



**MCPS RADON TESTING – EXECUTIVE SUMMARY**

Site Name	Tilden Middle School
Date of Test Report	05/12/2022
Round of Testing	Initial <u>Follow-up</u> Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	2
# Rooms $\geq$ 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	<0.3 pCi/L

**Project Status**

Current Project Status at this time: Testing completed; no further action needed



May 12, 2022

Mr. Brian Croyle, PG, CHMM  
Environmental Specialist  
Montgomery County Public Schools  
Gaithersburg, MD 20879

Re: **Radon Testing Services**  
KCI Job # 122108316

Location: Tilden Middle School  
6300 Tilden Lane  
Rockville, MD 20852

Dear Mr. Croyle:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Tilden Middle School, located at 6300 Tilden Lane, Rockville, MD 20852 (subject site).

**Scope of Services:**

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from <https://www.montgomeryschoolsmd.org> or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on March 22, 2022 and deployed five (5) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

KCI sampled the following locations during this follow-up test:

1. Rooms with missing test kits from the Radon 2022 testing period (i.e. test kit was deployed but not recovered),
2. Rooms with invalidated test kits from the Radon 2022 testing period (e.g. an open window in the room or disturbed test kit),
3. Rooms which were locked/inaccessible during the Radon 2022 testing period,
4. Rooms with elevated radon results (i.e.  $\geq 3.5$  pCi/L),
5. Rooms previously tested for radon but not tested in Radon 2022, and
6. Additional rooms that require testing (if applicable.)

A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, KCI also included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner prior to being returned to the laboratory for analysis.

KCI returned to the site on March 25, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

### **Evaluation of Testing Conditions:**

These tests represent:

- Follow-up to initial testing.

These tests were conducted to:

- Evaluate radon concentrations at the facility.

According to AARST, *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, ideal testing conditions would be when the building is fully occupied and the heating system is active. For this test, the facility's HVAC system was operating in heating mode; therefore, KCI concludes that this test was conducted during ideal testing conditions.

KCI recorded observations of the following conditions in each room during the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the low 40°Fs and high temperatures ranged from the low 50°Fs to the low 70°Fs. Maximum sustained winds ranged from 0-29 miles per hour. Average humidity was around 56% with 0.51 inches of precipitation (rain) was recorded during testing period.

### **Results:**

The sampling locations and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Attachment B). Sampling locations and associated test kit identification numbers and relevant field observations are listed on Table 3 (Attachment B). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 pCi/L	None	N/A
<4.0 pCi/L	See Attachment B	

Quality Control Samples	
Results of Blank Canisters:	The office blanks, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L.
Adequate Laboratory Precision?	Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved.
Spike Sample Analysis:	The Spike Sample analysis results indicate the laboratory is operating within statistical control limits.

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 891-1769.

Sincerely,



Tyler P. McCleaf  
Radon Measurement Provider  
#111004 RT  
KCI Technologies, Inc.

Attachments:   A- Floor Plan with Test Locations  
                  B- Table 1-3, Radon Test Summary Spreadsheets  
                  C- Laboratory Analytical Results

# ATTACHMENT A

## Floor Plan With Test Locations

# ATTACHMENT B

## Radon Test Summary Spreadsheet

**Table Notes:**

AC- Activated Charcoal

ACI- Air Check, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results		
Tilden MS RT		
Test Period: 03/22/2022 - 03/25/2022		
Kit Number	Room / Area	Result
11131713	1039	< 0.3
11131714	1039	< 0.3
11131752	1039	< 0.3
11131748	1090	< 0.3
11131753	1090	< 0.3



Table 2- Radon Testing Results			
Tilden MS RT			
Test Period: 03/22/2022 - 03/25/2022			
Kit Number	QC Type	Room / Area	Result
11131752	D	1039	< 0.3
11131713	FB	1039	< 0.3
11139902	OB	OFFICE BLANK	< 0.3
11139928	TB	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Tilden MS RT		
Test Period: 03/22/22 - 03/25/22		
Kit Number	Room/Area	Result
	NA	

Summary of Missing, Compromised and >= 4 piC/L Tests		
Tilden MS RT		
Test Period: 03/22/22 - 03/25/22		
Kit Number	Room/Area	Result
	NA	

Table Note:  
 \* Missing or Compromised Sample

# ATTACHMENT C

## Laboratory Analytical Results

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March 28, 2022

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

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Radon test result report for:  
**TILDEN MS**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11131752	1039	2022-03-22 @ 12:00 pm	2022-03-25 @ 11:00 am	< 0.3	2022-03-28
11131714	1039	2022-03-22 @ 12:00 pm	2022-03-25 @ 11:00 am	< 0.3	2022-03-28
11131713	1039	2022-03-22 @ 12:00 pm	2022-03-25 @ 11:00 am	< 0.3	2022-03-28
11131748	1090	2022-03-22 @ 12:00 pm	2022-03-25 @ 11:00 am	< 0.3	2022-03-28
11131753	1090	2022-03-22 @ 12:00 pm	2022-03-25 @ 11:00 am	< 0.3	2022-03-28

