Date: 12/2/25
Performed by: Andrew Tinklenberg
Location: Camden High School – 4320 Newton Ave North, Minneapolis, MN 55412
RE: Radon Testing

INTRODUCTION

From November 17-20, 2025, radon testing was performed within Camden High School located at 4320 Newton Ave North, Minneapolis, MN. The testing was performed to ensure that radon gas concentrations within the building are below the established regulatory limits. Testing was conducted under normal occupied building conditions in frequently-occupied ground contact rooms and other areas in accordance with ANSI/AARST Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings (MA-MFLB 2023) and Minnesota Department of Health (MDH) guidelines.

SUMMARY OF FINDINGS

All of the areas that were tested were found to have radon gas levels below 4.0 picocuries per liter of air (pCi/L), which is the EPA and MDH action level.

REMARKS

QA/QC sampling is performed in conjunction with this testing. Blank sampling was conducted at a rate of 5% of samples collected (highlighted in blue). Duplicate (side-by-side) sampling was conducted in select areas at a rate of 10% of areas tested (highlighted in green with average radon concentration shown). Spike sampling was conducted at a rate of 3% per configuration or a maximum of 6 per month (attached at the end of this report). Unless specified, all QA/QC measurements were within the required limits.

The ProChek 2-4 day activated charcoal test kits were submitted to and analyzed by AirChek, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759 (MN License #RL-00003). Please refer to the attached AirChek radon testing report and sample diagrams for further information concerning the radon testing, areas that were tested, and the radon levels that were found to be present. Per MDH requirements, this information will be shared with the local regulatory agency (MDH - health.indoorair@state.mn.us, Phone # 651-201-4601) and incorporated in an MPS' board meeting. The information will also be posted on the EH&S webpage available through the main MPS website and maintained on file by EH&S.

Every effort was made to maintain closed building conditions and HVAC systems are monitored and controlled remotely by MPS Direct Digital Control (DDC) personnel. Any deviation in building conditions or sampling protocol which could have an impact on the testing and test results is described in the summary above. If any unoccupied areas that were not tested are planned for future occupancy, contact EH&S so that the areas can be tested. Radon testing is to be performed in MPS District buildings every 5 years or any time major renovation activities take place which have the potential to impact the building's foundation or HVAC systems. Refer to the attached Test Condition Summary for weather and other related information that has the potential to impact radon testing.

Refer to the following ANSI/AARST advisory for additional information regarding the radon testing (Advisory information is taken from page 29 of the ANSI/AARST MA-MFLB-2023 Standard, "Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings.") Additional advisory notes/information will be added when necessary.

Table 8-A Reporting Low Radon Concentrations

Consider fixing the building if test results indicate radon concentrations greater than half the action level, (e.g., between 2 and 4 pCi/L). Responsible care requires repeating initial testing procedures for all building(s) at least every 5 years and in conjunction with any sale of a building. Radon testing should also be conducted when any of the following circumstances occur:

- a new addition is constructed or alterations for building reconfiguration or rehabilitation occur;
- a ground contact area not previously tested is occupied, or a building is newly occupied;
- heating or cooling systems are significantly altered, resulting in changes to air pressures or pressure relationships;
- ventilation is significantly altered by extensive weatherization, changes to mechanical systems or comparable procedures;
- significant openings to soil occur due to:
    - groundwater or slab surface water control systems that are altered or added (e.g., sumps, perimeter drain tile, shower/tub retrofits, etc.) or,
    - natural settlement causing major cracks to develop;
- earthquakes or construction blasting, fracking or formation of sink holes nearby; or
- a mitigation system is altered, modified or repaired.

Should testing indicate concentrations that meet or exceed the action level, conduct evaluations, corrections and further testing until radon concentrations have been mitigated to below the action level.

If you have any questions regarding this information, please feel free to contact me. Thank you,

Andrew Tinklenberg
MDH RMEA-00426
NRPP ID# 111389 RMP

Safety Specialist - Environmental Health & Safety
Minneapolis Public Schools
1225 N. 7th Street, Minneapolis, MN 55411
andrew.tinklenberg@mpls.k12.mn.us
612-668-0306 Phone
612-668-0310 EH & S General Office
612-668-0275 Fax

MINNEAPOLIS PUBLIC SCHOOLS
Urban Education. Global Citizens.

