

School Year: **24-25**

Facility:	Silver Spring International Middle School		
Address:	313 Wayne Avenue		
	Silver Spring, MD 20910		
Reason for Testing:	Scheduled Re-Testing - <input checked="" type="checkbox"/> 2-year or <input type="checkbox"/> 5-year schedule <input type="checkbox"/> Clearance Testing (Post-Mitigation) <input type="checkbox"/> Building Envelope or HVAC Upgrades <input type="checkbox"/> New Construction – Addition or Facility		
Current Radon Status:	<input checked="" type="checkbox"/> Active Mitigation (2-year regular schedule) <input type="checkbox"/> No Active Mitigation (5-year regular schedule) <input type="checkbox"/> Not Previously Tested (New Facility)		
Round of Testing:	<input type="checkbox"/> Initial Testing -or- <input checked="" type="checkbox"/> Follow-up Testing		
Testing Status:	<input checked="" type="checkbox"/> No Further Testing Needed -or- <input type="checkbox"/> Follow-Up Testing Required		

Conclusion (When Testing Status is - No Further Testing Needed)

Mitigation -	Facility Radon Status:		
<input type="checkbox"/> Not Required <input checked="" type="checkbox"/> Required (≥ 4.0 -pCi/L) Rooms: Gym	<input checked="" type="checkbox"/> No Change in Status <input type="checkbox"/> Active Mitigation (2-year regular schedule) <input type="checkbox"/> No Active Mitigation (5-year regular schedule)		
Number of Rooms Tested	66	Lowest Value (pCi/L)	< 0.3
Number of Rooms (≥ 4.0 -pCi/L)	1	Highest Value (pCi/L)	7.0

Instructions: Submit one testing report form per-facility. Include the following as attachments:

Attachment 1- Summary Data Tables – containing the following: (see attached samples tables)

- Testing Results – lab/detector Identification, by room number/name (alpha-numeric order) as depicted on facility map/floor plan provided by the facility/school at the time of test device deployment;
- Summary Results – list of rooms by test result ≥ 2.0 -pCi/L; ≥ 2.7 -pCi/L; ≥ 4.0 -pCi/L; and ≥ 8.0 -pCi/L;
- QA/QC Results - (field blanks and duplicates) indicating location collected; trip and office blanks; and spike sample results;
- Invalid Measurement Locations – missed locations, missing and or damaged/compromised testing devices.

Attachment 2 – Laboratory Report(s)

Attachment 3 – Sampling Location Map(s) – indicating approximate location of samples, duplicates and blanks.

Detector and Deployment

Detector/Device Type:	<input checked="" type="checkbox"/> Passive <input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Charcoal Absorption (CAD) <input type="checkbox"/> Alpha Track (ATD) <input type="checkbox"/> Other <input type="checkbox"/> Electret ion Chamber (EIC) <input type="checkbox"/> Electronic Integration (EID)	<i>Other—Specify here:</i>	
Detector/Device Name:	Air Chek – Radon Test Kits			
Manufacturer:	Radon Lab			
Person(s) Deploying or Retrieving Test Devices and certification number			Organization/Company	
Shakia Dawkins			KCI Technologies, Inc.	
Shannon King			KCI Technologies, Inc.	
<i>If noncertified individuals, the qualified measurement professional providing oversight -</i>				
Tyler McCleaf, CSP – Cert. #111004-RMP			KCI Technologies, Inc.	

Testing

<input checked="" type="checkbox"/> Short-Term <input type="checkbox"/> Long-Term	Length of Test (days):	3	Date of Deployment and Retrieval (mm/dd/yy):	12/17/24	03/18/25
				12/20/24	03/21/25
Does the test period include weekends, school breaks or holidays?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<i>If “Yes” please explain/detail in the space below:</i>					
Was HVAC operating under occupied conditions?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If “No” please explain/detail in the space below:</i>					

Testing (continued)

Round of Testing	Detectors Deployed				Total
	Ground-Contact		Upper-Level(s)		
	Initial	Follow-Up	Initial	Follow-Up	
Test Locations ¹	60	4	4	0	68
Duplicates ²	7	2	0	0	9
Field Blanks ³	3	1	0	0	4
Grand Total					81

1 – include all detectors deployed (duplicates, field blanks); 1 detector per occupied (or intended to be occupied) ground-contact space ≤ 2,000-square feet; large spaces ≥ 2,000-square feet - 1 detector per 2,000-square feet or part thereof); and upper floors - 10% of all occupied or intended to be occupied rooms per floor (these are in addition to ground contact locations)

2 - 10% of all locations tested, per floor

3 – 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

A Quality Assurance plan that is consistent with ANSI/AARST MS-QA (Radon Measurement Systems Quality Assurance) was submitted under separate cover, and is available to review at the MCPS Radon Testing and Mitigation Program website. The following number of QA/QC samples are associated this facility.

Round of Testing	QA/QC Samples		Total
	Initial	Follow-Up	
Spikes ¹	Not applicable		10
Trip Blanks ²	1	1	2
Office Blanks ^{3, 4}	1	1	2
			14

1 - 3% of EIC detectors; and 3% from each LOT of CAD and ATD detectors; a maximum of 6-spiked measurements per month for both EIC detectors and each LOT of CAD and ATD detectors.

2 – One per shipping container from start of detector deployment

3 – One per facility tested as devices are removed/allocated from the storage location for deployment;

4 - One additional blank, analyzed prior to deployment, for storage locations that have not been evaluated or monitored, for detectors that have been stored for more than 30-day durations.

Quality Assurance / Quality Control (continued)

Spike Sample Lab Results. Measured values are satisfactory, i.e., within $\pm 25\%$ of the chamber's reference value?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Quality Control measurements comply with QA/QC requirements in the submitted testing organization's/company's QA plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Round of Testing
	Initial
	Follow-Up
All Field, Trip and Office Blanks are \leq (less than or equal to) to the Method Detection Limit?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
For all Duplicate Samples ¹ , the higher value is $\leq 2x$ the lower value?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are less than the Warning Level ³ ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are less than the Control Level ³ ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

1 – Duplicate Control – a “NO” response constitute a control failure and the space/location represented by the duplicate sample becomes an invalid measurement location and should be listed in the “Invalid Measurement Locations” Table attached to this report.

2 - The objective of duplicate tests is to assess the precision error of the measurement method or, how well two side-by-side measurements agree or disagree. Precision involving duplicates is calculated by using Relative Percent Difference (RPD). RPD is equal to the difference between the higher test result minus the lower value test result divided by the average of the two duplicate test results, multiplied by 100. The RPD result is then compared to the warning and control limits.

3 - The Warning Level is set at the deviation from ideal performance that would be expected to occur by chance only 5% of the time, and Control Limits are set at that deviation from ideal performance that would be expected to occur by chance only 1% of the time. The Warning Level indicates a potential problem, which should be investigated. The Control Level indicates that the measurement system should be subject to corrective action.

The control and warning levels for duplicates, based on the averaged duplicate test result, are -

Average concentration of the two duplicate test results	Warning Level	Control Level
< 2.0-pCi/L	1-pCi/L	Not applicable
Between 2.0 and 3.9-pCi/L	50% RPD	67% RPD
≥ 4.0 -pCi/L	28% RPD	36% RPD

Summary of Test Results¹ and Determination of Valid Measurements²

Round of Testing	Ground-Contact		Upper-Level(s)		Total
	Initial	Follow-Up	Initial	Follow-Up	
Number of test locations:	60	2	4	0	66
Number of locations ≥ 8.0 -pCi/L:	0	0	0	0	0
Number of locations ≥ 4.0 and ≤ 8 -pCi/L:	2	0	0	0	2
Number of locations ≥ 2.7 and < 4 -pCi/L:	0	0	0	0	0
Number of locations ≥ 2.0 and < 2.7 -pCi/L:	1	0	0	0	1
Number of missing required test locations ³ :	1	0	0	0	1
Number of failed duplicate control locations:	1	0	0	0	1
Percentage of missing test locations for the facility ^{4,5} :	1.66%	0	0	0	0

1 – for locations with multiple test results, report consistent with Section 7.2(When Two Test Results Disagree) and 8.1.2 (Averaging) of ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings;

2 - the allowance is to be calculated individually for Ground-Contact and Upper-Level(s) Test Locations;

3 – includes missed or inaccessible locations upon deployment or retrieval, damaged (not able to analyze) and missing detectors upon retrieval;

4 – if all valid measurements are < 4.0 -pCi/L and the total number of test locations are ≥ 18 , there is an allowance of $\leq 33\%$. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023;

5 – if any valid measurements are ≥ 4.0 -pCi/L and the total number of test locations are ≥ 20 , there is an allowance of $\leq 25\%$ of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023.

Summary of Test Results¹ and Determination of Valid Measurements² (continued)

	Round of Testing	Initial	Follow-Up
Were test devices deployed in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Were valid measurements obtained in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If Yes to both above – then Testing Status – ‘No Further Testing Needed’ mark ‘NA’ below and complete Conclusions section</i>			
If No to either above, were all results obtained under 4.0-pCi/L and were sufficient valid measurements obtained?^{1,2} <i>If Yes, then - ‘No Further Testing Needed’ complete Conclusion section on first page. If No, then - ‘Follow-up Testing Required’ continue below.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

1 – if all valid measurements are <4.0-pCi/L and the total number of test locations are ≥18, there is an allowance of ≤33%. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the allowance;
 2 – if any valid measurements are ≥4.0-pCi/L and the total number of test locations are ≥20, there is an allowance of ≤25% of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the number the allowance.

Follow-Up Testing

Required –

- If an insufficient number (greater than the allowance provided above) of valid measurements were obtained during the initial round of testing (the “missing required test locations” in the table above);
- Any location test results ≥ 4.0-pCi/L;
- Any location where duplicates fail QC checks; and or
- At the discretion of MCPS IAQ Staff

Reason for Follow-Up Testing	Testing Procedure	Follow-up Result	Conclusion
Insufficient Number of Measurements	Follow same procedures as Initial Testing	Not Applicable	Follow Initial Testing procedures
Results ≥ 4.0-pCi/L	Deploy two Short-term follow-up tests and required blanks and duplicates; Average the results of the two tests	≥4.0	Mitigation Required
Failed QC checks		≥2.0 and <4.0	Consider Mitigation
		<2.0	Mitigation Not Required

➤ *If follow-up testing identifies additional spaces requiring additional testing it will be performed as part of the ongoing follow-testing round.*

Attachment 1:
Summary Data Tables

Table 1- Radon Testing Results		
Silver Spring International Middle School		
Test Period: 12/17/2024 - 12/20/2024		
Kit Number	Room / Area	Result
11919430	103	0.7
11919422	104	< 0.3
11919437	104	< 0.3
11919449	105	< 0.3
11919421	106	0.7
11919445	107	0.9
11919459	110	< 0.3
11919479	110	< 0.3
11919447	111	< 0.3
11919472	112	1.9
11919467	113	0.9
11919468	114	1.0
11919475	114	1.1
11919416	116	0.8
11919482	117	< 0.3
11919462	118	< 0.3
11919450	119	< 0.3
11919452	119	< 0.3
11919481	120	0.6
11919469	122	0.6
11919457	123	< 0.3
11919471	126	< 0.3
11919455	127	0.7
11919432	128	0.5
11919448	128	< 0.3
11919418	130	1.6
11919425	131	1.5
11919493	132	< 0.3
11919485	133	< 0.3
11919483	134	< 0.3
11919484	135	< 0.3
11919490	136	< 0.3
11919464	137	< 0.3
11919498	137	0.9
11919426	138	< 0.3
11919458	138	0.8
11919492	139	< 0.3

Table 1- Radon Testing Results		
Silver Spring International Middle School		
Test Period: 12/17/2024 - 12/20/2024		
Kit Number	Room / Area	Result
11919413	140	< 0.3
11919496	236	< 0.3
11919495	240	< 0.3
11919499	246	0.5
11907006	308	< 0.3
11919500	308	< 0.3
11919436	105	< 0.3
11919443	105A	< 0.3
11919441	105C	< 0.3
11919442	105D	< 0.3
11919428	105E	< 0.3
11919433	105G	< 0.3
11919434	105H	< 0.3
11919429	106B	0.5
11919435	106C	< 0.3
11919420	106E	0.8
11919427	106F	< 0.3
11919423	106G	< 0.3
11919460	107B	0.6
11919473	107B	< 0.3
11919424	110A	1.0
11919476	114B	1.3
11919461	114C	2.1
11919474	114C	1.8
11919453	114E	1.3
11919465	114F	1.4
11919477	114G	1.0
11919446	119A	0.7
11919454	119A	1.0
11919451	119CR	0.8
11919456	127A	0.5
11919463	139B	< 0.3
11919419	CAFETERIA	1.0
11919438	CAFETERIA	0.5
11919440	GYM	6.8
11919470	GYM	7.0
11919414	KITCHEN OFFICE	1.1

Table 3 - QC Radon Testing Results			
Silver Spring International Middle School			
Test Period: 12/17/2024 - 12/20/2024			
Kit Number	QC Type	Room / Area	Result
11919422	D	104	< 0.3
11919479	D	110	< 0.3
11919452	FB	119	< 0.3
11919432	D	128	0.5
11919464	FB	137	< 0.3
11919426	D	138	< 0.3
11907006	D	308	< 0.3
11919473	FB	107B	< 0.3
11919474	D	114C	1.8
11919446	D	119A	0.7
11907208	OB	OFFICE BLANK	< 0.3
11907209	TB	TRAVEL BLANK	< 0.3

