

School / Facility Radon Testing Report Form

Instructions: Submit one testing report form per-facility per-round of testing. 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 $\geq 2.0\text{-pCi/L}$; $\geq 2.7\text{-pCi/L}$; $\geq 4.0\text{-pCi/L}$; and $\geq 8.0\text{-pCi/L}$;
- *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.

School Year: **23-24**

Facility:	Sligo Middle School
Address:	1401 Dennis Avenue
	Silver Spring, MD 20904

Reason for Testing:	<input checked="" type="checkbox"/> Scheduled Re-Testing (2 or 5-year schedule) <input type="checkbox"/> Clearance Testing (Post-Mitigation) <input type="checkbox"/> System(s) Performance Testing (Post-Mitigation) <input type="checkbox"/> New Construction/Facility
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
Round of Testing:	<input checked="" type="checkbox"/> Initial Testing -or- <input 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 checked="" type="checkbox"/> Not Required or Considered <input type="checkbox"/> Required ($>8.0\text{-pCi/L}$) <input type="checkbox"/> Required ($\geq 4.0\text{-pCi/L}$) <input type="checkbox"/> Consider (≥ 2.0 & $<4.0\text{-pCi/L}$)	<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)

School / Facility Radon Testing Report Form

Detector and Deployment

Detector/Device Type:	<input checked="" type="checkbox"/> Passive	<input checked="" type="checkbox"/> Charcoal Absorption (CAD)	<input type="checkbox"/> Alpha Track (ATD)	<input type="checkbox"/> Other
	<input type="checkbox"/> Continuous	<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	
Tyler McCleaf			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	Length of Test (days):	3	Date of Deployment and Retrieval (mm/dd/yy):	01/23/24
<input type="checkbox"/> Long-Term				01/26/24
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>				

School / Facility Radon Testing Report Form

Testing (continued)

Detectors Deployed			
	Ground-Contact	Upper-Level(s)	Total
Test Locations ¹	80	2	82
Duplicates ²	8	1	9
Field Blanks ³	5	0	5
	Grand Total		96

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.

Spike Samples ¹	6	Trip Blank(s) ²	1	Office Blank(s) ^{3,4}	1
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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.

Spike Sample Lab Results. Measured values are satisfactory, i.e., within ± 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 QA plan previously submitted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Quality Assurance / Quality Control (QA/QC) (continued)

If "No" to either, please describe any QC measurements that were missing or outside of control tolerances established in the QAP here:

Summary of Test Results¹ and Determination of Valid Measurements²

	Ground-Contact	Upper-Level(s)	Total
Number of test locations:	80	2	82
Number of locations $\geq 8.0\text{-pCi/L}$:	0	0	0
Number of locations ≥ 4.0 and $\leq 8\text{-pCi/L}$:	0	0	0
Number of locations ≥ 2.7 and $\leq 4\text{-pCi/L}$:	0	0	0
Number of locations ≥ 2.0 and $\leq 4\text{-pCi/L}$:	1	0	1
Number of missing required test locations ³ :	0	0	0
Percentage of missing test locations for the facility ^{4,5} :	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 $<4.0\text{-pCi/L}$ 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 $\geq 4.0\text{-pCi/L}$ 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.



School / Facility Radon Testing Report Form

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

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
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes to both above – then Testing Status – ‘No Further Testing Needed’ mark ‘NA’ below and complete Conclusions section	
If No to either above, were all results obtained under 4.0-pCi/L and were there sufficient valid measurements obtained? ^{1,2} If Yes – then Testing Status - ‘No Further Testing Needed’ complete Conclusion section If No, then Testing Status - ‘Follow-up Testing Required’ continue below	<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.

- If ‘No Further Testing Needed’ complete conclusions section on first page.
- If ‘Follow-up Testing Required’ – complete Follow-up Testing described below and the conclusion section on the first page for only the valid measurements/results obtained

Follow-Up Testing (if required)

Required if –

- 1- Not enough valid results were obtained from a facility (table above);
- 2- Any results ≥ 4.0 – pCi/L; and
- 3- At the discretion of MCPS IAQ Staff

Follow-up Testing:

- 1- If an insufficient number of valid measurements obtained during initial round:
 - o return to facility to test locations that require valid measurements
- 2- Follow-up Testing for valid measurements ≥ 4.0-pCi/L

Initial Result(s)	Procedure	Follow-up Result	Conclusion
≥ 4.0-pCi/L	1- Short-term follow-up test 2- Average the results of the two tests	≥4.0	Mitigation Required
		<4.0 but >2.0	Consider Mitigation
		<2.0	Not Required or Considered

- Complete second School/Facility Radon Testing Report Form for only Follow-up Testing locations.

Attachment 1:

Summary Data Tables

Table 1- Radon Testing Results		
Sligo Middle School		
Test Period: 01/23/2024 - 01/26/2024		
Kit Number	Room / Area	Result
11463581	13	1.0
11463582	15	< 0.3
11463562	17	0.8
11463554	19	< 0.3
11463561	19	0.6
11463555	21	< 0.3
11463564	22	< 0.3
11463563	23	< 0.3
11463548	24	< 0.3
11463556	25	< 0.3
11463545	26	< 0.3
11463530	28	< 0.3
11463538	28	< 0.3
11463576	29	< 0.3
11463580	30	< 0.3
11463572	32	< 0.3
11463579	32	< 0.3
11463507	100	1.3
11463515	101	< 0.3
11463516	101	< 0.3
11463517	102	0.8
11463532	103	< 0.3
11463533	103	0.7
11463502	104	< 0.3
11463534	105	< 0.3
11463512	106	< 0.3
11463505	107	< 0.3
11463519	108	< 0.3
11463506	109	< 0.3
11463559	110	1.0
11463558	111	< 0.3
11463529	112	0.8
11463557	113	< 0.3
11463560	114	0.8
11463567	116	1.1
11463540	118	1.7
11463565	119	< 0.3
11463566	119	< 0.3

Table 1- Radon Testing Results		
Sligo Middle School		
Test Period: 01/23/2024 - 01/26/2024		
11463573	122	0.5
11463574	122	< 0.3
11463537	127	< 0.3
11463590	214	0.7
11463584	217	< 0.3
11463591	217	< 0.3
11463571	021A	< 0.3
11463546	027B	< 0.3
11463547	027C	< 0.3
11463525	101 CONFERENCE	0.6
11463526	101 INFANTS ROOM	0.5
11463518	101 OFFICE	< 0.3
11463524	101 OFFICE	< 0.3
11463531	101/103	0.7
11463539	103A	< 0.3
11463527	103B	< 0.3
11463549	111A	0.6
11463552	111B	< 0.3
11287178	ASP	< 0.3
11287172	ASP1	0.8
11463509	BACON	< 0.3
11463553	BASEMENT LOUNGE	< 0.3
11463543	BLR	0.6
11287162	CAFE	< 0.3
11463501	CAFE	0.5
11287161	CAFE OFFICE	0.5
11463508	CHAMBERS	< 0.3
11463510	CHERIF	< 0.3
11287171	CONFERENCE	< 0.3
11463544	DANCE	0.6
11287154	FINANCE	< 0.3
11463550	GIRLS GYM OFFICE	0.9
11463551	GLR	< 0.3
11463503	GUIDANCE	< 0.3
11463504	GUIDANCE CONFERENCE	< 0.3
11463520	GYM	0.6
11463528	GYM	< 0.3
11463541	GYM OFFICE	0.9
11463542	GYM OFFICE	0.8
11463523	IEP	< 0.3

Table 1- Radon Testing Results		
Sligo Middle School		
Test Period: 01/23/2024 - 01/26/2024		
11463513	M1	1.3
11463514	M2	2.0
11463521	M2	1.5
11287169	MAILROOM	< 0.3
11287177	MAIN OFFICE	< 0.3
11463568	MEDIA	< 0.3
11463522	MUSIC OFFICE	1.5
11287164	PRINCIPAL	< 0.3
11287163	SECRETARY	< 0.3
11287153	STAFF LOUNGE	< 0.3
11287170	STAFF LOUNGE	< 0.3
11463511	TIPTON	< 0.3
11463535	WEIGHT ROOM	< 0.3
11463536	WEIGHT ROOM	< 0.3
11463575	WORKROOM	0.6

Table 2 - Summary Testing Results ≥2.0 pCi/L

Sligo Middle School

Test Period: 01/23/2024 - 01/26/2024

Table 3 - QC Radon Testing Results			
Sligo Middle School			
Test Period: 01/23/2024 - 01/26/2024			
Kit Number	QC Type	Room / Area	Result
11463554	D	19	< 0.3
11463572	FB	32	< 0.3
11463532	D	103	< 0.3
11463566	FB	119	< 0.3
11463574	D	122	< 0.3
11463584	D	217	< 0.3
11463524	D	101 office	< 0.3
11463541	D	Gym office	0.9
11463515	FB	Infants and toddlers	< 0.3
11463514	D	M2	2.0
11287170	D	Staff lounge	< 0.3
11463535	FB	Weight room	< 0.3
11463647	TB	TRAVEL BLANK	< 0.3
11463691	OB	OFFICE BLANK	< 0.3

Table 4 - Summary of Invalid Measurement Locations

Sligo Middle School

Test Period: 01/23/24 - 01/26/24

Attachment 2:

Laboratory Reports

Radon test result report for:
SLIGO MS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11463581	013	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	1.0 ± 0.3	2024-01-30
11463582	015	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463562	017	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	0.8 ± 0.3	2024-01-30
11463561	019	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	0.6 ± 0.3	2024-01-30
11463554	019	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463555	021	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463571	021A	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463564	022	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463563	023	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463548	024	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463556	025	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463545	026	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463546	027B	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463547	027C	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463530	028	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463538	028	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463576	029	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463580	030	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463572	032	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463579	032	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463507	100	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	1.3 ± 0.3	2024-01-30
11463516	101	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463515	101	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463525	101 CONFERENCE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.6 ± 0.3	2024-01-30
11463526	101 INFANTS ROOM	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.5 ± 0.3	2024-01-30
11463518	101 OFFICE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463524	101 OFFICE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463531	101/103	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.7 ± 0.3	2024-01-30
11463517	102	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.8 ± 0.3	2024-01-30
11463532	103	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463533	103	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.7 ± 0.3	2024-01-30
11463539	103A	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463527	103B	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463502	104	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463534	105	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463512	106	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463505	107	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30

Radon test result report for:
SLIGO MS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11463519	108	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463506	109	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463559	110	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	1.0 ± 0.3	2024-01-30
11463558	111	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463549	111A	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	0.6 ± 0.3	2024-01-30
11463552	111B	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463529	112	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	0.8 ± 0.3	2024-01-30
11463557	113	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463560	114	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	0.8 ± 0.3	2024-01-30
11463567	116	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	1.1 ± 0.3	2024-01-30
11463540	118	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	1.7 ± 0.4	2024-01-30
11463566	119	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463565	119	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463574	122	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463573	122	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	0.5 ± 0.3	2024-01-30
11463537	127	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463590	214	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	0.7 ± 0.3	2024-01-30
11463584	217	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463591	217	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11287178	ASP	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11287172	ASP1	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.8 ± 0.4	2024-01-30
11463509	BACON	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463553	BASEMENT LOUNGE	2024-01-23 @ 12:00 pm	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463543	BLR	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	0.6 ± 0.3	2024-01-30
11287162	CAFE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463501	CAFE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.5 ± 0.3	2024-01-30
11287161	CAFE OFFICE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	0.5 ± 0.3	2024-01-30
11463508	CHAMBERS	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463510	CHERIF	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11287171	CONFERENCE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463544	DANCE	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	0.6 ± 0.3	2024-01-30
11287154	FINANCE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463550	GIRLS GYM OFFICE	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	0.9 ± 0.3	2024-01-30
11463551	GLR	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463503	GUIDANCE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463504	GUIDANCE CONFERENCE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463528	GYM	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30

January 30, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SLIGO MS
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11463520	GYM	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	0.6 ± 0.3	2024-01-30
11463541	GYM OFFICE	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	0.9 ± 0.3	2024-01-30
11463542	GYM OFFICE	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	0.8 ± 0.3	2024-01-30
11463523	IEP	2024-01-23 @ 10:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463513	M1	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	1.3 ± 0.4	2024-01-30
11463514	M2	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	2.0 ± 0.4	2024-01-30
11463521	M2	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	1.5 ± 0.3	2024-01-30
11287169	MAILROOM	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11287177	MAIN OFFICE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463568	MEDIA	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	< 0.3	2024-01-30
11463522	MUSIC OFFICE	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	1.5 ± 0.4	2024-01-30
11287164	PRINCIPAL	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11287163	SECRETARY	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11287170	STAFF LOUNGE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11287153	STAFF LOUNGE	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463511	TIPTON	2024-01-23 @ 10:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463535	WEIGHT ROOM	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463536	WEIGHT ROOM	2024-01-23 @ 11:00 am	2024-01-26 @ 9:00 am	< 0.3	2024-01-30
11463575	WORKROOM	2024-01-23 @ 11:00 am	2024-01-26 @ 10:00 am	0.6 ± 0.4	2024-01-30

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

February 27, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MAIN
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477882	022	2024-02-20 @ 10:00 am	2024-02-23 @ 11:00 am	0.9 ± 0.3	2024-02-27
11477885	022	2024-02-20 @ 10:00 am	2024-02-23 @ 11:00 am	< 0.3	2024-02-27
11477886	022	2024-02-20 @ 10:00 am	2024-02-23 @ 11:00 am	1.1 ± 0.3	2024-02-27

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

January 30, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
KCI
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11463691	OB	2024-01-23 @ 8:00 am	2024-01-26 @ 2:00 pm	< 0.3	2024-01-30
11463647	TB	2024-01-23 @ 8:00 am	2024-01-26 @ 2:00 pm	< 0.3	2024-01-30

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February 27, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
KCI
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477832	OB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27
11482793	OB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27
11477841	TB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27
11482795	TB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27

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January 29, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
STORAGE
KCI

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11635097	Storage	2024-01-07 @ 9:00 am	2024-01-11 @ 9:00 am	< 0.3	2024-01-15

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 213327

NOMINAL Conditions: Radon Conc 49.5 pCi/L Rel. Hum 24.7 % Temp. 69.8 F

Date Start: 1/19/24 Date Stop: 1/23/24

Date Start: _____ Date Stop: _____

Time Start: 0831 Time Stop: 0831

Time Start: _____ Time Stop: _____

Device No.'s: (6)CHAR TBAGS -

Device No.'s: _____

11284003, 11284005, 11284006

11284007, 11284008, 11284013

F3 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

January 29, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
BOWSER MORNER
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11284003	SK	2024-01-19 @ 9:00 am	2024-01-22 @ 9:00 am	47.0 ± 3.8	2024-01-29
11284005	SK	2024-01-19 @ 9:00 am	2024-01-22 @ 9:00 am	43.4 ± 3.5	2024-01-29
11284006	SK	2024-01-19 @ 9:00 am	2024-01-22 @ 9:00 am	42.1 ± 3.4	2024-01-29
11284007	SK	2024-01-19 @ 9:00 am	2024-01-22 @ 9:00 am	46.4 ± 3.7	2024-01-29
11284008	SK	2024-01-19 @ 9:00 am	2024-01-22 @ 9:00 am	46.2 ± 3.7	2024-01-29
11284013	SK	2024-01-19 @ 9:00 am	2024-01-22 @ 9:00 am	45.6 ± 3.6	2024-01-29

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 213819

NOMINAL Conditions: Radon Conc 50.0 pCi/L Rel. Hum 28.9 % Temp. 69.1 F

Date Start: 2/23/24 Date Stop: 2/26/24 Date Start: _____ Date Stop: _____

Time Start: 0812 Time Stop: 0812 Time Start: _____ Time Stop: _____

Device No.'s: (6) CHAR BAGS Device No.'s: _____

11478400, 11477842, 11477845, _____

11477852, 11477996, 11477999 _____

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

March 1, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
FEB SK
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477842	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	50.3 ± 4.0	2024-03-01
11477845	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	55.3 ± 4.4	2024-03-01
11477852	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	49.4 ± 4.0	2024-03-01
11477996	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	49.8 ± 4.0	2024-03-01
11477999	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	55.4 ± 4.4	2024-03-01
11478400	NA	2024-02-23 @ 8:00 am	2024-02-26 @ 8:00 am	47.0 ± 3.8	2024-03-01

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



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Corporate Office: 936 Ridgebrook road • Sparks , Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing January 23rd to January 26th

Name of Schools:

1. Thomas S. Wootton HS
2. Sligo MS
3. White Oak MS
4. Rosa M. Parks MD
5. Clopper Mill ES
6. Thomas W. Pyle MS
7. Burnt Mills ES

	Date	Initials
Radon Test Kits Deployed	01/23/2024	
Radon Test Kits Collected	01/26/2024	
Radon Test Kits Shipped to Lab*	01/26/2024	
Radon Test Kits Received by Lab*	01/30/2024	

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



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Corporate Office: 936 Ridgebrook road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Retesting February 20th to the 23rd 2024

Name of Schools:

1. Fields Road ES
2. Highland View ES
3. John T. Baker MS
4. Sligo MS
5. White Oak MS
6. Laytonsville ES
7. Herbert Hoover MS
8. Thomas Wooton HS
9. Fairland ES
10. Cabin Branch ES
11. John F. Kennedy HS
12. Jackson Road ES
13. Clarksburg HS
14. North Chevy Chase ES

	Date	Initials
Radon Test Kits Deployed	02/20/2024	JM
Radon Test Kits Collected	02/23/2024	JM
Radon Test Kits Shipped to Lab*	02/23/2024	JM
Radon Test Kits Received by Lab*	02/27/2024	JM

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

Attachment 3:

Sampling Location Map



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MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Sligo 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	102
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.7 pCi/L

Project Status:
Initial testing completed; No further action needed



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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: Sligo Middle School
1401 Dennis Ave.
Silver Spring, MD 20902

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 Sligo Middle School, located at 1401 Dennis Ave. Silver Spring, MD 20902 (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 15, 2022 and deployed one hundred seventeen (117) 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 18, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheek, Inc. for analysis by gamma-ray spectroscopy. Aircheek, 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 piC/L	None	N/A
<4.0 piC/L		See Attachment B

