

936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

Site Name	Rock Creek Forest Elementary	
	School	
Date of Test Report	05/12/2022	
Round of Testing	Initial	
	Follow-up	
	Post Remediation	
	2 Year Testing	
	5 Year Testing	
	HVAC Upgrade	
	Window Replacement	
	New Addition	
	New Facility	
# Rooms Tested	1	
# Rooms \geq 4.0 pCi/L	0	
Lowest Value	<0.3 pCi/L	
Highest Value	<0.3 pCi/L	

MCPS RADON TESTING – EXECUTIVE SUMMARY

Project Status

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



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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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: Rock Creek Forest Elementary School 8330 Grubb Rd. Chevy Chase, MD 20815

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 Rock Creek Forest Elementary School, located at 8330 Grubb Rd. Chevy Chase, MD 20815 (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.

KCI visited the site on March 21, 2022 and deployed four (4) 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 piC/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 24, 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 piC/L	None	N/A
<4.0 piC/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 McCleaf

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

Attachments:A- Floor Plan with Test LocationsB- Table 1-3, Radon Test Summary SpreadsheetsC- 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				
	Rock Creek Forest ES RT			
Te	Test Period: 03/21/2022 - 03/24/2022			
Kit Number	Room / Area	Result		
11131716	< 0.3			
11131717 163 GYM < 0.3				
11131731 163 GYM < 0.3				
11131732 163 GYM < 0.3				

Table 2- Radon Testing Results					
	Rock Creek	Forest ES RT			
	Test Period: 03/21/2022 - 03/24/2022				
Kit Number QC Type Room / Area Result					
11131716 D 163 gym < 0.3					
11131731 FB 163 gym < 0.3					
11139902 OB OFFICE BLANK < 0.3					
11139928 TB TRAVEL BLANK < 0.3					

Summary of Missed Locations			
Rock Creek Forest ES RT			
Test Period: 03/21/22 - 03/24/22			
Kit Number	Room/Area	Result	
	NA		

Summary of Missing, Compromised and >/= 4 piC/L Tests				
Rock Creek Forest ES RT				
Test Period: 03/21/22 - 03/24/22				
Kit Number	Room/Area	Result		
	NA			

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for: ROCK CREEK FOREST ES

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11131731	163 GYM	2022-03-21 @ 11:00 a	m 2022-03-24 @ 11:00 am	< 0.3	2022-03-28
11131732	163 GYM	2022-03-21 @ 11:00 a	m 2022-03-24 @ 11:00 am	< 0.3	2022-03-28
11131717	163 GYM	2022-03-21 @ 11:00 a	m 2022-03-24 @ 11:00 am	< 0.3	2022-03-28
11131716	163 GYM	2022-03-21 @ 11:00 a	m 2022-03-24 @ 11:00 am	< 0.3	2022-03-28

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, I	Job N	umber 204620
NOMINAL Conditions: Radon Conc 27.0 p	Ci/L Rel. Hum 50, 1	_% Temp. <u>70.0</u> 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		е
E3 Right	· · · · · · · · · · · · · · · · · · ·	
Date Start: Date Stop:	Date Start:	Date Stop:
Time Start: Time Stop:	Time Start:	Time Stop:
Device No.'s:	Device No.'s:	
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Date Start: Date Stop:	Date Start:	Date Stop:
Time Start: Time Stop:	Time Start:	_ Time Stop:
Device No.'s:	Device No.'s:	
	2	

1

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

March 30, 2022

**** LABORATORY ANALYSIS REPORT ****

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).

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

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



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Radon Test Kit Chain of Custody

Project Name: MCPS Radon – March 2022 Schools – Retesting

Name of Schools:

- 1. Rosa Parks MS
- 2. Poolesville ES
- 3. Wyngate ES
- 4. Seven Locks ES
- 5. Walt Whitman HS
- 6. Somerset ES
- 7. Rock Creek Forest ES
- 8. Walter Johnson HS
- 9. Westbrook ES
- **10.Westland MS**
- **11.Farmland ES**
- **12.College Gardens ES**
- 13.Julius West MS
- 14.Robert Frost MS
- **15.Carl Sandburg Learning Center**

	Date	Initials
Radon Test Kits Deployed	03/21/2022	13MM
Radon Test Kits Collected	03/24/2022	BMM
Radon Test Kits Shipped to Lab*	03/25/2022	BMM
Radon Test Kits Received by Lab*	03/28/2022	Bann

