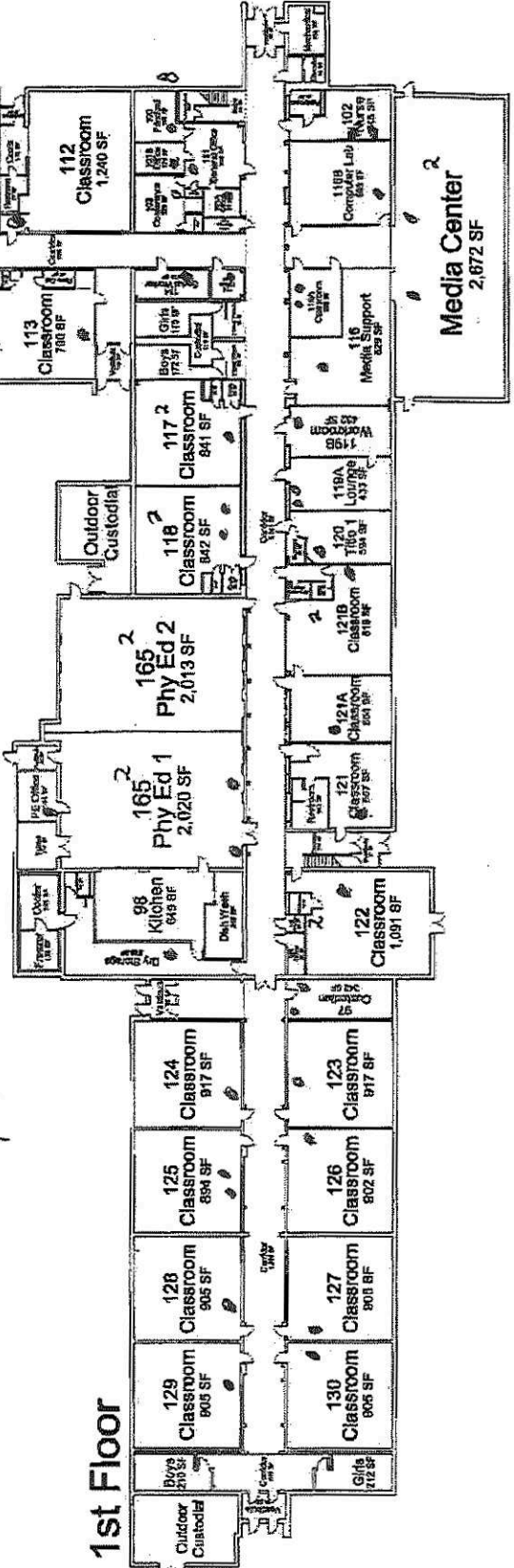
2nd Floor



(56)

Dues  
 HT 111

1st Floor

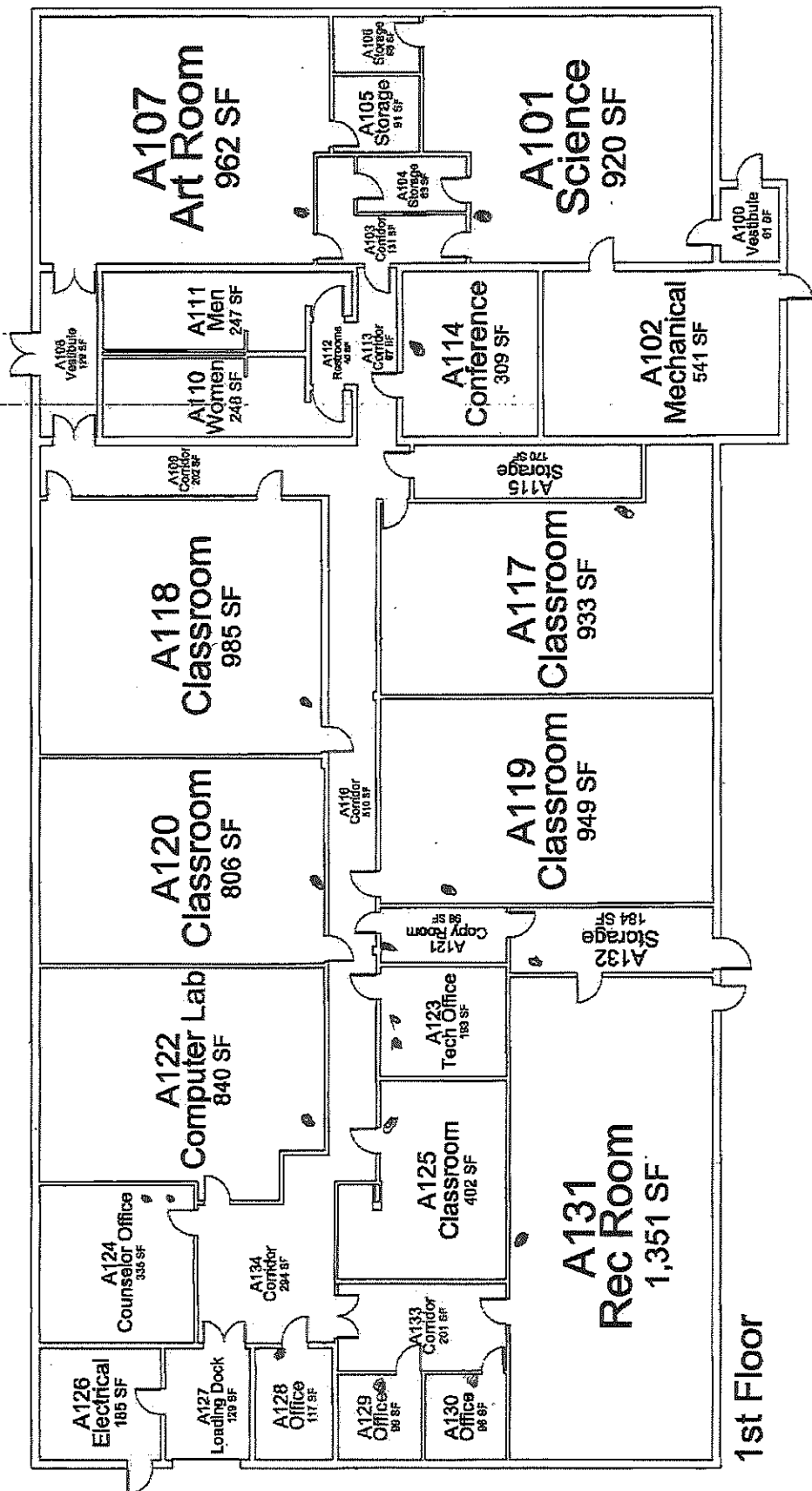


50 +

(16)

16 +

Dup's  
11



	<b>Area Learning Center</b>	Date 8/5/2018
	Architect Room Number & Name	Scale 1" = 17'-0"



# **Appendix C**

*MDH Reporting Form*



# 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](mailto:health.indoorair@state.mn.us).

## Contact Information

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

## Initial Radon Testing Information

School Building Name: \_\_\_\_\_

School District & District Number: \_\_\_\_\_

Building Address: \_\_\_\_\_

Test Kit Manufacturer: \_\_\_\_\_

Device Name: \_\_\_\_\_

Date of Kit Retrieval (DD/MM/YY): \_\_\_\_\_

Length of Test (days): \_\_\_\_\_

How many rooms were tested? \_\_\_\_\_

Does the test period include weekends?  Yes  No

Does the test period include school breaks or holidays?  Yes  No

SCHOOL RADON TESTING REPORTING FORM

Were all frequently-occupied ground contact rooms tested?<sup>1</sup>  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  $\geq 4$  pCi/L?:

Were the results reported at a school board meeting?  Yes  No

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

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

How many rooms had follow-up testing?:

Number of rooms with follow-up results  $\geq 4$  pCi/L:  < 4 pCi/L:

Of the rooms that had test results  $\geq 4$  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?<sup>2</sup>:

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)  $\geq 4$  pCi/L:  < 4 pCi/L:

---

<sup>1</sup> 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'.

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

March 20, 2020

Mr. Kain Smith  
Faribault Public Schools  
1051 Faribault Road  
Faribault, MN 55021





**RE: Faribault Public Schools  
Short-Term Radon Testing Results  
IEA Project #202010084**

Dear Mr. Smith:

IEA placed 339 Air Chek Pro Chek short-term radon test kits in the following four (4) buildings for the purpose of evaluating radon levels:

- Faribault Middle School – 176 samples
- Jefferson Elementary School – 62 samples
- Roosevelt Elementary School – 71 samples
- McKinley Early Childhood Center – 30 samples

The radon samples were placed and retrieved by the following certified radon measurement professionals:

Abe Dickinson	Certification Number: 00270	Signature: 
Kyle Moret	Certification Number: 00042	Signature: 

Conditions of air intakes were good and the ventilation system was operating in good condition at the time of placement and retrieval.