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

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

Sincerely,



Tyler 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		
Sligo MS		
Test Period: 03/15/2022 - 03/18/2022		
Kit Number	Room / Area	Result
11139643	13	1.2
11139645	15	0.7
11139608	17	1.0
11139606	19	0.6
11139607	21	1.1
11139635	22	0.6
11139642	23	0.5
11139646	24	< 0.3
11139647	24	< 0.3
11139636	25	< 0.3
11139644	26	< 0.3
11139640	27	< 0.3
11139662	28	< 0.3
11139663	29	< 0.3
11139654	31	< 0.3
11139205	100	< 0.3
11139229	101	< 0.3
11139204	102	0.5
11139225	103	< 0.3
11139209	104	< 0.3
11139218	105	< 0.3
11139219	105	< 0.3
11139231	105	< 0.3
11139227	106	0.7
11139220	107	0.6
11139228	108	< 0.3
11139230	109	< 0.3
11139688	110	0.6
11139699	111	< 0.3
11139687	112	1.2
11139691	112	1.4
11139700	113	0.8
11139679	114	1.2
11139689	115	0.6
11139680	116	1.7
11139683	117	0.6
11139652	118	1.3
11139653	118	0.7
11139657	118	1.2
11139676	119	< 0.3
11139671	120	< 0.3
11139678	121	0.6

Table 1- Radon Testing Results		
Sligo MS		
Test Period: 03/15/2022 - 03/18/2022		
Kit Number	Room / Area	Result
11139672	122	0.6
11139656	123	< 0.3
11139673	124	< 0.3
11139655	125	< 0.3
11139665	125	< 0.3
11139669	126	< 0.3
11139682	127	0.6
11139667	128	< 0.3
11139670	129	< 0.3
11139666	130	< 0.3
11139674	131	< 0.3
11139675	131	< 0.3
11139677	131	< 0.3
11139681	132	< 0.3
11139242	217	0.7
11139251	218	0.7
11139641	022A	< 0.3
11139661	027A	< 0.3
11139214	101 CR	0.6
11139223	101A	0.7
11139217	101B	0.7
11139232	101C	< 0.3
11139210	101D	< 0.3
11139221	102 CR	< 0.3
11139222	102 CR	< 0.3
11139697	111A	< 0.3
11139686	111B	< 0.3
11139693	111B	< 0.3
11139696	111B	< 0.3
11139692	113A	0.7
11139690	113B	0.6
11139249	ADMINISTRATIVE SECRETARY OFFICE	< 0.3
11139253	ASSISTANT PRINCIPAL OFFICE	< 0.3
11139259	ASSISTANT PRINCIPAL OFFICE	< 0.3
11139639	BLDG SERVICES OFFICE	1.4
11139207	BOYS LOCKER ROOM	0.7
11139208	BOYS PE OFFICE	0.9
11139206	CAFETERIA	0.8
11139211	CAFETERIA	0.6
11139649	COMMUNICATION CENTER	0.6
11139202	DANCE STUDIO	< 0.3
11139226	DANCE STUDIO	< 0.3

Table 1- Radon Testing Results		
Sligo MS		
Test Period: 03/15/2022 - 03/18/2022		
Kit Number	Room / Area	Result
11139213	FINANCE OFFICE	< 0.3
11139216	GIRLS LOCKER ROOM	0.7
11139234	GIRLS PE OFFICE	0.6
11139241	GO 1	< 0.3
11139256	GO 2	< 0.3
11139260	GO 3	< 0.3
11139246	GO 4	< 0.3
11139203	GO CR	0.6
11139245	GUIDANCE OFFICE	< 0.3
11139255	GUIDANCE OFFICE	< 0.3
11139258	GUIDANCE OFFICE	< 0.3
11139233	GYM	0.7
11139236	GYM	0.9
11139239	HEALTH OFFICE	< 0.3
11139240	HEALTH ROOM	< 0.3
11139212	KITCHEN OFFICE	0.8
11139648	LOWER LEVEL LOUNGE	0.6
11139698	M-1	0.6
11139685	M-2	0.7
11139694	M-2 OFFICE	0.7
11139250	MAIN OFFICE	< 0.3
11139252	MAIN OFFICE CONFERENCE ROOM	< 0.3
11139254	MAIN OFFICE CONFERENCE ROOM	< 0.3
11139658	MEDIA CENTER	0.6
11139660	MEDIA CENTER	0.7
11139650	MEDIA CENTER WORK ROOM	0.5
11139651	MEDIA SPECIALIST OFFICE	0.7
11139224	PE 2 WEIGHT ROOM	0.6
11139257	PRINCIPAL OFFICE	< 0.3
11139248	STAFF WORK ROOM	< 0.3
11139664	STAFF WORK ROOM	< 0.3
11139684	TEAM ROOM B	0.9
11139668	TEAM ROOM C	< 0.3

Table 2- Radon Testing Results			
Sligo MS			
Test Period: 03/15/2022 - 03/18/2022			
Kit Number	QC Type	Room / Area	Result
11139646	D	24	< 0.3
11139652	D	118	1.3
11139653	FB	118	0.7
11139665	D	125	< 0.3
11139675	D	131	< 0.3
11139677	FB	131	< 0.3
11139691	D	112	1.4
11139693	D	111B	< 0.3
11139686	FB	111B	< 0.3
11139226	D	Dance Studio	< 0.3
11139231	D	105	< 0.3
11139218	FB	105	< 0.3
11139222	D	102 CR	< 0.3
11139255	D	Guidance Office	< 0.3
11139245	FB	Guidance Office	< 0.3
11138953	OB	OFFICE BLANK	< 0.3
11138945	TB	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Sligo MS		
Test Period: 03/15/22 - 03/18/22		
Kit Number	Room/Area	Result
	NA	

Summary of Missing, Compromised and >/= 4 piC/L Tests		
Sligo MS		
Test Period: 03/15/22 - 03/18/22		
Kit Number	Room/Area	Result
	NA	

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

**** LABORATORY ANALYSIS REPORT ****Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139643	013	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	1.2 ± 0.3	2022-03-21
11139645	015	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	0.7 ± 0.3	2022-03-21
11139608	017	2022-03-15 @ 9:00 am	2022-03-18 @ 12:00 pm	1.0 ± 0.3	2022-03-21
11139606	019	2022-03-15 @ 9:00 am	2022-03-18 @ 12:00 pm	0.6 ± 0.3	2022-03-21
11139607	021	2022-03-15 @ 9:00 am	2022-03-18 @ 12:00 pm	1.1 ± 0.3	2022-03-21
11139635	022	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	0.6 ± 0.3	2022-03-21
11139641	022A	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139642	023	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	0.5 ± 0.3	2022-03-21
11139646	024	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139647	024	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139636	025	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139644	026	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139640	027	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139661	027A	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139662	028	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139663	029	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139654	031	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139205	100	2022-03-15 @ 2:00 pm	2022-03-18 @ 12:00 pm	< 0.3	2022-03-21
11139229	101	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139214	101 CR	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.6 ± 0.3	2022-03-21
11139223	101A	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139217	101B	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139232	101C	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139210	101D	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139204	102	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	0.5 ± 0.3	2022-03-21
11139221	102 CR	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139222	102 CR	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139225	103	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139209	104	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139231	105	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139218	105	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139219	105	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139227	106	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139220	107	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.6 ± 0.3	2022-03-21
11139228	108	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139230	109	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139688	110	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21

**** LABORATORY ANALYSIS REPORT ****Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139699	111	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139697	111A	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139693	111B	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139686	111B	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139696	111B	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139687	112	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	1.2 ± 0.3	2022-03-21
11139691	112	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	1.4 ± 0.3	2022-03-21
11139700	113	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	0.8 ± 0.3	2022-03-21
11139692	113A	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	0.7 ± 0.3	2022-03-21
11139690	113B	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139679	114	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	1.2 ± 0.3	2022-03-21
11139689	115	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139680	116	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	1.7 ± 0.3	2022-03-21
11139683	117	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139657	118	2022-03-15 @ 10:00 am	2022-03-18 @ 10:00 am	1.2 ± 0.3	2022-03-21
11139652	118	2022-03-15 @ 10:00 am	2022-03-18 @ 10:00 am	1.3 ± 0.3	2022-03-21
11139653	118	2022-03-15 @ 10:00 am	2022-03-18 @ 10:00 am	0.7 ± 0.3	2022-03-21
11139676	119	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139671	120	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139678	121	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139672	122	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139656	123	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139673	124	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139665	125	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139655	125	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139669	126	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139682	127	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139667	128	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139670	129	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139666	130	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139675	131	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139674	131	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139677	131	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139681	132	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139242	217	2022-03-15 @ 3:00 pm	2022-03-18 @ 12:00 pm	0.7 ± 0.3	2022-03-21
11139251	218	2022-03-15 @ 3:00 pm	2022-03-18 @ 12:00 pm	0.7 ± 0.3	2022-03-21
11139249	ADMINISTRATIVE SECRETARY OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21