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

# EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 204620

NOMINAL Conditions: Radon Conc 27.0 pCi/L Rel. Hum 50.1 % Temp. 70.0 F

Date Start: 3/18/22 Date Stop: 3/21/22 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0705 Time Stop: 0705 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (5) Char Bags - Device No.'s: \_\_\_\_\_

11139367, 11139368, 11139371, \_\_\_\_\_

11139710, 11139717 \_\_\_\_\_

E3 light

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_ Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_ Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: \_\_\_\_\_ Device No.'s: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_ Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_ Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: \_\_\_\_\_ Device No.'s: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)  
Background = 7  $\mu$ R/h Elevation = 820 ft

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March 30, 2022

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

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Radon test result report for:

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within  $\pm 25\%$  of the chamber's reference value (25.7 pCi/L).

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11139367	SK1	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.9 $\pm$ 2.1	2022-03-30
11139368	SK2	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	23.9 $\pm$ 2.0	2022-03-30
11139371	SK3	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.7 $\pm$ 2.1	2022-03-30
11139710	SK4	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	26.4 $\pm$ 2.1	2022-03-30
11139717	SK5	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	24.6 $\pm$ 2.0	2022-03-30

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## Radon Test Kit Chain of Custody

Project Name: MCPS Radon – March 2022 Schools – Retesting

Name of Schools:

1. Herbert Hoover MS
2. Parkland MS
3. Redland MS
4. Rock Creek Valley ES
5. Tilden MS
6. Rockville HS
7. Wootton HS
8. Capt. James E. Daly ES
9. Clarksburg HS
10. Clearspring ES
11. Hallie Wells MS
12. Northwest HS
13. Paint Branch HS
14. Rocky Hills MS
15. Seneca Valley HS
16. Sherwood HS
17. Wilson Wims ES

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	Date	Initials
Radon Test Kits Deployed	03/22/2022	BMM
Radon Test Kits Collected	03/25/2022	BMM
Radon Test Kits Shipped to Lab*	03/25/2022	BMM
Radon Test Kits Received by Lab*	03/28/2022	BMM

\*All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759



**MCPS RADON TESTING – EXECUTIVE SUMMARY**

Site Name	Tilden Middle School
Date of Test Report	4/6/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	62
# Rooms ≥ 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.0 pCi/L

Project Status:

Initial testing completed; Missing or compromised kits need re-sampling.





April 6, 2022

Brian T. Croyle, PG, CHMM  
Environmental Specialist  
Montgomery County Public Schools  
Gaithersburg, MD 20879

Re: **Radon Testing Services**  
KCI Job # 122108316

Location: Tilden MS  
6300 Tilden Ln.  
Rockville, MD 20852

Dear Mr. Croyle:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Tilden MS, located at 6300 Tilden Ln. Rockville, MD 20852 (subject site).

**Scope of Services:**

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from <https://www.montgomeryschoolsmd.org> or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on February 7, 2022 and deployed seventy two (72) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, KCI also included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner prior to being returned to the laboratory for analysis.

KCI returned to the site on February 10, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc.

is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

**Evaluation of Testing Conditions:**

These tests represent:

- Initial testing.

These tests were conducted to:

- Evaluate radon concentration levels at the facility.

According to AARST, *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, ideal testing conditions would be when the building is fully occupied and the heating system is active. For this test, the facility’s HVAC system was operating in heating mode; therefore, KCI concludes that this test was conducted during ideal testing conditions.

KCI recorded observations of the following conditions in each room during the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the 30s and high temperatures ranged from the mid 30s to the mid 50s Fahrenheit. Maximum sustained winds ranged from 3-12 miles per hour. Average humidity was around 23% with 0.1 inches of precipitation (rain) was recorded during testing period.

**Results:**

The sampling locations and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Attachment B). Sampling locations and associated test kit identification numbers and relevant field observations are listed on Table 3 (Attachment B). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 pCi/L	None	N/A
<4.0 pCi/L	See Attachment B	

Quality Control Samples	
Results of Blank Canisters:	The office blanks, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L.
Adequate Laboratory Precision?	Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved.
Spike Sample Analysis:	The Spike Sample analysis results indicate the laboratory is operating within statistical control limits.

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 891-1769.

Sincerely,



Tyler P. McCleaf  
Radon Measurement Provider  
#111004 RT  
KCI Technologies, Inc.