## 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.

IEA placed 339 Air Chek Pro Chek short-term radon test kits in frequently occupied areas in the district buildings for the purpose of sampling for radon in accordance with the MDH's *Guidance for Radon Testing in Minnesota Schools* (2018) and ANSI/AARST 'Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings' (ANSI/AARST MALB 2014). A total of 339 radon test kits were placed from March 2, 2020, to March 5, 2020, for a total short-term sampling period of three (3) days. Two (2) test kits were 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

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC  
[www.ieasafety.com](http://www.ieasafety.com)

BROOKLYN PARK  
2301 West Broadway, #600  
Brooklyn Park, MN 55445  
763-315-7900 / FAX 763-315-7922  
800-233-9513

MANKATO  
610 North Riverfront Drive  
Mankato, MN 56001  
507-345-8818 / FAX 507-345-537  
800-233-9513

ROCHESTER  
210 Woodlake Drive SE  
Rochester, MN 55904  
507-281-6664 / FAX 507-281-6697  
800-233-9513

BRAINERD  
501 NW 5<sup>th</sup> Street, Ste. #4  
Brainerd, MN 56401  
218-454-0703 / FAX 218-454-0705  
800-233-9513

MARSHALL  
420 East College Drive  
Marshall, MN 56238  
\*07-476-3599 / FAX 507-537-6988  
800-233-9513

VIRGINIA  
5525 Emerald Avenue  
Mountain Iron, MN 55768  
218-410-9521  
800-233-9513

River, NC 28759. The sampling and analysis methodologies are provided in Appendix A. IEA followed ANSI/AARST MALB 2014 for quality assurance measurements by including duplicate kits, control kits (blanks), and spiked kits.

**EVALUATION CRITERIA**

The MDH and the EPA have established a recommended action level in frequently 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 as it normally is during school days. 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 reports, including maps of each building with sampling locations marked, are provided in Appendix B. The chain of custody cover pages are also provided in Appendix B. Following are summary results for each building.

**Faribault Middle School**  
704 – 17th Street SW  
Faribault MN 55021

A total of 176 test kits were placed at Faribault Middle School. Two (2) test kits, one each in Room A112 and Gym 1 (2<sup>nd</sup>), were missing when the test kits were collected. The results for the 174 test kits ranged from below the level of detection (<0.3 pCi/L) to 2.3 pCi/L. The results indicated that radon levels were below the action level of 4 pCi/L. See Table 1 for a summary of the 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	173	1	0	0
All below action level				

pCi/L: picocuries per liter

**Jefferson Elementary School**  
922 Home Place  
Faribault MN 55021

A total of 62 test kits were placed at Jefferson Elementary School. The results ranged from below the level of detection (<0.3 pCi/L) to 4.7 pCi/L. The results indicated that radon levels were above the action level of 4 pCi/L. See Table 2 for a summary of the results:

<b>TABLE 2: Jefferson Elementary School RANGE OF RESULTS</b>				
	<b>0.0 – 1.9 pCi/L</b>	<b>2.0 – 2.9 pCi/L</b>	<b>3.0 – 3.9 pCi/L</b>	<b>≥ 4 pCi/L</b>
<b>Number of Tests</b>	59	1	1	1 <sup>1</sup>
<sup>1</sup> Room B133 – 4.7 pCi/L				

pCi/L: picocuries per liter

**Roosevelt Elementary School**  
925 Parshall Street  
Faribault MN 55021

A total of 71 test kits were placed at Roosevelt Elementary School. The results ranged from below the level of detection (<0.3 pCi/L) to 1.8 pCi/L. The results indicated that radon levels were below the action level of 4 pCi/L. See Table 3 for a summary of the results:

<b>TABLE 3: Roosevelt Elementary School RANGE OF RESULTS</b>				
	<b>0.0 – 1.9 pCi/L</b>	<b>2.0 – 2.9 pCi/L</b>	<b>3.0 – 3.9 pCi/L</b>	<b>≥ 4 pCi/L</b>
<b>Number of Tests</b>	71	0	0	0
All below action level				

pCi/L: picocuries per liter

**McKinley Early Childhood Center**  
930 – 4th Avenue NW  
Faribault MN 55021

A total of 30 test kits were placed at McKinley Early Childhood Center. The results ranged from below the level of detection (<0.3 pCi/L) to 2.0 pCi/L. The results indicated that radon levels were below the action level of 4 pCi/L. See Table 4 for a summary of the results:

<b>TABLE 4: McKinley Early Childhood Center RANGE OF RESULTS</b>				
	<b>0.0 – 1.9 pCi/L</b>	<b>2.0 – 2.9 pCi/L</b>	<b>3.0 – 3.9 pCi/L</b>	<b>≥ 4 pCi/L</b>
<b>Number of Tests</b>	29	1	0	0
All below action level				

pCi/L: picocuries per liter

**CONCLUSIONS & RECOMMENDATIONS**

The radon level in one (1) sample location at Jefferson Elementary School was above the EPA action level of 4 pCi/L. The test data is not yet fully adequate to make decisions whether to mitigate. Follow-up testing should be conducted for all sampling results above the action level in occupied areas and non-occupied areas that are adjoining to occupiable areas or could be occupiable with little or no modification. Please refer to the following MDH guidelines. Guidelines 1-4 should also be considered if test results indicate radon concentrations between 2-4 pCi/L during the first round of testing. If radon levels continue to indicate concentrations between 2-4 guideline 5 should be considered:

1. If the initial test results are greater than 4 pCi/L, conduct Continuous Radon Monitoring short-term testing during the winter months.

2. If the average radon levels from the CRM are below 4 pCi/L during occupancy, then consider re-testing after changes to the building foundation or HVAC system and every 5 years.
3. If the average radon levels from the CRM are above 4 pCi/L during occupancy, then the building HVAC system settings (e.g. start time, night set-back temperature) should be adjusted to allow for improved airflow (and thereby reduce radon infiltration into the building). Conduct follow-up CRM testing to verify radon reduction. Continue to operate HVAC system under adjusted settings to keep radon levels within an acceptable range. Documentation should be kept with HVAC operation instructions for responsible site staff and the responsible district staff to make sure that settings are maintained in the future.
4. If the follow-up average radon levels from the CRM are still above 4 pCi/L during occupancy (after the HVAC adjustments have been made), then the district should contact a professional radon mitigation contractor for assistance. IEA recommends using a contact with experience specific to schools.
5. Mitigation is not complete until retests provide evidence of the initial status of system effectiveness. Conduct a short-term radon measurement no sooner than 24 hours after a mitigation system is operational and within 30 days after installation of the systems. Repeat the test as soon as possible or within one year under conditions that reasonably represent:
  - Average building operating conditions that normally exist during the greatest amount of significantly occupied time.
  - Building operating conditions most likely to clearly characterize a radon hazard.

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

- Retest the building at least every 5 years and in conjunction with any sale of a building.
- In addition, be certain to test again when any of the following circumstances occur:
  - A new addition is constructed, or a significant renovation occurs
  - A ground contact area not previously tested is occupied
  - 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.) or
    - Natural settlement causing major cracks to develop
  - Earthquakes, construction blasting, or formation of sink holes nearby or
  - 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](mailto: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 at district buildings 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 #8696 dated January 16, 2020, regarding radon sampling services at the district locations, including the General Conditions attached thereto, no warranties are extended or made.

IEA appreciates the opportunity to submit this analysis to the district. 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.

  
Thad Dahling  
EHS Account Manager

Reviewed by:

  
Karen Weiblen  
EHS/IEQ Consultant

Enc.



# **Appendix A**

*Methodology and Quality Control Measurements*

## **Sampling 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. The kit is placed during normal occupancy HVAC operations and 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 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.

ANSI/AARST MALB 2014 requires the reporting of duplicate measurements and their average. See Table 5.

**Table 5: Duplicate Device Measurements and Averages**

Building	Location	Test 1 (pCi/L)	Test 2 (pCi/L)	Average (pCi/L)
Faribault Middle School	Room A105	< 0.3	< 0.3	< 0.3
Faribault Middle School	Room A114	1.0	1.0	1.0
Faribault Middle School	Room A120	< 0.3	< 0.3	< 0.3
Faribault Middle School	Room A123	0.7	0.8	0.8
Faribault Middle School	Room A132	0.6	0.5	0.6
Faribault Middle School	Room A137	< 0.3	1.0	0.6
Faribault Middle School	Room B105	< 0.3	< 0.3	< 0.3
Faribault Middle School	Room B111	< 0.3	0.8	0.5
Faribault Middle School	Room C101	0.9	1.0	1.0
Faribault Middle School	Room C111 Office	0.6	< 0.3	0.4
Faribault Middle School	DO Room 102	< 0.3	< 0.3	< 0.3
Faribault Middle School	DO Room 122	< 0.3	< 0.3	< 0.3
Faribault Middle School	DO Copier Area	< 0.3	< 0.3	< 0.3
Faribault Middle School	DO Secretary Desk	< 0.3	< 0.3	< 0.3
Faribault Middle School	Main Office	< 0.3	0.5	0.4
Faribault Middle School	Media Center Office Teague	< 0.3	< 0.3	< 0.3
Faribault Middle School	Staff Lounge	< 0.3	< 0.3	< 0.3
Jefferson Elementary	Room A109	< 0.3	< 0.3	< 0.3
Jefferson Elementary	Room A121	0.6	0.5	0.6
Jefferson Elementary	Room A149	< 0.3	0.6	0.4
Jefferson Elementary	Room B106	1.1	1.0	1.1
Jefferson Elementary	Room B115	0.6	0.7	0.7
Jefferson Elementary	Room B133	4.7	3.3	4.0
Roosevelt Elementary	Room A101	0.6	0.7	0.7
Roosevelt Elementary	Room A109	1.2	1.1	1.2
Roosevelt Elementary	Room A138	0.6	1.0	0.8
Roosevelt Elementary	Room A158	< 0.3	< 0.3	< 0.3
Roosevelt Elementary	Room A161A	< 0.3	< 0.3	< 0.3
Roosevelt Elementary	Room B107	0.5	< 0.3	0.4
Roosevelt Elementary	Room C124	< 0.3	< 0.3	< 0.3

**Table 5 - continued**

Building	Location	Test 1 (pCi/L)	Test 2 (pCi/L)	Average (pCi/L)
McKinley Elementary	Room A104	0.6	0.6	0.6
McKinley Elementary	Room A128	0.9	0.7	0.8
McKinley Elementary	Room A145	1.7	1.4	1.6

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. The five (5) field blanks for Faribault Middle School are listed in the laboratory report as “F-A121, F-A133, F-A164, F-C134, and F-D101;” the two (2) field blanks for the Jefferson Elementary School are listed in the laboratory report as “F B133-1 and F B133-2;” the two (2) field blanks for the Roosevelt Elementary School are listed in the laboratory report as “F C134-1, and F C134-2;” and the one (1) field blank for the McKinley Early Childhood Center is listed in the laboratory report as “F A117.” Those results are all < 0.3 pCi/L. The five (5) office blanks testing results all are < 0.3 pCi/L. See Table 6 for Lab-Transit blanks results completed for our laboratory.