Table 3a - Duplicate Worksheet / Data Validation

Silver Spring International Middle School

Test Period: 12/17/2024 - 12/20/2024

Sample ID			Duplicate Concentrations (pCi/L) and OC Checks							
Kit Numbers		Room / Area	Higher	Lower	Check #1 (Pass/Fail)	2x the Lower	Check #2 (Pass/Fail)	Average	Relative Percent Difference (RPD)	Check #3
11919437	11919422	104	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11919479	11919459	110	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11919461	11919474	114C	2.1	1.8	✓	3.6	PASS	2.0	<1-pCi/L	✓
11919446	11075950	119A	1.0	0.7	✓	1.4	PASS	0.9	<1-pCi/L	✓
11919448	11919432	128	0.5	0.3	✓	0.6	PASS	0.4	<1-pCi/L	✓
11919426	11919458	138	0.8	0.3	✓	0.6	FAIL	0.6	<1-pCi/L	✗
11919500	11907006	308	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓

NOTES:

QC Check #1 - Data Entry

QC Check #2 - Higher duplicate concentration is < or = to 2x the Lower

QC Check #3 - Meets RPD Limits, by average duplicate concentration

- enter 2 if RPD is BELOW warning and control levels, AND passes QC Check 1 and 2
- enter 1 if RPD is ABOVE warning and BELOW control levels, AND passes QC Check 1 and 2
- enter 0 if RPD is ABOVE control level, or 'FAILS' QC Check 1 or 2

Average (pCi/L)	Warning Level	Control Level
< 2.0	1-pCi/L	NA
Between 2.0 and 3.9	50% RPD	67% RPD
≥ 4.0	28% RPD	36% RPD

Table 1- Radon Testing Results		
Silver Spring International Middle School RT		
Test Period: 3/18/2025 - 3/21/2025		
Kit Number	Room / Area	Result
11892463	138	0.8
11892468	138	< 0.3
11892469	138	0.6
11892464	GYM	1.3
11892465	GYM	1.4
11892466	GYM	1.5
11892467	GYM	< 0.3

Table 3 - QC Radon Testing Results			
Silver Spring International Middle School			
Test Period: 3/18/2025 - 3/21/2025			
Kit Number	QC Type	Room / Area	Result
11892466	D	GYM	1.5
11892467	FB	GYM	< 0.3
11892469	D	138	0.6
11892482	OB	OFFICE BLANK	< 0.3
11892483	TB	TRAVEL BLANK	< 0.3

Table 3a - Duplicate Worksheet / Data Validation

Silver Spring International Middle School RT

Test Period: 3/18/2025 - 3/21/2025

Sample ID		Duplicate Concentrations (pCi/L) and QC Checks								
Kit Numbers		Room / Area	Higher	Lower	Check #1 (Pass/Fail)	2x the Lower	Check #2 (Pass/Fail)	Average	Relative Percent Difference (RPD)	Check #3
11892466	11892464 11892465	GYM	1.5	1.4	✓	2.8	PASS	1.5	<1-pCi/L	✓
11892469	11892463 11892468	138	0.6	0.6	✓	1.2	PASS	0.6	<1-pCi/L	✓

NOTES:

QC Check #1 - Data Entry

QC Check #2 - Higher duplicate concentration is < or = to 2x the Lower

QC Check #3 - Meets RPD Limits, by average duplicate concentration

- enter 2 if RPD is BELOW warning and control levels, AND passes QC Check 1 and 2
- enter 1 if RPD is ABOVE warning and BELOW control levels, AND passes QC Check 1 and 2
- enter 0 if RPD is ABOVE control level, or 'FAILS' QC Check 1 or 2

Average (pCi/L)	Warning Level	Control Level
< 2.0	1-pCi/L	NA
Between 2.0 and 3.9	50% RPD	67% RPD
≥ 4.0	28% RPD	36% RPD

Attachment 2:
Laboratory Reports

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11919430	103	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	0.7 ± 0.3	2024-12-23
11919422	104	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919437	104	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919436	105 CONFERENCE	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919449	105 MAIN	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919443	105A	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919441	105C	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919442	105D	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919428	105E	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919433	105G	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919434	105H	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919421	106	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	0.7 ± 0.3	2024-12-23
11919429	106B	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	0.5 ± 0.3	2024-12-23
11919435	106C	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919420	106E	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	0.8 ± 0.3	2024-12-23
11919427	106F	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919423	106G	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919445	107 HEALTH	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	0.9 ± 0.3	2024-12-23
11919460	107B	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	0.6 ± 0.3	2024-12-23
11919473	107B	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919479	110	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919459	110	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919424	110A	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	1.0 ± 0.3	2024-12-23
11919447	111	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919472	112	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.9 ± 0.3	2024-12-23
11919467	113	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	0.9 ± 0.3	2024-12-23
11919475	114 MEDIA	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	1.1 ± 0.3	2024-12-23
11919468	114 MEDIA	2024-12-17 @ 8:00 am	2024-12-20 @ 8:00 am	1.0 ± 0.3	2024-12-23
11919476	114B	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.3 ± 0.3	2024-12-23
11919474	114C	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.8 ± 0.3	2024-12-23
11919461	114C	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	2.1 ± 0.3	2024-12-23
11919453	114E	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.3 ± 0.3	2024-12-23
11919465	114F	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.4 ± 0.3	2024-12-23
11919477	114G	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.0 ± 0.3	2024-12-23
11919416	116	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.8 ± 0.3	2024-12-23
11919482	117	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919462	118	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11919452	119	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919450	119	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919446	119A	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.7 ± 0.3	2024-12-23
11919454	119A	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.0 ± 0.3	2024-12-23
11919451	119CR	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.8 ± 0.3	2024-12-23
11919481	120	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.6 ± 0.3	2024-12-23
11919469	122	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.6 ± 0.3	2024-12-23
11919457	123	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919471	126	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919455	127	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.7 ± 0.3	2024-12-23
11919456	127A	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.5 ± 0.3	2024-12-23
11919448	128	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919432	128	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.5 ± 0.3	2024-12-23
11919418	130	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.6 ± 0.3	2024-12-23
11919425	131	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	1.5 ± 0.3	2024-12-23
11919493	132	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919485	133	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919483	134	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919484	135	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919490	136	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919464	137	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919498	137	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.9 ± 0.3	2024-12-23
11919458	138	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	0.8 ± 0.3	2024-12-23
11919426	138	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919492	139	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919463	139B	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919413	140	2024-12-17 @ 9:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919496	236	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919495	240	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919499	246	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	0.5 ± 0.3	2024-12-23
11919500	308	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11907006	308	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	< 0.3	2024-12-23
11919438	CAFETERIA	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	0.5 ± 0.3	2024-12-23
11919419	CAFETERIA	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	1.0 ± 0.3	2024-12-23
11919470	GYM	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	7.0 ± 0.6	2024-12-23
11919440	GYM	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	6.8 ± 0.5	2024-12-23
11919414	KITCHEN OFFICE	2024-12-17 @ 10:00 am	2024-12-20 @ 8:00 am	1.1 ± 0.3	2024-12-23

December 23, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**OFFICE
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11482799	O	2024-12-16 @ 10:00 am	2024-12-19 @ 1:00 pm	< 0.3	2024-12-23
11907208	O	2024-12-17 @ 10:00 am	2024-12-20 @ 1:00 pm	< 0.3	2024-12-23

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

December 23, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**TRAVEL
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11482800	T	2024-12-16 @ 10:00 am	2024-12-19 @ 1:00 pm	< 0.3	2024-12-23
11907209	T	2024-12-17 @ 10:00 am	2024-12-20 @ 1:00 pm	< 0.3	2024-12-23

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 20001560

NOMINAL Conditions: Radon Conc 50.6 pCi/L Rel. Hum 50.6% Temp. 70.8 F

Date Start: 12/14/24 Date Stop: 12/17/24 Date Start: _____ Date Stop: _____

Time Start: 0815 Time Stop: 0815 Time Start: _____ Time Stop: _____

Device No.'s: (3) CHAR BAGS Device No.'s: _____

11477880, 11477883, 11477896 _____

B4 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 μ R/h Elevation = 820 ft**

December 23, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SK
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477880	SK1	2024-12-14 @ 8:00 am	2024-12-17 @ 8:00 am	52.0 ± 4.2	2024-12-23
11477883	SK2	2024-12-14 @ 8:00 am	2024-12-17 @ 8:00 am	54.6 ± 4.4	2024-12-23
11477896	SK3	2024-12-14 @ 8:00 am	2024-12-17 @ 8:00 am	45.5 ± 3.6	2024-12-23

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 – Testing December 17th – December 20th, 2024

Name of Schools:

1. Newport Mill MS
2. Rolling Terrace ES
3. Silver Spring International MS
4. Spring Mill Center

	Date	Initials
Radon Test Kits Deployed	12/17/2024	Bmy
Radon Test Kits Collected	12/20/2024	Bmy
Radon Test Kits Shipped to Lab*	12/20/2024	Bmy
Radon Test Kits Received by Lab*	12/24/2024	Bmy

*All samples sent to Air Check, Inc., 2 Saber Way, Ward Hill, MA 01835

March 24, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11892463	138	2025-03-18 @ 1:00 pm	2025-03-21 @ 12:00 pm	0.8 ± 0.3	2025-03-24
11892468	138	2025-03-18 @ 1:00 pm	2025-03-21 @ 12:00 pm	< 0.3	2025-03-24
11892469	138	2025-03-18 @ 1:00 pm	2025-03-21 @ 12:00 pm	0.6 ± 0.3	2025-03-24
11892464	GYM	2025-03-18 @ 1:00 pm	2025-03-21 @ 12:00 pm	1.3 ± 0.3	2025-03-24
11892465	GYM	2025-03-18 @ 1:00 pm	2025-03-21 @ 12:00 pm	1.4 ± 0.3	2025-03-24
11892466	GYM	2025-03-18 @ 1:00 pm	2025-03-21 @ 12:00 pm	1.5 ± 0.3	2025-03-24
11892467	GYM	2025-03-18 @ 1:00 pm	2025-03-21 @ 12:00 pm	< 0.3	2025-03-24

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

April 7, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**OFFICE
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11892482	OB	2025-03-17 @ 11:00 am	2025-03-21 @ 11:00 am	< 0.3	2025-03-24

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

April 7, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**TRAVEL
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11892483	TB	2025-03-17 @ 11:00 am	2025-03-21 @ 11:00 am	< 0.3	2025-03-24

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 20002919

NOMINAL Conditions: Radon Conc 7.0 pCi/L Rel. Hum 51.4 % Temp. 70.7 F

Date Start: 3/7/25 Date Stop: 3/10/25 Date Start: _____ Date Stop: _____

Time Start: 0832 Time Stop: 0832 Time Start: _____ Time Stop: _____

Device No.'s: (7) CHAR BAGS Device No.'s: _____

11886401 thru 11886406,

11886410

G3 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 μ R/h Elevation = 820 ft**

March 19, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

QC
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886401	SK1	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.8 ± 1.1	2025-03-19
11886405	SK2	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.1 ± 1.1	2025-03-19
11886406	SK3	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.7 ± 1.1	2025-03-19
11886403	SK4	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.9 ± 1.2	2025-03-19
11886404	SK5	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.6 ± 1.2	2025-03-19
11886410	SK6	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	7.0 ± 1.1	2025-03-19
11886402	SK7	2025-03-07 @ 9:00 am	2025-03-10 @ 9:00 am	8.6 ± 1.2	2025-03-19

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 – Re-Testing March 18th – March 21st, 2025

Name of Schools:

1. Bannockburn ES
2. Rock View ES
3. Silver Spring International MS

	Date	Initials
Radon Test Kits Deployed	3/18/2025	BMM
Radon Test Kits Collected	3/21/2025	BMM
Radon Test Kits Shipped to Lab*	3/21/2025	BMM
Radon Test Kits Received by Lab*	3/25/2025	BMM

*All samples sent to Air Check, Inc., 2 Saber Way, Ward Hill, MA 01835



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Silver Spring International Middle School
Date of Test Report	5/11/2022
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	58
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.8 pCi/L

Project Status:
Initial testing completed; No further action needed



May 11, 2022

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

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

Location: Silver Spring International Middle School
313 Wayne 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 Silver Spring International Middle School, located at 313 Wayne Ave. Silver Spring, MD 21053 (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 14, 2022 and deployed sixty-seven (67) 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 17, 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 low 20s and high temperatures ranged from the mid 70s to the high 50s Fahrenheit. Maximum sustained winds ranged from 0-32 miles per hour. Average humidity was around 61% 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		
Silver Spring International MS		
Test Period: 03/14/2022 - 03/17/2022		
Kit Number	Room / Area	Result
11132494	103	1.2
11132464	104	< 0.3
11132427	105	< 0.3
11130373	106	0.8
11133044	107	1.1
11132429	110	< 0.3
11132430	111	< 0.3
11132441	112	1.5
11132442	112	1.0
11132432	113	< 0.3
11132436	113	0.7
11132451	114	0.9
11133046	116	< 0.3
11132437	117	0.7
11132445	117	< 0.3
11132439	118	0.8
11132459	119	< 0.3
11132438	120	0.6
11132465	123	< 0.3
11132466	123	< 0.3
11132448	126	< 0.3
11132468	127	< 0.3
11132447	128	< 0.3
11132446	129	< 0.3
11132475	130	1.8
11132474	131	1.4
11132467	132	0.7
11132476	133	0.7
11132456	134	0.6
11132455	135	0.6
11132483	136	0.8
11132482	137	0.8
11132484	138	< 0.3
11132492	139	< 0.3
11132491	140	< 0.3
11132495	244	0.6
11132497	245	< 0.3
11132490	246	< 0.3
11132498	246	< 0.3
11132481	247	< 0.3
11132496	247	< 0.3
11132489	308	< 0.3