Attachments:     A- Floor Plan with Test Locations  
                      B- Table 1-3, Radon Test Summary Spreadsheets  
                      C- Laboratory Analytical Results

# ATTACHMENT A

## Floor Plan With Test Locations

# ATTACHMENT B

## Radon Test Summary Spreadsheet

**Table Notes:**

AC- Activated Charcoal

ACI- Air Check, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results		
Tilden MS		
Test Period: 02/7/2022 - 02/10/2022		
Kit Number	Room / Area	Result
11113580	194	< 0.3
11113576	1001	< 0.3
11113567	1005	0.6
11113568	1024	< 0.3
11113574	1028	< 0.3
11113585	1029	< 0.3
11113583	1031	< 0.3
11113588	1032	< 0.3
11113595	1032	< 0.3
11113582	1037	< 0.3
11113551	1039	NA
11113552	1039	< 0.3
11113721	1045	< 0.3
11113702	1049	< 0.3
11113592	1062	< 0.3
11113593	1064	< 0.3
11113578	1080	0.5
11113587	1084	< 0.3
11113596	1084	< 0.3
11113704	1090	0.6
11113711	1090	< 0.3
11113712	1090	NA
11113597	1091	0.7
11113589	1093	< 0.3
11113594	1095	< 0.3
11113600	1097	< 0.3
11113598	1099	0.8
11113703	1099	< 0.3
11113705	1100	< 0.3
11113713	1108	< 0.3
11113714	1112	< 0.3
11113720	1112	< 0.3
11113709	1116	< 0.3
11113710	1120	< 0.3
11113716	1122	< 0.3
11113722	1126	< 0.3
11113730	2047	< 0.3
11113737	2047	< 0.3
11113732	2092	< 0.3
11113731	2096	< 0.3
11113729	2102	< 0.3
11113733	2108	< 0.3

Table 1- Radon Testing Results		
Tilden MS		
Test Period: 02/7/2022 - 02/10/2022		
Kit Number	Room / Area	Result
11113738	3104	< 0.3
11113541	1000A	< 0.3
11113534	1000B	< 0.3
11113549	1000E	< 0.3
11113543	1000F	< 0.3
11113550	1000G	< 0.3
11113544	1000H	< 0.3
11113559	1000J	< 0.3
11113548	1000K	< 0.3
11113560	1000L	< 0.3
11113575	1000L	< 0.3
11113584	1031A	< 0.3
11113591	1080D	0.7
11113706	1100D	< 0.3
11113719	1102B	< 0.3
11113717	1127A	< 0.3
11113718	1127B	< 0.3
11113701	1127D	< 0.3
11113727	1127D	< 0.3
11113726	1127E	< 0.3
11113728	1127E	< 0.3
11113725	1127F	< 0.3
11113735	1127G	0.6
11113736	1127H	< 0.3
11113577	CAFETERIA	1.0
11113599	CAFETERIA	0.8
11113590	CAFETERIA OFFICE	< 0.3
11113542	GENERAL OFFICE	< 0.3
11113581	GYM	0.7
11113586	GYM	0.7



Table 2- Radon Testing Results			
Tilden MS			
Test Period: 02/7/2022 - 02/10/2022			
Kit Number	QC Type	Room / Area	Result
11113575	D	1000L	< 0.3
11113551	FB	1039	NA
11113595	D	1032	< 0.3
11113587	D	1084	< 0.3
11113703	D	1099	< 0.3
11113712	FB	1090	NA
11113720	D	1112	< 0.3
11113727	FB	1127D	< 0.3
11113728	D	1127E	< 0.3
11113737	D	2047	< 0.3
11113481	OB	OFFICE BLANK	< 0.3
11113483	TB	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Tilden MS		
Test Period: 02/7/22 - 02/10/22		
Kit Number	Room/Area	Result
	NA	

Summary of Missing, Compromised and >= 4 pC/L Tests		
Tilden MS		
Test Period: 02/7/22 - 02/10/22		
Kit Number	Room/Area	Result
11113551	1039	Compromised
11113712	1090	Compromised