Date	Device ID	Radon Concentration
4/17/2019	9169251	< 0.3
4/17/2019	9169252	< 0.3
4/17/2019	9169253	< 0.3
4/17/2019	9169254	< 0.3
4/17/2019	9169255	< 0.3
11/9/2019	9184108	< 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. See Table 7 for the spiked results completed for our laboratory.

Date	Device ID	Measured Value (pCi/L)	Reference Value (pCi/L)
11/11/2019	0001	22.9	24.0
11/11/2019	0002	26.9	24.0
11/11/2019	0003	24.3	24.0

## **Appendix B**

*Chain-of-Custody Cover Pages,  
Laboratory Reports, and Maps*

Chain-of-Custody Cover Page



IEA, Inc.  
9201 West Broadway, Suite 600  
Brooklyn Park, MN 55445  
763-315-7900

Device Type (check)

Radtrak<sup>2</sup>



Pro Chek

CRM

Project Number

202010084

Faribault Middle School

704 17<sup>th</sup> St. SW 5518

District:

Faribault PS

Building:  
Address:

Faribault, MN 55021

Project Manager:

Thad Dahling

Date Disbursed:

3/2/2020

Time:

8:00 AM

Disbursing  
Measurement  
Professional Name:

Kyle Moret

Signature:

[Signature]

Date Retrieved:

3/5/2020

Time Retrieved:

7:45 AM

Retrieving  
Measurement  
Professional Name:

Kyle Moret

Signature:

[Signature]

Date sent to Analytical  
Lab:

3/5/2020

Time:

3:45 PM

Tracking Number:

1Z E84 7W4  
02 9903 6596

Date Lab  
Received:  
Received  
by:

March 10, 2020

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAULT PS  
MIDDLE SCHOOL**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9399553	A100	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.6 ± 0.4	2020-03-09
9399552	A101	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399551	A102	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399550	A103	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399540	A104	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399539	A106	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399546	A107	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399532	A108	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.7 ± 0.4	2020-03-09
9399533	A109	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399538	A110	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399531	A111	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	0.6 ± 0.3	2020-03-09
9399547	A113	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	1.4 ± 0.4	2020-03-09
9399537	A116	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	0.8 ± 0.3	2020-03-09
9399536	A117	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	0.6 ± 0.3	2020-03-09
9399534	A118	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399548	A118 ROOM A	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399535	A119	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400164	A122	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400198	A124	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400190	A125	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400189	A125 MIDDLE ROOM	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.3	2020-03-09
9400192	A125 NORTH ROOM	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.3	2020-03-09
9400171	A125 SOUTH ROOM	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.3	2020-03-09
9400197	A126/121	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400170	A128	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400161	A129	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	1.2 ± 0.4	2020-03-09
9400162	A130	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400195	A133	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400187	A134	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400194	A135	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.8 ± 0.3	2020-03-09
9400182	A136	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.9 ± 0.3	2020-03-09
9400196	A136 MIDDLE OFFICE	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.5 ± 0.4	2020-03-09
9400183	A136 NORTH OFFICE	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.7 ± 0.3	2020-03-09
9400184	A136 OFFICE SOUTH	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	1.2 ± 0.4	2020-03-09
9400199	A138	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.9 ± 0.4	2020-03-09
9399561	ASSISTANT PRINCIPAL	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400178	AUDITORIUM-1	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.1 ± 0.4	2020-03-09

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**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAULT PS  
MIDDLE SCHOOL**

<u>Kit #</u>	<u>Room Id</u>	<u>Started</u>	<u>Ended</u>	<u>pCi/L</u>	<u>Analyzed</u>
9400185	AUDITORIUM-2	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.3 ± 0.4	2020-03-09
9400149	B101	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400147	B104	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400143	B107	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400139	B108	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400145	B109	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.3	2020-03-09
9400140	B110	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400109	B112	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400151	B113	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400134	BAND ROOM	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.4	2020-03-09
9400159	BOYS LOCKER ROOM	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	2.3 ± 0.4	2020-03-09
9400150	BOYS LOCKER ROOM COACHES LOCKERS	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.3 ± 0.4	2020-03-09
9400160	BOYS LOCKER ROOM OFFICE	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.7 ± 0.4	2020-03-09
9400110	C100 ORCHESTRA	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400113	C102 CHORUS	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400119	C102 OFFICE	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.4	2020-03-09
9400120	C103	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.9 ± 0.4	2020-03-09
9400121	C103 OFFICE	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400114	C104	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.3	2020-03-09
9400118	C105 PIANO PRACTICE	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.3	2020-03-09
9400135	C105 STAFF OFFICE BARRON	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400136	C105 STAFF OFFICE BRADSHAW	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.8 ± 0.4	2020-03-09
9400137	C105 STAFF OFFICE SLOANE	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400129	C106	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.9 ± 0.3	2020-03-09
9400133	C108	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400122	C109	2020-03-02 @ 9:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.3	2020-03-09
9400124	C110	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.4	2020-03-09
9400125	C111-1	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.9 ± 0.3	2020-03-09
9400117	C111-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.9 ± 0.4	2020-03-09
9400123	C112 WOODS -2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400126	C112 WOODS-1	2020-03-02 @ 9:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400127	C113	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400108	CAFETERIA- 1	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400005	CAFETERIA-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400004	CAFETERIA-3	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400144	CONCESSION STAND	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9399559	CONFERENCE ROOM STUDENT SERVICES	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	0.8 ± 0.4	2020-03-09



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**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAULT PS  
MIDDLE SCHOOL**

<u>Kit #</u>	<u>Room Id</u>	<u>Started</u>	<u>Ended</u>	<u>pCi/L</u>	<u>Analyzed</u>
9400002	CUSTODIAL OFFICE	2020-03-02 @ 8:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9399527	D-A105-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399528	D-A105-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399545	D-A114-1	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9399529	D-A114-2	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9400169	D-A120-1	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400163	D-A120-2	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400166	D-A123-1	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.7 ± 0.3	2020-03-09
9400165	D-A123-2	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.8 ± 0.3	2020-03-09
9400188	D-A132-1	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.4	2020-03-09
9400193	D-A132-2	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.5 ± 0.4	2020-03-09
9400200	D-A137-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400191	D-A137-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.0 ± 0.4	2020-03-09
9400138	D-B105-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400148	D-B105-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400146	D-B111-1	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400115	D-B111-2	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.8 ± 0.4	2020-03-09
9400112	D-C101-1	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.9 ± 0.4	2020-03-09
9400111	D-C101-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	1.0 ± 0.4	2020-03-09
9400130	D-C111 OFFICE -1	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400128	D-C111 OFFICE-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9399558	D-DO 102-1	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399564	D-DO 102-1	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399594	D-DO 122-1	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399589	D-DO 122-2	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399570	D-DO COPIER AREA-1	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399577	D-DO COPIER AREA-2	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399593	D-DO SECRETARY DESK-1	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399567	D-DO SECRETARY DESK-2	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399542	D-MAIN OFFICE-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399554	D-MAIN OFFICE-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.5 ± 0.4	2020-03-09
9400141	D-MEDIA CENTER OFFICE TEAGUE-1	2020-03-02 @ 9:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400142	D-MEDIA CENTER OFFICE TEAGUE-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400153	D-STAFF LOUNGE -1	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400155	D-STAFF LOUNGE-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9399591	D0 124	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400006	D103	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09

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Radon test result report for:

**FARIBAULT PS  
MIDDLE SCHOOL**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9399562	DEAN OF STUDENTS	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399595	DO 119	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399575	DO 120	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399590	DO 121	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399592	DO 123	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399584	DO 125	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399583	DO 126	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399586	DO 127	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399588	DO 131	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399582	DO 132	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399574	DO 133	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399585	DO 134	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399581	DO 135	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399572	DO 136	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399580	DO 137	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399569	DO 138	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399571	DO 139	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399579	DO 140	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399578	DO 144	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399573	DO 147	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399576	DO AREA OUTSIDE 120	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399568	DO CUBICLE AREA BY 127	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399556	DO FALCON A/B CONFERENCE ROOM	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399596	DO GARFIELD CONFERENCE ROOM	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399587	DO MAIL ROOM	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399555	DO WASHINGTON CONFERENCE ROOM	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9399544	F-A121	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399597	F-A133	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399543	F-A164	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399598	F-C134	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399599	F-D101	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400168	GIRLS LOCKER ROOM	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.8 ± 0.4	2020-03-09
9400172	GIRLS LOCKER ROOM COACHES LOCKERS	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.5 ± 0.4	2020-03-09
9400158	GIRLS LOCKER ROOM OFFICE	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.0 ± 0.4	2020-03-09
9399549	GREENHOUSE ROOM	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400176	GYM 1-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.0 ± 0.4	2020-03-09
9400174	GYM 2-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.3 ± 0.3	2020-03-09