Table 1- Radon Testing Results		
Silver Spring International MS		
Test Period: 03/14/2022 - 03/17/2022		
Kit Number	Room / Area	Result
11133035	105A	< 0.3
11132433	105C	< 0.3
11133039	105D	0.6
11133036	105E	< 0.3
11130374	105G	< 0.3
11133040	105H	< 0.3
11132428	106B	0.7
11132434	106B	0.7
11133037	106C	< 0.3
11132435	106E	< 0.3
11133038	106F	< 0.3
11130372	106G	< 0.3
11132443	114 OFFICE	0.9
11132444	114B	0.9
11132458	114C	1.2
11132449	114F	0.7
11132453	119A	0.7
11132457	119A	< 0.3
11132452	119B	< 0.3
11132460	119B OFFICE	0.6
11132487	CAFETERIA	1.1
11132493	CAFETERIA	1.3
11132488	KITCHEN CAFETERIA	1.5
11132431	MAIN OFFICE CONFERENCE ROOM	< 0.3
11132450	TV STUDIO 1141	1.1

Table 2- Radon Testing Results			
Silver Spring International MS			
Test Period: 03/14/2022 - 03/17/2022			
Kit Number	QC Type	Room / Area	Result
11132428	D	106B	0.7
11132441	D	112	1.5
11132432	FB	113	< 0.3
11132445	D	117	< 0.3
11132457	D	119A	< 0.3
11132465	FB	123	< 0.3
11132473	D	132	0.7
11132498	D	246	< 0.3
11132481	FB	247	< 0.3
11138932	OB	OFFICE BLANK	< 0.3
11138946	TB	TRAVEL BLANK	< 0.3

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
**SILVER SPRING INTO MS
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11132494	103	2022-03-14 @ 10:00 am	2022-03-17 @ 9:00 am	1.2 ± 0.4	2022-03-21
11132464	104	2022-03-14 @ 10:00 am	2022-03-17 @ 9:00 am	< 0.3	2022-03-21
11132427	105	2022-03-14 @ 8:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11133035	105A	2022-03-14 @ 8:00 am	2022-03-17 @ 9:00 am	< 0.3	2022-03-21
11132433	105C	2022-03-14 @ 8:00 am	2022-03-17 @ 9:00 am	< 0.3	2022-03-21
11133039	105D	2022-03-14 @ 8:00 am	2022-03-17 @ 10:00 am	0.6 ± 0.3	2022-03-21
11133036	105E	2022-03-14 @ 9:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11133040	105H	2022-03-14 @ 8:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132428	106B	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11132434	106B	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11133037	106C	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132435	106E	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11133038	106F	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11133044	107	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	1.1 ± 0.3	2022-03-21
11132429	110	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132430	111	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132441	112	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	1.5 ± 0.4	2022-03-21
11132442	112	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	1.0 ± 0.3	2022-03-21
11132432	113	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132436	113	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11132451	114	2022-03-14 @ 9:00 am	2022-03-17 @ 11:00 am	0.9 ± 0.3	2022-03-21
11132443	114 OFFICE	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.9 ± 0.3	2022-03-21
11132444	114B	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.9 ± 0.3	2022-03-21
11132458	114C	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	1.2 ± 0.3	2022-03-21
11132449	114F	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11133046	116	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132437	117	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11132445	117	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132439	118	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.8 ± 0.3	2022-03-21
11132459	119	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132453	119A	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11132457	119A	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132452	119B	2022-03-14 @ 9:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132460	119B OFFICE	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.6 ± 0.3	2022-03-21
11132438	120	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.6 ± 0.3	2022-03-21
11132466	123	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132465	123	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21

Radon test result report for:
**SILVER SPRING INTO MS
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11132448	126	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132468	127	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132447	128	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132446	129	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11132475	130	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	1.8 ± 0.4	2022-03-21
11132474	131	2022-03-14 @ 10:00 am	2022-03-17 @ 10:00 am	1.4 ± 0.3	2022-03-21
11132467	132	2022-03-14 @ 10:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11132476	133	2022-03-14 @ 10:00 am	2022-03-17 @ 10:00 am	0.7 ± 0.3	2022-03-21
11132456	134	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	0.6 ± 0.3	2022-03-21
11132455	135	2022-03-14 @ 10:00 am	2022-03-17 @ 10:00 am	0.6 ± 0.3	2022-03-21
11132483	136	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	0.8 ± 0.3	2022-03-21
11132482	137	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	0.8 ± 0.3	2022-03-21
11132484	138	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132492	139	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132491	140	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132495	244	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	0.6 ± 0.3	2022-03-21
11132497	245	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132490	246	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132498	246	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132481	247	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132496	247	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132489	308	2022-03-14 @ 10:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132493	CAFETERIA	2022-03-14 @ 10:00 am	2022-03-17 @ 10:00 am	1.3 ± 0.3	2022-03-21
11132487	CAFETERIA	2022-03-14 @ 10:00 am	2022-03-17 @ 10:00 am	1.1 ± 0.4	2022-03-21
11132488	KITCHEN CAFETERIA	2022-03-14 @ 10:00 am	2022-03-17 @ 10:00 am	1.5 ± 0.3	2022-03-21
11132431	MAIN OFFICE CONFERENCE ROOM	2022-03-14 @ 9:00 am	2022-03-17 @ 11:00 am	< 0.3	2022-03-21
11132450	TV STUDIO 1141	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	1.1 ± 0.3	2022-03-21

March 22, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
**SILVER SPRING INTO MS
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11130374	105G	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21
11130373	106	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	0.8 ± 0.3	2022-03-21
11130372	106G	2022-03-14 @ 9:00 am	2022-03-17 @ 10:00 am	< 0.3	2022-03-21

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

March 22, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SILVER SPRING INTERNATIONAL MS
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11132473	132	2022-03-14 @ 9:00 am	2022-03-17 @ 11:00 am	0.6 ± 0.3	2022-03-21

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 μ 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).

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
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

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. Silver Spring International MS
2. Sligo Creek ES
3. Takoma Park MS
4. Takoma Park ES
5. Highland ES
6. Rolling Terrace ES

	Date	Initials
Radon Test Kits Deployed	03/14/2022	BMM
Radon Test Kits Collected	03/17/2022	BMM
Radon Test Kits Shipped to Lab*	03/17/2022	BMM
Radon Test Kits Received by Lab*	03/20/2022	BMM

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



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary:
Silver Spring International Middle School
313 Wayne Avenue,
Silver Spring, MD 20910

Date of Test Report:	3/15/2019
Round of Testing:	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested:	4
# of Rooms \geq 4.0 pCi/L:	0
Low Value:	<0.4
High Value:	1.8

Project Status

Retesting completed: No further action at this time.



March 15, 2019

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: Radon Testing Services

Location: Silver Spring International Middle School
313 Wayne Avenue
Silver Spring, MD 20910

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Silver Spring International Middle School, located at 313 Wayne Avenue, Silver Spring, MD 20910 (subject site).

Scope of Services:

PSI 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. PSI 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on February 26, 2019 and deployed seven (7) activated charcoal (AC) radon test kit. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on March 1, 2019 to retrieve the radon sampling test kit. A floor plan map of the building with the test location is included as Attachment A of this report.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007).

Evaluation of Testing Conditions:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}\text{F}$.

PSI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.



PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at 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.

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥ 4.0 pCi/L	None	NA
≤ 4.0 pCi/L	See Attachment B	

Notes:
D -Duplicate Sample

The office blank and lab transit blanks had test results of less than the laboratory detection limit of 0.4 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. 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 (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik". The signature is written in a cursive, flowing style.

Nand Kaushik, P.E.
Department Manager, Environmental Services
Nand.Kaushik@intertek.com

Attachments: A – Floor Plan with Test Locations
 B – Table 1 – Radon Test Summary Spreadsheet
 C – Laboratory Analytical Results

ATTACHMENT B

Radon Test Summary Spreadsheet

Radon Testing Results		
Silver Spring International Middle School		
Testing period: 02/26/19 - 03/01/19		
Kit Number	Room / Area	Result (pCi/L)
3923475	Room 115	1.8
3923544	Room 115	0.9
3923543	Room 130	1.5
3923438	Room 138	<0.4

Radon Testing Results		
Silver Spring International Middle School		
Testing period: 02/26/19 - 03/01/19		
Kit Number	QC Type	Result (pCi/L)
3923542	Field Blank	<0.4
3923541	Field Blank	<0.4

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NRPP 105011 AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

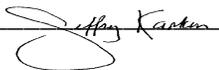
MCPS Radon Survey Silver Spring Int MS
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure Duration:			Area Tested	Result pCi/L
3220689	3923475	02/26/2019	6:40 am	03/01/2019 6:30 am	Room 115	1.8
3220690	3923544	02/26/2019	6:42 am	03/01/2019 6:32 am	Room 115	0.9
3220691	3923543	02/26/2019	6:45 am	03/01/2019 6:34 am	Room 130	1.5
3220692	3923438	02/26/2019	6:50 am	03/01/2019 6:36 am	Room 138	< 0.4
3220693	3923542	02/26/2019	6:00 am	03/01/2019 6:00 am	Field Blank	< 0.4
3220694	3923541	02/26/2019	6:00 am	03/01/2019 6:00 am	Field Blank	< 0.4

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Distributed by: Intertek-PSI (VA)

Date Received: 03/04/2019 Date Logged: 03/04/2019 Date Analyzed: 03/05/2019 Date Reported: 03/05/2019

Report Reviewed By: 

Report Approved By: 

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

Shawn Price, Director of Laboratory Operations, AccuStar Labs

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary:

Silver Spring International Middle School

313 Wayne Avenue,
Silver Spring, MD 20910

Date of Test Report:	02/21/2019
Round of Testing:	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested:	62
# of Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	2.1

Project Status

Initial testing complete: Missing or compromised samples need re-test.



February 21, 2019

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: Radon Testing Services

Location: Silver Spring International Middle School
313 Wayne Avenue
Silver Spring, MD 20910

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Silver Spring International Middle School, located at 313 Wayne Avenue, Silver Spring, MD 20910 (subject site).

Scope of Services:

PSI 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. PSI 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on November 27, 2018 and deployed seventy-nine (79) activated charcoal (AC) radon test kits. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on November 30, 2018 to retrieve the radon sampling test kits. A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, PSI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, PSI submitted ten (10) test kits to Bowser-Morner Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner Inc. prior to being returned to the laboratory for analysis.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007) and 2 Saber Way, Haverhill, Massachusetts (certification # ARL0017).



Evaluation of Testing Conditions:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}\text{F}$.

PSI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at 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.

Results:

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	

Notes:

D -Duplicate Sample

The office blank and lab transit blanks had test results of less than the laboratory detection limit of 0.4 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. 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 (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik". The signature is written in a cursive, flowing style.

