

December 1, 2025

Mr. Jason Bing, RA, LEED AP  
Director, Capital Programs  
Ann Arbor Public Schools  
2555 South State Street  
Ann Arbor, MI 48104  
[BingJ@aaps.k12.mi.us](mailto:BingJ@aaps.k12.mi.us)

RE: AEG Project #AE251018  
Radon Sampling Services  
Ann Arbor Public Schools, Scarlett Middle School

Dear Mr. Bing:

Pursuant to the request of Ann Arbor Public Schools, Arch Environmental Group, Inc. (AEG) conducted follow-up short-term radon sampling in seven locations in Scarlett Middle School. The detectors were placed in the facility on November 20, 2025 and were retrieved on November 25, 2025. Samples were analyzed by Air Chek, Inc. located in Mills River, North Carolina.

#### I. Introduction

The U.S. Environmental Protection Agency (EPA) and other major national and international scientific organizations have concluded that radon is a human carcinogen and a serious environmental health problem. Radon is a naturally occurring radioactive gas. It comes from the natural breakdown (decay) of uranium which is found in soil and rock all over the United States. Radon travels through soil and enters buildings through cracks and other holes in the foundation. Eventually it decays into radioactive particles (decay products) that can become trapped in your lungs when you breathe. As these particles in turn decay, they release small bursts of radiation. The radiation can damage lung tissue and lead to lung cancer over the course of your lifetime. Radon is colorless, odorless, and tasteless. The only way to know whether or not elevated levels of radon are present in a location is to test.

There are two ways to test for radon:

1. A **short-term test** is the quickest test for radon. In this test the device remains in the room for a period of **2 to 90 days** depending on the device.
2. A **long-term test** remains in place for more than 90 days.

The EPA recommends that action should be taken when radon levels are found to be 4pCi/L (Pico Curies per Liter of air) or higher.

#### II. Sampling Analysis & Strategies

During the initial investigation conducted from November 11-13, 2025, seven sample locations identified radon concentrations above the EPA "action level" of 4.0 pCi/L. Prudent practice suggests that when an initial short-term test is completed as a means of confirming the results of the initial test. As a result, AEG conducted supplemental testing from November 20-25, 2025.

Activated charcoal adsorption devices (ACs) are a passive detector system for the measurement of radon concentrations in the air. Once the detector is opened, radon gas diffuses passively onto the activated charcoal and radon concentration is determined. ACs are passive devices. The charcoal within these devices has been treated to increase its ability to adsorb gases. The passive nature of the activated charcoal allows continual adsorption and desorption of radon. During the entire measurement period (typically two to seven days), the adsorbed radon undergoes radioactive decay. AEG deposited the AC detectors on November 20, 2025. The detectors were placed between knee and shoulder height on a flat or hanging surface. Additionally, the detectors were placed at least 1 foot from exterior walls, 3 feet from windows or doors, away from direct sunlight and away from heat vents. After a designated time, the samples were retrieved on November 25, 2025; the AC detectors were closed and collected for laboratory analysis. One duplicate sample and one blank sample necessary for quality assurance purposes were also collected at the facility.

As the sample results shown in *Attachment A* indicate, all samples collected identified radon concentrations above the EPA recommended “action level” of 4.0 pCi/L with sample results ranging from 4.3 pCi/L to 17.3 pCi/L. The sample locations above the action level and their reported concentration are as follows:

- Room 123 Storage – 4.7 pCi/L
- Room 124 – 5.6 pCi/L
- Room 126 – 6.9 pCi/L
- Room 127 – 5.5 pCi/L
- Room 128 – 5.1 pCi/L
- Room 136A – 4.3 pCi/L
- Room 138 Storage – 16.0 pCi/L

Prudent practice recommends that areas where radon levels are potentially above the “action level” should be retested with a second short-term test to confirm the results of the initial test. As this was the second test above the “action level,” AEG recommends progressing to a long-term test of at least 90 days or taking corrective measures to reduce levels below the “action level”. It may also be prudent to consider installation of radon mitigation systems as necessary to reduce radon levels below the action level.

### III. Conclusions

In accordance with accepted sampling protocols, AEG recommends placing either long-term test kits in the above referenced locations or instituting corrective measures to reduce radon levels below the action level of 4.0 pCi/L. The EPA suggests that schools retest sometime in the future, especially after significant changes to the building structure or the HVAC system.

If you have any question regarding this information or work conducted by Arch Environmental Group, Inc., please feel free to contact me at (248) 426-0165 [office] or (248) 252-3618 [mobile].

Sincerely,

**HealthAIR**  
A Division of *arch environmental group*



Philip E. Grosse  
Project Consultant III



***Attachment A***  
***Official Laboratory Results***

---

December 1, 2025

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

---

Radon test result report for:  
**AAPS**  
**SCARLETT MS**

---

<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
12268076	123 STORAGE	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	4.7 ± 0.5	2025-12-01
12268077	124	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	5.6 ± 0.6	2025-12-01
12268078	126	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	6.9 ± 0.7	2025-12-01
12268079	127	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	5.5 ± 0.6	2025-12-01
12268080	128	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	5.1 ± 0.6	2025-12-01
12268081	136A	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	3.8 ± 0.5	2025-12-01
12268082	138 STO	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	16.0 ± 1.3	2025-12-01
12268083	138 STO DUP	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	15.6 ± 1.2	2025-12-01
12268084	BLANK 1	2025-11-20 @ 4:00 pm	2025-11-25 @ 2:00 pm	< 0.3	2025-12-01

---

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

Kit Number	Start Date	Start Time	End Date	End Time	Temperature	Facility	Building	Room	Project ID
12268076	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	123 STOR	AE251018
12268077	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	124	AE251018
12268078	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	126	AE251018
12268079	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	127	AE251018
12268080	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	128	AE251018
12268081	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	136A	AE251018
12268082	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	138 STO	AE251018
12268083	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	138 STO	AE251018
12268084	2025-11-2	4:00 pm	2025-11-2	2:00 pm	70	AAPS	SCARLET	BLANK 1	AE251018

Floor	Result	Variance	Analysis N	Analysis D	%Moisture	Street	City	State	ZIP
1	4.7	0.5		2025-12-0	0.4				
1	5.6	0.6		2025-12-0	2				
1	6.9	0.7		2025-12-0	2.8				
1	5.5	0.6		2025-12-0	2.8				
1	5.1	0.6		2025-12-0	2				
1	3.8	0.5		2025-12-0	1.2				
1	16	1.3		2025-12-0	3.6				
1	15.6	1.2		2025-12-0	2.8				
3	< 0.3	0.4		2025-12-0	2				