



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Shady Grove Maintenance and Transportation Depot
Date of Test Report	02/23/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	3
# 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 Complete; no further action needed.



February 23, 2022

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

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

Location: Shady Grove Maintenance and Transportation Depot
16651 Crabbs Branch Way
Rockville, MD 20855

Dear Mr. Cox:

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 Shady Grove Maintenance and Transportation Depot located at 16651 Crabbs Branch Way Rockville, MD 20855 (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 18, 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 December 2021 testing period (i.e. test kit was deployed but not recovered),
2. Rooms with invalidated test kits from the December 2021 testing period (e.g. an open window in the room or disturbed test kit),
3. Rooms which were locked/inaccessible during the December 2021 testing period,
4. Rooms with elevated December 2021 results (i.e. ≥ 3.5 pCi/L),
5. Rooms previously tested for radon but not tested in December 2021, 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 January 21, 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 20°Fs and high temperatures ranged from the mid 20°Fs to the high 50°Fs. Maximum sustained winds ranged from 9-11 miles per hour. Average humidity was around 61% with 0.0 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	NA	NA
<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 Spreadsheets

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		
Shady Grove M&T RT		
Test Period: 01/18/2022-01/21/2022		
Kit Number	Room / Area	Result
11106504	405	< 0.3
11106512	405	< 0.3
11106904	101E	< 0.3
11106511	PARTS OFFICE	< 0.3
11106911	PARTS OFFICE	< 0.3

Table 2- Radon Testing Results			
Shady Grove ES RT			
Test Period: 01/18/22-01/21/22			
Kit Number	QC Type	Room / Area	Result
11106511	D	Parts Office	< 0.3
11106512	FB	405	< 0.3

Summary of Missed Locations		
Shady Grove RT		
Test Period: 01/18/22 - 01/21/22		
Kit Number	Room/Area	Result
	NA	

Summary of Missing, Compromised and ≥ 4 piC/L Tests		
Shady Grove RT		
Test Period: 01/18/22 - 01/21/22		
Kit Number	Room/Area	Result
	NA	

Table Note:
 * Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

January 27, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
**SHADY GROVE M&T RT
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11106904	101E	2022-01-18 @ 9:00 am	2022-01-21 @ 9:00 am	< 0.3	2022-01-26
11106504	405	2022-01-18 @ 9:00 am	2022-01-21 @ 9:00 am	< 0.3	2022-01-26
11106512	405	2022-01-18 @ 9:00 am	2022-01-21 @ 9:00 am	< 0.3	2022-01-26
11106511	PARTS OFFICE	2022-01-18 @ 9:00 am	2022-01-21 @ 9:00 am	< 0.3	2022-01-26
11106911	PARTS OFFICE	2022-01-18 @ 9:00 am	2022-01-21 @ 9:00 am	< 0.3	2022-01-26

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 203404

NOMINAL Conditions: Radon Conc 16.2 pCi/L Rel. Hum 28.8 % Temp. 59.9 F

Date Start: 12/24/21 Date Stop: 12/27/21 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

64 left

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 μ R/h Elevation = 820 ft**

December 31, 2021

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

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

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

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – December 2021 Schools Retesting

Name of Schools:

1. 45 Gude
2. Bethesda M&T
3. Darnestown ES
4. McDonald Knolls ECC
5. Shady Grove M&T

	Date	Initials
Radon Test Kits Deployed	01/18/2022	DM
Radon Test Kits Collected	01/21/2022	DM
Radon Test Kits Shipped to Lab*	01/21/2022	DM
Radon Test Kits Received by Lab*	01/23/2022	DM

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



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Shady Grove Maintenance and Transportation Depot
Date of Test Report	01/20/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing <u>5 Year Testing</u> 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

Project Status

Current Project Status at this time: Testing Complete; missing locations to be sampled.



January 20, 2022

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
Gaithersburg, MD 20879

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

Location: Shady Grove Maintenance and Transportation Depot
16651 Crabbs Branch Way
Rockville, MD 20855

Dear Mr. Cox:

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 Shady Grove Maintenance and Transportation Depot located at 16651 Crabbs Branch Way Rockville, MD 20855 (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 December 14, 2021 and deployed sixty-one (61) 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 December 17, 2021 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.

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- 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 30°Fs and high temperatures ranged from the mid 50°Fs to the high 60°Fs. Maximum sustained winds ranged from 3-12 miles per hour. Average humidity was around 50% with 0.0 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.

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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.

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Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheets

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KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results		
Shady Grove Maintenance and Transportation		
Test Period: 12/14/2021-12/17/2021		
Kit Number	Room / Area	Result
9339903	101CA	< 0.3
9339906	202	< 0.3
9339907	305-3	< 0.3
9339908	310	< 0.3
9339911	300-3	< 0.3
9339915	305	< 0.3
9339924	400 CR	0.8
9339928	402	0.6
9339932	104	< 0.3
9339933	300 -2	< 0.3
9339934	405 OFFICE	< 0.3
9341739	300	< 0.3
9341744	304-CR	< 0.3
9341746	300-5	< 0.3
9341753	300	< 0.3
9341770	129	< 0.3
9341777	305-3	0.8
9341781	3005	0.6
9341794	305-2	0.6
9346968	112	< 0.3
9346969	3005	0.6
9346976	101CAC	< 0.3
9346979	101CAC	< 0.3
9346982	139	< 0.3
9346986	101B	< 0.3
9346993	MAIN OFFICE	< 0.3
9348321	NANCY	< 0.3
9348324	405	????
9348325	306	< 0.3
9348326	400	< 0.3
9348327	101A	< 0.3
9348328	305-1	0.7
9348332	311O	< 0.3
9348333	400 CR	0.6
9348337	128	< 0.3
9348338	104	< 0.3
9348340	101CAB	< 0.3
9348341	304 OFFICE	< 0.3
9348343	101CAA	< 0.3
9348344	311	< 0.3
9348349	400	0.7
9348351	309	< 0.3