**** LABORATORY ANALYSIS REPORT ****Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139259	ASSISTANT PRINCIPAL OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139253	ASSISTANT PRINCIPAL OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139639	BLDG SERVICES OFFICE	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	1.4 ± 0.3	2022-03-21
11139207	BOYS LOCKER ROOM	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139208	BOYS PE OFFICE	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.9 ± 0.3	2022-03-21
11139211	CAFETERIA	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	0.6 ± 0.3	2022-03-21
11139206	CAFETERIA	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	0.8 ± 0.3	2022-03-21
11139649	COMMUNICATION CENTER	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139202	DANCE STUDIO	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139226	DANCE STUDIO	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139213	FINANCE OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139216	GIRLS LOCKER ROOM	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139234	GIRLS PE OFFICE	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	0.6 ± 0.3	2022-03-21
11139241	GO 1	2022-03-15 @ 3:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139256	GO 2	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139260	GO 3	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139246	GO 4	2022-03-15 @ 3:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139203	GO CR	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	0.6 ± 0.3	2022-03-21
11139255	GUIDANCE OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139258	GUIDANCE OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139245	GUIDANCE OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	< 0.3	2022-03-21
11139236	GYM	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	0.9 ± 0.3	2022-03-21
11139233	GYM	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139239	HEALTH OFFICE	2022-03-15 @ 3:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139240	HEALTH ROOM	2022-03-15 @ 3:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139212	KITCHEN OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 11:00 am	0.8 ± 0.3	2022-03-21
11139648	LOWER LEVEL LOUNGE	2022-03-15 @ 10:00 am	2022-03-18 @ 12:00 pm	0.6 ± 0.3	2022-03-21
11139698	M-1	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	0.6 ± 0.3	2022-03-21
11139685	M-2	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139694	M-2 OFFICE	2022-03-15 @ 12:00 pm	2022-03-18 @ 11:00 am	0.7 ± 0.3	2022-03-21
11139250	MAIN OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139252	MAIN OFFICE CONFERENCE ROOM	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139254	MAIN OFFICE CONFERENCE ROOM	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139660	MEDIA CENTER	2022-03-15 @ 10:00 am	2022-03-18 @ 10:00 am	0.7 ± 0.3	2022-03-21
11139658	MEDIA CENTER	2022-03-15 @ 10:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139650	MEDIA CENTER WORK ROOM	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	0.5 ± 0.3	2022-03-21
11139651	MEDIA SPECIALIST OFFICE	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	0.7 ± 0.3	2022-03-21

March 22, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139224	PE 2 WEIGHT ROOM	2022-03-15 @ 1:00 pm	2022-03-18 @ 11:00 am	0.6 ± 0.3	2022-03-21
11139257	PRINCIPAL OFFICE	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139248	STAFF WORK ROOM	2022-03-15 @ 2:00 pm	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139664	STAFF WORK ROOM	2022-03-15 @ 11:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139684	TEAM ROOM B	2022-03-15 @ 12:00 pm	2022-03-18 @ 10:00 am	0.9 ± 0.3	2022-03-21
11139668	TEAM ROOM C	2022-03-15 @ 11:00 am	2022-03-18 @ 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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 204620

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

Date Start: 3/18/22 Date Stop: 3/21/22 Date Start: _____ Date Stop: _____

Time Start: 0705 Time Stop: 0705 Time Start: _____ Time Stop: _____

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

11139367, 11139368, 11139371

11139710, 11139717

E3 Right _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

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

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

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

Device No.'s: _____ Device No.'s: _____

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

March 30, 2022

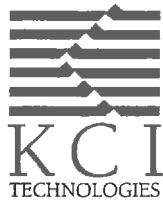
**** LABORATORY ANALYSIS REPORT ****

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



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Corporate Office: 936 Ridgebrook road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – March 2022 Schools

Name of Schools:

1. Singer, Flora M. ES
2. Sligo MS
3. Spring Mill Center
4. Fairland ES
5. Bel Pre ES
6. Shriver, Sargent ES
7. Strathmore ES
8. Viers Mill ES
9. Piney Branch ES

	Date	Initials
Radon Test Kits Deployed	03/15/2022	<i>BML</i>
Radon Test Kits Collected	03/18/2022	<i>BML</i>
Radon Test Kits Shipped to Lab*	03/18/2022	<i>BELL</i>
Radon Test Kits Received by Lab*	03/20/2022	<i>BELL</i>

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



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MCPS RADON TESTING - EXECUTIVE SUMMARY

Site Name	Sligo Middle School
Date of Report	2/21/2020
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	100
# Rooms ≥4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	2.7 pCi/L

Project Status

Current Project Status at this time: Testing Complete; no further action.



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2/21/2020

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

Re: Radon Testing Services

KCI Job #12146341126

Location: Sligo Middle School

1401 Dennis Avenue,
Silver Spring, Maryland 20902

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 Sligo Middle School, located at 1401 Dennis Avenue, in Silver Spring, Maryland 20902 (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 Provider (certification #111004 RT) 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 1/7/2020 and deployed one-hundred nineteen (119) 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 sixty (60) 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 1/10/2020 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 National Radon Safety Board (NRSB) radon measurement provider and is a certified analytical laboratory for radon analysis (certification #ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

EVALUATION OF TESTING CONDITIONS

These tests represent:

- Follow-up to initial testing.

These tests were conducted to:

- Evaluate radon concentrations at the facility.

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

KCI recorded observations of the following conditions in each room 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 upper-20s and high temperatures were in the mid-50s. Maximum sustained winds ranged from 10-23 miles per hour. Average humidity was around 64%. 0.32 inches of precipitation (rain) 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). 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	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 410-316-7800.

Sincerely,

Mr. Tyler P. McCleaf
Radon Measurement Provider
111004 RT

KCI Technologies, Inc.

Attachments:

A- Floor Plan with Test Locations

B - Tables 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 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		
Sligo Middle School		
Test Period: 1/7/2020-1/10/2020		
Kit Number	Room / Area	Result
9340189	115	< 0.3
9340194	110	0.8
9340195	110	1
9340196	110	< 0.3
9340197	124	< 0.3
9340198	TEAM ROOM B	0.9
9340199	SECURITY OFFICE	1.3
9340200	104	0.8
9347729	118	2.7
9347734	HEALTH ROOM	0.5
9347741	116	1.3
9347742	121	< 0.3
9347743	112	1
9347744	117	< 0.3
9347745	114	1.2
9347746	119	< 0.3
9347747	HEALTH ROOM	< 0.3
9347748	HEALTH ROOM OFFICE	< 0.3
9347749	127	< 0.3
9347750	MEDIA CENTER	< 0.3
9347751	MEDIA CENTER	0.8
9347752	MEDIA WORK ROOM	0.5
9347753	CAFETERIA	< 0.3
9347754	CAFETERIA	< 0.3
9347755	126	< 0.3
9347756	TEAM ROOM C	< 0.3
9347757	MEDIA CENTER OFFICE	0.6
9347758	125	< 0.3
9347759	120	< 0.3
9347760	TV STUDIO	< 0.3
9347761	122	0.7
9347762	127	< 0.3
9347763	STAFF WORK ROOM	< 0.3
9347764	125	< 0.3
9347765	125	< 0.3
9347766	111	< 0.3
9347767	123	< 0.3
9347768	111	< 0.3
9347769	113	< 0.3
9347770	113B	0.7
9347771	130	< 0.3
9347772	113A	< 0.3

9347773	132	< 0.3
9347774	131	< 0.3
9347775	128	< 0.3
9347776	129	< 0.3
9347777	111	0.5
9347778	GYM OFFICE A	0.5
9347779	111A	< 0.3
9347780	GYM OFFICE	0.9
9347781	M-2 OFFICE	0.9
9347782	M-2	1
9347783	DANCE STUDIO	0.8
9347784	DANCE STUDIO	0.5
9347785	111B	0.5
9347786	M-1	0.7
9347787	GYM	0.8
9347788	15	< 0.3
9347789	STAGE	1
9347790	GYM	1
9347791	21	0.6
9347792	19	< 0.3
9347793	17	0.7
9347794	PE 2	< 0.3
9347797	027C	< 0.3
9347803	MAIL ROOM	< 0.3
9347804	MAIN OFFICE	< 0.3
9347805	PRINCIPAL'S OFFICE	< 0.3
9347806	CONFERENCE ROOM	< 0.3
9347807	GO - CONFERENCE ROOM	< 0.3
9347808	GO - CONFERENCE ROOM	< 0.3
9347809	FINANCE OFFICE	< 0.3
9347810	ASST. PRINCIPAL'S OFFICE	< 0.3
9347811	GO -1	< 0.3
9347812	100	0.6
9347813	GUIDANCE OFFICE	< 0.3
9347814	101D	< 0.3
9347815	GO - 2	< 0.3
9347816	GO - 3	0.9
9347817	102	0.8
9347818	101E	0.5
9347819	102A	< 0.3
9347820	101B	1.3
9347821	103B	0.6
9347822	101A	< 0.3
9347823	101C	< 0.3
9347824	101C	0.6
9347825	101C	0.6
9347826	101	0.8

9347827	106	0.8
9347828	108	< 0.3
9347829	103	0.7
9347830	103A	< 0.3
9347831	109	0.6
9347832	107	< 0.3
9347833	105	< 0.3
9347834	104	1.1
9347835	ASA'S OFFICE	< 0.3
9347836	ADMIN SEC OFFICE	< 0.3
9347837	GO-5	0.6
9347838	25	< 0.3
9347839	15	0.8
9347840	31	< 0.3
9347841	022A	< 0.3
9347842	22	< 0.3
9347843	027A	< 0.3
9347844	027C	< 0.3
9347845	214	1.4
9347846	26	< 0.3
9347847	15	0.9
9347848	24	< 0.3
9347849	28	< 0.3
9347850	30	< 0.3
9347851	027B	< 0.3
9347852	23	< 0.3
9347853	29	< 0.3
9347854	15	< 0.3
9347859	221	1.7
9347860	32	< 0.3
9348309	OFFICE BLANK	<0.3