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Radon test result report for:

**FARIBAULT PS  
MIDDLE SCHOOL**

<u>Kit #</u>	<u>Room Id</u>	<u>Started</u>	<u>Ended</u>	<u>pCi/L</u>	<u>Analyzed</u>
9400186	GYM 2-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.3 ± 0.4	2020-03-09
9400173	GYM 3-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.6 ± 0.4	2020-03-09
9400167	GYM 3-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.4 ± 0.4	2020-03-09
9400156	GYM 4-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400157	GYM 4-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.5 ± 0.4	2020-03-09
9399557	ISS	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	0.5 ± 0.3	2020-03-09
9400107	KITCHEN	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400106	KITCHEN BREAKROOM	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400003	KITCHEN OFFICE	2020-03-02 @ 8:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400131	MEDIA CENTER -1	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.5 ± 0.3	2020-03-09
9400152	MEDIA CENTER FERNBROOK OFFICE	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400154	MEDIA CENTER OFFICE PRIVRATSKY	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400116	MEDIA CENTER WORK AREA	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.5 ± 0.3	2020-03-09
9400132	MEDIA CENTER-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9399563	NURSES EXAM ROOM	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	0.6 ± 0.4	2020-03-09
9399560	NURSES OFFICE	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9363516	O-A159	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399600	O-E130	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9399566	PRINCIPAL'S OFFICE	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	0.8 ± 0.3	2020-03-09
9399565	SCHOOL RESOURCE OFFICER	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	0.7 ± 0.3	2020-03-09
9399541	SCIENCE PREP ROOM	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400181	STAGE-1	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.0 ± 0.4	2020-03-09
9400180	STAGE-2	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.1 ± 0.4	2020-03-09
9399504	STUDENT SERVICES LOBBY	2020-03-02 @ 1:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400179	WRESTLING ROOM-1	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.9 ± 0.4	2020-03-09
9400177	WRESTLING ROOM-2	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09



Chain-of-Custody Cover Page



IEA, Inc.  
9201 West Broadway, Suite 201  
Woodbury Park, MN 55125  
50-315-2940

Device Type (check)  Radcheck  Pro Check  CRM

Project Number 202010084 Jefferson Elementary  
District: Fairbault PS Building: 922 Home Place  
Address: Fairbault, MN 55101

Project Manager: Thw. Dickinson

Date Disbarred: 3/2/2020 Time: 8:00 AM

Disbarcing Measurement Professional Name: Abc Dickinson Signature: [Signature]

Date Retrieved: 3/5/20 Time Retrieved: 8:00 AM

Retrieving Measurement Professional Name: Abc Dickinson Signature: [Signature]

Date sent to Analytical Lab: 3/5/20 Time: 3:45 PM

Tracking Number: 42 651 7W4 Date Lab Received: \_\_\_\_\_  
02 9903 Received by: \_\_\_\_\_  
6596

March 10, 2020

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAULT PUBLIC SCHOOLS**  
**JEFFERSON ELEMENTARY**

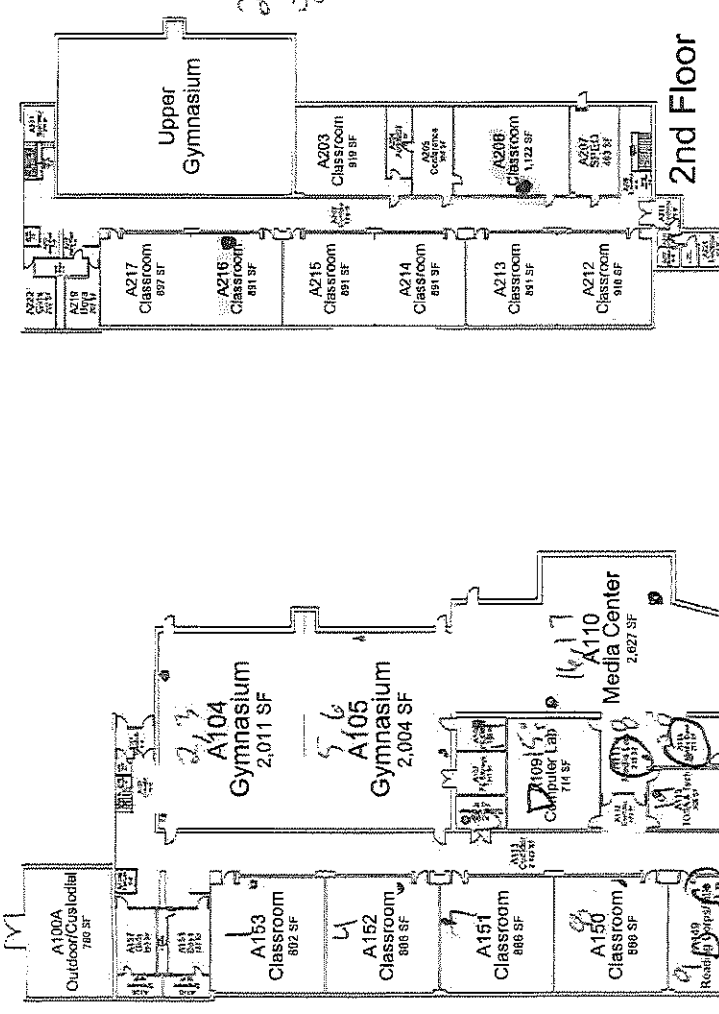
<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9400242	A104 NORTH	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400244	A104 SOUTH	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9399524	A105 NORTH	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400241	A105 SOUTH	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.4	2020-03-09
9400294	A108	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400246	A108	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400257	A110 NORTH	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400252	A110 SOUTH	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400254	A111	2020-03-02 @ 9:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400253	A114	2020-03-02 @ 9:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400250	A115	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400251	A116	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400263	A117	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400259	A118	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400266	A124	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.9 ± 0.4	2020-03-09
9400267	A126	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.1 ± 0.4	2020-03-09
9400268	A131	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400265	A132	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.3	2020-03-09
9400269	A142	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.5 ± 0.4	2020-03-09
9400258	A142A	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.0 ± 0.4	2020-03-09
9400264	A142B	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.1 ± 0.4	2020-03-09
9400260	A145	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.4	2020-03-09
9400262	A147	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400261	A148	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.4	2020-03-09
9400249	A150	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400243	A151	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400245	A152	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.5 ± 0.4	2020-03-09
9399523	A153	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400300	A206	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400299	A216	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	0.5 ± 0.3	2020-03-09
9400280	B103	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.0 ± 0.4	2020-03-09
9400281	B104	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.4 ± 0.4	2020-03-09
9400277	B105	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.3	2020-03-09
9400288	B112	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.9 ± 0.4	2020-03-09
9400278	B113	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.1 ± 0.3	2020-03-09
9400285	B114	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.7 ± 0.3	2020-03-09
9400296	B117	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.4	2020-03-09

March 10, 2020

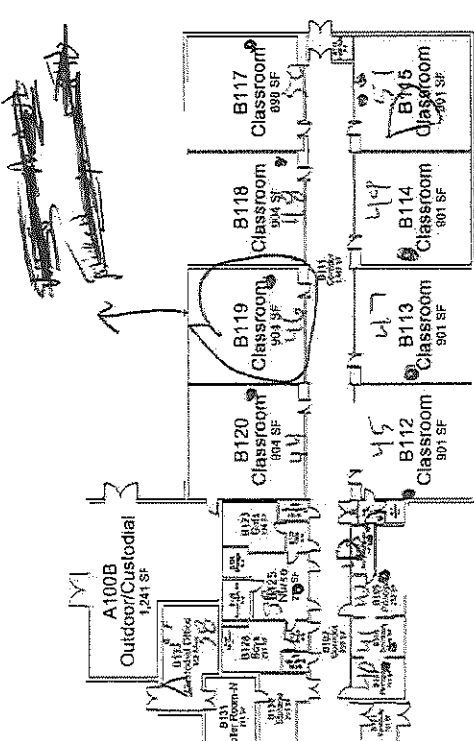
**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAULT PUBLIC SCHOOLS**  
**JEFFERSON ELEMENTARY**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9400290	B118	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400284	B119	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400289	B120	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.3	2020-03-09
9400287	B125	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400274	B135	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.7 ± 0.4	2020-03-09
9400272	B137	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.4 ± 0.4	2020-03-09
9400273	B143	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.7 ± 0.4	2020-03-09
9400276	B144 NORTH	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	1.1 ± 0.4	2020-03-09
9400275	B144 SOUTH	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.7 ± 0.4	2020-03-09
9400279	B146	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	2.5 ± 0.4	2020-03-09
9400247	D A109-1	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400248	D A109-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	< 0.3	2020-03-09
9400270	D A121-1	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.4	2020-03-09
9400271	D A121-2	2020-03-02 @ 10:00 am	2020-03-05 @ 8:00 am	0.5 ± 0.4	2020-03-09
9400255	D A149-1	2020-03-02 @ 9:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400256	D A149-2	2020-03-02 @ 9:00 am	2020-03-05 @ 8:00 am	0.6 ± 0.3	2020-03-09
9400282	D B106-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.1 ± 0.4	2020-03-09
9400283	D B106-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	1.0 ± 0.4	2020-03-09
9400286	D B115-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.6 ± 0.3	2020-03-09
9400291	D B115-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	0.7 ± 0.3	2020-03-09
9400292	D B133-1	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	4.7 ± 0.4	2020-03-09
9400293	D B133-2	2020-03-02 @ 10:00 am	2020-03-05 @ 9:00 am	3.3 ± 0.4	2020-03-09
9400295	F B133-1	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400297	F B133-2	2020-03-02 @ 11:00 am	2020-03-05 @ 9:00 am	< 0.3	2020-03-09
9400298	O B133	2020-03-02 @ 11:00 am	2020-03-05 @ 12:00 pm	< 0.3	2020-03-09