Nand Kaushik, P.E.
Department Manager, Environmental Services
Nand.Kaushik@intertek.com

Attachments: A – Floor Plan with Test Locations
 B – Table 1 – Radon Test Summary Spreadsheet
 C – Laboratory Analytical Results

ATTACHMENT B

Radon Test Summary Spreadsheet

Radon Testing Results		
Silver Spring International Middle School		
Testing period: 11/27/18 - 11/30/18		
Kit Number	Room / Area	Result (pCi/L)
3917937	103E	1.0
3917940	104	<0.4
3917834	105	<0.4
3917991	105A	<0.4
3915571	105C	<0.4
3917833	105D	<0.4
3917932	105E	<0.4
3917840	105F	<0.4
3917831	105G	<0.4
3917932	105H	<0.4
3917835	106	<0.4
3917938	106B	<0.4
3917837	106C	<0.4
3917836	106E	<0.4
3917923	106F	<0.4
3917928	106G	<0.4
3917910	107	0.4
3917908	107B	<0.4
3917905	110	<0.4
3917907	111	<0.4
3915654	112	0.9
3917904	113	0.8
3915651	114	1.2
3915653	114	1.4
3915451	114B	1.3
3915454	114C	2.1
3915455	114E	1.2
3915660	114F	1.3
3915673	115 (MISSING)	--
3915691	115 (MISSING)	--
3915652	116	<0.4
3915659	117	<0.4
3915655	118	0.7
3915657	119	0.7
3917902	119A	<0.4
3915656	119B	<0.4
3917901	119B Office	<0.4
3915658	120	<0.4
3917903	120A	<0.4
3915460	122	<0.4
3915452	123	<0.4
3915456	126	<0.4
3915458	127	<0.4

Radon Testing Results		
Silver Spring International Middle School		
Testing period: 11/27/18 - 11/30/18		
Kit Number	Room / Area	Result (pCi/L)
3915457	128	<0.4
3915692	129	<0.4
3915700	130	Unable to Report
3915693	131	<0.4
3915694	132	<0.4
3915699	133	<0.4
3915695	134	<0.4
3915698	135	<0.4
3915696	136	<0.4
3915697	137	<0.4
3915677	138 (MISSING)	--
3915676	139	<0.4
3915679	140	<0.4
3915579	217	<0.4
3915678	233	0.4
3915671	240	<0.4
3915674	246	<0.4
3915575	307	0.5
3915680	Basement Break Room	0.7
3915672	Basement Rec Room	0.7
3915578	Gym	<0.4
3915574	Gym	<0.4

Radon Testing Results		
Silver Spring International Middle School		
Testing period:11/27/18 - 11/30/18		
Kit Number	QC Type	Result (pCi/L)
3917939	103E (D)	1.0
3917933	105A (D)	<0.4
3917934	106E (D)	<0.4
3917906	107B (D)	<0.4
3917909	112 (D)	0.5
3915453	114B (D)	1.0
3915459	127 (D)	<0.4
3915675	Basement Rec Room (D)	0.8
3915511	Field Blank	<0.4
3917485	Field Blank	Unable to Report
3917486	Field Blank	Unable to Report
3917438	Office Blank	<0.4
3917845	Transit Blank	<0.4

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

MCPS Radon Survey
Silver Spring International Middle School
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2401337	3917832	11/27/2018 6:45 am	11/30/2018 8:25 am	Silver Spring International MS Flr First Rm 105H	< 0.4
2401338	3917834	11/27/2018 6:36 am	11/30/2018 6:13 am	Silver Spring International MS Flr First Rm 105	< 0.4
2401339	3917991	11/27/2018 6:37 am	11/30/2018 6:15 am	Silver Spring International MS Flr First Rm 105A	< 0.4
2401340	3917933	11/27/2018 6:37 am	11/30/2018 6:15 am	Silver Spring International MS Flr First Rm 105A D	< 0.4
2401341	3917833	11/27/2018 6:38 am	11/30/2018 6:16 am	Silver Spring International MS Flr First Rm 105D	< 0.4
2401342	3915571	11/27/2018 9:38 am	11/30/2018 6:18 am	Silver Spring International MS Flr First Rm 105C	< 0.4
2401343	3917932	11/27/2018 6:39 am	11/30/2018 6:20 am	Silver Spring International MS Flr First Rm 105E	< 0.4
2401344	3917840	11/27/2018 6:41 am	11/30/2018 6:22 am	Silver Spring International MS Flr First Rm 105F	< 0.4
2401345	3917831	11/27/2018 6:43 am	11/30/2018 6:24 am	Silver Spring International MS Flr First Rm 105G	< 0.4
2401346	3917940	11/27/2018 6:47 am	11/30/2018 6:26 am	Silver Spring International MS Flr First Rm 104	< 0.4
2401347	3917931	11/27/2018 6:55 am	11/30/2018 6:27 am	Silver Spring International MS Flr First Rm 103	< 0.4

Comment: AMENDED REPORT for 3917832 on 2/7/19 to include the date and time the test began and ended and area tested for 3917832. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/03/2018 Date Logged: 12/03/2018 Date Analyzed: 12/04/2018 Date Reported: 01/31/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

MCPS Radon Survey
Silver Spring International Middle School
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
2401348	3917937	11/27/2018 7:00 am	11/30/2018 6:28 am	Silver Spring International MS Flr First Rm 103E	1.0
2401349	3917939	11/27/2018 7:00 am	11/30/2018 6:28 am	Silver Spring International MS Flr First Rm 103E D	1.0
2401350	3917835	11/27/2018 7:02 am	11/30/2018 6:29 am	Silver Spring International MS Flr First Rm 106	< 0.4
2401351	3917938	11/27/2018 7:04 am	11/30/2018 6:29 am	Silver Spring International MS Flr First Rm 106B	< 0.4
2401352	3917837	11/27/2018 7:06 am	11/30/2018 6:30 am	Silver Spring International MS Flr First Rm 106C	< 0.4
2401353	3917836	11/27/2018 7:09 am	11/30/2018 6:31 am	Silver Spring International MS Flr First Rm 106E	< 0.4
2401354	3917934	11/27/2018 7:09 am	11/30/2018 6:31 am	Silver Spring International MS Flr First Rm 106E D	< 0.4
2401355	3917923	11/27/2018 7:10 am	11/30/2018 6:32 am	Silver Spring International MS Flr First Rm 106F	< 0.4
2401356	3917928	11/27/2018 7:12 am	11/30/2018 6:33 am	Silver Spring International MS Flr First Rm 106G	< 0.4
2401357	3917910	11/27/2018 7:14 am	11/30/2018 6:34 am	Silver Spring International MS Flr First Rm 107	0.4
2401358	3917908	11/27/2018 7:16 am	11/30/2018 6:35 am	Silver Spring International MS Flr First Rm 107B	< 0.4

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Distributed by: Intertek-PSI (VA)

Date Received: 12/03/2018 Date Logged: 12/03/2018 Date Analyzed: 12/04/2018 Date Reported: 01/31/2019

Report Reviewed By: 

Report Approved By: 

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

MCPS Radon Survey
Silver Spring International Middle School
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure Duration:				Area Tested	Result pCi/L
2401359	3917906	11/27/2018	7:16 am	11/30/2018	6:35 am	Silver Spring International MS Flr First Rm 107B D	< 0.4
2401360	3917907	11/27/2018	7:19 am	11/30/2018	6:38 am	Silver Spring International MS Flr First Rm 111	< 0.4
2401361	3917905	11/27/2018	7:21 am	11/30/2018	6:39 am	Silver Spring International MS Flr First Rm 110	< 0.4
2401362	3915654	11/27/2018	7:22 am	11/30/2018	6:40 am	Silver Spring International MS Flr First Rm 112	0.9
2401363	3917909	11/27/2018	7:24 am	11/30/2018	6:40 am	Silver Spring International MS Flr First Rm 112 Du	0.5
2401364	3917904	11/27/2018	7:24 am	11/30/2018	6:41 am	Silver Spring International MS Flr First Rm 113	0.8
2401365	3915652	11/27/2018	7:26 am	11/30/2018	6:42 am	Silver Spring International MS Flr First Rm 116	< 0.4
2401366	3915659	11/27/2018	7:28 am	11/30/2018	6:43 am	Silver Spring International MS Flr First Rm 117	< 0.4
2401367	3915658	11/27/2018	7:30 am	11/30/2018	6:44 am	Silver Spring International MS Flr First Rm 120	< 0.4
2401368	3917903	11/27/2018	7:32 am	11/30/2018	6:45 am	Silver Spring International MS Flr First Rm 120A	< 0.4
2401369	3915657	11/27/2018	7:34 am	11/30/2018	6:46 am	Silver Spring International MS Flr First Rm 119	0.7

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Date Received: 12/03/2018 Date Logged: 12/03/2018 Date Analyzed: 12/04/2018 Date Reported: 01/31/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

MCPS Radon Survey
Silver Spring International Middle School
313 Wayne Avenue
Silver Spring MD 20910

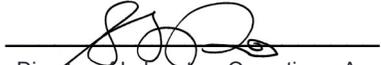
Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
2401370	3917902	11/27/2018 7:38 am	11/30/2018 6:46 am	Silver Spring International MS Flr First Rm 119A	< 0.4
2401371	3915656	11/27/2018 7:41 am	11/30/2018 6:47 am	Silver Spring International MS Flr First Rm 119B	< 0.4
2401372	3917901	11/27/2018 7:43 am	11/30/2018 12:00 am	Silver Spring International MS Flr First Rm 119B O	< 0.4
2401373	3915655	11/27/2018 7:45 am	11/30/2018 6:49 am	Silver Spring International MS Flr First Rm 118	0.7
2401374	3915653	11/27/2018 7:47 am	11/30/2018 6:50 am	Silver Spring International MS Flr First Rm 114	1.4
2401375	3915651	11/27/2018 7:48 am	11/30/2018 6:50 am	Silver Spring International MS Flr First Rm 114	1.2
2401376	3915451	11/27/2018 7:50 am	11/30/2018 6:51 am	Silver Spring International MS Flr First Rm 114B	1.3
2401377	3915453	11/27/2018 7:50 am	11/30/2018 6:52 am	Silver Spring International MS Flr First Rm 114B D	1.0
2401378	3915454	11/27/2018 7:52 am	11/30/2018 6:53 am	Silver Spring International MS Flr First Rm 114C	2.1
2401379	3915455	11/27/2018 7:54 am	11/30/2018 6:54 am	Silver Spring International MS Flr First Rm 114E	1.2
2401380	3915660	11/27/2018 7:56 am	11/30/2018 6:55 am	Silver Spring International MS Flr First Rm 114F	1.3

Comment: AMENDED REPORT for 3917832 on 2/7/19 to include the date and time the test began and ended and area tested for 3917832. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/03/2018 Date Logged: 12/03/2018 Date Analyzed: 12/04/2018 Date Reported: 01/31/2019

Report Reviewed By: 

Report Approved By: 

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

MCPS Radon Survey
Silver Spring International Middle School
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
2401381	3915460	11/27/2018 7:58 am	11/30/2018 6:56 am	Silver Spring International MS Flr First Rm 122	< 0.4
2401382	3915452	11/27/2018 8:00 am	11/30/2018 6:57 am	Silver Spring International MS Flr First Rm 123	< 0.4
2401383	3915456	11/27/2018 8:05 am	11/30/2018 6:58 am	Silver Spring International MS Flr First Rm 126	< 0.4
2401384	3915458	11/27/2018 8:10 am	11/30/2018 7:00 am	Silver Spring International MS Flr First Rm 127	< 0.4
2401385	3915459	11/27/2018 8:10 am	11/30/2018 7:01 am	Silver Spring International MS Flr First Rm 127 Du	< 0.4
2401386	3915457	11/27/2018 8:12 am	11/30/2018 7:03 am	Silver Spring International MS Flr First Rm 128	< 0.4
2401387	3915692	11/27/2018 8:14 am	11/30/2018 7:04 am	Silver Spring International MS Flr First Rm 129	< 0.4
2401388	3915700	11/27/2018 8:16 am	11/30/2018 7:05 am	Silver Spring International MS Flr First Rm 130	Invalid
2401389	3915693	11/27/2018 8:18 am	11/30/2018 7:07 am	Silver Spring International MS Flr First Rm 131	< 0.4
2401390	3915694	11/27/2018 8:21 am	11/30/2018 7:08 am	Silver Spring International MS Flr First Rm 132	< 0.4
2401391	3915699	11/27/2018 8:23 am	11/30/2018 7:09 am	Silver Spring International MS Flr First Rm 133	< 0.4

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Distributed by: Intertek-PSI (VA)

Date Received: 12/03/2018 Date Logged: 12/03/2018 Date Analyzed: 12/04/2018 Date Reported: 01/31/2019

Report Reviewed By: 

Report Approved By: 

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

MCPS Radon Survey
Silver Spring International Middle School
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure Duration:				Area Tested	Result pCi/L
2401392	3915695	11/27/2018	8:25 am	11/30/2018	7:10 am	Silver Spring International MS Flr First Rm 134	< 0.4
2401393	3915698	11/27/2018	8:27 am	11/30/2018	7:11 am	Silver Spring International MS Flr First Rm 135	< 0.4
2401394	3915696	11/27/2018	8:28 am	11/30/2018	7:12 am	Silver Spring International MS Flr First Rm 136	< 0.4
2401395	3915697	11/27/2018	8:30 am	11/30/2018	7:13 am	Silver Spring International MS Flr First Rm 137	< 0.4
2401396	3915676	11/27/2018	8:36 am	11/30/2018	7:15 am	Silver Spring International MS Flr First Rm 139	< 0.4
2401397	3915679	11/27/2018	8:38 am	11/30/2018	7:18 am	Silver Spring International MS Flr First Rm 140	< 0.4
2401398	3915672	11/27/2018	8:40 am	11/30/2018	7:20 am	Silver Spring International MS Flr Basement Rm B	0.7
2401399	3915675	11/27/2018	8:42 am	11/30/2018	7:20 am	Silver Spring International MS Flr Basement Rm B	0.8
2401400	3915680	11/27/2018	8:48 am	11/30/2018	7:21 am	Silver Spring International MS Flr Basement Rm B	0.7
2401401	3915674	11/27/2018	9:00 am	11/30/2018	7:44 am	Silver Spring International MS Flr Second Rm 246	< 0.4
2401402	3915671	11/27/2018	9:05 am	11/30/2018	7:46 am	Silver Spring International MS Flr Second Rm 240	< 0.4

Comment: AMENDED REPORT for 3917832 on 2/7/19 to include the date and time the test began and ended and area tested for 3917832. A copy of this report was emailed to Intertek-PSI (VA).