Table 2- Radon Testing Results			
Sligo Middle School			
Test Period: 1/7/2020-1/10/2020			
Kit Number	QC Type	Room / Area	Result
9347808	D	GO- CONFERENCE ROOM	<0.3
9347824	D	101C	0.6
9347823	FB	101C	<0.3
9347834	D	104	1.1
9340195	D	110	1
9340196	FB	110	<0.3
9347747	D	HEALTH ROOM	<0.3
9347758	D	125	<0.3
9347765	FB	125	<0.3
9347749	D	127	<0.3
9347768	D	111	<0.3
9347766	FB	111	<0.3
9348319	TRANSIT BLANK	NA	<0.3
9348320	TRANSIT BLANK	NA	<0.3
9348313	TRANSIT BLANK	NA	<0.3

ATTACHMENT C

Laboratory Analytical Results

**** 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
9340067	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 \pm 2.4 D	2020-01-03
9340035	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	22.5 \pm 2.3 D	2020-01-03
9340003	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.2 \pm 2.4 D	2020-01-03
9340089	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	23.3 \pm 2.3 D	2020-01-03
9340072	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	18.3 \pm 2.0 D	2020-01-03
9340040	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.3 \pm 2.6 D	2020-01-03
9340008	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.8 \pm 2.5 D	2020-01-03
9340094	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.7 \pm 2.5 D	2020-01-03
9340099	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.5 \pm 2.6 D	2020-01-03
9340077	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.2 \pm 2.5 D	2020-01-03
9340045	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.7 \pm 2.4 D	2020-01-03
9340013	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.9 \pm 2.6 D	2020-01-03
9340018	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	29.1 \pm 2.8 D	2020-01-03
9341704	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 \pm 2.4 D	2020-01-03
9340050	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.2 \pm 2.6 D	2020-01-03
9340023	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.2 \pm 2.7 D	2020-01-03
9341709	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.5 \pm 2.4 D	2020-01-03
9340055	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.8 \pm 2.6 D	2020-01-03
9340060	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.3 \pm 2.5 D	2020-01-03
9340028	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.9 \pm 2.3 D	2020-01-03
9341714	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	28.3 \pm 2.7 D	2020-01-03
9340082	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.4 \pm 2.6 D	2020-01-03
9340065	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.2 \pm 2.4 D	2020-01-03
9340033	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.2 \pm 2.5 D	2020-01-03
9341719	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.7 \pm 2.5 D	2020-01-03
9340001	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.3 \pm 2.5 D	2020-01-03
9340087	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.8 \pm 2.4 D	2020-01-03
9340070	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	19.5 \pm 2.4 D	2020-01-03
9340038	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.7 \pm 2.3 D	2020-01-03
9340006	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.2 \pm 2.4 D	2020-01-03
9340092	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	31.4 \pm 2.8 D	2020-01-03
9340097	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.7 \pm 2.5 D	2020-01-03
9340075	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	29.6 \pm 2.6 D	2020-01-03
9340043	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.1 \pm 2.6 D	2020-01-03
9340011	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.8 \pm 2.5 D	2020-01-03
9340016	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.2 \pm 2.4 D	2020-01-03
9341702	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.8 \pm 2.5 D	2020-01-03

**** 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
9340048	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.5 \pm 2.4 D	2020-01-03
9340021	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.7 \pm 2.6 D	2020-01-03
9341707	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.8 \pm 2.4 D	2020-01-03
9340053	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.8 \pm 2.5 D	2020-01-03
9340058	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.5 \pm 2.7 D	2020-01-03
9340026	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.9 \pm 2.4 D	2020-01-03
9341712	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.3 \pm 2.4 D	2020-01-03
9340080	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 \pm 2.4 D	2020-01-03
9340063	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.8 \pm 2.5 D	2020-01-03
9340031	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.9 \pm 2.4 D	2020-01-03
9341717	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.7 \pm 2.4 D	2020-01-03
9340085	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.9 \pm 2.5 D	2020-01-03
9340068	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.2 \pm 2.5 D	2020-01-03
9340036	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.6 \pm 2.3 D	2020-01-03
9340004	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.9 \pm 2.6 D	2020-01-03
9340090	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.3 \pm 2.5 D	2020-01-03
9340073	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.8 \pm 2.5 D	2020-01-03
9340041	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.6 \pm 2.4 D	2020-01-03
9340009	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.1 \pm 2.4 D	2020-01-03
9340095	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.2 \pm 2.5 D	2020-01-03
9340100	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.5 \pm 2.4 D	2020-01-03
9340078	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.0 \pm 2.4 D	2020-01-03
9340046	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.0 \pm 2.6 D	2020-01-03
9340014	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	21.8 \pm 2.8 D	2020-01-03
9340019	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.0 \pm 2.5 D	2020-01-03
9341705	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.8 \pm 2.6 D	2020-01-03
9340051	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.5 \pm 2.4 D	2020-01-03
9340056	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.7 \pm 2.6 D	2020-01-03
9340024	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.3 \pm 2.5 D	2020-01-03
9341710	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.2 \pm 2.3 D	2020-01-03
9340061	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	28.9 \pm 2.6 D	2020-01-03
9340029	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	23.0 \pm 2.3 D	2020-01-03
9341715	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.0 \pm 2.5 D	2020-01-03
9340083	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.9 \pm 2.4 D	2020-01-03
9340066	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 \pm 2.4 D	2020-01-03
9340034	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.4 \pm 2.5 D	2020-01-03
9341720	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.3 \pm 2.5 D	2020-01-03

**** 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
9340002	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.7 \pm 2.5 D	2020-01-03
9340088	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.4 \pm 2.5 D	2020-01-03
9340071	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.9 \pm 2.4 D	2020-01-03
9340039	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.9 \pm 2.5 D	2020-01-03
9340007	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.9 \pm 2.4 D	2020-01-03
9340093	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 \pm 2.5 D	2020-01-03
9340098	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.8 \pm 2.5 D	2020-01-03
9340076	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 \pm 2.5 D	2020-01-03
9340044	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.2 \pm 2.5 D	2020-01-03
9340012	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	22.5 \pm 2.2 D	2020-01-03
9340017	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.3 \pm 2.5 D	2020-01-03
9341703	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.0 \pm 2.5 D	2020-01-03
9340049	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.0 \pm 2.5 D	2020-01-03
9340022	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.6 \pm 2.6 D	2020-01-03
9341708	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	28.8 \pm 2.8 D	2020-01-03
9340054	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.8 \pm 2.5 D	2020-01-03
9340059	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.5 \pm 2.6 D	2020-01-03
9340027	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.6 \pm 2.5 D	2020-01-03
9341713	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.5 \pm 2.5 D	2020-01-03
9340081	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	18.4 \pm 2.1 D	2020-01-03
9340064	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.5 \pm 2.5 D	2020-01-03
9340032	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.1 \pm 2.4 D	2020-01-03
9341718	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	23.7 \pm 2.4 D	2020-01-03
9340086	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.9 \pm 2.6 D	2020-01-03
9340069	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.6 \pm 2.5 D	2020-01-03
9340037	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	28.4 \pm 2.6 D	2020-01-03
9340005	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	???? DIF1	2020-01-03
9340091	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.5 \pm 2.5 D	2020-01-03
9340096	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.2 \pm 2.5 D	2020-01-03
9340074	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	27.7 \pm 2.5 D	2020-01-03
9340042	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.6 \pm 2.5 D	2020-01-03
9340010	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.5 \pm 2.5 D	2020-01-03
9341701	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	22.9 \pm 2.3 D	2020-01-03
9340047	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	26.7 \pm 2.5 D	2020-01-03
9340015	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.4 \pm 2.5 D	2020-01-03
9340020	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	24.1 \pm 2.4 D	2020-01-03
9341706	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	31.0 \pm 2.7 D	2020-01-03

January 3, 2020

**** 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
9340052	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.4 ± 2.6 D	2020-01-03
9340057	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	27.3 ± 2.5 D	2020-01-03
9340025	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.1 ± 2.4 D	2020-01-03
9341711	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	22.5 ± 2.2 D	2020-01-03
9340079	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	26.9 ± 2.5 D	2020-01-03
9340062	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.6 ± 2.5 D	2020-01-03
9340030	N/A	2019-12-21 @ 8:00 am	2019-12-23 @ 8:00 am	25.0 ± 2.4 D	2020-01-03
9341716	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	25.1 ± 2.4 D	2020-01-03
9340084	N/A	2019-12-21 @ 9:00 am	2019-12-23 @ 9:00 am	24.5 ± 2.3 D	2020-01-03

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 KC I Technologies Inc. Job Number 193598

