



**MCPS RADON TESTING – EXECUTIVE SUMMARY**

Site Name	East Silver Spring Elementary School
Date of Test Report	4/29/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	42
# Rooms $\geq$ 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	2.3 pCi/L

Project Status:

Initial testing completed; Missing or compromised samples need re-sampling



April 29, 2022

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

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

Location: East Silver Spring Elementary School  
631 Silver Spring Ave.  
Silver Spring, MD 20910

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 East Silver Spring Elementary School, located at 631 Silver Spring Ave. Silver Spring, MD 20910 (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 8, 2022 and deployed fifty-two (52) 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 March 11, 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 post-mitigation biennial testing.

These tests were conducted to:

- Confirm the success of the mitigation system(s).

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 mid 20s and high temperatures ranged from the high 70s to the low 50s Fahrenheit. Maximum sustained winds ranged from 0-32 miles per hour. Average humidity was around 65% with 1.09 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:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
≥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		
East Silver Spring ES		
Test Period: 03/08/2022 - 03/11/2022		
Kit Number	Room / Area	Result
11134010	12	0.9
11134006	13	1.1
11131580	14	0.6
11131587	16	0.9
11131581	17	0.7
11131586	18	0.7
11131600	19	2.3
11131599	20	1.4
11134001	20	< 0.3
11134002	20	1.1
11134009	21	1.7
11134008	22	2.3
11131588	31	< 0.3
11131590	31	< 0.3
11131595	32	< 0.3
11131597	33	< 0.3
11131589	34	< 0.3
11131598	35	0.8
11131593	36	0.7
11131596	37	0.6
11131594	38	< 0.3
11134015	40	0.5
11134014	41	< 0.3
11134016	41	< 0.3
11131560	100	NA
11131567	100	1.0
11131570	103	NA
11131571	103	< 0.3
11131578	104	1.4
11131584	107	< 0.3
11131585	107	< 0.3
11131591	107	< 0.3
11131572	108	< 0.3
11131592	109	0.8
11131573	110	0.6
11131553	100 MAIL	0.9
11131565	100A	1.1
11131554	100B	1.1
11131569	100B	NA
11131564	100C	1.3
11131555	100D	1.3
11131556	100D	1.6



Table 1- Radon Testing Results		
East Silver Spring ES		
Test Period: 03/08/2022 - 03/11/2022		
Kit Number	Room / Area	Result
11131562	100D	< 0.3
11131577	104A	0.9
11131523	CAFETERIA	0.6
11131563	CAFETERIA	1.0
11131575	GYM	NA
11131582	HOY	< 0.3
11134005	M-1	1.2
11131579	QUINN	0.8
11134007	R 1	2.3
11131583	RIZK	< 0.3

Table 2- Radon Testing Results			
East Silver Spring ES			
Test Period: 03/08/2022 - 03/11/2022			
Kit Number	QC Type	Room / Area	Result
11131556	D	100D	1.6
11131562	FB	100D	< 0.3
11131563	D	Cafeteria	1.0
11131571	D	103	< 0.3
11131585	D	107	< 0.3
11131591	FB	107	< 0.3
11131588	D	31	< 0.3
11134002	D	20	1.1
11134001	FB	20	< 0.3
11134016	D	41	< 0.3
11131663	OB	OFFICE BLANK	< 0.3
11131669	TB	TRAVEL BLANK	< 0.3