Attachments

Radon Testing Results
Floor Plans
Notification & Communication Documents
Test Condition Summary
Spike Sampling Report

I5554 / ANDREW TINKLENBERG / MINNEAPOLIS PUBLIC SCHOOLS

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result	
12209137	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CUSTODIAN 024A	CAMDEN	0	1.2	
12209138	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CUSTODIAN 024A	CAMDEN	0	1.4	1.3
12209139	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	G15 TRAINER	CAMDEN	0	1.0	
12209140	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	G140 OFFICE	CAMDEN	0	0.6	
12209141	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	G43 OFFICE	CAMDEN	0	< 0.3	
12209142	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	G10 OFFICE	CAMDEN	0	0.7	
12209143	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	G13 OFFICE	CAMDEN	0	< 0.3	
12209144	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	GYM NORTH	CAMDEN	0	0.8	
12209145	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	GYM SOUTH	CAMDEN	0	0.6	
12209146	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE G104	CAMDEN	0	0.5	
12209147	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	COMMUNITY G101	CAMDEN	0	< 0.3	
12209148	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	WEIGHT ROOM 027	CAMDEN	0	< 0.3	
12209149	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 035	CAMDEN	0	1.3	
12209150	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 037	CAMDEN	0	0.8	
12209151	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 038	CAMDEN	0	1.1	
12209152	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 038	CAMDEN	0	0.9	1.0
12209153	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CUSTODIAN 026	CAMDEN	0	0.8	
12209154	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	KITCHEN OFFICE 024B	CAMDEN	0	0.7	
12209155	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	B&G 021	CAMDEN	0	< 0.3	
12209156	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	WEIGHT ROOM 018	CAMDEN	0	1.0	
12209157	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 018F	CAMDEN	0	0.7	
12209158	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	GYM 016	CAMDEN	0	0.6	
12209159	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CAFETERIA 012 NE	CAMDEN	0	0.8	
12209160	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CAFETERIA 012 SW	CAMDEN	0	0.8	
12209161	2025-11-17	7:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 012	CAMDEN	0	1.2	
12209162	2025-11-17	8:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 012	CAMDEN	0	1.2	1.2
12209163	2025-11-17	8:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 008	CAMDEN	0	1.4	
12209164	2025-11-17	8:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 006	CAMDEN	0	0.9	
12209165	2025-11-17	8:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 005	CAMDEN	0	1.6	
12209166	2025-11-17	8:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 001	CAMDEN	0	1.0	
12209167	2025-11-17	8:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 001	CAMDEN	0	1.4	1.2
12209168	2025-11-17	8:00 am	2025-11-20	2:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 001A	CAMDEN	0	1.5	
12209169	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	MAIN OFFICE 103	CAMDEN	1	< 0.3	
12209170	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 103A	CAMDEN	1	< 0.3	
12209171	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 103C	CAMDEN	1	< 0.3	

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Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result	
12209172	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 103D	CAMDEN	1	0.6	
12209173	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 103E	CAMDEN	1	< 0.3	
12209174	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 105	CAMDEN	1	0.5	
12209175	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 104	CAMDEN	1	< 0.3	<0.3
12209176	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 104	CAMDEN	1	< 0.3	
12209177	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 101B	CAMDEN	1	< 0.3	
12209178	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 101C	CAMDEN	1	< 0.3	
12209179	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 102	CAMDEN	1	< 0.3	
12209180	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	STAFF 101	CAMDEN	1	< 0.3	
12209181	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 100	CAMDEN	1	< 0.3	
12209182	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 134	CAMDEN	1	< 0.3	
12209183	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 133	CAMDEN	1	< 0.3	
12209184	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 132	CAMDEN	1	< 0.3	
12209185	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 130	CAMDEN	1	< 0.3	<0.3
12209186	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 130	CAMDEN	1	< 0.3	
12209187	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 168	CAMDEN	1	< 0.3	
12209188	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 165	CAMDEN	1	< 0.3	
12209189	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	OFFICE 166	CAMDEN	1	< 0.3	
12209190	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	HEALTH OFFICE 153	CAMDEN	1	< 0.3	
12209191	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 208	CAMDEN	2	< 0.3	
12209192	2025-11-17	8:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	MEDIA 200	CAMDEN	2	< 0.3	
12209193	2025-11-17	9:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 305	CAMDEN	3	< 0.3	
12209194	2025-11-17	9:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 317	CAMDEN	3	0.5	0.6
12209195	2025-11-17	9:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	CLASSROOM 317	CAMDEN	3	0.6	
12209196	2025-11-17	9:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	ROOM A	CAMDEN	3	< 0.3	
12209197	2025-11-17	9:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	ROOM B	CAMDEN	3	< 0.3	
12209198	2025-11-17	9:00 am	2025-11-20	3:00 pm	70	MPS CAMDEN	MPS CAMDEN	ROOM C	CAMDEN	3	< 0.3	