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

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0830 Time Stop: 0830

(Group 4)
Device No.'s: (20) Char. Bags-
9340061 thru 9340089

Temp °F	70.0
RH %	50.1
Avg pCi/L	25.5

S2

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0835 Time Stop: 0835

(Group 5)
Device No.'s: (20) Char. Bags-
9340081 thru 9340100

Temp °F	70.0
RH %	50.1
Avg pCi/L	25.5

Q5

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0840 Time Stop: 0840

(Group 6)
Device No.'s: (20) Char. Bags-
9341701 thru 9341720

Temp °F	70.0
RH %	50.1
Avg pCi/L	25.5

RS

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

Radon test result report for:
SLIGO MS
778

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9347854	015	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347847	015	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	0.9 ± 0.3	2020-01-13
9347839	015	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	0.8 ± 0.3	2020-01-13
9347788	015	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347793	017	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	0.7 ± 0.3	2020-01-13
9347792	019	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347791	021	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	0.6 ± 0.3	2020-01-13
9347842	022	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347841	022A	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347852	023	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347848	024	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347838	025	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347846	026	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347843	027A	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347851	027B	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347797	027C	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347844	027C	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347849	028	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347853	029	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347850	030	2020-01-07 @ 5:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347840	031	2020-01-07 @ 4:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347860	032	2020-01-07 @ 5:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347812	100	2020-01-07 @ 12:00 pm	2020-01-10 @ 1:00 pm	0.6 ± 0.3	2020-01-13
9347826	101	2020-01-07 @ 12:00 pm	2020-01-10 @ 12:00 pm	0.8 ± 0.3	2020-01-13
9347822	101A	2020-01-07 @ 12:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347820	101B	2020-01-07 @ 12:00 pm	2020-01-10 @ 12:00 pm	1.3 ± 0.3	2020-01-13
9347825	101C	2020-01-07 @ 12:00 pm	2020-01-10 @ 1:00 pm	0.6 ± 0.3	2020-01-13
9347823	101C	2020-01-07 @ 12:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347824	101C	2020-01-07 @ 12:00 pm	2020-01-10 @ 1:00 pm	0.6 ± 0.3	2020-01-13
9347814	101D	2020-01-07 @ 12:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347818	101E	2020-01-07 @ 12:00 pm	2020-01-10 @ 1:00 pm	0.5 ± 0.3	2020-01-13
9347817	102	2020-01-07 @ 12:00 pm	2020-01-10 @ 12:00 pm	0.8 ± 0.3	2020-01-13
9347819	102A	2020-01-07 @ 12:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347829	103	2020-01-07 @ 12:00 pm	2020-01-10 @ 1:00 pm	0.7 ± 0.3	2020-01-13
9347830	103A	2020-01-07 @ 1:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347821	103B	2020-01-07 @ 1:00 pm	2020-01-10 @ 1:00 pm	0.6 ± 0.3	2020-01-13
9340200	104	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	0.8 ± 0.3	2020-01-13

Radon test result report for:
SLIGO MS
778

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9347834	104	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	1.1 ± 0.3	2020-01-13
9347833	105	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347827	106	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	0.8 ± 0.3	2020-01-13
9347832	107	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347828	108	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347831	109	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	0.6 ± 0.3	2020-01-13
9340196	110	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9340194	110	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	0.8 ± 0.3	2020-01-13
9340195	110	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	1.0 ± 0.3	2020-01-13
9347766	111	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347777	111	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.5 ± 0.3	2020-01-13
9347768	111	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347779	111A	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347785	111B	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.5 ± 0.3	2020-01-13
9347743	112	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	1.0 ± 0.3	2020-01-13
9347769	113	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347772	113A	2020-01-07 @ 2:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347770	113B	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.7 ± 0.3	2020-01-13
9347745	114	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	1.2 ± 0.3	2020-01-13
9340189	115	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347741	116	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	1.3 ± 0.3	2020-01-13
9347744	117	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347729	118	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	2.7 ± 0.3	2020-01-13
9347746	119	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347759	120	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347742	121	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347761	122	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	0.7 ± 0.3	2020-01-13
9347767	123	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9340197	124	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347764	125	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347765	125	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347758	125	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347755	126	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347749	127	2020-01-07 @ 2:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347762	127	2020-01-07 @ 2:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347775	128	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347776	129	2020-01-07 @ 2:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13

Radon test result report for:
SLIGO MS
778

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9347771	130	2020-01-07 @ 2:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347774	131	2020-01-07 @ 2:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347773	132	2020-01-07 @ 2:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347845	214	2020-01-07 @ 5:00 pm	2020-01-10 @ 2:00 pm	1.4 ± 0.3	2020-01-13
9347859	221	2020-01-07 @ 5:00 pm	2020-01-10 @ 2:00 pm	1.7 ± 0.3	2020-01-13
9347836	ADMIN SEC OFFICE	2020-01-07 @ 11:00 am	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347835	ASA'S OFFICE	2020-01-07 @ 11:00 am	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347810	ASST. PRINCIPAL'S OFFICE	2020-01-07 @ 11:00 am	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347754	CAFETERIA	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347753	CAFETERIA	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347806	CONFERENCE ROOM	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347784	DANCE STUDIO	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.5 ± 0.3	2020-01-13
9347783	DANCE STUDIO	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.8 ± 0.3	2020-01-13
9347809	FINANCE OFFICE	2020-01-07 @ 12:00 pm	2020-01-10 @ 1:00 pm	< 0.3	2020-01-13
9347815	GO - 2	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347816	GO - 3	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	0.9 ± 0.3	2020-01-13
9347808	GO - CONFERENCE ROOM	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347807	GO - CONFERENCE ROOM	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347811	GO - 1	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347837	GO-5	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	0.6 ± 0.3	2020-01-13
9347813	GUIDANCE OFFICE	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347787	GYM	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.8 ± 0.3	2020-01-13
9347790	GYM	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	1.0 ± 0.3	2020-01-13
9347780	GYM OFFICE	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.9 ± 0.3	2020-01-13
9347778	GYM OFFICE A	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.5 ± 0.3	2020-01-13
9347747	HEALTH ROOM	2020-01-07 @ 1:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347734	HEALTH ROOM	2020-01-07 @ 1:00 pm	2020-01-10 @ 11:00 am	0.5 ± 0.3	2020-01-13
9347748	HEALTH ROOM OFFICE	2020-01-07 @ 1:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347786	M-1	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.7 ± 0.3	2020-01-13
9347782	M-2	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	1.0 ± 0.3	2020-01-13
9347781	M-2 OFFICE	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	0.9 ± 0.3	2020-01-13
9347803	MAIL ROOM	2020-01-07 @ 11:00 am	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347804	MAIN OFFICE	2020-01-07 @ 11:00 am	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347750	MEDIA CENTER	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347751	MEDIA CENTER	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	0.8 ± 0.3	2020-01-13
9347757	MEDIA CENTER OFFICE	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	0.6 ± 0.3	2020-01-13
9347752	MEDIA WORK ROOM	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	0.5 ± 0.3	2020-01-13

January 14, 2020

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SLIGO MS
778

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9347794	PE 2	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	< 0.3	2020-01-13
9347805	PRINCIPAL'S OFFICE	2020-01-07 @ 12:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9340199	SECURITY OFFICE	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	1.3 ± 0.3	2020-01-13
9347763	STAFF WORK ROOM	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347789	STAGE	2020-01-07 @ 3:00 pm	2020-01-10 @ 12:00 pm	1.0 ± 0.3	2020-01-13
9340198	TEAM ROOM B	2020-01-07 @ 1:00 pm	2020-01-10 @ 12:00 pm	0.9 ± 0.3	2020-01-13
9347756	TEAM ROOM C	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13
9347760	TV STUDIO	2020-01-07 @ 2:00 pm	2020-01-10 @ 11:00 am	< 0.3	2020-01-13

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



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

Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 3

Name of Schools:

1. Bannockburn E.S.
2. Bethesda E.S.
3. Bethesda-Chevy Chase H.S.
4. Bradley Hill E.S.
5. Burning Tree E.S.
6. Burnt Mills E.S.
7. East Silver Springs E.S.
8. Einstein H.S.
9. Flora Singer E.S.
10. Key M.S.
11. Montgomery Blair H.S.
12. Montgomery Knolls E.S.
13. Newport Mills M.S.
14. Oak View E.S.
15. Rock View E.S.
16. Roscoe Nix E.S.
17. Sligo M.S.
18. Spring Mill Center
19. Springbrook H.S.
20. Westland M.S.
21. Woodlin M.S.