# ATTACHMENT C

## Laboratory Analytical Results

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Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11131501	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG B MANAGER		1	0.7
11131502	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	101		1	0.7
11131503	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG B CONFERENCE		1	1.2
11131504	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	114		1	< 0.3
11131505	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	101		1	0.8
11131506	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	101		1	< 0.3
11131507	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	102		1	1.3
11131508	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	104		1	< 0.3
11131509	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	167		1	1.5
11131510	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG A STAFF		1	< 0.3
11131511	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG A SERVICE WRITER		1	< 0.3
11131512	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	169		1	0.9
11131513	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	168		1	2.9
11131514	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	106		1	0.9
11131515	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	109		1	< 0.3
11131516	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	111A		1	0.7
11131517	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	110		1	0.5
11131518	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	167		1	< 0.3
11131519	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	167		1	1.7
11131520	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	111		1	0.6
11131521	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	162		1	0.7
11131522	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	159		1	0.8
11131523	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	CAFETERIA		1	0.6
11131524	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	163		1	0.7
11131525	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	164		1	1.3
11131526	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	112		1	0.5
11131527	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	115		1	< 0.3
11131528	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	162		1	< 0.3
11131529	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	123		1	0.9
11131530	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	121		1	0.5
11131531	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	122		1	0.6
11131532	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	122		1	< 0.3
11131533	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	124		1	0.7
11131534	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	162		1	0.6
11131535	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	116		1	1.1

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Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11131536	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	118		1	0.8
11131537	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	125		1	0.6
11131538	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	MEDIA CENTER		1	< 0.3
11131539	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	126		1	0.7
11131540	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	152A		1	0.7
11131541	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	151		1	0.7
11131542	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	119		1	0.6
11131543	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	120		1	0.6
11131544	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	158		1	1.0
11131545	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	140		1	1.0
11131546	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	133		1	1.1
11131547	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	MEDIA CENTER		1	< 0.3
11131548	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	149A		1	< 0.3
11131549	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	131		1	0.8
11131550	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	131		1	
11131551	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	MEDIA CENTER		1	< 0.3
11131552	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	143		1	2.1
11131553	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100 MAIL		1	0.9
11131554	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100B		1	1.1
11131555	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100D		1	1.3
11131556	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100D		1	1.6
11131557	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	144		1	1.2
11131558	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	136		1	1.2
11131559	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	139		1	2.3
11131560	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100		1	
11131562	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100D		1	< 0.3
11131563	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	CAFETERIA		1	1.0
11131564	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100C		1	1.3
11131565	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100A		1	1.1
11131566	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	137		1	< 0.3
11131567	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100		1	1.0
11131568	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	138		1	1.6
11131569	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	100B		1	
11131570	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	103		1	
11131571	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	103		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
11131572	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	108		1	< 0.3
11131573	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	110		1	0.6
11131574	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	FAIRLAND CENTER	MAIN	137		1	0.9
11131575	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	GYM		1	
11131577	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	104A		1	0.9
11131578	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	104		1	1.4
11131579	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	QUINN		1	0.8
11131580	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	14		1	0.6
11131581	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	17		1	0.7
11131582	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	HOY		1	< 0.3
11131583	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	RIZK		1	< 0.3
11131584	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	107		1	< 0.3
11131585	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	107		1	< 0.3
11131586	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	18		1	0.7
11131587	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	16		1	0.9
11131588	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	31		1	< 0.3
11131589	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	34		1	< 0.3
11131590	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	31		1	< 0.3
11131591	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	107		1	< 0.3
11131592	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	109		1	0.8
11131593	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	36		1	0.7
11131594	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	38		1	< 0.3
11131595	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	32		1	< 0.3
11131596	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	37		1	0.6
11131597	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	33		1	< 0.3
11131598	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	35		1	0.8
11131599	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	20		1	1.4
11131600	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	19		1	2.3
11131660	2022-03-07	12:00 pm	2022-03-10	1:00 pm	70	OFFICE 1	MAIN	O		1	< 0.3
11131661	2022-03-07	12:00 pm	2022-03-10	1:00 pm	70	TRAVEL 1	MAIN	T		1	< 0.3
11131662	2022-03-07	10:00 am	2022-03-10	10:00 am	70	OFFICE	MAIN	O		1	< 0.3
11131663	2022-03-08	10:00 am	2022-03-11	11:00 am	70	OFFICE	MAIN	O		1	< 0.3
11131669	2022-03-08	10:00 am	2022-03-11	11:00 am	70	TRAVEL	MAIN	T		1	< 0.3
11131691	2022-03-07	10:00 am	2022-03-10	10:00 am	70	TRAVEL	MAIN	T		1	< 0.3
11133501	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	F104		1	0.5

