

March 20, 2019



Tony Urdahl
St. Anthony-New Brighton ISD #282
3303 33rd Ave NE
St Anthony, Minnesota 55418

**RE: Short-Term Radon Testing Results
IEA Project #201910015**

Dear Mr. Urdahl:

As requested by St. Anthony-New Brighton ISD #282, IEA placed two hundred and eighteen (218) Air Chek Pro Chek short-term radon test kits, in the following buildings for the purpose of evaluating radon levels:

- St Anthony Village High School/Middle School
- Wilshire Park Elementary School
- Community Services

The radon samples were placed by Amanda Edberg, certified radon measurement professional, (Certification Number RMEA 00041), and Mathew Mason, certified radon measurement professional, (Certification Number RMEA 00079).

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 Air Chek Pro Chek short-term radon test kits in frequently occupied areas in the buildings listed above at St. Anthony-New Brighton ISD #282 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 218 radon test kits were placed from February 12-15, 2019 for a total short-term sampling period of 3 days. The radon test kits were analyzed by Air Chek, 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.
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BROOKLYN PARK
9201 West Broadway, #600
Brooklyn Park, MN 55445
763-315-7900 / FAX 763-315-7920
800-233-9513

MANKATO
610 North Riverfront Drive
Mankato, MN 56001
507-345-8818 / FAX 507-345-5301
800-233-9513

ROCHESTER
210 Woodlake Drive SE
Rochester, MN 55904
507-281-6664 / FAX 507-281-6695
800-233-9513

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

MARSHALL
1420 East College Drive
Marshall, MN 56258
507-476-3599 / FAX 507-537-6985
800-233-9513

VIRGINIA
5525 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 or every 5 years
GREATER THAN 4	Conduct CRM short-term testing during winter months
LESS THAN 4 (<u>DURING OCCUPANCY</u>) 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 or every 5 years
GREATER THAN 4 (<u>DURING OCCUPANCY</u>) 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 include sampling locations, are provided in Appendix B. Summaries of results for each building are as follows.

ST. ANTHONY VILLAGE HIGH SCHOOL/MIDDLE SCHOOL

A total of ninety-seven (97) test kits were placed at St. Anthony Village High School/Middle School. The results 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
Number of Tests	80	14	3	0

pCi/L: picocuries per liter

WILSHIRE PARK ELEMENTARY SCHOOL

A total of ninety-seven (97) test kits were placed at Wilshire Park 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
Number of Tests	97	0	0	0

pCi/L: picocuries per liter

COMMUNITY SERVICES

A total of twenty-four (24) test kits were placed at the Community Services Building. 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: Community Service Building 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	24	0	0	0

pCi/L: picocuries per liter

CONCLUSIONS & RECOMMENDATIONS

The radon levels in the sampled locations were below the EPA action level of 4 pCi/L.

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

- 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, if requested. 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 or at 651-201-4601.

GENERAL COMMENTS

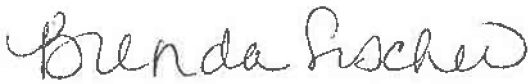
The analysis and opinions expressed in this report are based upon data obtained from radon sampling district-wide and are representative of the locations and time period sampled. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions 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 #7719 dated December 18, 2018, 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 St. Anthony-New Brighton ISD #282. 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.



Brenda Fischer
Senior Project Manager

BF/wb 031419

Enc.

Appendix A

Methodology

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 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 Report

Radon test result report for:

**ST. ANTHONY - NEW BRIGHTON ISD #282
ST. ANTHONY VILLAGE HIGH SCHOOL/MS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9168872	015 UPPER GYM	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	0.9 ± 0.3	2019-02-18
9168868	016 UPPER GYM	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	0.9 ± 0.3	2019-02-18
9168891	06	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	0.5 ± 0.3	2019-02-18
9168832	06 PRACTICE ROOM 1	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	0.9 ± 0.3	2019-02-18
9170115	06 PRACTICE ROOM 2	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.0 ± 0.4	2019-02-18
9170113	06 PRACTICE ROOM 3	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.0 ± 0.4	2019-02-18
9168895	06 PRACTICE ROOM 4	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	0.9 ± 0.4	2019-02-18
9168870	06 PRACTICE ROOM/STOR	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	0.9 ± 0.3	2019-02-18
9168890	100	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.5 ± 0.3	2019-02-18
9168867	101	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.5 ± 0.3	2019-02-18
9170122	102	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18
9170111	103	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.4	2019-02-18
9168863	105	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18
9168828	106	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18
9168893	107 OFFICE	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	1.0 ± 0.4	2019-02-18
9170106	108	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.4	2019-02-18
9168851	109 OFFICE	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.0 ± 0.3	2019-02-18
9168874	111	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.3	2019-02-18
9168869	113	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.3	2019-02-18
9168837	115	2019-02-12 @ 11:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.4	2019-02-18
9170121	116	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.3	2019-02-18
9170112	117	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.8 ± 0.4	2019-02-18
9168827	117 OFFICE	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.0 ± 0.3	2019-02-18
9168866	118	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.8 ± 0.3	2019-02-18
9170128	119 OFFICE	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	1.1 ± 0.4	2019-02-18
9170126	119A	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	1.1 ± 0.4	2019-02-18
9168884	119B	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	1.1 ± 0.4	2019-02-18
9170107	216	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.3	2019-02-18
9168900	217	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.3	2019-02-18
9168887	302	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.3	2019-02-18
9168877	309	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.3	2019-02-18
9168875	318	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.3	2019-02-18
9168853	ATHLETIC TRAINING ROOM	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	1.1 ± 0.3	2019-02-18
9168826	AUDITORIUM NORTH	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.1 ± 0.3	2019-02-18
9168831	AUDITORIUM SOUTH	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.0 ± 0.4	2019-02-18
9168897	BAND OFFICE	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.2 ± 0.4	2019-02-18
9168894	BAND ROOM	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.2 ± 0.4	2019-02-18

Radon test result report for:

**ST. ANTHONY - NEW BRIGHTON ISD #282
ST. ANTHONY VILLAGE HIGH SCHOOL/MS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9168878	BAND/CHOIR OFFICE	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.2 ± 0.4	2019-02-18
9168850	CAFETERIA	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.1 ± 0.3	2019-02-18
9170127	CHOIR OFFICE	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.3 ± 0.4	2019-02-18
9168888	CHOIR ROOM	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.3 ± 0.3	2019-02-18
9168830	COMMONS	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.3 ± 0.4	2019-02-18
9170110	CONCESSIONS	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.4 ± 0.4	2019-02-18
9168892	CUSTODIAL OFFICE	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.4 ± 0.3	2019-02-18
9168883	CUSTODIAL TOOL ROOM	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.4 ± 0.4	2019-02-18
9170129	D06 OFFICE	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.5 ± 0.4	2019-02-18
9168865	D06 OFFICE	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	0.9 ± 0.4	2019-02-18
9168864	D104	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18
9168876	D104	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	1.5 ± 0.4	2019-02-18
9170114	D107	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.3	2019-02-18
9168889	D107	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.3	2019-02-18
9168885	D109	2019-02-12 @ 7:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.3	2019-02-18
9168882	D109	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	1.6 ± 0.4	2019-02-18
9170116	D119	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.4	2019-02-18
9168829	D119	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.5 ± 0.4	2019-02-18
9170108	D205	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	0.9 ± 0.3	2019-02-18
9170102	D205	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.7 ± 0.4	2019-02-18
9168873	DCUSTODIAL STAFF LOUNGE	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	1.4 ± 0.4	2019-02-18
9168899	DCUSTODIAL STAFF LOUNGE	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.7 ± 0.4	2019-02-18
9168896	DISTRICT OFFICE	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	1.7 ± 0.4	2019-02-18
9168852	DMENS LOCKER ROOM OFFICE	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	3.5 ± 0.4	2019-02-18
9168859	DMENS LOCKER ROOM OFFICE	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.7 ± 0.4	2019-02-18
9168862	DSCENE SHOP BOYS DRESSING ROOM	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9170125	DSCENE SHOP BOYS DRESSING ROOM	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	1.8 ± 0.4	2019-02-18
9170109	DSILVER LAKE CLINIC	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.8 ± 0.4	2019-02-18
9168854	DSILVER LAKE CLINIC	2019-02-12 @ 11:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9170104	FSTORAGE ROOM A	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	1.8 ± 0.4	2019-02-18
9168857	FSTORAGE ROOM B	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.7 ± 0.4	2019-02-18
9168835	FSTORAGE ROOM C	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	1.8 ± 0.4	2019-02-18
9168861	FSTORAGE ROOM D	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	1.9 ± 0.4	2019-02-18
9170118	FSTORAGE ROOM E	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	2.1 ± 0.4	2019-02-18
9168855	GYMNASIUM NORTH	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	2.1 ± 0.4	2019-02-18
9170103	GYMNASIUM SOUTH	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	2.1 ± 0.4	2019-02-18
9168858	HS ACTIVITIES OFFICE	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	2.2 ± 0.4	2019-02-18