6 duplicates  
2 hold  
1 office  
62 on PLEW



1st Floor



Chain-of-Custody Cover Page



IEA, LLC  
9201 West Bromway, Suite 100  
Brockton Park, MN 55244  
163.312.6000

Device Type (check)  Radtrak?  Pro Chet  CRM

Project Number: 202010004  
District: Fairbault PS

Building: Prochem E-chem | Milwaukee EU center  
Address: 925 Fairchild St. Fairbault, MN 57921 | 490 4th Ave SW Fairbault, MN 55021

Project Manager: Theo Dahling

Date Disbursed: 3/2/2020 Time: 10:00 AM

Disbursing Measurement Professional Name: Abe Dickinson Signature: [Signature]

Date Retrieved: 3/5/2020 Time Retrieved: 10:00 AM

Retrieving Measurement Professional Name: [Signature] Signature: [Signature]

Date sent to Analytical Lab: 3/5/2020 Time: 3:45 PM

Tracking Number: 12 684 7M4 Date Lab Received:                       
02 9903 Received by:                       
6596

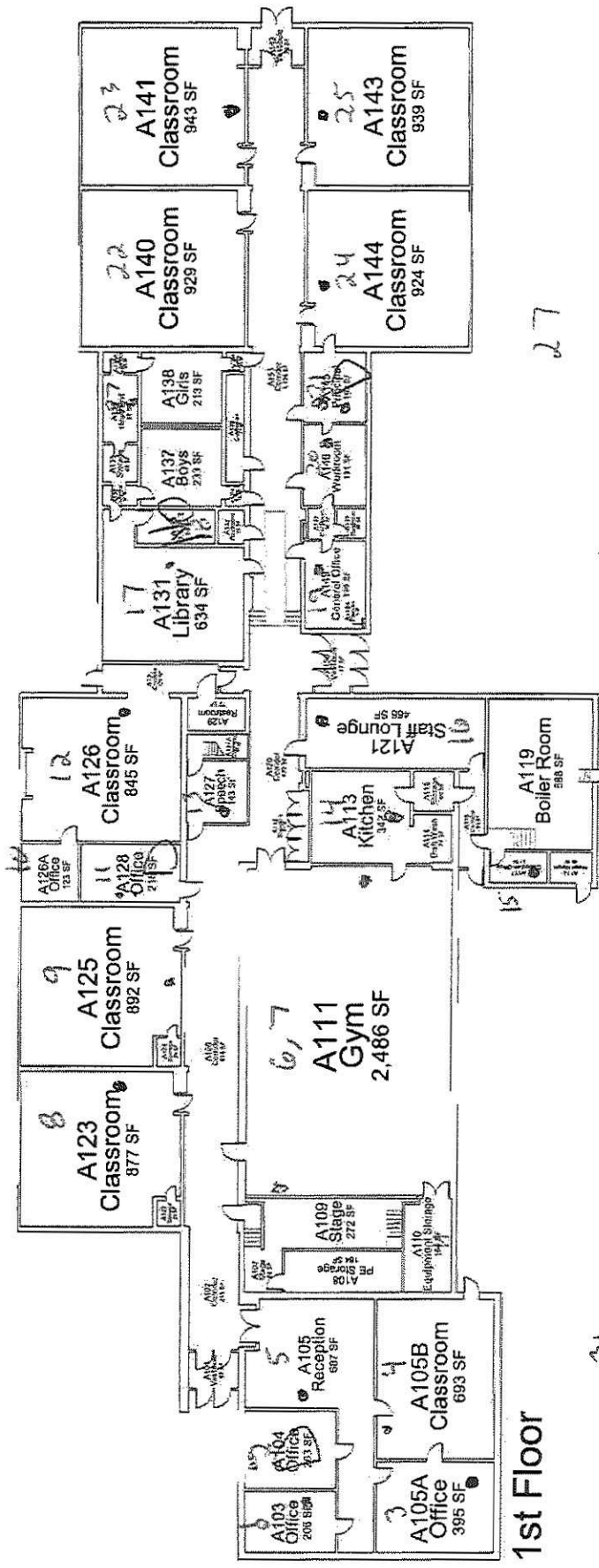
March 10, 2020

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:

**FARIBAUT PUBLIC SCHOOLS  
MCKINLEYEARLY CHILDHOOD CENTER**

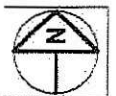
<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9400309	A103	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400324	A105	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400308	A105A	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	0.8 ± 0.4	2020-03-09
9400310	A105B	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400305	A111 NORTH	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	1.2 ± 0.4	2020-03-09
9400306	A111 SOUTH	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	1.3 ± 0.3	2020-03-09
9400203	A113	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	0.8 ± 0.3	2020-03-09
9400330	A117	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.3 ± 0.4	2020-03-09
9400204	A121	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	1.2 ± 0.4	2020-03-09
9400307	A123	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	1.6 ± 0.4	2020-03-09
9400327	A125	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	0.6 ± 0.3	2020-03-09
9400322	A126	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.8 ± 0.4	2020-03-09
9400304	A127	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	1.1 ± 0.4	2020-03-09
9400321	A131	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.2 ± 0.3	2020-03-09
9400323	A136	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.8 ± 0.4	2020-03-09
9400319	A140	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.5 ± 0.4	2020-03-09
9400316	A141	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.4 ± 0.4	2020-03-09
9400315	A143	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.6 ± 0.4	2020-03-09
9400202	A144	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.2 ± 0.4	2020-03-09
9400312	A146	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.5 ± 0.4	2020-03-09
9400311	A149	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	2.0 ± 0.4	2020-03-09
9400317	A210	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	1.3 ± 0.4	2020-03-09
9400325	D A104-1	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	0.6 ± 0.3	2020-03-09
9400326	D A104-2	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	0.6 ± 0.4	2020-03-09
9400328	D A128-1	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	0.9 ± 0.3	2020-03-09
9400329	D A128-2	2020-03-02 @ 2:00 pm	2020-03-05 @ 11:00 am	0.7 ± 0.4	2020-03-09
9400313	D A145-1	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.7 ± 0.3	2020-03-09
9400314	D A145-2	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	1.4 ± 0.4	2020-03-09
9400320	F A117	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	< 0.3	2020-03-09
9399525	O A117	2020-03-02 @ 2:00 pm	2020-03-05 @ 12:00 pm	< 0.3	2020-03-09



1st Floor

30 on RLEW

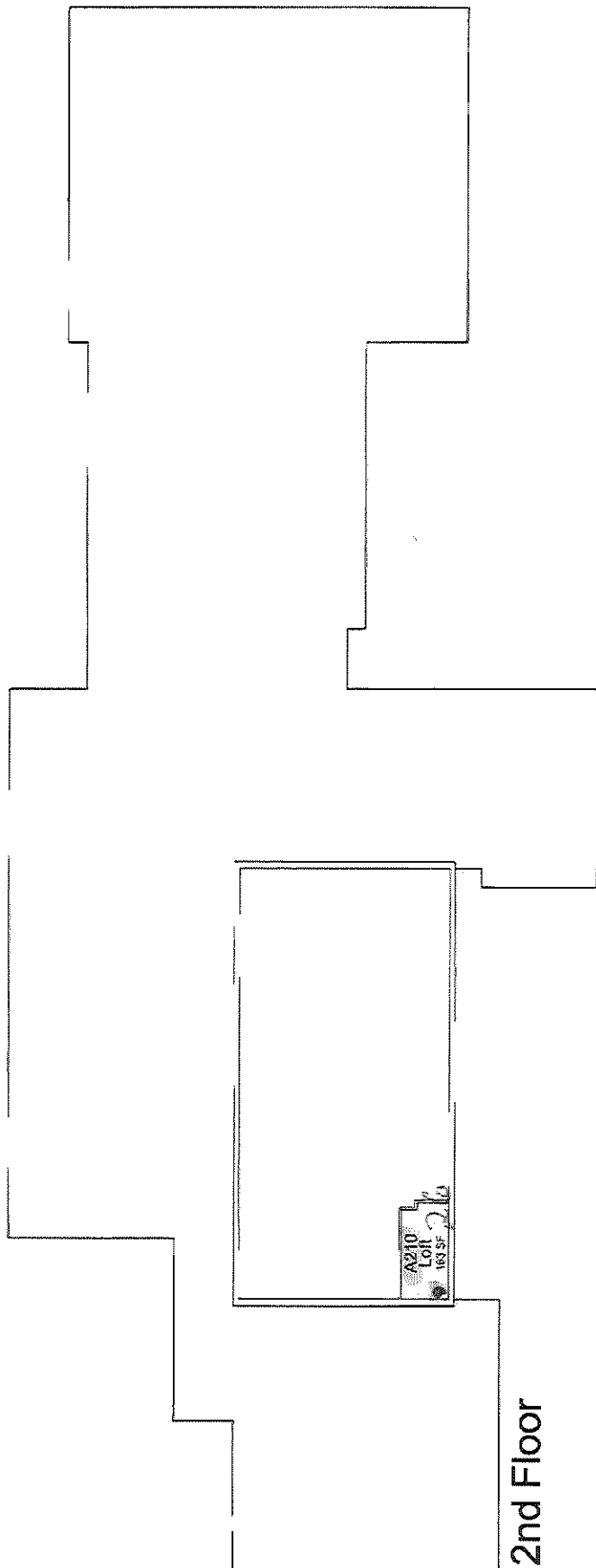
33 duplicates  
1 fold  
1 free



Date: 2/2/2019  
Scale: 1" = 28'-6"