	Date	Initials
Radon Test Kits Deployed	1/6/20 to 1/7/20	JM
Radon Test Kits Collected	1/9/20 to 1/10/20	JM
Radon Test Kits Shipped to Lab*	1/10/20	JM
Radon Test Kits Received by Lab*	1/13/202	JM

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



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MCPS RADON TESTING - EXECUTIVE SUMMARY

Site Name	Sligo Middle School
Date of Report	March 14, 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	21
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.4 pCi/L

Project Status

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



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March 14, 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: Sligo Middle School

1401 Dennis Ave.
Silver Spring, Maryland 20902

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 Sligo Middle School, located at 1401 Dennis Ave. in Silver Spring, Maryland 20902 (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 twenty-five (25) 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**Sligo Middle School****Test Period: 02/13/18-02/16/18**

Kit Number	Room / Area	Result
7978128	24	0.6
7978109	103A	0.6
7978122	27A (A room across from rm 23/25)	< 0.3
7978115	27B (B room across from 23/25)	< 0.3
7978121	27C (C room across from rm 23/25)	< 0.3
7978112	ASA OFFICE	< 0.3
7978130	BOYS LR	0.6
7978106	DANCE STUDIO	0.6
7978111	FINANCE	< 0.3
7978127	GIRLS LR	1.0
7978103	KITCHEN	< 0.3
7978110	KITCHEN LOUNGE	< 0.3
7978104	KITCHEN OFFICE	< 0.3
7978129	M OFFICE	0.9
7978125	MEDIA CENTER	< 0.3
7978124	MEDIA CENTER	0.8
7978107	PE OFFICE	0.7
7978108	PE OFFICE AREA	0.8
7978102	PE2 WEIGHT ROOM	< 0.3
7978126	SECURITY OFFICE	1.3
7978105	STAGE	1.4
7978123	STUDIO MNGR OFF	0.6

Table Note:

* Missing or Compromised Sample

Table 2 - Radon Testing Results		
Sligo Middle School		
Test Period: 02/13/18-02/16/18		
Kit Number	QC Type	Result
7978114	D (27C (C room across from room 23/25))	< 0.3
7978113	D (ASA OFFICE)	< 0.3
7978101	FB (ASA OFFICE)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
SLIGO MIDDLE SCHOOL
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7978109	103A	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	0.6 ± 0.3	2018-02-20
7978128	24	2018-02-13 @ 1:00 pm	2018-02-16 @ 11:00 am	0.6 ± 0.3	2018-02-20
7978122	27A	2018-02-13 @ 1:00 pm	2018-02-16 @ 11:00 am	< 0.3	2018-02-20
7978115	27B	2018-02-13 @ 1:00 pm	2018-02-16 @ 11:00 am	< 0.3	2018-02-20
7978114	27C	2018-02-13 @ 1:00 pm	2018-02-16 @ 11:00 am	< 0.3	2018-02-20
7978121	27C	2018-02-13 @ 1:00 pm	2018-02-16 @ 11:00 am	< 0.3	2018-02-20
7978101	ASA OFFICE	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978112	ASA OFFICE	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978113	ASA OFFICE	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978130	BOYS LR	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	0.6 ± 0.3	2018-02-20
7978106	DANCE STUDIO	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	0.6 ± 0.3	2018-02-20
7978111	FINANCE	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978127	GIRLS LR	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	1.0 ± 0.3	2018-02-20
7978103	KITCHEN	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978110	KITCHEN LOUNGE	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978104	KITCHEN OFFICE	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978129	M OFFICE	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	0.9 ± 0.3	2018-02-20
7978124	MEDIA CENTER	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	0.8 ± 0.3	2018-02-20
7978125	MEDIA CENTER	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	< 0.3	2018-02-20
7978107	PE OFFICE	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	0.7 ± 0.3	2018-02-20
7978108	PE OFFICE AREA	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	0.8 ± 0.3	2018-02-20
7978102	PE2 WEIGHT ROOM	2018-02-13 @ 12:00 pm	2018-02-16 @ 10:00 am	< 0.3	2018-02-20
7978126	SECURITY OFFICE	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	1.3 ± 0.4	2018-02-20
7978105	STAGE	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	1.4 ± 0.4	2018-02-20
7978123	STUDIO MNGR OFF	2018-02-13 @ 12:00 pm	2018-02-16 @ 11:00 am	0.6 ± 0.3	2018-02-20



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Corporate Office: 936 Ridgebrook Road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon 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

February 27, 2018

**** LABORATORY ANALYSIS REPORT ****

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

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

February 27, 2018

**** LABORATORY ANALYSIS REPORT ****

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

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

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 ± 0.8	2018-02-21
7986621	2	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	19.4 ± 0.8	2018-02-21
7985683	3	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	19.5 ± 0.8	2018-02-21
7984168	4	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	20.5 ± 0.8	2018-02-21
7986618	5	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	19.9 ± 0.8	2018-02-21
7984169	6	2018-02-16 @ 11:00 am	2018-02-19 @ 11:00 am	20.4 ± 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: _____

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



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TECHNOLOGIES

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MCPS RADON TESTING - EXECUTIVE SUMMARY

Site Name	Sligo Middle School
Date of Report	January 30, 2018
Round of Testing	Initial Follow-up Post Remediation 2 year testing (circled) 5 year testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested	75
# Rooms \geq 4.0 pCi/L	0
Lowest Value	< 0.3 pCi/L
Highest Value	1.9 pCi/L

Project Status

Current Project Status at this time: Results satisfactory to date;; missed locations and missing/ compromised tests to be sampled.



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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: Sligo Middle School

1401 Dennis Ave.
Silver Spring , Maryland 20902

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 Sligo Middle School, located at 1401 Dennis Ave. in Silver Spring , Maryland 20902 (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 eighty-eight (88) 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 Mouldsdale, 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		
Sligo Middle School		
Test Period: 11/27/17-11/30/17		
Kit Number	Room / Area	Result
7976364	13	< 0.3
7976363	15	1.1
7976362	17	1.1
7976361	19	0.9
7976360	21	0.8
7976372	22	< 0.3
7976367	23	0.6
7976368	25	1.6
7976378	26	< 0.3
7976376	28	< 0.3
7976379	29	0.8
7976383	30	< 0.3
7976375	31	< 0.3
7976385	32	< 0.3
7977535	100	1.9
7977533	102	0.5
7977522	103	< 0.3
7977521	104	1.1
7977525	105	0.9
7977516	106	0.8
7977520	107	0.6
7977515	108	0.8
7977519	109	0.8
7977505	110	1.1
7977511	111	< 0.3
7977504	112	0.6
7977503	114	0.7
7977501	116	1.6
7977506	117	1.0
7976350	118	1.6
7976355	127	< 0.3
7976356	130	0.5
7976386	215	0.8
7976381	218	1.5
7977527	101A	< 0.3
7977528	101B	1.0
7977529	101C	0.9
7977530	101D	1.1
7977531	101E	< 0.3
7977524	* 103A (Tampered)	0.7
7977526	103B	0.6
7977512	111A	< 0.3
7976370	22A	0.8
7976369	22B	0.6
7976380	27A	< 0.3
7976374	27B	< 0.3

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Sligo Middle School		
Test Period: 11/27/17-11/30/17		
Kit Number	Room / Area	Result
7976377	27C	< 0.3
7977549	ADMIN SEC OFFICE	< 0.3
7977544	ASST PRINCIPAL OFFICE	< 0.3
7977547	ASST PRINCIPAL	< 0.3
7976365	BS MANAG OFF	1.7
7976366	BS OFFICE 2	1.0
7977541	CAFETERIA	< 0.3
7977542	CAFETERIA	0.6
7977546	CONFERENCE RM	< 0.3
7977540	GUID A	< 0.3
7977539	GUID B	< 0.3
7977537	GUID C	0.8
7977538	GUID D	< 0.3
7977536	GUID E	0.9
7977534	GUIDANCE CONF	0.7
7977509	GYM	1.0
7977514	GYM	1.0
7976357	HEALTH OFFICE	< 0.3
7976358	HEALTH ROOM	< 0.3
7977508	M1	0.7
7977513	M2	0.8
7977550	MAIL ROOM	< 0.3
7977545	MAIN OFFICE	< 0.3
7976353	MEDIA CENTER	1.2
7976354	* MEDIA CENTER (Tampered)	1.0
7976352	MEDIA SPECIALIST	1.1
7977543	PRINCIPLE	< 0.3
7976373	TEAM ROOM A	0.5
7977510	TEAM ROOM B	1.5
7976371	VERIZON LINE IN	1.4
7977518	WEIGHT ROOM	< 0.3
7976351	WORK ROOM	1.2

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Sligo Middle School		
Test Period: 11/27/17-11/30/17		
Kit Number	QC Type	Result
7977532	D (102)	< 0.3
7977517	D (106)	0.8
7976384	D (215)	< 0.3
7976382	D (31)	0.6
7976359	D (HEALTH ROOM)	< 0.3
7977507	D (TEAM ROOM B)	1.0
7977523	FB (103)	< 0.3
7977502	FB (114)	< 0.3
7977548	FB (ASST PRINCIPAL)	< 0.3
7977276	OB (OB)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
SLIGO MS
SLIGO MS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7977535	100	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	1.9 ± 0.4	2017-12-05
7977527	101A	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977528	101B	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-05
7977529	101C	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.9 ± 0.3	2017-12-05
7977530	101D	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-05
7977531	101E	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977532	102	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977533	102	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.5 ± 0.3	2017-12-04
7977522	103	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977523	103	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977524	103A	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-05
7977526	103B	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-05
7977521	104	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-04
7977525	105	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.9 ± 0.3	2017-12-04
7977516	106	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-04
7977517	106	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-05
7977520	107	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7977515	108	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-04
7977519	109	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-04
7977505	110	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.4	2017-12-05
7977511	111	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977512	111A	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977504	112	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-05
7977503	114	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-04
7977502	114	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977501	116	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.6 ± 0.3	2017-12-04
7977506	117	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-04
7976350	118	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.6 ± 0.3	2017-12-05
7976355	127	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7976364	13	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976356	130	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.5 ± 0.3	2017-12-05
7976363	15	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-05
7976362	17	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-05
7976361	19	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.9 ± 0.3	2017-12-05
7976360	21	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-04
7976384	215	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-05
7976386	215	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	0.8 ± 0.3	2017-12-05