Radon test result report for:**ST. ANTHONY - NEW BRIGHTON ISD #282
ST. ANTHONY VILLAGE HIGH SCHOOL/MS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9168856	INSTRUMENT STORAGE	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	2.2 ± 0.4	2019-02-18
9168833	KITCHEN DISHWASHER	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	2.1 ± 0.3	2019-02-18
9170117	KITCHEN OFFICE	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	2.2 ± 0.4	2019-02-18
9168879	MEDIA CENTER NORTH	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	2.5 ± 0.4	2019-02-18
9170105	MEDIA CENTER SOUTH	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	2.2 ± 0.4	2019-02-18
9168825	MEDIA OFFICE 1	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	2.4 ± 0.4	2019-02-18
9170120	MEDIA OFFICE 2	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	2.6 ± 0.4	2019-02-18
9168880	MEDIA OFFICE 3	2019-02-12 @ 8:00 am	2019-02-15 @ 9:00 am	2.7 ± 0.4	2019-02-18
9170123	MEDIA OFFICE 4	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	2.8 ± 0.4	2019-02-18
9170119	MEDIA OFFICE 5	2019-02-12 @ 10:00 am	2019-02-15 @ 9:00 am	2.7 ± 0.4	2019-02-18
9168881	MENS LOCKER ROOM	2019-02-12 @ 8:00 am	2019-02-15 @ 8:00 am	3.3 ± 0.4	2019-02-18
9168836	MENS LOCKER ROOM	2019-02-12 @ 11:00 am	2019-02-15 @ 8:00 am	3.0 ± 0.4	2019-02-18
9170124	MENS LOCKER ROOM OFFICE	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9168898	MS CONFERENCE ROOM	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9168886	OSTORAGE ROOM A	2019-02-12 @ 7:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9168871	POOL OFFICE	2019-02-12 @ 9:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9168860	SCENE SHOP GIRLS DRESSING ROOM	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9168849	STAGE	2019-02-12 @ 11:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9168847	WEIGHT ROOM EAST	2019-02-12 @ 11:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9168848	WEIGHT ROOM WEST	2019-02-12 @ 11:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9168845	WOMENS LOCKER ROOM	2019-02-12 @ 11:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9168846	WOMENS LOCKER ROOM	2019-02-12 @ 11:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18
9168834	WOMENS LOCKER ROOM OFFICE	2019-02-12 @ 10:00 am	2019-02-15 @ 8:00 am	< 0.3	2019-02-18

Radon test result report for:

**ST ANTHONY NEW BRIGHTON ISD #282
WILSHIRE PARK ELEMENTARY**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9169956	100	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.8 ± 0.3	2019-02-18
9169958	100A	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169959	100B	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169960	100C	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169961	100D	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169962	100F	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169957	100H	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169963	101	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169983	102	2019-02-12 @ 9:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169984	102A	2019-02-12 @ 9:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169952	103	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169985	104	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169986	104A	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169951	105	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169987	106	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.9 ± 0.3	2019-02-18
9169950	107	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169990	108	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169989	110	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169954	111	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169944	116A	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.3	2019-02-18
9169981	116B	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169946	116C	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169945	116D	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169973	116E	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169980	116F	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169979	116G	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169982	116J	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169943	116K	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.4	2019-02-18
9169947	118	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.4	2019-02-18
9169976	119	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169925	120 EAST	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.6 ± 0.3	2019-02-18
9169926	120 WEST	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169997	122	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169955	123	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.5 ± 0.3	2019-02-18
9169972	125	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169977	126	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18
9169978	126A	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18

Radon test result report for:

**ST ANTHONY NEW BRIGHTON ISD #282
WILSHIRE PARK ELEMENTARY**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9169971	127	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169975	132	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18
9169965	134	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.8 ± 0.3	2019-02-18
9169938	136	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	1.2 ± 0.4	2019-02-18
9169970	138	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.7 ± 0.3	2019-02-18
9169969	140	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.6 ± 0.3	2019-02-18
9169968	140A	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	0.8 ± 0.3	2019-02-18
9169936	140A	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.5 ± 0.3	2019-02-18
9169924	200	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169923	201	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169991	202	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169999	206	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169996	208	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169994	209	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.8 ± 0.4	2019-02-18
9169935	211	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.6 ± 0.4	2019-02-18
9169937	213	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.9 ± 0.3	2019-02-18
9168818	217	2019-02-12 @ 10:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169930	218	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169933	220	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169934	222	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9168822	223 NORTH	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.5 ± 0.3	2019-02-18
9168823	223 SOUTH	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.6 ± 0.3	2019-02-18
9169939	224	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169940	226	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169927	230	2019-02-12 @ 10:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9168815	232	2019-02-12 @ 10:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9168816	234	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.6 ± 0.3	2019-02-18
9168819	236A	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.9 ± 0.3	2019-02-18
9168805	300	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	1.8 ± 0.4	2019-02-18
9168806	300 OFFICE	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	1.3 ± 0.3	2019-02-18
9170000	301	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	1.5 ± 0.3	2019-02-18
9168802	304 NORTH	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.7 ± 0.3	2019-02-18
9168807	304 SOUTH	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	1.1 ± 0.4	2019-02-18
9168801	305	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	1.5 ± 0.4	2019-02-18
9168808	306	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.6 ± 0.3	2019-02-18
9168809	307	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.9 ± 0.3	2019-02-18
9168811	308	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.8 ± 0.3	2019-02-18

Radon test result report for:**ST ANTHONY NEW BRIGHTON ISD #282
WILSHIRE PARK ELEMENTARY**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9168810	309	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.7 ± 0.3	2019-02-18
9169931	311	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	1.4 ± 0.4	2019-02-18
9169948	D 109-1	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169949	D 109-2	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169953	D 112-1	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.7 ± 0.3	2019-02-18
9169988	D 112-2	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.5 ± 0.4	2019-02-18
9169964	D 121-1	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169974	D 121-2	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	< 0.3	2019-02-18
9169966	D 142-1	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	1.3 ± 0.4	2019-02-18
9169967	D 142-2	2019-02-12 @ 9:00 am	2019-02-15 @ 9:00 am	1.3 ± 0.3	2019-02-18
9169993	D 204-1	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169992	D 204-2	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169995	D 210-1	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169998	D 210-2	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	< 0.3	2019-02-18
9169941	D 215-1	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.6 ± 0.3	2019-02-18
9169942	D 215-2	2019-02-12 @ 10:00 am	2019-02-15 @ 10:00 am	0.7 ± 0.3	2019-02-18
9168820	D 236-1	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.7 ± 0.3	2019-02-18
9168821	D 236-2	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.8 ± 0.4	2019-02-18
9169928	F STORAGE A	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9168824	F STORAGE B	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169932	F STORAGE C	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9168817	F STORAGE D	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169929	O STORAGE A	2019-02-12 @ 11:00 am	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18

Radon test result report for:**ST ANTHONY NEW BRIGHTON ISD #282
COMMUNITY SERVICES**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9168813	BREAK ROOM	2019-02-12 @ 11:00 am	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18
9169919	CS12	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	0.6 ± 0.3	2019-02-18
9169921	CS16	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18
9169902	CS17	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18
9169700	CS18	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18
9169901	CS19	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.6 ± 0.3	2019-02-18
9169326	CS2	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169329	CS3	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169328	CS4	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169325	CS5	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169327	CS6	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169322	CS7	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169330	CS8	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.5 ± 0.3	2019-02-18
9169920	CS9	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18
9169909	D M1-1	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169697	D M1-2	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	0.5 ± 0.3	2019-02-18
9169912	D M2-1	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.6 ± 0.3	2019-02-18
9169699	D M2-2	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18
9169916	F STORAGE A	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18
9168814	GYM NORTH	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	1.0 ± 0.3	2019-02-18
9169321	GYM SOUTH	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.5 ± 0.3	2019-02-18
9169905	M3	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	0.5 ± 0.3	2019-02-18
9169906	M4	2019-02-12 @ 11:00 am	2019-02-15 @ 11:00 am	< 0.3	2019-02-18
9169913	O STORAGE A	2019-02-12 @ 12:00 pm	2019-02-15 @ 12:00 pm	< 0.3	2019-02-18

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.

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? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Does the test period include school breaks or holidays? <input type="checkbox"/> Yes <input type="checkbox"/> No	

SCHOOL RADON TESTING REPORTING FORM

Were all frequently-occupied ground contact rooms tested? ¹ <input type="checkbox"/> Yes <input type="checkbox"/> No If no, did you attempt to test all frequently occupied ground contact rooms, meaning test kits were placed in all these rooms? <input type="checkbox"/> Yes <input type="checkbox"/> No
How many rooms had results ≥ 4 pCi/L?:
Were the results reported at a school board meeting? <input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

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