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Date Received: 12/03/2018 Date Logged: 12/03/2018 Date Analyzed: 12/04/2018 Date Reported: 01/31/2019

Report Reviewed By: 

Report Approved By: 

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NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

Property Tested: Project # 04481387-1

MCPS Radon Survey
Silver Spring International Middle School
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2401403	3915678	11/27/2018 9:10 am 11/30/2018 7:48 am	Silver Spring International MS Flr Second Rm 233	0.4
2401404	3915579	11/27/2018 9:15 am 11/30/2018 7:50 am	Silver Spring International MS Flr Second Rm 217	< 0.4
2401405	3915575	11/27/2018 9:20 am 11/30/2018 7:52 am	Silver Spring International MS Flr Third Rm 307	0.5
2401406	3915578	11/27/2018 9:50 am 11/30/2018 8:00 am	Silver Spring International MS Flr First Rm Gym	< 0.4
2401407	3915574	11/27/2018 9:50 am 11/30/2018 8:00 am	Silver Spring International MS Flr First Rm Gym	< 0.4
2401408	3917486	11/27/2018 6:36 am 11/30/2018 8:00 am	Silver Spring International MS Field Blank	Invalid
2401409	3915511	11/27/2018 6:36 am 11/30/2018 8:00 am	Silver Spring International MS Field Blank	< 0.4
2401410	3917485	11/27/2018 6:36 am 11/30/2018 8:00 am	Silver Spring International MS Field Blank	Invalid
2401411	3917845	11/27/2018 6:36 am 11/30/2018 8:00 am	Silver Spring International MS Transit Blank	< 0.4
2401412	3917438	11/27/2018 6:36 am 11/30/2018 8:00 am	Silver Spring International MS Office Blank	< 0.4

Comment: AMENDED REPORT for 3917832 on 2/7/19 to include the date and time the test began and ended and area tested for 3917832. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/03/2018 Date Logged: 12/03/2018 Date Analyzed: 12/04/2018 Date Reported: 01/31/2019

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Report Approved By: 

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NRPP 105011 AL
NRSB ARL0007
Ohio RL41

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey
4514 Taylorsville Road
Dayton OH 45424

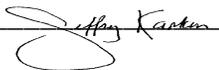
Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
3204125	3926831	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	36.1
3204126	3926832	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	34.8
3204127	3926833	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	33.7
3204128	3926834	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	35.8
3204129	3926835	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	35.0
3204130	3926836	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	34.5
3204131	3926837	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	34.6
3204132	3926838	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	34.3
3204133	3926839	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	33.2
3204134	3926840	12/07/2018 9:47 am	12/10/2018 9:47 am	Spike	34.0

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Test Performed By: Unknown

Distributed by: Intertek-PSI (VA)

Date Received: 12/12/2018 Date Logged: 12/12/2018 Date Analyzed: 12/12/2018 Date Reported: 12/13/2018

Report Reviewed By: 

Report Approved By: 

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Shawn Price, Director of Laboratory Operations, AccuStar Labs

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EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Intertek - PSI

Job Number 187732

NOMINAL Conditions: Radon Conc 32.6 pCi/L Rel. Hum 49.1 % Temp. 70.1 F

Date Start: 12/7/18 Date Stop: 12/10/18

Date Start: _____ Date Stop: _____

Time Start: 0947 Time Stop: 0947

Time Start: _____ Time Stop: _____

Device No.'s: (10) Char. Cans-

Device No.'s: _____

3926831 thru 3926840

G2 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



Chain of Custody

Project Name: MCPS Radon Survey 2018

Name of Schools:

1. Ashburton ES
2. Carderock Springs ES
3. Diamond ES
4. Fox Chapel ES
5. Baker MS
6. Damascus ES
7. Clemente MS
8. Clopper Mill ES
9. Broad Acres ES
10. Greencastle ES
11. Harmony Hills ES
12. Silver Spring International MS
13. Gaithersburg MS
14. Garrett Park ES
15. New Hampshire Estates ES
16. Georgian Forest ES

	Date	Initials
Radon Test Kits Deployed	11/27/2018	NL
Radon Test Kits Sampled	11/30/2018	NL
Radon Test Kits Shipped to Lab*	11/30/2018	NL
Radon Test Kits Received by Lab*	12/01/2018; 12/02/2018; 12/03/2018	NL

*All samples sent to AccuStar Laboratories, 929 Mount Zion Road, Lebanon, PA 17046 and 2 Saber Way, Haverhill, MA 01835



MCPS RADON TESTING - EXECUTIVE SUMMARY

Site Name	Silver Spring International Middle School
Date of Report	March 13, 2018
Round of Testing	Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested	12
# Rooms ≥ 4.0 pCi/L	0
Lowest Value	0.7 pCi/L
Highest Value	3.5 pCi/L

Project Status

Current Project Status at this time: Retesting completed; no further action at this time.



March 13, 2018

Mr. Richard Cox, MS
Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Radon Testing Services

KCI Job #1214634188

Location: Silver Spring International Middle School

313 Wayne Ave.
Silver Spring, Maryland 20910

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “short-term” 3-day radon test for the Silver Spring International Middle School, located at 313 Wayne Ave. in Silver Spring, Maryland 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on February 13, 2018 and deployed fourteen (14) activated charcoal (AC) radon test kits. KCI deployed radon test kits in 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 not successfully tested,
2. Rooms with elevated November 2017 results (i.e. ≥ 3.5 pCi/L).

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

As a quality control measure, KCI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner, Inc. prior to being returned to the laboratory for analysis.

KCI returned to the site on February 16, 2018 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, 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 at 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 ranged from the mid-20s to upper 40s and high temperatures ranged from the high-30s to the high-60s. Maximum sustained winds ranged from 10-18 miles per hour. Average humidity was around 73%. 0.30 Inches of precipitation was recorded during the 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). 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	See Attachment B

Quality Control Samples	
Results of Blank Canisters:	The field blank, 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 410-316-7800.

Sincerely,



Radon Measurement Specialist
KCI Technologies, Inc.

Attachments:

B - Radon Test Summary Spreadsheets

C - Laboratory Analytical Results

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

Table 1 - Radon Testing Results		
Silver Spring International Middle School		
Test Period: 02/13/18-02/16/18		
Kit Number	Room / Area	Result
7984182	104	0.7
7984126	139	0.8
7984125	140	1.0
7984134	301	0.9
7984127	103E	2.1
7984132	114D	2.3
7984131	115K/KITCHEN OFF	2.0
7984176	303A	1.1
7984184	* BSO1 (Tampered)	1.8
7984130	BSO2	3.5
7984129	F103	1.8
7984185	KITCHEN	1.2

Table Note:

* Missing or Compromised Sample

Table 2 - Radon Testing Results		
Silver Spring International Middle School		
Test Period: 02/13/18-02/16/18		
Kit Number	QC Type	Result
7984167	D (104)	0.7
7984183	FB (104)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:**SILVER SPRING INTERNATIONAL MIDDLE
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7984127	103E	2018-02-13 @ 1:00 pm	2018-02-16 @ 6:00 am	2.1 ± 0.4	2018-02-20
7984182	104	2018-02-13 @ 12:00 pm	2018-02-16 @ 6:00 am	0.7 ± 0.4	2018-02-20
7984183	104	2018-02-13 @ 12:00 pm	2018-02-16 @ 6:00 am	< 0.3	2018-02-20
7984167	104	2018-02-13 @ 12:00 pm	2018-02-16 @ 6:00 am	0.7 ± 0.3	2018-02-20
7984132	114D	2018-02-13 @ 12:00 pm	2018-02-16 @ 7:00 am	2.3 ± 0.4	2018-02-20
7984131	115K/KITCHEN OFF	2018-02-13 @ 12:00 pm	2018-02-16 @ 6:00 am	2.0 ± 0.4	2018-02-20
7984126	139	2018-02-13 @ 12:00 pm	2018-02-16 @ 7:00 am	0.8 ± 0.3	2018-02-20
7984125	140	2018-02-13 @ 12:00 pm	2018-02-16 @ 7:00 am	1.0 ± 0.4	2018-02-20
7984134	301	2018-02-13 @ 12:00 pm	2018-02-16 @ 7:00 am	0.9 ± 0.4	2018-02-20
7984176	303A	2018-02-13 @ 12:00 pm	2018-02-16 @ 7:00 am	1.1 ± 0.4	2018-02-20
7984184	BSO1	2018-02-13 @ 12:00 pm	2018-02-16 @ 7:00 am	1.8 ± 0.4	2018-02-20
7984130	BSO2	2018-02-13 @ 12:00 pm	2018-02-16 @ 6:00 am	3.5 ± 0.5	2018-02-20
7984129	F103	2018-02-13 @ 1:00 pm	2018-02-16 @ 6:00 am	1.8 ± 0.4	2018-02-20
7984185	KITCHEN	2018-02-13 @ 12:00 pm	2018-02-16 @ 7:00 am	1.2 ± 0.4	2018-02-20



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase

Names of Schools:

- 1. Westbrook Elementary School
- 2. Westland Middle School
- 3. Walt Whitman High School
- 4. Cloverly Elementary School
- 5. Sligo Middle School
- 6. Flora Singer Elementary School
- 7. Albert Einstein High School
- 8. Roscoe Nix Elementary School
- 9. Mario Loiederman Middle School
- 10. Sargent Shriver Elementary School
- 11. Whetstone Elementary School
- 12. Brooke Grove Elementary School
- 13. Clearspring Elementary School
- 14. Beall Elementary School
- 15. Maryvale Elementary School
- 16. Lathrop E. Smith Center
- 17. Laytonsville Elementary School
- 18. Germantown Elementary School
- 19. Spring Mill Center
- 20. Northwood High School
- 21. E. Silver Spring Elementary School
- 22. Silver Spring Int. Middle School
- 23. Clarksburg High School
- 24. Rosa Parks Middle School
- 25. Greenwood Elementary School
- 26. Montgomery Knolls Elem. School
- 27. Watkins Mill Elementary School
- 28. Gaithersburg Elementary School
- 29. Viers Mill Elementary School
- 30. Rock View Elementary School

	Date	Initials
Radon Test Kits Deployed	2/13/18	JM
Radon Test Kits Collected	2/16/18	JM
Radon Test Kits Shipped to Lab*	2/16/18	JM
Radon Test Kits Received by Lab*	2/20/18	JM

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

Radon test result report for:
OFFICE BLANKS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7979482	1	2018-02-13 @ 1:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986991	10	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7985684	11	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986987	12	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986993	13	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986990	14	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7979485	2	2018-02-13 @ 1:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7985686	3	2018-02-13 @ 1:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986995	4	2018-02-13 @ 1:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986989	5	2018-02-13 @ 1:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986998	6	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986986	7	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986985	8	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986997	9	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20

Radon test result report for:
TRANSIT BLANKS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7984188	1	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7984044	10	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986582	11	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986999	12	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7987000	13	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7984196	14	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986996	2	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986994	3	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7986992	4	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7985680	5	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7985698	6	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7985699	7	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7985700	8	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20
7985872	9	2018-02-13 @ 2:00 pm	2018-02-16 @ 2:00 pm	< 0.3	2018-02-20

February 28, 2018

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS - Spike Sample Laboratory Results. Measured values are satisfactory, i.e. within $\pm 25\%$ of the chamber's reference value (20.9 pCi/L).

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7984181	1	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	19.7 \pm 0.8	2018-02-21
7986621	2	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	19.4 \pm 0.8	2018-02-21
7985683	3	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	19.5 \pm 0.8	2018-02-21
7984168	4	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	20.5 \pm 0.8	2018-02-21
7986618	5	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	19.9 \pm 0.8	2018-02-21
7984169	6	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	20.4 \pm 0.8	2018-02-21

Air Chek, Inc. 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 183530

NOMINAL Conditions: Radon Conc 20.9 pCi/L Rel. Hum 49.8 % Temp. 79.1 F

Date Start: 2/16/18 Date Stop: 2/19/18 Date Start: _____ Date Stop: _____
Time Start: 1052 Time Stop: 1052 Time Start: _____ Time Stop: _____
Device No.'s: (6) Char. Bags Device No.'s: _____
7984181, 7986621, 7985683 _____
7984168, 7986618, 7984169 _____
G3 Middle

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



MCPS RADON TESTING - EXECUTIVE SUMMARY

Site Name	Silver Spring International Middle School
Date of Report	January 30, 2018
Round of Testing	Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested	53
# Rooms ≥ 4.0 pCi/L	0
Lowest Value	< 0.3 pCi/L
Highest Value	2 pCi/L

Project Status

Current Project Status at this time: Results satisfactory to date; missed locations to be sampled.



January 30, 2018

Mr. Richard Cox, MS
Team Leader
Montgomery County Public Schools
Division of Maintenance
Rockville, Maryland 20855

Re: Radon Testing Services

KCI Job #1214694182

Location: Silver Spring International Middle School

313 Wayne Ave.
Silver Spring , Maryland 20910

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “short-term” 3-day radon test for the Silver Spring International Middle School, located at 313 Wayne Ave. in Silver Spring , Maryland 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on November 27, 2017 and deployed sixty-eight (68) activated charcoal (AC) radon test kits. KCI deployed radon test kits in 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 Appendix A of this report.

As a quality control measure, KCI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) test kits to

Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner, Inc. prior to being returned to the laboratory for analysis.

KCI returned to the site on November 30, 2017 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, 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:

- 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 at 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 low-50s to mid-60s. Maximum sustained winds ranged from 8-15 miles per hour. Average humidity was around 65%. 0.02 Inches of precipitation was recorded during the testing period.