**P4792 / WILLIAM LYMAN**

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11133502	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG B STAFF		1	0.7
11133503	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG C MONICA		1	< 0.3
11133504	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	MONIQUE		1	< 0.3
11133505	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG B RM 3		1	< 0.3
11133506	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	F101		1	0.6
11133507	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A104		1	< 0.3
11133509	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG B RM 1		1	< 0.3
11133510	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG B RM 2		1	0.6
11133512	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	SUPERVISOR		1	< 0.3
11133513	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	2ND FLOOD OFFICE		1	
11133514	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A110		1	< 0.3
11133515	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A109		1	< 0.3
11133516	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A111		1	0.6
11133517	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG C STAFF		1	< 0.3
11133518	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG C BROTHERTON		1	< 0.3
11133519	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG C ROUTE SUPERVISOR 1		1	< 0.3
11133520	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	SUPERVISOR BLDG C		1	< 0.3
11133521	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A104		1	0.6
11133522	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A113		1	1.3
11133523	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A112		1	0.6
11133524	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A115		1	0.8
11133525	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A103		1	< 0.3
11133526	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	CAFETERIA		1	
11133527	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	H208		1	< 0.3
11133529	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A106		1	< 0.3
11133530	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	G102		1	< 0.3
11133531	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	E102 OFFICE		1	0.6
11133532	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	E102		1	< 0.3
11133533	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	E102		1	< 0.3
11133534	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG C STAFF		1	< 0.3
11133535	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A107		1	< 0.3
11133536	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	BLDG C TRAINING		1	< 0.3
11133537	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A113		1	0.8
11133538	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	E102		1	< 0.3
11133539	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MEDIA CENTER		1	< 0.3



**P4792 / WILLIAM LYMAN**

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11133540	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MEDIA CENTER OFFICE		1	0.5
11133541	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	C104		1	0.8
11133542	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	E101		1	< 0.3
11133543	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	G101		1	< 0.3
11133544	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	E103		1	< 0.3
11133545	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE HEALTH		1	0.7
11133546	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	X101		1	0.6
11133547	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	B101		1	< 0.3
11133548	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	102		1	< 0.3
11133549	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	GYM OFFICE		1	< 0.3
11133550	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	GYM OFFICE		1	< 0.3
11133551	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	GYM		1	
11133552	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	C102		1	< 0.3
11133553	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	C103		1	0.6
11133554	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	GYM		1	
11133555	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE KURSHANNA		1	0.6
11133556	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE		1	< 0.3
11133557	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE		1	< 0.3
11133558	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE WORKROOM		1	0.6
11133559	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE		1	0.5
11133560	2022-03-07	9:00 am	2022-03-10	10:00 am	72	WEST FARM TRANSPORTATION DEPOT	MAIN	SUPERVISOR		1	< 0.3
11133561	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE CONFERENCE		1	< 0.3
11133567	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	MAIN OFFICE PRINCIPAL		1	0.6
11133568	2022-03-07	10:00 am	2022-03-10	1:00 pm	71	PAGE, WILLIAM TYLER ES	MAIN	A116		1	0.6
11134001	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	20		1	< 0.3
11134002	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	20		1	1.1
11134005	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	M-1		1	1.2
11134006	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	13		1	1.1
11134007	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	R 1		1	2.3
11134008	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	22		1	2.3
11134009	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	21		1	1.7
11134010	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	12		1	0.9
11134014	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	41		1	< 0.3
11134015	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	40		1	0.5
11134016	2022-03-08	10:00 am	2022-03-11	1:00 pm	71	EAST SILVER SPRING ES	MAIN	41		1	< 0.3

# 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 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  $\mu$ 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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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 – March 2022 Schools

Name of Schools:

1. Fairland Center
2. Cloverly ES
3. Drew, Dr. Charles ES
4. Weller Road ES
5. Wheaton HS
6. East Silver Spring ES
7. Rosemary Hills ES

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	Date	Initials
Radon Test Kits Deployed	03/08/2022	BMM
Radon Test Kits Collected	03/11/2022	BMM
Radon Test Kits Shipped to Lab*	03/11/2022	BMM
Radon Test Kits Received by Lab*	03/13/2022	BMM

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



**MCPS RADON TESTING – EXECUTIVE SUMMARY**

Site Name	East Silver Spring Elementary School
Date of Test Report	05/27/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	4
# Rooms $\geq$ 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.0 pCi/L

**Project Status**

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



May 27, 2022

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

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

Location: East Silver Spring Elementary School  
631 Silver Spring Ave.  
Silver Spring, MD 20910

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 East Silver Spring Elementary School, located at 631 Silver Spring Ave. Silver Spring, MD 20910 (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 29, 2022 and deployed seven (7) 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 April 01, 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 mid 20°Fs and high temperatures ranged from the low 50°Fs to the mid 70°Fs. Maximum sustained winds ranged from 0-33 miles per hour. Average humidity was around 47% with 0.23 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		
East Silver Spring ES RT		
Test Period: 03/29/2022 - 04/01/2022		
Kit Number	Room / Area	Result
11139870	100	0.8
11139867	103	< 0.3
11139868	103	< 0.3
11139864	100B	1.0
11139869	100B	0.9
11139861	GYM	0.9
11139862	GYM	0.8

Table 2- Radon Testing Results			
East Silver Spring ES RT			
Test Period: 03/29/2022 - 04/01/2022			
Kit Number	QC Type	Room / Area	Result
11139869	D	100b	0.9
11139868	FB	103	< 0.3
11139883	OB	OFFICE BLANK	< 0.3
11139841	TB	TRAVEL BLANK	< 0.3



# ATTACHMENT C

## Laboratory Analytical Results

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April 4, 2022

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

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Radon test result report for:  
**EAST SILVER SPRING ES  
MAIN**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11139870	100	2022-03-29 @ 11:00 am	2022-04-01 @ 10:00 am	0.8 ± 0.3	2022-04-04
11139864	100B	2022-03-29 @ 11:00 am	2022-04-01 @ 10:00 am	1.0 ± 0.3	2022-04-04
11139869	100B	2022-03-29 @ 11:00 am	2022-04-01 @ 10:00 am	0.9 ± 0.3	2022-04-04
11139867	103	2022-03-29 @ 11:00 am	2022-04-01 @ 10:00 am	< 0.3	2022-04-04
11139868	103	2022-03-29 @ 11:00 am	2022-04-01 @ 10:00 am	< 0.3	2022-04-04
11139861	GYM	2022-03-29 @ 11:00 am	2022-04-01 @ 10:00 am	0.9 ± 0.3	2022-04-04
11139862	GYM	2022-03-29 @ 11:00 am	2022-04-01 @ 10:00 am	0.8 ± 0.3	2022-04-04

---

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

---

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).

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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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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 – March 2022 Schools – Retesting

Name of Schools:

1. Watkins Mill HS
2. Cresthaven ES
3. East Silver Spring ES
4. Fairland Center
5. Francis Scott Key MS
6. Greencastle ES
7. Roscoe Nix ES
8. West Farm Transportation Depot
9. Wheaton HS
10. White Oak MS
11. William Tyler Page ES
12. Bel Pre ES
13. Fairland ES
14. Highland ES
15. Rolling Terrace ES
16. Takoma Park MS
17. Viers Mill ES
18. Poolesville ES

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	Date	Initials
Radon Test Kits Deployed	03/29/2022	BMM
Radon Test Kits Collected	04/01/2022	BMM
Radon Test Kits Shipped to Lab*	04/01/2022	BMM
Radon Test Kits Received by Lab*	04/04/2022	BMM

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