Environmental Health & Safety
Office: (612) 668-0310
Direct: (612) 668-0306

Andrew Tinklenberg
Safety Specialist

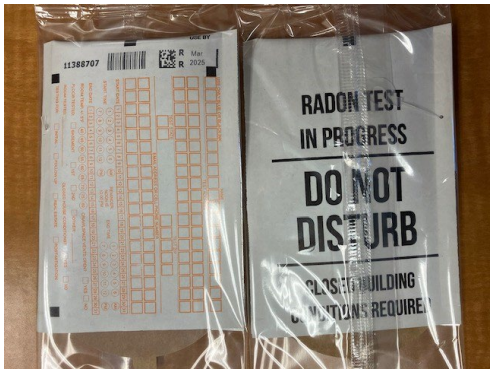
RADON TESTING NOTIFICATION (2025)

Camden High School

The District will be conducting short-term radon testing at Camden High School. Radon is a naturally occurring radioactive gas that is created from the breakdown of Radium that is naturally present in soil. Radon can enter buildings from the soil through gaps, cracks and holes in the foundation. Radon testing is performed periodically and is being performed based on Minnesota Department of Health recommendations and protocols. As per the recommendations, frequently occupied, ground level or ground contact areas will be the focus of the testing. Sampling locations will be selected that provide the best representation of these areas.

If your room is selected for testing, please do your part by ensuring that the devices are not removed or tampered with in any way. The devices are small, rectangular envelopes, approximately 4 by 6 inches and will typically be hung from the ceiling or an interior wall. The short-term radon detectors are planned to be placed and collected November 17 – 20, 2025. When available, sample results will be shared with your administration and placed on the EH&S webpage available through the main MPS website.

An example of the detector is pictured below:



Thank you very much for your cooperation. If you have questions, please contact me at 612-668-0306 or andrew.tinklenberg@mpls.k12.mn.us

Notice of Inspection for Building Occupants

A radon test is scheduled for:

Building: Camden High School

Test Start Date: 11/17/2025 Test End Date: 11/20/2025

An important step is being taken to ensure a safe and healthy building. Testing for radon is recommended for all homes and schools.

Radon is a naturally occurring radioactive gas that can be present in some buildings at concentrations greater than recommended. In the United States, radon exposure is the second leading cause of lung cancer, and it is the leading cause of lung cancer in nonsmokers.

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.

The test devices are not dangerous in any way and a sample device is available to view upon request.

More information about radon in Minnesota can be found online at mn.gov/radon.

If you have any questions or concerns, please contact:

Andrew Tinklenberg, 612-668-0306, andrew.tinklenberg@mpls.k12.mn.us

Minnesota Department of Health, Indoor Air Unit, PO Box 64975, St. Paul, MN 55164
651-201-4601, health.indoorair@state.mn.us, mn.gov/radon

8/18/2023, To obtain this information in a different format, call: 651-201-4601.

DEPARTMENT OF HEALTH

Notice of Inspection for Facilitating Staff

A radon test is scheduled for:

Building: Camden High School

Test Start Date: 11/17/2025 Test End Date: 11/20/2025

Please help to maintain the required test conditions throughout the building:

1. All windows and exterior doors must be kept closed (aside for 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 found on the next page.