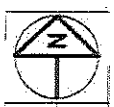
McKinley Early Childhood Center  
Architect Room Number & Name





2nd Floor

A210  
LOIT  
103 SF

	<b>McKinley Early Childhood Center</b>	Date 2/2/2019	
	Architect Room Number & Name	Scale 1" = 28'-6"	

Chain-of-Custody Cover Page



IEA, Inc.  
101 River Street, Suite 101  
Jackson Park, NJ 07033  
732-315-9400

Device Type (check)  Radtrak  Pro Chet  CRM

Project Number 202010084

District: Fairbank P.S

Project Manager: Thed Dahling

Date Disbursed: 3/2/2020

Disbursing  
Measurement  
Professional Name: Abe Dahling

Building: Resault Elem  
Address: 925 Parschall St.

Fairbank, MN 55021

Milky EC Unit  
430 4th Ave NW  
Fairbank, MN 55021

Time: 10:00 AM

Signature: [Signature]

Date Retrieved: 3/5/2020

Time Retrieved: 10:00 AM

Retrieving  
Measurement  
Professional Name: [Signature]

Signature: [Signature]

Date sent to Analytical  
Lab: 3/5/20

Time: 3:45 PM

Tracking Number: 22 EB4 704

Date Lab  
Received:  
Received by: \_\_\_\_\_

02 9903  
6596

March 20, 2020

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAUT PUBLIC SCHOOLS  
ROOSEVELT ELEMENTARY**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9400340	A103	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9400332	A107	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9400382	A110	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.3 ± 0.3	2020-03-09
9400383	A111	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.2 ± 0.4	2020-03-09
9400377	A112	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.9 ± 0.4	2020-03-09
9400373	A119	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.7 ± 0.4	2020-03-09
9400369	A120	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.9 ± 0.3	2020-03-09
9400375	A121	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.8 ± 0.4	2020-03-09
9400376	A123	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9400384	A124	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.6 ± 0.4	2020-03-09
9400374	A130	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.9 ± 0.4	2020-03-09
9400370	A131	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400362	A136 NORTH	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.6 ± 0.4	2020-03-09
9400361	A136 SOUTH	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400359	A140	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.7 ± 0.3	2020-03-09
9400354	A143	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400360	A144	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.2 ± 0.4	2020-03-09
9400353	A145	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.8 ± 0.4	2020-03-09
9400358	A146	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	0.7 ± 0.3	2020-03-09
9400350	A151	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400357	A151A	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400367	A153	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.5 ± 0.3	2020-03-09
9400368	A154	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.5 ± 0.4	2020-03-09
9400352	A155	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400349	A156	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9400346	A157	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400345	A158A	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400351	A160	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	0.5 ± 0.3	2020-03-09
9400333	A161	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400334	A162	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	0.5 ± 0.4	2020-03-09
9399526	A163	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400343	A164	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400338	A168	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400344	A171	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400337	A173	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9400397	A213	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400396	A229	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09

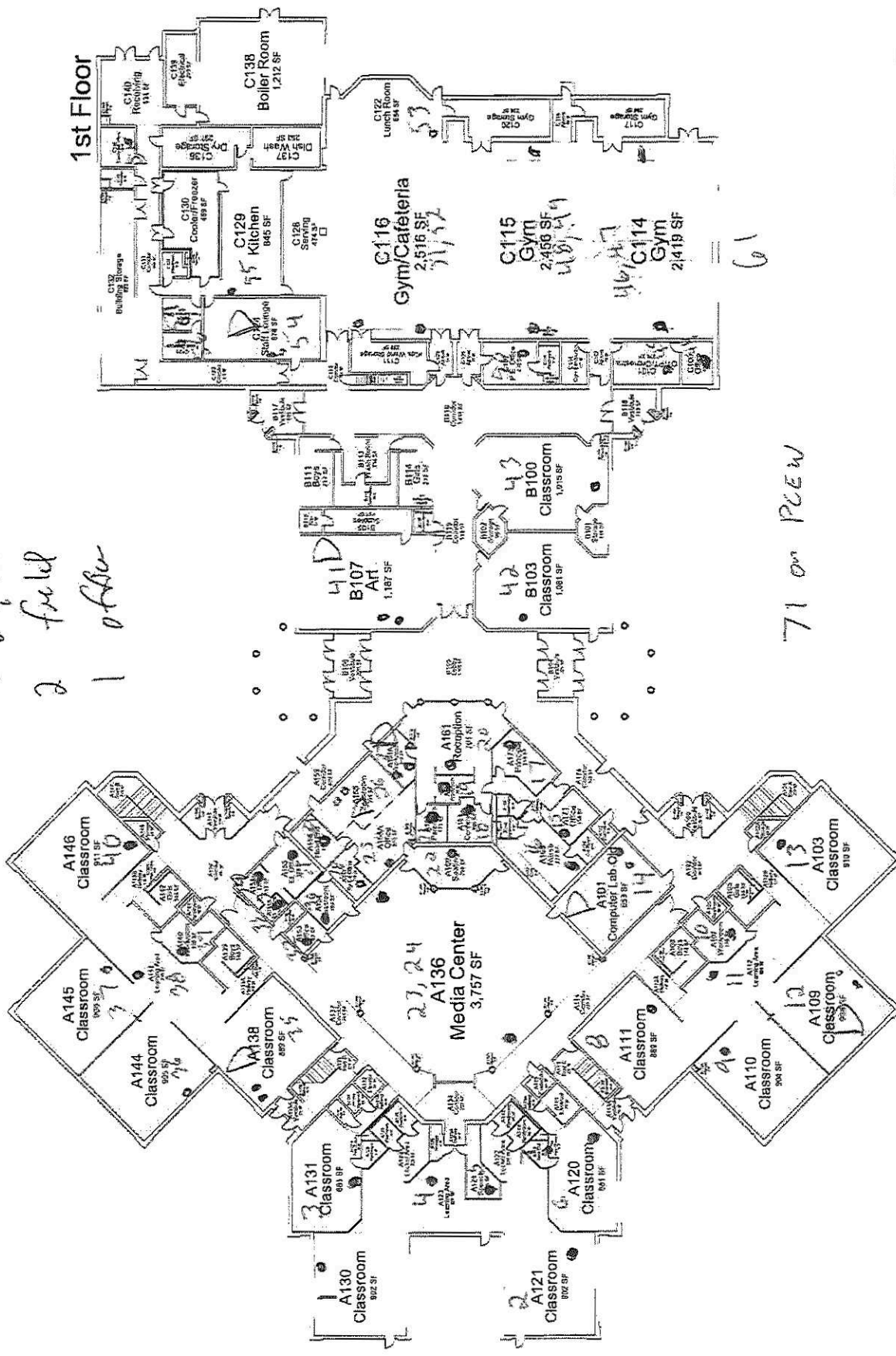
March 20, 2020

**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**FARIBAUT PUBLIC SCHOOLS**  
**ROOSEVELT ELEMENTARY**

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
9400400	A237	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	0.5 ± 0.3	2020-03-09
9400385	B100	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400378	B103	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.8 ± 0.4	2020-03-09
9400399	C100	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	1.2 ± 0.4	2020-03-09
9400395	C101	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400388	C107	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400393	C114 NORTH	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400387	C114 SOUTH	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400380	C115 NORTH	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400394	C115 SOUTH	2020-03-02 @ 1:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400379	C116 NORTH	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400391	C116 SOUTH	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400392	C122	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400389	C125	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400390	C126	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400356	C129	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400363	C134	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400339	D A101-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.6 ± 0.4	2020-03-09
9400347	D A101-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.7 ± 0.3	2020-03-09
9400331	D A109-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.2 ± 0.4	2020-03-09
9400372	D A109-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.1 ± 0.4	2020-03-09
9400365	D A138-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.6 ± 0.4	2020-03-09
9400366	D A138-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	1.0 ± 0.4	2020-03-09
9400341	D A158-1	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400342	D A158-2	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400335	D A161A-1	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400336	D A161A-2	2020-03-02 @ 11:00 am	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400348	D B107-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	0.5 ± 0.4	2020-03-09
9400355	D B107-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 10:00 am	< 0.3	2020-03-09
9400386	D C124-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400381	D C124-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400371	F C134-1	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400364	F C134-2	2020-03-02 @ 12:00 pm	2020-03-05 @ 11:00 am	< 0.3	2020-03-09
9400398	O A237	2020-03-02 @ 1:00 pm	2020-03-05 @ 12:00 pm	< 0.3	2020-03-09