A magnitude 4.1 earthquake was reported on Thursday, November 30 near Dover, Delaware approximately 95 miles east of Gaithersburg, Maryland. The earthquake occurred during or just after the radon testing period for this facility. In general, enhanced radon emissions have been observed prior to earthquakes and this has been recorded all over the world, according to the research article entitled *Radon-222: A Potential Short-Term Earthquake Precursor*, published June 30, 2015 in the Journal of Earth Science and Climate

Change. The nearby earthquake, which occurred during or prior to the testing period, may have resulted in higher-than-normal radon test results for this facility.

RESULTS

The sampling locations, field observations, 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). Missing/compromised tests, missed rooms, and locked rooms 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	See Attachment B

Quality Control Samples	
Results of Blank Canisters:	The field blanks, office blank, 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 410-316-7800.

Sincerely,



James Moulds, CHMM
Radon Measurement Specialist
KCI Technologies, Inc.

Attachments:

B - Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

Radon Testing Results		
Silver Spring International Middle School		
Test Period: 11/27/17-11/30/17		
Kit Number	Room / Area	Result
7977427	105	0.8
7977459	106	0.9
7977411	107	0.7
7977425	110	1.0
7977403	111	< 0.3
7977428	112	1.3
7977436	113	1.3
7977406	114	1.5
7977431	114	2.0
7977422	115	1.7
7977426	115	1.4
7977407	117	0.7
7977409	120	0.6
7977438	123	0.7
7977442	123	0.6
7977437	126	< 0.3
7977443	127	0.7
7977435	128	0.7
7977440	129	0.6
7977439	130	1.6
7977185	131	1.9
7977183	132	< 0.3
7977434	133	1.3
7977182	134	1.1
7977191	135	< 0.3
7977441	136	1.1
7977190	137	1.5
7977432	138	0.9
7977181	139	< 0.3
7977189	140	< 0.3
7977199	242	< 0.3
7977200	244	0.6
7977187	245	0.5
7977195	246	0.7
7977192	247	0.6
7977193	300	0.8
7977188	308	0.9
7977412	105A	< 0.3
7977421	105C	< 0.3
7977445	105D	< 0.3
7977447	105E	< 0.3
7977402	105F	< 0.3
7977415	105G	0.8
7977416	105H	0.6
7977418	106B	0.6
7977413	106C	< 0.3

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Silver Spring International Middle School		
Test Period: 11/27/17-11/30/17		
Kit Number	Room / Area	Result
7977401	106E	0.7
7977458	106F	0.7
7977453	106G	< 0.3
7977446	107B	0.7
7977404	114B	1.4
7977414	114C	1.9
7977433	114E	1.2
7977184	114F	1.3
7977186	304A	0.6
7977194	BS01	1.5

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Silver Spring International Middle School		
Test Period: 11/27/17-11/30/17		
Kit Number	QC Type	Result
7977410	D (105)	0.5
7977424	D (105A)	0.5
7977420	D (105F)	< 0.3
7977430	D (106G)	< 0.3
7977423	D (110)	1.1
7977196	D (130)	1.7
7977198	D (139)	< 0.3
7977408	FB (105)	< 0.3
7977419	FB (106G)	< 0.3
7977405	FB (110)	< 0.3
7977417	FB (114B)	< 0.3
7977278	OB (OB)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

**SILVER SPRING INTERNATIONAL MS
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7977410	105	2017-11-27 @ 2:00 pm	2017-11-30 @ 12:00 pm	0.5 ± 0.3	2017-12-04
7977427	105	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-05
7977408	105	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977412	105A	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977424	105A	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.5 ± 0.3	2017-12-04
7977421	105C	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977445	105D	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977447	105E	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977402	105F	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977420	105F	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977415	105G	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-05
7977416	105H	2017-11-27 @ 2:00 pm	2017-11-30 @ 12:00 pm	0.6 ± 0.3	2017-12-05
7977459	106	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.9 ± 0.3	2017-12-04
7977418	106B	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7977413	106C	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977401	106E	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-05
7977458	106F	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-04
7977453	106G	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977430	106G	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977419	106G	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977411	107	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-04
7977446	107B	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-04
7977423	110	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-04
7977425	110	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-05
7977405	110	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977403	111	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977428	112	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.3 ± 0.4	2017-12-05
7977436	113	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.3 ± 0.3	2017-12-04
7977431	114	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	2.0 ± 0.3	2017-12-04
7977406	114	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.5 ± 0.4	2017-12-05
7977404	114B	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.4 ± 0.4	2017-12-05
7977417	114B	2017-11-27 @ 3:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-05
7977414	114C	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.9 ± 0.4	2017-12-05
7977433	114E	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.2 ± 0.3	2017-12-04
7977184	114F	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.3 ± 0.3	2017-12-05
7977426	115	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.4 ± 0.3	2017-12-04
7977422	115	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.7 ± 0.4	2017-12-05

Radon test result report for:

**SILVER SPRING INTERNATIONAL MS
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7977407	117	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-04
7977409	120	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7977442	123	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7977438	123	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-05
7977437	126	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977443	127	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.4	2017-12-04
7977435	128	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-05
7977440	129	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7977439	130	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	1.6 ± 0.4	2017-12-04
7977185	131	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.9 ± 0.3	2017-12-04
7977196	130	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.7 ± 0.4	2017-12-05
7977183	132	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977434	133	2017-11-27 @ 5:00 pm	2017-11-30 @ 11:00 am	1.3 ± 0.3	2017-12-04
7977182	134	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-04
7977191	135	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977441	136	2017-11-27 @ 5:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-04
7977190	137	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.5 ± 0.4	2017-12-05
7977432	138	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	0.9 ± 0.3	2017-12-05
7977198	139	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-04
7977181	139	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-04
7977189	140	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-04
7977199	242	2017-11-27 @ 5:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-04
7977200	244	2017-11-27 @ 5:00 pm	2017-11-30 @ 12:00 pm	0.6 ± 0.3	2017-12-04
7977187	245	2017-11-27 @ 5:00 pm	2017-11-30 @ 12:00 pm	0.5 ± 0.3	2017-12-04
7977195	246	2017-11-27 @ 5:00 pm	2017-11-30 @ 12:00 pm	0.7 ± 0.3	2017-12-05
7977192	247	2017-11-27 @ 5:00 pm	2017-11-30 @ 12:00 pm	0.6 ± 0.3	2017-12-04
7977193	300	2017-11-27 @ 6:00 pm	2017-11-30 @ 12:00 pm	0.8 ± 0.3	2017-12-05
7977186	304A	2017-11-27 @ 6:00 pm	2017-11-30 @ 12:00 pm	0.6 ± 0.3	2017-12-04
7977188	308	2017-11-27 @ 6:00 pm	2017-11-30 @ 12:00 pm	0.9 ± 0.3	2017-12-04
7977194	BS01	2017-11-27 @ 6:00 pm	2017-11-30 @ 12:00 pm	1.5 ± 0.3	2017-12-04
7977278	OB	2017-11-27 @ 2:00 pm	2017-11-30 @ 2:00 pm	< 0.3	2017-12-05



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase

Names of Schools:

- | | |
|--|---------------------------------------|
| 1. Montgomery Knolls Elementary School | 14. Flora Singer Elementary School |
| 2. New Hampshire Estates Elementary School | 15. Sligo Middle School |
| 3. Montgomery Blair High School | 16. Mario Loiederman Middle School |
| 4. Silver Creek Middle School | 17. Roscoe Nix Elementary School |
| 5. Sligo Creek Elementary School | 18. Sargent Shriver Elementary School |
| 6. East Silver Spring Elementary School | 19. |
| 7. Silver Spring International Middle School | 20. |
| 8. Woodlin Elementary School | 21. |
| 9. Northwood High School | 22. |
| 10. Spring Mill Center | 23. |
| 11. Westbrook Elementary School | 24. |
| 12. Westland Middle School | 25. |
| 13. Cloverly Elementary School | 26. |

	Date	Initials
Radon Test Kits Deployed	11/27/17	JM
Radon Test Kits Collected	11/30/17	JM
Radon Test Kits Shipped to Lab*	11/30/17	JM
Radon Test Kits Received by Lab*	12/04/17	JM

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

Radon test result report for:**TRANSIT 1****NONE**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7978062	TRANSIT 1	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975804	TRANSIT 10	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7977990	TRANSIT 11	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978201	TRANSIT 12	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978203	TRANSIT 13	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978206	TRANSIT 14	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7978246	TRANSIT 15	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7978239	TRANSIT 16	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7978226	TRANSIT 17	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7975078	TRANSIT 18	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7975077	TRANSIT 19	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7978074	TRANSIT 2	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975076	TRANSIT 20	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975684	TRANSIT 21	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975683	TRANSIT 22	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975601	TRANSIT 23	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978011	TRANSIT 24	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978012	TRANSIT 25	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978094	TRANSIT 26	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7975624	TRANSIT 27	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7834562	TRANSIT 28	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7977995	TRANSIT 29	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7978098	TRANSIT 3	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7977992	TRANSIT 30	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978719	TRANSIT 4	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-05
7978732	TRANSIT 5	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7978731	TRANSIT 6	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975806	TRANSIT 7	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975815	TRANSIT 8	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04
7975805	TRANSIT 9	2017-11-27 @ 4:00 pm	2017-11-30 @ 4:00 pm	< 0.3	2017-12-04

December 19, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS - Spike Sample Laboratory Results. Measured values are satisfactory, i.e. within $\pm 25\%$ of the chamber's reference value (27.7 pCi/L).

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7975075	S1	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	25.6 \pm 0.7	2017-12-07
7975064	S2	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	27.4 \pm 0.8	2017-12-07
7975063	S3	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	26.3 \pm 0.7	2017-12-07
7975065	S4	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	23.0 \pm 0.7	2017-12-07
7975069	S5	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	25.6 \pm 0.7	2017-12-07
7975070	S6	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	23.0 \pm 0.7	2017-12-07

Air Chek, Inc. 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 182393

NOMINAL Conditions: Radon Conc 27.7 pCi/L Rel. Hum 49.1 % Temp. 70.1 F

Date Start: 12/1/17 Date Stop: 12/4/17 Date Start: _____ Date Stop: _____

Time Start: 1049 Time Stop: 1049 Time Start: _____ Time Stop: _____

Device No.'s: (6) Char. Bags. Device No.'s: _____

7975075, 7975064, 7975063, _____

7975065, 7975069, 7975070 _____

F4 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 μ R/h Elevation = 820 ft



MCPS RADON TESTING

Executive Summary: Silver Spring International Middle School

Date of Test Report:	6/17/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	8
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	0.8

Project Status:

Post remediation testing completed; no further action at this time.



June 17, 2016

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: **Radon Testing Services**
KCI Job # 12146341.40

Location: Silver Spring International Middle School
313 Wayne Avenue
Silver Spring, MD 20910

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Silver Spring International Middle School, located at 313 Wayne Avenue in Silver Spring, Maryland 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on May 31, 2016 and deployed eleven (11) activated charcoal (AC) radon test kits. KCI deployed radon test kits in 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 included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) 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 June 03, 2016 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:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}$ F.

KCI concludes that the test period does not represent normal conditions when the building is significantly occupied due to the average outdoor temperatures being $> 65^{\circ}$ F. Based on the evaluation of test conditions, this test may not reasonably characterize radon hazards.

KCI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. KCI recorded observations of the following conditions in each room at 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.

Results:

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	

Notes:
D- Duplicate sample

The field blank, lab transit blanks, and office blank had test results of less than the laboratory detection limit of 0.3 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C). Laboratory results and exposure data for the spike samples are also included in Attachment C.

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) 316-7800.

Sincerely,



James M. Mouldale
Radon Measurement Specialist
KCI Technologies, Inc.

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank*

PM- Project Manager

QC- Quality Control

*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 17 testing.