Test kits are not dangerous in any way. The type of devices used for this testing may include:

- **Short-term test kits**: It's important these devices are fully open and not covered. They will be analyzed by a laboratory.
- **Continuous radon monitors**: These are electronic monitors 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 rest is complete.

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

Yes (●) No ( )

Name: Andrew Tinklenberg

Signature: _____ Date: 11/20/2025

Required Closed Building Conditions for Radon Testing

Building Component	Action Required
Windows	Keep Closed, Seal broken windows closed
External doors (except for normal entry or exit)	Keep Closed
Heating & Cooling Systems	Set to normal operating conditions
Bathroom fans	Operate normally
Fireplaces (including gas)	Do not operate
Auxiliary or temporary systems that bring air into the building	Do not operate, unless an integral part of HVAC or supplies make-up air for combustion appliances
Exhaust systems (ex. from shops, laundries, kitchens)	Avoid excessive operation
Interior doors, Stairwells, Fire Doors	Operate Normally
Garage doors	Operate normally
Ceiling Fans, Portable Fans	Do not blow directly on the test device
Window AC Units	Operate in recirculation mode only
Window Fans	Do not operate. Seal shut or remove.
Humidifiers, Dehumidifiers, Portable Air Cleaners	Operate Normally
Central Vacuum Cleaner Systems	Operate Normally
Passive crawl space vents	Operate normally
Crawlspace exhaust systems for humidity control	Operate normally
Passive Vents for Combustion Make-Up Air	Leave Open

Building Component	Action Required
Combustion Appliance Vents	Operate Normally
Passive Solar Systems	Operate Normally
Attic Vent Fans	Operate Normally
Evaporative Cooling Systems	Do not operate

Radon Test Device Placement Requirements

Place detectors within the general breathing zone. Locate detectors no less than:

- 3 feet from exterior doors, windows, other openings to outdoors,
- 20 inches above the floor,
- 4 inches from other test devices and objects, and
- 1 foot from ceilings.

Place detectors where they are not easily disturbed.

Place detectors where they are not influenced by other factors:

- Do not place in closets, crawlspaces, cupboards, sumps, or nooks within building foundation,
- Do not place devices in areas with high air movement (ex. mechanical areas, furnace closets),
- Do not place devices in areas with high humidity (ex. kitchens, bathrooms, laundry rooms),
- Do not place devices near drafts from HVAC systems or fans,
- Do not place test devices near heat sources (ex. appliances, radiators, fireplaces, direct sun), and
- Do not place detectors on devices that produce radiation (ex. natural stone counters, pool tables, rock collections)

For more information regarding on-site activities, contact:

Licensed measurement professional: Andrew Tinklenberg (RMEA-00426)

Minnesota Department of Health, Indoor Air Unit, PO Box 64975, St. Paul, MN 55164
651-201-4601, health.indoorair@state.mn.us, mn.gov/radon

8/17/2023, To obtain this information in a different format, call: 651-201-4601.

Client Commitment to Compliance

Management Commitment:

To the extent reasonably possible, I, on behalf of Minneapolis Public Schools, commit to helping ensure that building conditions required to achieve reliable radon tests are met, as portrayed herein.

Client/Authorized Agent: Andrew Tinklenberg

Signature: _____ Date: 11/17/2025

Building On-Site Supervisor Commitment:

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

1. **Prior Notifications**: Notices will be distributed to all tested and non-tested dwellings and posted in publicly accessible areas in a timely manner.

2. **Access**: Access will be provided to each location being tested within a building with intent to access all locations on the same day for both the event of placing testing devices and a second event for retrieving test devices.

On-Site Supervisor: (On behalf of Senior Custodian, see email correspondence)

Signature: _____ Date: 11/17/2025

Building Operations Staff Commitment:

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

1. **Building Preparation:** I accept responsibility that, no later than 12 hours prior to testing, each building scheduled for testing will be reviewed for compliance with closed-building requirements.

2. **Compliance Verification**: I accept responsibility for taking actions that could include adjustments to HVAC units and repairs where completion is required no later than 12 hours prior to testing.