9348352	130	< 0.3
9348359	304	< 0.3
9348360	134	< 0.3
9348362	305-4	< 0.3
9348364	MAINTENANCE OFFICE	< 0.3
9348368	101C	< 0.3
9348370	PARTS DEPT	< 0.3
9348371	SUPERVISOR	< 0.3
9348372	113	< 0.3
9348373	101D	< 0.3
9348375	130	< 0.3
9348376	131	< 0.3
9348379	137	< 0.3
9348385	DISPATCH	< 0.3
9348387	300-4	< 0.3
9348395	138	< 0.3
9348397	BREAKROOM	< 0.3
9348399	307	0.9
9348400	101CAB	< 0.3

Table 2- Radon Testing Results			
Shady Grove Maintenance and Transportaion			
Test Period: 12/14/2021-12/17/2021			
Kit Number	QC Type	Room / Area	Result
9339932	D	104	< 0.3
9348375	FB	130	< 0.3
9348333	D	400 CR	0.6
9341739	D	300	< 0.3
9339907	FB	305-3	< 0.3
9341781	D	3005	0.6
9348400	FB	101CAB	< 0.3
9346976	D	101CAC	< 0.3
9347000	OB	OFFICE BLANK	< 0.3
9346980	TB	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Shady Grove Maintenance and Transportation Depot		
Test Period: 12/14/2021 - 12/17/2021		
Kit Number	Room/Area	Result
NA	Locked Parts Office	NA
NA	Locked Supervisor Office	NA

Summary of Missing, Compromised and >= 4 piC/L Tests		
Shady Grove Maintenance and Transportation Depot		
Test Period: 12/14/2021 - 12/17/2021		
Kit Number	Room/Area	Result
9348324	405	NA

Table Note:
* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
**SHADY GROVE M&T
TRANSPORTATION**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9348327	101A	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9346986	101B	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348368	101C	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9339903	101CA	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348343	101CAA	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348400	101CAB	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348340	101CAB	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9346976	101CAC	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9346979	101CAC	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348373	101D	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348338	104	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9339932	104	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9346968	112	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348372	113	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348337	128	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9341770	129	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348375	130	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348352	130	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348376	131	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348360	134	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348379	137	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348395	138	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9346982	139	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9339906	202	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9341739	300	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9341753	300	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9339933	300 -2	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9339911	300-3	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348387	300-4	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9341746	300-5	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9346969	3005	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.6 ± 0.3	2021-12-20
9341781	3005	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.6 ± 0.3	2021-12-20
9348359	304	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348341	304 OFFICE	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9341744	304-CR	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9339915	305	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348328	305-1	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.7 ± 0.3	2021-12-20

Radon test result report for:
**SHADY GROVE M&T
 TRANSPORTATION**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9341794	305-2	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.6 ± 0.3	2021-12-20
9339907	305-3	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9341777	305-3	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.8 ± 0.3	2021-12-20
9348362	305-4	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348325	306	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348399	307	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.9 ± 0.3	2021-12-20
9348351	309	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9339908	310	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348344	311	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348332	311O	2021-12-14 @ 11:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348326	400	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348349	400	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.7 ± 0.3	2021-12-20
9348333	400 CR	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.6 ± 0.3	2021-12-20
9339924	400 CR	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.8 ± 0.3	2021-12-20
9339928	402	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	0.6 ± 0.3	2021-12-20
9348324	405	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	???? UI	2021-12-20
9339934	405 OFFICE	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348397	BREAKROOM	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348385	DISPATCH	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9346993	MAIN OFFICE	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348364	MAINTENANCE OFFICE	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348321	NANCY	2021-12-14 @ 10:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348370	PARTS DEPT	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20
9348371	SUPERVISOR	2021-12-14 @ 9:00 am	2021-12-17 @ 9:00 am	< 0.3	2021-12-20

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 203404

NOMINAL Conditions: Radon Conc 16.2 pCi/L Rel. Hum 28.8 % Temp. 59.9 F

Date Start: 12/24/21 Date Stop: 12/27/21 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

64 left

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 μ R/h Elevation = 820 ft**

December 31, 2021

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

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

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

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon - December 2021 Schools

Name of Schools:

1. Ewing at Cloverleaf Center
2. Bethesda Main. & Tran.
3. Clarksburg ES Annex
4. Clarksburg Main. & Tran.
5. Taylor Learning Center
6. Darnestown ES
7. Shady Grove Main. & Tran.

	Date	Initials
Radon Test Kits Deployed	12/14/2021	JM
Radon Test Kits Collected	12/17/2021	JM
Radon Test Kits Shipped to Lab*	12/17/2021	JM
Radon Test Kits Received by Lab*	12/18/2021	JM

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