Radon Testing Results		
Silver Spring International Middle		
Test Period: 05/31/16-06/03/16		
Kit Number	Room / Area	Result
7756828	105	< 0.3
7756834	105A	0.8
7756815	105C	< 0.3
7756833	105D	< 0.3
7756831	105E	0.6
7756817	105F	< 0.3
7756832	105G	0.7
7756816	105H	0.5

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Silver Spring International Middle		
Test Period: 05/31/16-06/03/16		
Kit Number	QC Type	Result
7756835	D (105A)	< 0.3
7756812	FB (105C)	< 0.3
7756819	OB (0)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

June 8, 2016 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
**SILVER SPRING INTERNATIONAL MIDDLE
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7756819	0	2016-05-31 @ 9:00 am	2016-06-03 @ 10:00 am	< 0.3	2016-06-07
7756828	105	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	< 0.3	2016-06-07
7756834	105A	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	0.8 ± 0.3	2016-06-07
7756835	105A	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	< 0.3	2016-06-07
7756812	105C	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	< 0.3	2016-06-07
7756815	105C	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	< 0.3	2016-06-07
7756833	105D	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	< 0.3	2016-06-07
7756831	105E	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	0.6 ± 0.3	2016-06-07
7756817	105F	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	< 0.3	2016-06-07
7756832	105G	2016-05-31 @ 10:00 am	2016-06-03 @ 9:00 am	0.7 ± 0.3	2016-06-07
7756816	105H	2016-05-31 @ 9:00 am	2016-06-03 @ 9:00 am	0.5 ± 0.3	2016-06-07

May 25, 2016 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

TRANSIT BLANKS

Phase 17

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7756626	TRANSIT	2016-05-10 @ 11:00 am	2016-05-16 @ 11:00 am	< 0.3	2016-05-17
7756803	TRANSIT	2016-05-16 @ 9:00 am	2016-05-19 @ 9:00 am	< 0.3	2016-05-23

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

May 27, 2016 **** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS

Spike Sample Results

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7756802	1	2016-05-20 @ 10:00 am	2016-05-23 @ 10:00 am	22.0 ± 0.7	2016-05-25
7756804	2	2016-05-20 @ 10:00 am	2016-05-23 @ 10:00 am	23.7 ± 0.7	2016-05-25
7756805	3	2016-05-20 @ 10:00 am	2016-05-23 @ 10:00 am	22.9 ± 0.7	2016-05-25
7756809	4	2016-05-20 @ 10:00 am	2016-05-23 @ 10:00 am	24.3 ± 0.7	2016-05-25
7756810	5	2016-05-20 @ 10:00 am	2016-05-23 @ 10:00 am	25.1 ± 0.7	2016-05-25
7756811	6	2016-05-20 @ 10:00 am	2016-05-23 @ 10:00 am	22.4 ± 0.7	2016-05-25

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

Note: Spike samples are test canisters that are deliberately exposed to a controlled high level of radon in a laboratory. They provide a quality control measure in the testing process and do NOT reflect radon levels in the building being tested.

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KEI Technologies Inc. Job Number 175202

NOMINAL Conditions: Radon Conc 25.6 pCi/L Rel. Hum 48.2 % Temp. 79.0 F

Date Start: 5/20/16 Date Stop: 5/23/16 Date Start: _____ Date Stop: _____

Time Start: 1026 Time Stop: 1026 Time Start: _____ Time Stop: _____

Device No.'s: (6) Char. Bags Device No.'s: _____

7756802, 7756804, 7756805, _____

7756809 thru 7756811 _____

E3 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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 17

Name of Schools:

1. Sligo Creek ES
2. Silver Spring International MS

	Date	Initials
Radon Test Kits Deployed	5/31/16	JM
Radon Test Kits Collected	6/3/16	JM
Radon Test Kits Shipped to Lab*	6/3/16	JM
Radon Test Kits Received by Lab*	6/7/16	JM

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



MCPS RADON TESTING

Executive Summary: Silver Spring International Middle School

Date of Test Report:	4/11/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	5
# Rooms \geq 4.0 pCi/L:	2
Low Value:	< 0.4
High Value:	10.6

Rooms with results \geq 4.0 pCi/L:
105C (10.6 pCi/L), 105D (4.7 pCi/L)

Project Status:

Retesting completed; use the average of the initial and re-test results in a room to determine if remediation is necessary.



April 11, 2016

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: **Radon Testing Services**
KCI Job # 12146341.32

Location: Silver Spring International Middle School
313 Wayne Avenue
Silver Spring, MD 20910

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Silver Spring International Middle School, located at 313 Wayne Avenue in Silver Spring, Maryland 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on March 14, 2016 and deployed six (6) activated charcoal (AC) radon test kits. KCI deployed radon test kits in 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 included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) test kits to TCS Industries Inc. as spike samples. The spiked tests were exposed to a known radon concentration by TCS prior to being returned to the laboratory for analysis.

KCI returned to the site on March 17, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is

a NRSB certified analytical laboratory for radon analysis (certification # ARL0007) located at 929 Mount Zion Road, Lebanon, Pennsylvania.

Evaluation of Testing Conditions:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}$ F.

KCI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

KCI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. KCI recorded observations of the following conditions in each room at 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.

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥ 4.0 pCi/L	105C	10.6, 9.0 (D)
	105D	4.7
< 4.0 pCi/L	See Attachment B	

Notes:
D- Duplicate sample

The office blanks and lab transit blanks had test results of less than the laboratory detection limit of 0.4 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C). Laboratory results and exposure data for the spike samples are also included in Attachment C.

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) 316-7800.

Sincerely,



James M. Mouldale
Radon Measurement Specialist
KCI Technologies, Inc.

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank*

PM- Project Manager

QC- Quality Control

*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 12 testing. Office blanks were not submitted under each school individually.

Radon Testing Results		
Silver Spring International MS		
Test Period: 03/14/16-03/17/16		
Kit Number	Room / Area	Result
3028804	103 E	2.3
3029007	105 C	10.6
3029004	105 D	4.7
3029006	106 E	<0.4
3028758	BS02	2.2

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Silver Spring International MS		
Test Period: 03/14/16-03/17/16		
Kit Number	QC Type	Result
3028760	D (105 C)	9.0

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

Silver Spring Inter. MS
313 Wayne Avenue
Silver Spring MD 20910

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3017499	3029007	03/14/2016 10:24 am 03/17/2016 10:19 am	Unit 105 C First Floor	10.6
3017500	3028760	03/14/2016 10:24 am 03/17/2016 10:19 am	Unit 105 C First Floor	9.0
3017501	3029004	03/14/2016 10:27 am 03/17/2016 7:05 am	Unit 105 D First Floor	4.7
3017502	3029006	03/14/2016 10:32 am 03/17/2016 7:03 am	Unit 106 E First Floor	<0.4
3017503	3028804	03/14/2016 10:36 am 03/17/2016 7:08 am	Unit 103 E First Floor	2.3
3017504	3028758	03/14/2016 10:56 am 03/17/2016 6:58 am	Unit B502 First Floor	2.2

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged: 03/21/2016 Date Analyzed: 03/21/2016 Date Reported: 03/22/2016

Report Reviewed By: Grace Heubling

Report Approved By: Carolyn D. Koke
Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Radon Device Type Open Face Canister

Send Written Report To:

Name KCI Technologies, Inc
 Address 936 Ridgebrook Road
 Address
 City / Town Sparks
 State/Province Postal Code MD 21152
 Report Country Baltimore County
 Email Address tehsin@kci.com

Site Tested:

Site Name Silver Springs Inter. MS.
 Address 313 Wayne Ave.
 Address
 City / Town Silver Spring
 State/Province Postal Code MD 20910
 Test Country Montgomery County
 Project Number 12146341

Contact Information:

Contact Tehsin Aurangabadwala
 Telephone 410-891-1726
 Technician
 Cert. Number
 Signature

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	Temp	Start Date mm/dd/yyyy	Start Time hh:mm am / pm	Stop Date mm/dd/yyyy	Stop Time hh:mm am / pm	Lab Use Only
	9007		105C	1		69	3/14/16	10:24	3/17/16	10:19	
	8760		105C	1			3/14/16	10:24		10:19	
	9004		105D	1			3/14/16	10:27		07:05	
	9006		106E	1				10:32		07:03	
	8804		103E	1				10:36		07:08	
	8758		B502	1				10:56		06:58	

NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

MCPS Radon Phase 12 Office Blank

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3017546	3029151	03/14/2016 9:30 am 03/17/2016 9:30 am	Unit # 0 Office First Floor	<0.4

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged: 03/21/2016 Date Analyzed: 03/21/2016 Date Reported: 03/22/2016

Report Reviewed By: Grace Heubling

Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

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NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

MCPS Radon Phase 12 Office Blank

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3017545	3029152	03/15/2016 9:30 am 03/18/2016 9:30 am	Unit # 0 Office First Floor	<0.4

Comment: A copy of this report was emailed to tehsin@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged: 03/21/2016 Date Analyzed: 03/21/2016 Date Reported: 03/22/2016

Report Reviewed By: Grace Heubling

Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

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NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

MCPS
Transit Blanks

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3010588	3028953	01/19/2016 1:00 pm	01/22/2016 9:30 am	1	< 0.4
3010589	3028955	01/19/2016 1:00 pm	01/22/2016 9:30 am	2	< 0.4
3010590	3028954	01/19/2016 1:00 pm	01/22/2016 9:30 am	3	< 0.4
3010591	3028997	01/19/2016 1:00 pm	01/22/2016 9:30 am	4	< 0.4

Comment: AMENDED REPORT for 3028953-8955, 3028997 on 2/22/16 to add all missing information from the blank datasheet. A copy of this report was emailed to james.mouldsdales@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 01/27/2016 Date Logged: 01/27/2016 Date Analyzed: 01/28/2016 Date Reported: 01/28/2016

Report Reviewed By: Christie Bates

Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

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Return canisters for analysis to:
AccuStar Labs
929 Mt. Zion Rd., Lebanon, PA 17046
800-523-4964

AccuStar Labs - Lebanon, PA
INFORMATION FORM - Large Buildings -
Projects - Apartments

Instructions on back of form
Read instructions carefully
Discrepancies will invalidate tests

Test Site Info

Name of Building/Project or Owner: Transit County: _____
 Site Address: Transit State: _____ Zip: _____
 City: _____ Email: _____

Projects Contact Name: Don Coale Phone: _____

Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)	Floor	Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM
3028953	Transit	1	1/19/16	approx: 09pm	1/22/16	9:30am
8955	Transit	1	1/19/16	↓	↓	↓
8954	Transit	1	1/19/16	↓	↓	↓
8997	Transit	1	1/19/16	↓	↓	↓

Do not use this form in New Jersey or Florida Call for correct forms.

LAB USE ONLY	
Wgt. Gain	pCi/L
	<0.4
	<0.4
	<0.4
	<0.4

Multi-Page Report Y-N

1/27/2016

KCI Technologies, Inc.
 3010588 3028953 ACPC275B EXP12/31/2018

Both Placed by and Retrieved by signatures are required
 Canisters placed by _____ # _____

Canisters retrieved by _____ # _____
 Owner waives confidentiality by signing here _____ Date 1/22/16

Were general operating conditions maintained?	Yes - No	explain if NO
Were closed building conditions maintained?	Yes - No	explain if NO
Normal Temp.	Yes - No	
Normal Humidity	Yes - No	
Windy Y-N	Rainy Y-N	

Send Results To: _____
 Company Name: KCI Tech
 Address: 936 Ridgebrook
 City: Sparks State: MD Zip: 21152
 Phone: 410-599-3826
 EMAIL Results to: James.Mouldale@kci.com

Make sure information is complete and correct.
 If a recalculation is requested there is a \$10.00 recalc fee PER Canister.

Mailing: PO Box 990 Jonestown, PA 17038
 Shipping: 929 Mt Zion Road, Lebanon, PA 17046
 800-523-4964 fax 717-274-5662
 NEHA 10511AL NRSB ARL 0007

TCS INDUSTRIES, INC.

(717) 657-7032

RADON GAS DETECTION

www.radondetek.com

4326 Crestview Road, Harrisburg, PA 17112

James Mouldsdale
KCI
936 Ridgebrook Rd.
Sparks, MD 21152

April 04, 2016

Dear Mr. Mouldsdale:

The spike exposure data were:

Start 04/04/16 @ 1110 hrs EDT
End 04/06/16 @ 1113 hrs EDT

AC 3029218, 3029219, 3029220, 3029217, 3029214, 3029217, and 3029166

Average radon concentration was 10.6 pCi/L +/- 5%

Avg. Temp. was 71F
Avg. RH was 51%
Elevation was 490 feet above sea level

Sincerely,



Carl H. Distenfeld, CHP

TCS Radon Chamber NRSB CHM 0002

NRPP 10511AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested:

KCI Technologies
936 Ridgebrook Rd
Sparks MD 21152

MCPS
Radon Spike Sample Laboratory Results

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3020102	3029166	04/04/2016 11:10 am 04/06/2016 11:13 am	Not Indicated	11.9
3020103	3029214	04/04/2016 11:10 am 04/06/2016 11:13 am	Not Indicated	11.5
3020104	3029217	04/04/2016 11:10 am 04/06/2016 11:13 am	Not Indicated	10.7
3020105	3029218	04/04/2016 11:10 am 04/06/2016 11:13 am	Not Indicated	11.3
3020106	3029219	04/04/2016 11:10 am 04/06/2016 11:13 am	Not Indicated	11.0
3020107	3029220	04/04/2016 11:10 am 04/06/2016 11:13 am	Not Indicated	10.5

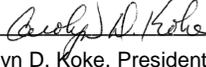
Comment: A copy of this report was emailed to james.moulsdale@kci.com.

Distributed by: KCI Technologies, Inc.

Date Received: 04/07/2016 Date Logged: 04/07/2016 Date Analyzed: 04/07/2016 Date Reported: 04/08/2016

Note: Spike samples are test canisters that are deliberately exposed to a controlled high level of radon in a laboratory. They provide a quality control measure in the testing process and do NOT reflect radon levels in the building being tested.