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



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Site Name	Rock Creek Forest
	Elementary School
Date of Test Report	2/21/2022
Round of Testing	Initial
	Follow-up
	Post Remediation
	2 Year Testing
	5 Year Testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# Rooms Tested	53
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	0.9 pCi/L

MCPS RADON TESTING – EXECUTIVE SUMMARY

Project Status: Initial testing completed; Missing or Compromised tests to be re-sampled



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February 21, 2022

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

Re:	Radon Testing Services	
	KCI Job # 122108316	
Location:	Rock Creek Forest Elementary School	
	8330 Grubb Rd.	
	Chevy Chase, MD 20815	

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 Rock Creek Forest Elementary School, located at 8330 Grubb Rd. Chevy Chase, MD 20815 (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.

KCI visited the site on January 19, 2022 and deployed sixty two (62) 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 January 22, 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 50s and high temperatures ranged from the mid 40s to the low 60s Fahrenheit. Maximum sustained winds ranged from 7-15 miles per hour. Average humidity was around 50% with .15 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 piC/L	≥4.0 piC/L None N/A	
<4.0 piC/L	See Attachment B	

Quality Control Samples		
Results of Blank Canisters: The office blanks, and lab transit blanks had test re		
	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 achi		
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 McCleaf

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

Attachments:

A- Floor Plan with Test LocationsB- Table 1-3, Radon Test Summary SpreadsheetsC- 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			
Rock Creek Forest ES				
Tes	st Period: 01/25/2022-01/28/2022	2		
-				
Kit Number	Room / Area	Result		
11105603	5	0.7		
11106483	6	< 0.3		
11106492	8	< 0.3		
11106484	11	0.8		
11106472	12	< 0.3		
11106486	15	0.8		
11106499	18	0.6		
11106475	21	0.7		
11106497	21	< 0.3		
11106494	22	< 0.3		
11106485	25	0.6		
11105604	31	< 0.3		
11106493	35	0.6		
11105620	100	< 0.3		
11105632	100	< 0.3		
11105618	101	< 0.3		
11105638	102	< 0.3		
11105619	103	< 0.3		
11105606	105	< 0.3		
11105614	105	< 0.3		
11105607	110	< 0.3		
11105613	113	< 0.3		
11106488	117	< 0.3		
11106490	118	< 0.3		
11106482	119	< 0.3		
11105610	122	< 0.3		
11105602	125	< 0.3		
11106487	125	0.7		
11105605	127	< 0.3		
11106474	128	< 0.3		
11106489	131	< 0.3		
11106480	132	< 0.3		
11106491	132	< 0.3		
11106496	132	< 0.3		
11105616	133	< 0.3		
11105611	137	< 0.3		
11106479	139	< 0.3		
11106495	143	< 0.3		
11105612	145	< 0.3		
11105609	153	< 0.3		
11105615	156	< 0.3		
11105625	156	< 0.3		

Table 1- Radon Testing Results				
Rock Creek Forest ES				
Tes	Test Period: 01/25/2022-01/28/2022			
Kit Number	Room / Area	Result		
11105626	157	< 0.3		
11105633	158	0.7		
11105634	158	0.7		
11105624	161	< 0.3		
11105636	169	0.8		
11106478	201	< 0.3		
11106498	201	< 0.3		
11106500 201 <		< 0.3		
11106476 223 <		< 0.3		
11106477 230 <		< 0.3		
11105608	100B	0.8		
11105617	100B	0.6		
11105631	100B	< 0.3		
11105621	100F	0.9		
11105637	102C	< 0.3		
11106481	105A	< 0.3		
11105623	163 GYM	NA		
11105635	163 GYM	< 0.3		
11105622 163D < 0.		< 0.3		
11105601	168A	< 0.3		

Table 2- Radon Testing Results					
	Rock Creek Forest ES				
	Test Period: 12/13/2	021-12/16/2021			
Kit Number	QC Type	Room / Area	Result		
11105625	D	156	< 0.3		
11105617 D 100B 0.6					
11105631 FB 100B < 0.3					
11105602 D 125 < 0.3					
11106496 D 132 < 0.3					
11106491 FB 132 < 0.3					
11106497 D 21 < 0.3					
11106498 D 201 < 0.3					
11106500 FB 201 < 0.3					
11106126	11106126 OB OFFICE BLANK < 0.3				
11105790 TB TRAVEL Blank < 0.3					