7 duplicates  
 2 field  
 1 office



71 on PCW



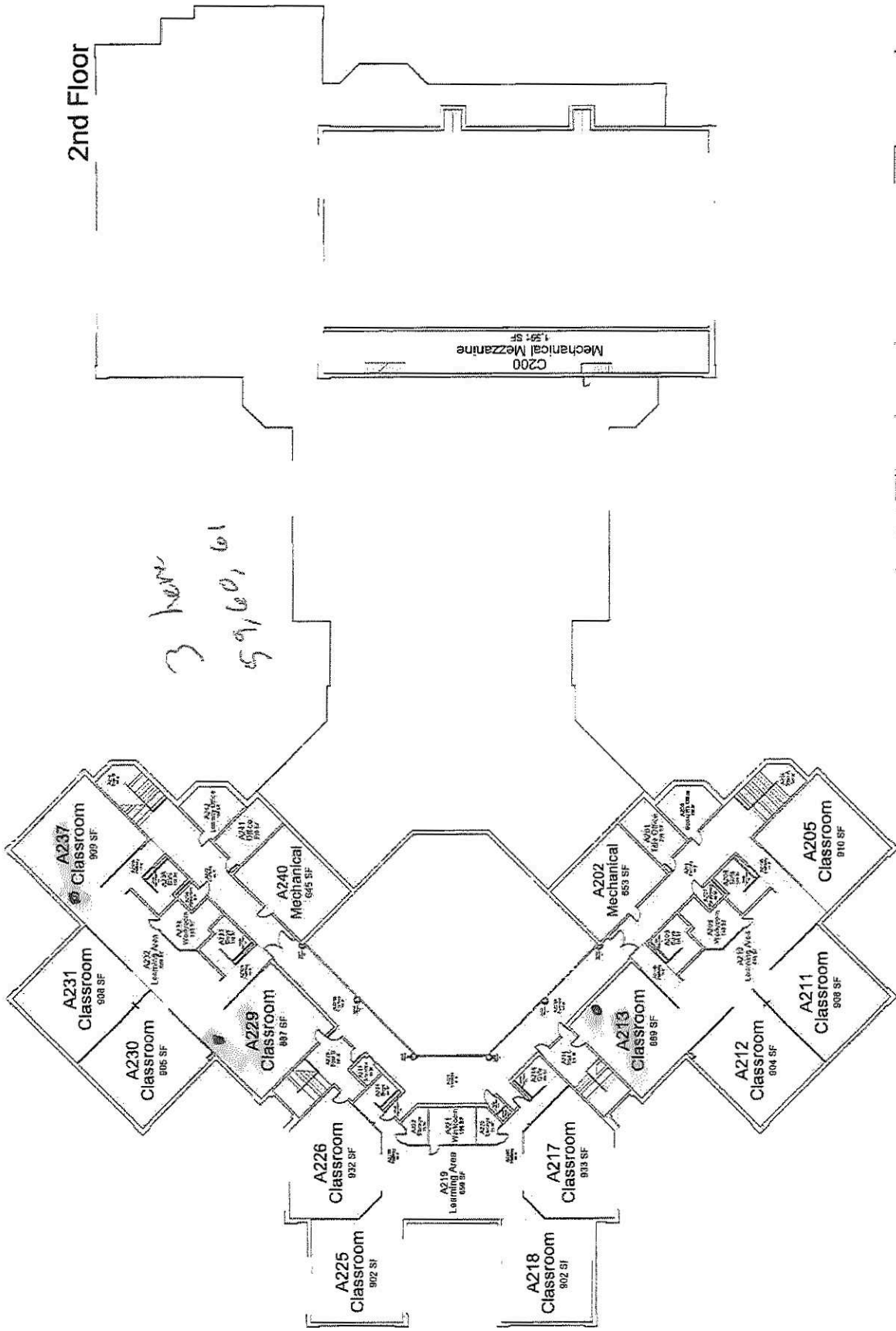
Date: 9/21/2019  
 Scale: 1" = 40'-0"

Roosevelt Elementary  
 Architect Room Number & Name





2nd Floor



Date 9/21/2019  
 Scale 1" = 40'-0"

Roosevelt Elementary  
 Architect Room Number & Name



# **Appendix C**

*Signed Non-Interference Agreement*

## NOTICE OF INSPECTION FOR ALL FACILITATING STAFF

A radon test is scheduled for:

Building: Murkley Early Childhood Center  
Test Start Date: 3/2/2020 Test End Date: 3/5/2020

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

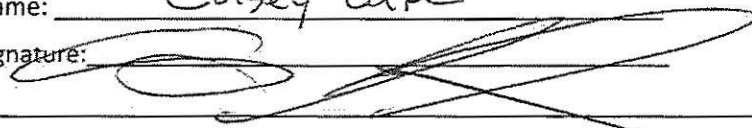
Failure to reasonably maintain test conditions can lead to unnecessary expense, disruptions and unreliable data. Disturbing test devices can also cause unreliable or invalid test results.

- 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: Casey Lake

Signature: 

For more information regarding on-site activities, contact:

Licensed Measurement Professional:



## NOTICE OF INSPECTION FOR ALL FACILITATING STAFF

A radon test is scheduled for:

Building: Ferris Hall MS  
Test Start Date: 3/2/20 Test End Date: 3/5/20

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: KEVIN STEINKAMP

Signature: *Kevin Steinkamp*

For more information regarding on-site activities, contact:

Licensed Measurement Professional:



## NOTICE OF INSPECTION FOR ALL FACILITATING STAFF

A radon test is scheduled for:

Building: Roosevelt Elementary and Jefferson Elementary

Test Start Date: 3-2-20 Test End Date: 3-5-20

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: \_\_\_\_\_

Signature: \_\_\_\_\_

For more information regarding on-site activities, contact:

Licensed Measurement Professional:



# **Appendix D**

*Weather Report for Testing Days*



## CUSTOMIZED WEATHER HISTORY FOR FARIBAULT, MINNESOTA

You're signed in as a subscriber to our Customized Weather History; if you're on

a shared computer, [please logout when you're done.](#)

You can search for weather history in two ways:

- **Range of Dates** search allows you to search for a *consecutive range of dates* and is good if you want to know day by day history for a certain period of time, like "January 1 to January 15, 2008".
- **Same Dates Over a Range of Years** is good when you have a specific time of year—perhaps your wedding day, or a summer vacation, or harvest time—and you want to search for the weather over multiple years *for just those dates*. For example, "August 1 to 5 every year from 1970 to 1980."

Location \*  
  
 ZIP/Postal Code or City,State

### Range of Dates

To search a consecutive range of dates, select a start and end date.

Month Day Year

to

Month Day Year

Latest data available: March 16, 2020.

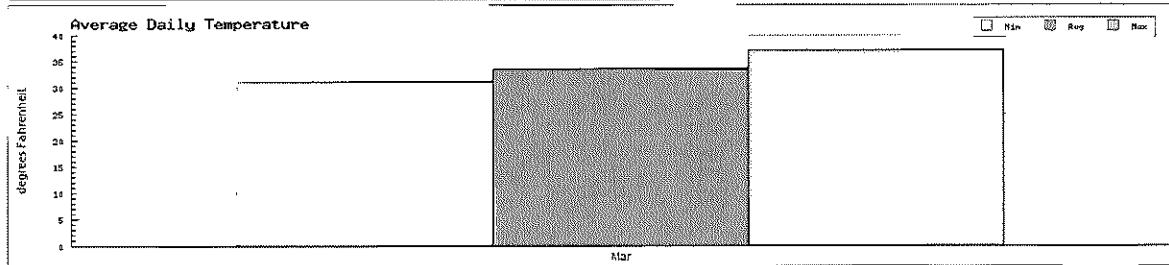
### Same Dates Over a Range of Years

### WEATHER FROM MARCH 2, 2020 TO MARCH 5, 2020

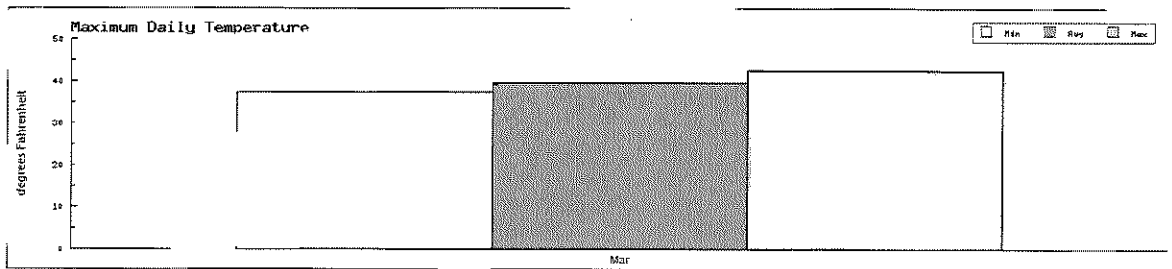
TEMPERATURE	LOW	AVERAGE	HIGH
Minimum Daily Data for 4 days. <a href="#">Download raw data</a>	19.4°F (Mar 4, 2020)	27.9°F	33.8°F (Mar 5, 2020)