HVAC Operations Supervisor: (On behalf of Jason Kohnen see email correspondence)

Signature: _____ Date: 11/17/2025

Minnesota Department of Health, Indoor Air Unit, PO Box 64975, St. Paul, MN 55164
651-201-4601, health.indoorair@state.mn.us, mn.gov/radon

8/17/2023, To obtain this information in a different format, call: 651-201-4601.

DEPARTMENT OF HEALTH

Client Authorizations & Communications

Client and Facilitating Staff Member Contact Information

Client/Authorized Agent Lee Setter phone (612) 668-0308

Onsite Supervisor Andrew Tinklenberg phone (612) 668-0306

Building/Dwelling Access Andrew Tinklenberg phone (612) 668-0306

HVAC Operations Jason Kohnen phone (612) 668-0338

Other Contact/Title _____ phone _____

Radon Testing Professional Contact Information

Scheduling/Logistics Andrew Tinklenberg phone (612) 668-0306

Onsite Supervisor Andrew Tinklenberg phone (612) 668-0306

Field Technician Andrew Tinklenberg phone (612) 668-0306

Field Technician _____ phone _____

Staff authorized for responding to occupant and public inquiries:

Name/Title Lee Setter phone (612) 668-0308

Name/Title _____ phone _____

Person(s) authorized to receive report data and incremental reports:

Name/Title Andrew Tinklenberg phone (612) 668-0306

Name/Title _____ phone _____

Frequency of Reports

☐ prior to testing ☐ after each phase of testing ☑ when testing is complete

Minnesota Department of Health | Indoor Air Unit | PO Box 64975 | St. Paul, MN 55164 | 651-201-4601
health.indoorair@state.mn.us | www.health.state.mn.us | mngov/radon

08/17/2023 | To obtain this information in a different format, call: 651-201-4601.

MINNEAPOLIS PUBLIC SCHOOLS

Camden High Test Condition Summary

November 17-20, 2025 – Minneapolis, MN (Climate Zone 6)

	Annually	During the Test
Outdoor Temperatures	Average = 46° F	Max. = 46° F Min. = 37° F Average = 41° F
Prevailing Operating Condition (Heating/Cooling)	Heating – 50% Cooling – 25% Mixed – 25%	Heating – 100% Cooling – 0% Mixed – 0%
Air Distribution Systems	Intermittent during summer	Active

* - Note: No rain or snowfall were recorded during the testing period and winds were light to moderate.

Informative Advisories

1. Fluctuations in radon concentrations are usually caused by either:
   - changes in the strength of indoor air pressures that draw soil gas into a building; or
   - changes in the volume of outside air entering a building.
2. Clear characterization of a radon hazard is more likely to occur when:
   - Outdoor temperatures extend below 65˚F (18˚C), at least intermittently, which causes natural indoor air pressures that draw radon laden soil gas into a building; and
   - Heating or cooling distribution fans are at least intermittently active during a test.
3. Measurements more likely to reflect an occupant's exposure to radon are measurements conducted under conditions that most closely align to the building operating conditions that prevail during the greatest amount of time each year.

* - Above advisory information is taken from page 33 of the ANSI/AARST MA-MFLB-2023 Standard, "Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings." Additional advisory notes/information will be added when necessary. Weather information was collected from timeanddate.com/weather/usa/minneapolis.

Date: 11/17/25
RE: FY26 Radon QA-QC Spike Sample Results

INTRODUCTION

As part of MPS Radon Safety Management Program and recommended MDH Guidance for Radon Testing in MN Schools, Quality Assurance/Quality Control (QA-QC) spike sampling is performed. Spike samples are samples which are loaded with a known quantity or concentration of analyte (in this case, picocuries of radon per liter of air (pCi/L)). The results of the Relative Percent Error (RPE) between the spiked amount and the actual lab result are expected to fall between +/- 10%, but the entire range of +/- 20% is considered "in control." Outside of +/- 20% but inside of +/- 30% is the warning level and outside of +/- 30% is the control limit. Any RPE outside of 20% will be investigated and documented. The below table summarizes the results of the spike sampling that was performed.