Summary of Missed Locations			
Rock Creek Forest ES			
Test Period: 01/25/22 - 01/28/22			
Kit Number	Room/Area	Result	
	NA		

Summary of Missing, Compromised and >/= 4 piC/L Tests				
Rock Creek Forest ES				
	Test Period: 01/25/22 - 01/28/22			
Kit Number	Room/Area	Result		
11105326	163 GYM	Compromised		

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

February 1, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11106483	006	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106484	011	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	0.8 ± 0.3	2022-01-31
11106472	012	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106486	015	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	0.8 ± 0.3	2022-01-31
11106499	018	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	0.6 ± 0.3	2022-01-31
11106475	021	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	0.7 ± 0.3	2022-01-31
11106497	021	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106494	022	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11105604	031	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106493	035	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	0.6 ± 0.3	2022-01-31
11105603	05	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	0.7 ± 0.3	2022-01-31
11106492	08	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11105620	100	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105632	100	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105617	100B	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	0.6 ± 0.3	2022-01-31
11105631	100B	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105608	100B	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	0.8 ± 0.3	2022-01-31
11105621	100F	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	0.9 ± 0.3	2022-01-31
11105618	101	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105638	102	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105637	102C	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105619	103	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105606	105	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105614	105	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106481	105A	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105607	110	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105613	113	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106488	117	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106490	118	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106482	119	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105610	122	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105602	125	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106487	125	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	0.7 ± 0.3	2022-01-31
11105605	127	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106474	128	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106489	131	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106496	132	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31

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

February 1, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11106480	132	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106491	132	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105616	133	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105611	137	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106479	139	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11106495	143	2022-01-25 @ 10:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105612	145	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11105609	153	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105625	156	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105615	156	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105626	157	2022-01-25 @ 8:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105633	158	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	0.7 ± 0.3	2022-01-31
11105634	158	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	0.7 ± 0.3	2022-01-31
11105624	161	2022-01-25 @ 8:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105623	163 GYM	2022-01-25 @ 8:00 am	2022-01-28 @ 9:00 am	???? IF1	2022-01-31
11105635	163 GYM	2022-01-25 @ 8:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105622	163D	2022-01-25 @ 8:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105601	168A	2022-01-25 @ 9:00 am	2022-01-28 @ 9:00 am	< 0.3	2022-01-31
11105636	169	2022-01-25 @ 8:00 am	2022-01-28 @ 8:00 am	0.8 ± 0.3	2022-01-31
11106478	201	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106498	201	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106500	201	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106476	223	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106477	230	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	< 0.3	2022-01-31
11106485	25	2022-01-25 @ 11:00 am	2022-01-28 @ 10:00 am	0.6 ± 0.3	2022-01-31

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 Technologie	5, Jnc. Job Number 203404
NOMINAL Conditions: Radon Conc. 16.2	_pCi/L Rel. Hum <u>28.8</u> % Temp. <u>59.9</u> F
Date Start: 12/24/21 Date Stop: 12/27/2	Date Start: Date Stop:
Time Start: 0809 Time Stop: 0809	_ Time Start: Time Stop:
Device No.'s: (2) Char Bags-	Device No.'s:
9341721,9341722	
р.	
syldt	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
	·
5° 2	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
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Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST) Background = 7 μR/h Elevation = 820 ft

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

SK MA MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within ± 25% of the chamber's reference value (16.2 pCi/L).

Kit # Ro	om Id	Started	Ended	pCi/L	Analyzed
9341721	1	2021-12-24 @ 8:00 am	2021-12-27 @ 8:00 am	11.6 ± 0.9	2021-12-31
9341722	1	2021-12-24 @ 8:00 am	2021-12-27 @ 8:00 am	15.4 ± 1.2	2021-12-31

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ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS Corporate Office: 936 Ridgebrook road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – January 2022 Schools

Name of Schools:

- 1. Carver Educational Center
- 2. College Gardens ES
- 3. Farmland ES
- 4. Julius West MS
- 5. Maryvale ES
- 6. Robert Frost MS
- 7. Rock Creek Forest ES
- 8. Sandburg Learning Center
- 9. Westbrook ES

	Date	Initials
Radon Test Kits Deployed	01/19/2022	TM
Radon Test Kits Collected	01/22/2022	MM
Radon Test Kits Shipped to Lab*	01/22/2022	M
Radon Test Kits Received by Lab*	01/24/2022	an

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