Table Note:  
\* Missing or Compromised Sample

# ATTACHMENT C

## Laboratory Analytical Results

Radon test result report for:  
**TILDEN MIDDLE SCHOOL**  
**MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11113541	1000A	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113534	1000B	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113549	1000E	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113543	1000F	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113550	1000G	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113544	1000H	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113559	1000J	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113548	1000K	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113560	1000L	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113575	1000L	2022-02-07 @ 1:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113576	1001	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113567	1005	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	0.6 ± 0.3	2022-02-14
11113568	1024	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113574	1028	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113585	1029	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113583	1031	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113584	1031A	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113595	1032	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113588	1032	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113582	1037	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113552	1039	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113551	1039	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	???? IF1	2022-02-14
11113721	1045	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113702	1049	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113592	1062	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113593	1064	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113578	1080	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	0.5 ± 0.3	2022-02-14
11113591	1080D	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	0.7 ± 0.3	2022-02-14
11113587	1084	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113596	1084	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113711	1090	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113704	1090	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	0.6 ± 0.3	2022-02-14
11113712	1090	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	???? UI	2022-02-14
11113597	1091	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	0.7 ± 0.3	2022-02-14
11113589	1093	2022-02-07 @ 2:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113594	1095	2022-02-07 @ 2:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113600	1097	2022-02-07 @ 2:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14

Radon test result report for:  
**TILDEN MIDDLE SCHOOL**  
**MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11113703	1099	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113598	1099	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	0.8 ± 0.3	2022-02-14
11113705	1100	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113706	1100D	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113719	1102B	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113713	1108	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113714	1112	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113720	1112	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113709	1116	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113710	1120	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113716	1122	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113722	1126	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113717	1127A	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113718	1127B	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113701	1127D	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113727	1127D	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113726	1127E	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113728	1127E	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113725	1127F	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113735	1127G	2022-02-07 @ 3:00 pm	2022-02-10 @ 9:00 am	0.6 ± 0.3	2022-02-14
11113736	1127H	2022-02-07 @ 4:00 pm	2022-02-10 @ 9:00 am	< 0.3	2022-02-14
11113580	194	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113730	2047	2022-02-07 @ 4:00 pm	2022-02-10 @ 10:00 am	< 0.3	2022-02-14
11113737	2047	2022-02-07 @ 4:00 pm	2022-02-10 @ 10:00 am	< 0.3	2022-02-14
11113732	2092	2022-02-07 @ 4:00 pm	2022-02-10 @ 10:00 am	< 0.3	2022-02-14
11113731	2096	2022-02-07 @ 4:00 pm	2022-02-10 @ 10:00 am	< 0.3	2022-02-14
11113729	2102	2022-02-07 @ 4:00 pm	2022-02-10 @ 10:00 am	< 0.3	2022-02-14
11113733	2108	2022-02-07 @ 4:00 pm	2022-02-10 @ 10:00 am	< 0.3	2022-02-14
11113738	3104	2022-02-07 @ 4:00 pm	2022-02-10 @ 10:00 am	< 0.3	2022-02-14
11113577	CAFETERIA	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	1.0 ± 0.3	2022-02-14
11113599	CAFETERIA	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	0.8 ± 0.3	2022-02-14
11113590	CAFETERIA OFFICE	2022-02-07 @ 2:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113542	GENERAL OFFICE	2022-02-07 @ 1:00 pm	2022-02-10 @ 8:00 am	< 0.3	2022-02-14
11113586	GYM	2022-02-07 @ 2:00 pm	2022-02-10 @ 9:00 am	0.7 ± 0.3	2022-02-14
11113581	GYM	2022-02-07 @ 2:00 pm	2022-02-10 @ 9:00 am	0.7 ± 0.3	2022-02-14

**EXPOSURE IN BOWSER-MORNER RADON CHAMBER**

CLIENT KCI Technologies, Inc. Job Number 204186

NOMINAL Conditions: Radon Conc 25.8 pCi/L Rel. Hum 50.1 % Temp. 70.9 F

Date Start: 2/18/22 Date Stop: 2/21/22 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0911 Time Stop: 0911 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (3) Char Bags -  
11113484, 1112998, 20107126 Device No.'s: \_\_\_\_\_

23 Right

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_ Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_ Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: \_\_\_\_\_ Device No.'s: \_\_\_\_\_

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_ Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_ Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: \_\_\_\_\_ Device No.'s: \_\_\_\_\_

**Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)  
Background = 7 µR/h Elevation = 820 ft**

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within  $\pm 25\%$  of the chamber's reference value (25.7 pCi/L).

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Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11113484	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK1		1	27.9
11122998	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK2		1	26.0
20107126	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK3		1	27.6

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## Radon Test Kit Chain of Custody

**Project Name:** MCPS Radon – February 2022 Schools

**Name of Schools:**

1. Lincoln Center
2. Wootton HS
3. Rockville HS
4. Richard Montgomery HS
5. Rocking Horse Rd. Center
6. Blair G. Ewing Center
7. Twinbrook ES
8. Rock Creek Valley ES
9. Luxmanor ES
10. Tilden MS

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	Date	Initials
Radon Test Kits Deployed	02/07/2022	
Radon Test Kits Collected	02/10/2022	
Radon Test Kits Shipped to Lab*	02/10/2022	
Radon Test Kits Received by Lab*	02/14/2022	

\*All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759