RESULTS

Spike Sample #	KSU Radon Chamber Spike Results (pCi/L) [1]	AirChek Lab Results (pCi/L) [2]	RPE (%)
11811364	36.6	33.5	-8 %
12209001	36.6	31.5	-14 %
12209002	36.6	32.3	-12 %
12209003	36.6	30.8	-16 %
12209004	36.6	30.5	-17 %
12209005	36.6	35.3	-4 %

[1] – Samples were spiked at Kansas State University (KSU) Radon Chamber, 2323 Anderson Ave., Suite 300, Manhattan, KS 66502, NRPP Certification ID Number SC-1006
[2] – Samples were analyzed by Air Chek, 1936 Butler Bridge Road, Mills River, NC 28759, NRPP Certified Lab # 101138 AL

SUMMARY

Results show that each of the spike sample results were acceptable and within control. Refer to the attached KSU and Air Chek reports for additional information.

If you have any questions regarding this information, please feel free to contact me. Thank you,

Andrew Tinklenberg
MDH RMEA-00426, NRPP ID# 111389 RT
Safety Specialist - Environmental Health & Safety
Minneapolis Public Schools - Facilities Dept.
1225 N. 7th Street, Minneapolis, MN 55411
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612-668-0306 Phone

Radon Chamber

Kansas State University

KSU Radon Chamber NRPP Certification ID Number SC-1006

11/12/25

Andrew Tinklenberg
Minneapolis Public Schools
1225 N. 7th Street, Minneapolis, MN 55411
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612-668-0306

These are the results of the spiking that we performed on the device(s) listed below:

Device Serial #	Start Date	Start Time	Stop Date	Stop Time	Chamber Value *
11811364	**11/10/25**	**9:05**	**11/12/25**	**9:25**	**36.6 pCi/L**
12209001	**11/10/25**	**9:05**	**11/12/25**	**9:25**	**36.6 pCi/L**
12209002	**11/10/25**	**9:05**	**11/12/25**	**9:25**	**36.6 pCi/L**
12209003	**11/10/25**	**9:05**	**11/12/25**	**9:25**	**36.6 pCi/L**
12209004	**11/10/25**	**9:05**	**11/12/25**	**9:25**	**36.6 pCi/L**
12209005	**11/10/25**	**9:05**	**11/12/25**	**9:25**	**36.6 pCi/L**

These devices were spiked in our chamber at an average relative humidity of avg/rh 26.4%.
These devices were spiked in our chamber at a chamber temperature of 70.7°F.
This chamber is at an elevation of approximately 1020 feet.

The additional information below is provided as a service for our customers who have furnished KSU Radon Chamber with the customer's measured values for the above devices. This equation calculates the difference between our chamber value and the customer's measured value and is called the percent error. It is calculated as follows:

$$\% \text{ Error} = \frac{\text{Measured Value} - \text{Chamber Value}}{\text{Chamber Value}} * 100$$

Measured Value: pCi/L **Chamber Value:** pCi/L **Error:**

Thank you for your patronage. If we can be of further help, please email us at radonchamber@ksu.edu or call us at (785-532-3957).

Sincerely,

Alexandra Bahadori

I5554 / ANDREW TINKLENBERG / MINNEAPOLIS PUBLIC SCHOOLS

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11811364	2025-11-10	9:00 am	2025-11-12	9:00 am	71	MPS	MPS BUILDING 1	1		1	33.5
12209001	2025-11-10	9:00 am	2025-11-12	9:00 am	71	MPS	MPS BUILDING 1	2		1	31.5
12209002	2025-11-10	9:00 am	2025-11-12	9:00 am	71	MPS	MPS BUILDING 1	3		1	32.3
12209003	2025-11-10	9:00 am	2025-11-12	9:00 am	71	MPS	MPS BUILDING 1	4		1	30.8
12209004	2025-11-10	9:00 am	2025-11-12	9:00 am	71	MPS	MPS BUILDING 1	5		1	30.5
12209005	2025-11-10	9:00 am	2025-11-12	9:00 am	71	MPS	MPS BUILDING 1	6		1	35.3

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