Report Reviewed By: 

Report Approved By: 
Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Send Written Report To:

Name: KCI Technologies, Inc
 Address: 936 Ridgebrook Road
 Address:
 City / Town: Sparks
 State/Province Postal Code: MD 21152
 Report Country: Baltimore County
 Email Address: tehsin@kci.com

Site Tested:

Site Name: MCRS
 Address: 850 Hagerford Dr
 Address:
 City / Town: Rockville
 State/Province Postal Code: MD 20850
 Test Country: Montgomery County
 Project Number: 12146341

Contact Information:

Contact: Tehsin Aurangabadwala
 Telephone: 410-891-1726
 Technician:
 Cert. Number:
 Signature: 

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	Temp	Start Date mm/dd/yyyy	Start Time hh:mm am / pm	Stop Date mm/dd/yyyy	Stop Time hh:mm am / pm	Lab Use Only
	3029166	1		1	1		4/4/16	11:10am	4/6/16	11:15am	
	3029214	1		1	2						
	3029217	1		1	3						
	3029218	1		1	4						
	3029219	1		1	5						
	3029220	1		1	6						



MCPS RADON TESTING

Executive Summary: Silver Spring International Middle School

Date of Test Report:	2/29/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	55
# Rooms \geq 4.0 pCi/L:	2
Low Value:	< 0.3
High Value:	9.0

Rooms with results \geq 4.0 pCi/L:
Room 105C (9.0 pCi/L), Room 105 D (4.1 pCi/L)

Project Status:

Initial testing completed; re-test needed for results \geq 4.0 pCi/L.
Initial testing completed; missing or compromised samples need re-test.



February 29, 2016

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: **Radon Testing Services**
KCI Job # 12146341.26

Location: Silver Spring International Middle School
313 Wayne Avenue
Silver Spring, MD 20910

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Silver Spring International Middle School, located at 313 Wayne Avenue in Silver Spring, Maryland 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 Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on February 1, 2016 and deployed sixty-seven (67) activated charcoal (AC) radon test kits. KCI deployed radon test kits in 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 included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) 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 4, 2016 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:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}$ F.

KCI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

KCI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. KCI recorded observations of the following conditions in each room at 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.

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥ 4.0 pCi/L	105C	9.0
	105D	4.1
< 4.0 pCi/L	See Attachment B	

Notes:
D- Duplicate sample

The field blanks, office blank, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C). Laboratory results and exposure data for the spike samples are also included in Attachment C.

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) 316-7800.

Sincerely,



James M. Mouldale
Radon Measurement Specialist
KCI Technologies, Inc.

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

Radon Testing Results		
Silver Spring International Middle		
Test Period: 02/01/16-02/04/16		
Kit Number	Room / Area	Result
7730215	104	1.3
7730201	105	2.4
7730216	106	1.0
7730224	107	1.8
7730227	110	1.3
7730226	111	< 0.3
7730236	112	1.5
7730237	113	1.7
7730238	114	2.2
7730239	114	2.7
7730230	115	1.3
7730234	117	0.9
7730235	120	0.7
7730244	123	0.6
7730246	126	0.8
7730247	128	0.7
7730248	129	0.6
7730249	130	2.3
7730251	131	1.9
7730252	132	0.6
7730253	133	2.1
7730254	134	1.4
7730255	135	1.1
7730256	136	1.0
7730257	137	1.7
7730258	138	0.8
7730259	139	0.9
7730261	140	1.3
7730264	244	0.6
7730263	246	0.9
7730262	247	0.9
7730265	301	1.5
7730266	303	1.0
7730214	103E	3.3
7730204	105A	1.4
7730206	105C	9.0
7730207	105D	4.1
7730208	105E	1.5
7730209	105F	< 0.3
7730211	105G	1.0
7730212	105H	1.7
7730217	106B	0.7
7730218	106C	0.6
7730223	* 106E (Tampered)	0.8
7730219	106F	< 0.3
7730220	106G	1.0

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Silver Spring International Middle		
Test Period: 02/01/16-02/04/16		
Kit Number	Room / Area	Result
7730225	107B	1.4
7730240	114B	2.6
7730241	114C	2.6
7730242	114D	1.9
7730243	114F	1.9
7730231	115K	1.4
7730260	139B	0.7
7730233	BSO1	1.8
7730232	BSO2	3.3
7730213	F103	2.4

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Silver Spring International Middle		
Test Period: 02/01/16-02/04/16		
Kit Number	QC Type	Result
7730202	D (105)	2.2
7730205	D (105A)	1.8
7730210	D (105F)	1.1
7730221	D (106G)	< 0.3
7730228	D (110)	1.3
7730245	D (123)	0.6
7730250	D (130)	2.5
7730203	FB (105)	< 0.3
7730222	FB (106G)	< 0.3
7730229	FB (110)	< 0.3
7729854	OB (0)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

February 23, 2016 **LABORATORY ANALYSIS REPORT** **

Radon test result report for:
SILVER SPRING INTERNATIONAL MIDDLE MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7729854	0	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	< 0.3	2016-02-09
7730214	103E	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	3.3 ± 0.5	2016-02-09
7730215	104	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.3 ± 0.4	2016-02-08
7730202	105	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	2.2 ± 0.4	2016-02-08
7730201	105	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	2.4 ± 0.5	2016-02-09
7730203	105	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	< 0.3	2016-02-09
7730204	105A	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.4 ± 0.4	2016-02-08
7730205	105A	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.8 ± 0.4	2016-02-09
7730206	105C	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	9.0 ± 0.8	2016-02-08
7730207	105D	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	4.1 ± 0.5	2016-02-08
7730208	105E	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.5 ± 0.4	2016-02-09
7730209	105F	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	< 0.3	2016-02-09
7730210	105F	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.1 ± 0.4	2016-02-09
7730211	105G	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.0 ± 0.3	2016-02-08
7730212	105H	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.7 ± 0.4	2016-02-09
7730216	106	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.0 ± 0.3	2016-02-08
7730217	106B	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	0.7 ± 0.4	2016-02-09
7730218	106C	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	0.6 ± 0.3	2016-02-08
7730223	106E	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	0.8 ± 0.4	2016-02-09
7730219	106F	2016-02-01 @ 12:00 pm	2016-02-04 @ 10:00 am	< 0.3	2016-02-09
7730222	106G	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	< 0.3	2016-02-08
7730220	106G	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.0 ± 0.4	2016-02-09
7730221	106G	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	< 0.3	2016-02-09
7730224	107	2016-02-01 @ 12:00 pm	2016-02-04 @ 10:00 am	1.8 ± 0.4	2016-02-09
7730225	107B	2016-02-01 @ 12:00 pm	2016-02-04 @ 10:00 am	1.4 ± 0.4	2016-02-09
7730227	110	2016-02-01 @ 12:00 pm	2016-02-04 @ 10:00 am	1.3 ± 0.3	2016-02-08
7730228	110	2016-02-01 @ 12:00 pm	2016-02-04 @ 10:00 am	1.3 ± 0.3	2016-02-08
7730229	110	2016-02-01 @ 12:00 pm	2016-02-04 @ 10:00 am	< 0.3	2016-02-08
7730226	111	2016-02-01 @ 12:00 pm	2016-02-04 @ 10:00 am	< 0.3	2016-02-08
7730236	112	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.5 ± 0.4	2016-02-09
7730237	113	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.7 ± 0.4	2016-02-09
7730238	114	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	2.2 ± 0.4	2016-02-08
7730239	114	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	2.7 ± 0.4	2016-02-08
7730240	114B	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	2.6 ± 0.4	2016-02-08
7730241	114C	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	2.6 ± 0.5	2016-02-09
7730242	114D	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.9 ± 0.4	2016-02-08
7730243	114F	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.9 ± 0.4	2016-02-08

February 23, 2016
**LABORATORY ANALYSIS
REPORT ****

Radon test result report for:
**SILVER SPRING INTERNATIONAL MIDDLE
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7730230	115	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.3 ± 0.4	2016-02-08
7730231	115K	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.4 ± 0.4	2016-02-08
7730234	117	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.9 ± 0.3	2016-02-08
7730235	120	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.7 ± 0.3	2016-02-08
7730244	123	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.6 ± 0.3	2016-02-08
7730245	123	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.6 ± 0.3	2016-02-08
7730246	126	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.8 ± 0.3	2016-02-08
7730247	128	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.7 ± 0.4	2016-02-09
7730248	129	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.6 ± 0.3	2016-02-09
7730249	130	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	2.3 ± 0.4	2016-02-08
7730250	130	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	2.5 ± 0.4	2016-02-08
7730251	131	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.9 ± 0.4	2016-02-08
7730252	132	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.6 ± 0.3	2016-02-09
7730253	133	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	2.1 ± 0.4	2016-02-08
7730254	134	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.4 ± 0.3	2016-02-08
7730255	135	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.1 ± 0.3	2016-02-08
7730256	136	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.0 ± 0.3	2016-02-08
7730257	137	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.7 ± 0.4	2016-02-09
7730258	138	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.8 ± 0.3	2016-02-08
7730259	139	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.9 ± 0.3	2016-02-08
7730260	139B	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.7 ± 0.3	2016-02-08
7730261	140	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.3 ± 0.4	2016-02-08
7730264	244	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.6 ± 0.3	2016-02-08
7730263	246	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.9 ± 0.3	2016-02-08
7730262	247	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	0.9 ± 0.3	2016-02-08
7730265	301	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.5 ± 0.4	2016-02-08
7730266	303	2016-02-01 @ 1:00 pm	2016-02-04 @ 10:00 am	1.0 ± 0.3	2016-02-08
7730233	BSO1	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	1.8 ± 0.4	2016-02-09
7730232	BSO2	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	3.3 ± 0.5	2016-02-09
7730213	F103	2016-02-01 @ 12:00 pm	2016-02-04 @ 9:00 am	2.4 ± 0.4	2016-02-08

February 23, 2016 **LABORATORY ANALYSIS REPORT** **

Radon test result report for:
TRANSIT- PHASE 7, 8, 9
NONE

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7734937	1	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734946	10	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734955	11	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734956	12	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734959	13	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734930	14	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734953	15	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734954	16	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734940	17	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734949	18	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734948	19	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734939	2	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734942	20	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734929	21	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734933	22	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734934	23	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734936	24	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734943	25	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734944	26	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734935	27	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734928	28	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734952	29	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734947	3	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734931	30	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734932	31	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718520	32	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718523	33	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718522	34	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718521	35	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734945	4	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734960	5	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734958	6	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734951	7	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734957	8	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734938	9	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23

February
15,
2016

****LABORATORY ANALYSIS
REPORT ****

Spike Sample Laboratory Results

Radon test result report for:
MCPS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7718273	101A	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.5 ± 0.6	2016-02-04
7718281	102B	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.4 ± 0.6	2016-02-04
7718282	103C	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.3 ± 0.6	2016-02-04
7718288	104D	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.7 ± 0.6	2016-02-04
7718289	105E	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.6 ± 0.6	2016-02-04
7718291	106F	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.5 ± 0.6	2016-02-04

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

Note: Spike samples are test canisters that are deliberately exposed to a controlled high level of radon in a laboratory. They provide a quality control measure in the testing process and do NOT reflect radon levels in the building being tested.

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCF Technologies Inc. Job Number 173704

NOMINAL Conditions: Radon Conc 5.9 pCi/L Rel. Hum 45.9 % Temp. 79.0 F

Date Start: 11/30/16 Date Stop: 2/1/16 Date Start: _____ Date Stop: _____

Time Start: 0926 Time Stop: 0926 Time Start: _____ Time Stop: _____

Device No.'s: (6) Char. Bags - Device No.'s: _____

7718281, 7718282, 7718291, _____

7718288, 7718289, 7718273 _____

ε3 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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 7 (2-1-2016)

Name of School/Facility:

- | | | |
|----------------------------|-----------------------------|----------------------------|
| 1. Wyngate E.S. | 10. Bethesda Depot | 18. Stone Mill E.S. |
| 2. Seven Locks E.S. | 11. Bethesda Trans Depot | 19. Strawberry Knoll E.S. |
| 3. Takoma Park M.S. | 12. Sligo M.S. | 20. Shady Grove M.S. |
| 4. Somerset E.S. | 13. Stonegate E.S. | 21. Washington Grove E.S. |
| 5. Silver Spring Int. M.S. | 14. Randolph Transportation | 22. Sherwood E.S. |
| 6. Sligo Creek E.S. | 15. Earl B. Wood M.S. | 23. Woodfield E.S. |
| 7. Tilden M.S. | 16. Sargent Shriver E.S. | 24. Taylor Learning Center |
| 8. Tilden Center | 17. Thomas Wooten H.S. | 25. Kingsley Wilderness |
| 9. Bethesda Annex | | |

	Date	Initials
Radon Test Kits Deployed	2/1/16	JM
Radon Test Kits Collected	2/4/16	JM
Radon Test Kits Shipped to Lab*	2/4/16	JM
Radon Test Kits Received by Lab*	2/8/16	JM

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 7 (2-2-2016)

Name of School/Facility:

- | | |
|--------------------------------|--------------------------------|
| 1. Concord Center | 8. Food & Nutritional Services |
| 2. Lynnbrook Center | 9. Fairland Center |
| 3. Carver (CESC) | 10. Redland M.S. (retest) |
| 4. Spring Mill (area 1 Office) | 11. Clarksburg Trans Depot |
| 5. Wheaton H.S | 12. Clarksburg Main Depot |
| 6. Montrose Center | 13. Clarksburg E.S. |
| 7. West Farm Trans Depot | |

	Date	Initials
Radon Test Kits Deployed	2/2/16	JM
Radon Test Kits Collected	2/5/16	JM
Radon Test Kits Shipped to Lab*	2/5/16	JM
Radon Test Kits Received by Lab*	2/9/16	JM

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