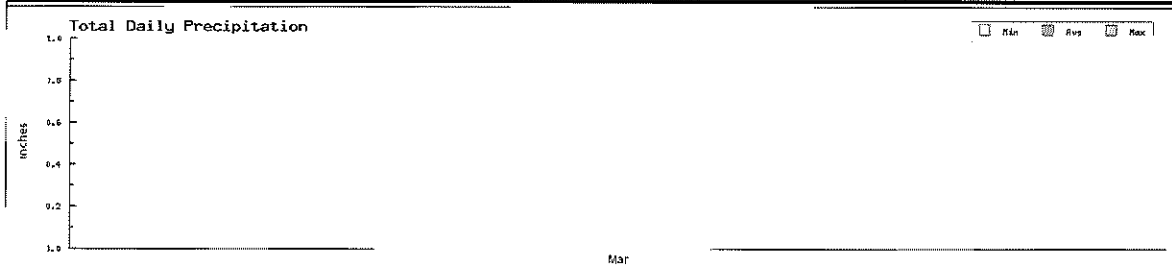
Average Daily Data for 4 days. <a href="#">Download raw data</a>	31.3°F (Mar 4, 2020)	33.5°F	37.2°F (Mar 5, 2020)
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Maximum Daily Data for 4 days. <a href="#">Download raw data</a>	37.4°F (Mar 2, 2020)	39.6°F	42.8°F (Mar 5, 2020)
--	-------------------------	--------	-------------------------

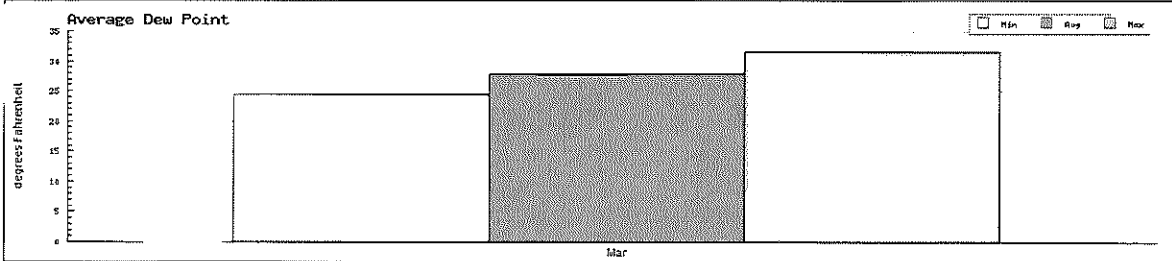


<b>Total Daily</b> Data for 2 days. <a href="#">Download raw data</a>	0.00 IN (Mar 2, 2020)	0.00 IN	0.00 IN (Mar 2, 2020)
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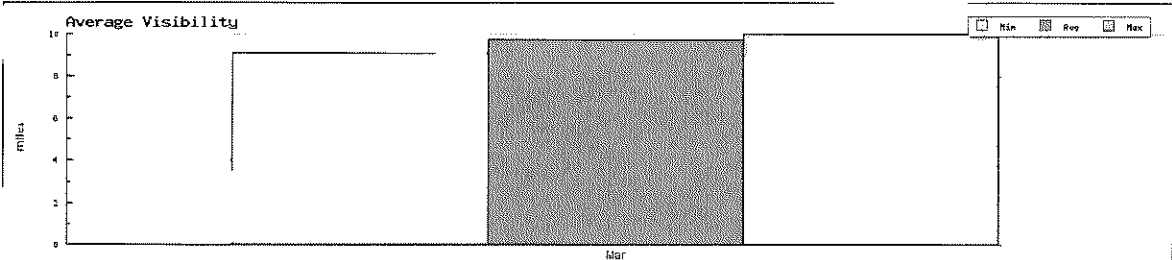


Note: Total Daily Precipitation is not reported by all stations on all days and there are situations where a value is not reported here, but an Occurrence of rain or snow is noted below, or vice versa.

<b>Average Dew Point</b> Data for 4 days. <a href="#">Download raw data</a>	24.5°F (Mar 4, 2020)	28.1°F	31.6°F (Mar 5, 2020)
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<b>Average Visibility</b> Data for 4 days. <a href="#">Download raw data</a>	9.1 MI (Mar 5, 2020)	9.8 MI	10.0 MI (Mar 2, 2020)
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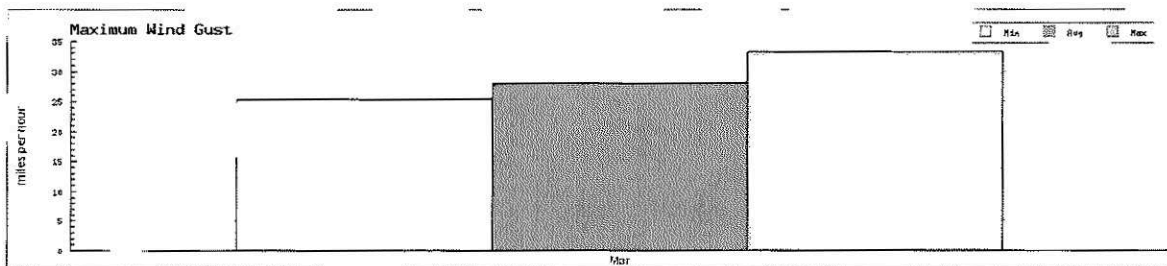
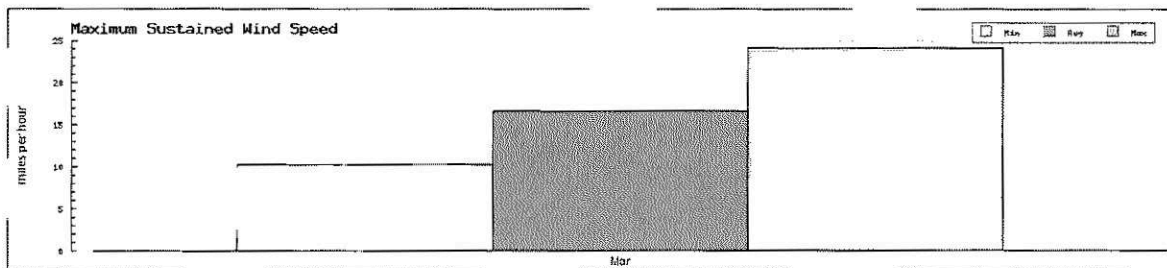
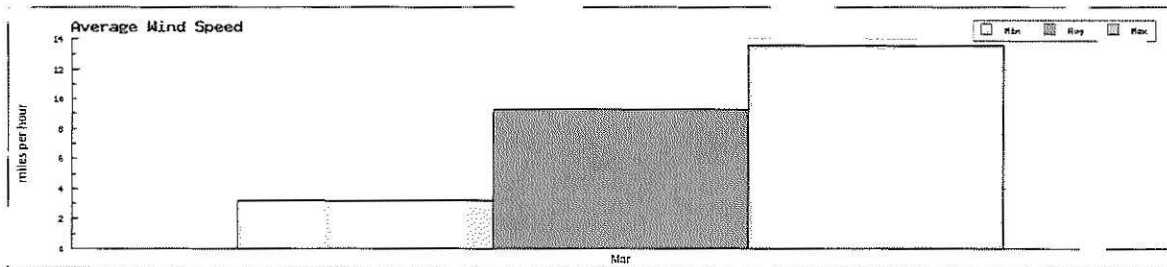


<b>Snow Depth</b> Data not available	n/a	n/a	n/a
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Note: Snow Depth is not reported by all stations on all days and there are situations where there was actually snow on the ground, but this value is not reported. Note carefully the number of days for which this value is reported.

	LOW	AVERAGE	HIGH
<b>WIND</b>			
<b>Average Daily</b> Data for 4 days. <a href="#">Download raw data</a>	3.22 MPH (Mar 4, 2020)	9.32 MPH	13.58 MPH (Mar 5, 2020)
<b>Maximum Daily</b> Data for 4 days. <a href="#">Download raw data</a>	10.24 MPH (Mar 4, 2020)	16.63 MPH	24.17 MPH (Mar 5, 2020)





PRESSURE	LOW	AVERAGE	HIGH
Sea Level Pressure Data not available.	n/a	n/a	n/a

OCCURRENCES	DAYS	PERCENTAGE
Fog	0 of 4	0%
Rain	1 of 4	25%
Snow	2 of 4	50%
Hail	0 of 4	0%
Thunder	0 of 4	0%
Tornado	0 of 4	0%

Note: Not all occurrence of all weather events are reported for all stations. There are situations, for example, where an Occurrence of rain will be reported, but no Total Daily Precipitation logged.

# **Appendix E**

*MDH Reporting Form*



# 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](mailto:health.indoorair@state.mn.us).

## Contact Information

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

## Initial Radon Testing Information

School Building Name: \_\_\_\_\_

School District & District Number: \_\_\_\_\_

Building Address: \_\_\_\_\_

Test Kit Manufacturer: \_\_\_\_\_

Device Name: \_\_\_\_\_

Date of Kit Retrieval (DD/MM/YY): \_\_\_\_\_

Length of Test (days): \_\_\_\_\_

How many rooms were tested? \_\_\_\_\_

Does the test period include weekends?  Yes  No

Does the test period include school breaks or holidays?  Yes  No

SCHOOL RADON TESTING REPORTING FORM

Were all frequently-occupied ground contact rooms tested?<sup>1</sup>  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  $\geq 4$  pCi/L?:

Were the results reported at a school board meeting?  Yes  No

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

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

How many rooms had follow-up testing?:

Number of rooms with follow-up results  $\geq 4$  pCi/L:  < 4 pCi/L:

Of the rooms that had test results  $\geq 4$  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?<sup>2</sup>:

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)  $\geq 4$  pCi/L:  < 4 pCi/L:

---

<sup>1</sup> 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'.

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