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

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7976381	218	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	1.5 ± 0.3	2017-12-05
7976372	22	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976370	22A	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-04
7976369	22B	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7976367	23	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7976368	25	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.6 ± 0.4	2017-12-05
7976378	26	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976380	27A	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976374	27B	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7976377	27C	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7976376	28	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976379	29	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-05
7976383	30	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976375	31	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976382	31	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-05
7976385	32	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977549	ADMIN SEC OFFICE	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977544	ASST PRINC. OFFC	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977547	ASST PRINCIPAL	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977548	ASST PRINCIPAL	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7976365	BS MANAG OFF	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.7 ± 0.4	2017-12-05
7976366	BS OFFICE 2	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-04
7977541	CAFETERIA	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977542	CAFETERIA	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.6 ± 0.3	2017-12-04
7977546	CONFERENCE RM	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977540	GUID A	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7977539	GUID B	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977537	GUID C	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-05
7977538	GUID D	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977536	GUID E	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.9 ± 0.3	2017-12-04
7977534	GUIDANCE CONF	2017-11-27 @ 1:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-05
7977509	GYM	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-04
7977514	GYM	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-05
7976357	HEALTH OFFICE	2017-11-27 @ 3:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-05
7976359	HEALTH ROOM	2017-11-27 @ 3:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-04
7976358	HEALTH ROOM	2017-11-27 @ 3:00 pm	2017-11-30 @ 12:00 pm	< 0.3	2017-12-05
7977508	M1	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.7 ± 0.3	2017-12-04

December 19, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

SLIGO MS
SLIGO MS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7977513	M2	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	0.8 ± 0.3	2017-12-05
7977550	MAIL ROOM	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7977545	MAIN OFFICE	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7976353	MEDIA CENTER	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.2 ± 0.3	2017-12-04
7976354	MEDIA CENTER	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-04
7976352	MEDIA SPECIALIST	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.1 ± 0.3	2017-12-04
7977276	OB	2017-11-27 @ 2:00 pm	2017-11-30 @ 2:00 pm	< 0.3	2017-12-05
7977543	PRINCIPLE	2017-11-27 @ 12:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-04
7976373	TEAM ROOM A	2017-11-27 @ 4:00 pm	2017-11-30 @ 12:00 pm	0.5 ± 0.3	2017-12-05
7977507	TEAM ROOM B	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	1.0 ± 0.3	2017-12-04
7977510	TEAM ROOM B	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	1.5 ± 0.4	2017-12-05
7976371	VERIZON LINE IN	2017-11-27 @ 4:00 pm	2017-11-30 @ 11:00 am	1.4 ± 0.4	2017-12-05
7977518	WEIGHT ROOM	2017-11-27 @ 2:00 pm	2017-11-30 @ 11:00 am	< 0.3	2017-12-05
7976351	WORK ROOM	2017-11-27 @ 3:00 pm	2017-11-30 @ 11:00 am	1.2 ± 0.4	2017-12-05

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December 21, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SLIGO CREEK ES
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7976533	105A	@	@		
7976503	115	@	@		

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Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase

Names of Schools:

1. Montgomery Knolls Elementary School
2. New Hampshire Estates Elementary School
3. Montgomery Blair High School
4. Silver Creek Middle School
5. Sligo Creek Elementary School
6. East Silver Spring Elementary School
7. Silver Spring International Middle School
8. Woodlin Elementary School
9. Northwood High School
10. Spring Mill Center
11. Westbrook Elementary School
12. Westland Middle School
13. Cloverly Elementary School
14. Flora Singer Elementary School
15. Sligo Middle School
16. Mario Loiederman Middle School
17. Roscoe Nix Elementary School
18. Sargent Shriver Elementary School
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.
- 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 ±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 ± 0.7	2017-12-07
7975064	S2	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	27.4 ± 0.8	2017-12-07
7975063	S3	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	26.3 ± 0.7	2017-12-07
7975065	S4	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	23.0 ± 0.7	2017-12-07
7975069	S5	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	25.6 ± 0.7	2017-12-07
7975070	S6	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	23.0 ± 0.7	2017-12-07

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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: 12/11/17 Date Stop: 12/14/17

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



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MCPS RADON TESTING

Executive Summary: Sligo Middle School

Date of Test Report:	11/28/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	2
# Rooms \geq 4.0 pCi/L:	0
Low Value:	1.0
High Value:	1.6

Project Status:

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



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November 28, 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 # 12146341.60

Location: Sligo Middle School
 1401 Dennis Avenue
 Silver Spring, MD 20902

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 Sligo Middle School, located at 1401 Dennis Avenue in Silver Spring, Maryland 20902 (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 14, 2016 and deployed two (2) 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 three (3) 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 November 17, 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:

These tests represent:

- Post-mitigation testing for radon mitigation systems installed recently

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 high 20's to 30s and high temperatures were in the high 50s to low 60s. Maximum sustained winds ranged from 8-14 miles per hour. Average humidity ranged was around 55%. No precipitation was recorded during the testing period.

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	none	n/a
<4.0 piC/L		See Attachment B

Notes:

D- Duplicate sample

The office blank and lab transit 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. Moulsdale
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

Radon Testing Results		
Sligo Middle School		
Test Period: 11/14/16-11/17/16		
Kit Number	Room / Area	Result
7802096	102	1
7802095	101E	1.6

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

November 22, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SLIGO MIDDLE SCHOOL
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802095	101E	2016-11-14 @ 1:00 pm	2016-11-17 @ 10:00 am	1.6 ± 0.4	2016-11-21
7802096	102	2016-11-14 @ 1:00 pm	2016-11-17 @ 10:00 am	1.0 ± 0.4	2016-11-21

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November 22, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
MCPS Radon
Phase 19 BLANKS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802909	OFFICE	2016-11-11 @ 10:00 am	2016-11-14 @ 10:00 am	< 0.3	2016-11-16
7802910	TRANSIT	2016-11-11 @ 10:00 am	2016-11-14 @ 10:00 am	< 0.3	2016-11-16

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

November 22, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
MCPS Radon
Spike Sample Results

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802912	1	2016-11-11 @ 10:00 am	2016-11-14 @ 10:00 am	23.5 ± 0.8	2016-11-16
7802913	2	2016-11-11 @ 10:00 am	2016-11-14 @ 10:00 am	23.0 ± 0.8	2016-11-16
7802911	3	2016-11-11 @ 10:00 am	2016-11-14 @ 10:00 am	25.6 ± 0.9	2016-11-16

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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 KCI Technologies Inc. Job Number 177376

NOMINAL Conditions: Radon Conc 26.3 pCi/L Rel. Hum 50.1 % Temp. 70.0 F

Date Start: 11/11/16 Date Stop: 11/14/16 Date Start: _____ Date Stop: _____

Time Start: 0958 Time Stop: 0958 Time Start: _____ Time Stop: _____

Device No.'s: (3) Char. Bags - Device No.'s:

7802911 thru 7802913

GS 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



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Radon Test Kit Chain of Custody

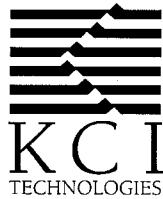
Project Name: MCPS Radon Phase 19

Names of Schools:

1. Wood Acres Elementary School
2. Walt Whitman High School
3. East Silver Spring Elementary School

	Date	Initials
Radon Test Kits Deployed	11/14/16	JM
Radon Test Kits Collected	11/17/16	JM
Radon Test Kits Shipped to Lab*	11/18/16	JM
Radon Test Kits Received by Lab*	11/21/16	JM

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



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Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 19

Names of Schools:

1. Montgomery Blair High School
2. Springbrook High School
3. Sligo Middle School
4. Einstein High School
5. John F. Kennedy High School
6. Blair Ewing Center
7. Rock Terrace School
8. Thomas Wootton High School
9. Fields Road Elementary School

	Date	Initials
Radon Test Kits Deployed	11/15/16	JM
Radon Test Kits Collected	11/18/16	JM
Radon Test Kits Shipped to Lab*	11/18/16	JM
Radon Test Kits Received by Lab*	11/21/16	JM

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



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MCPS RADON TESTING

Executive Summary: Sligo Middle School

Date of Test Report:	10/20/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	43
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	1.8

Project Status:

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



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October 20, 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 # 12146341.54

Location: Sligo Middle School
1401 Dennis Avenue
Silver Spring, MD 20902

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 Sligo Middle School, located at 1401 Dennis Avenue in Silver Spring, Maryland 20902 (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 September 26, 2016 and deployed forty-eight (48) 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 September 29, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheek, Inc. for analysis by gamma-ray spectroscopy. Aircheek, 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 testing for radon mitigation systems installed recently.

To expedite the testing, tests were conducted in September as soon as students and staff returned to:

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

Future periodic testing should be conducted during the heating season in ideal conditions as described below. 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 cooling mode; therefore, KCI concludes that this test was not 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 50s and high temperatures in the mid-60s to mid-70s. Maximum sustained winds ranged from 3-15 miles per hour. Average humidity ranged from 71 to 89 percent. Rain (1.83 inches in Gaithersburg, MD) was recorded on 9/29/16. The weather conditions during the testing period may have resulted in atypical radon test results for this facility.

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	none	n/a
<4.0 piC/L		See Attachment B

Notes:

D- Duplicate sample

The lab transit blanks and office 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. Moulsdale
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

Radon Testing Results		
Sligo Middle School		
Test Period: 09/26/16-09/29/16		
Kit Number	Room / Area	Result
7802862	22	1.7
7802854	28	0.6
7802855	29	0.6
7802856	30	0.8
7802857	31	0.9
7802858	32	0.9
7802894	100	1.1
7802879	101	0.5
7802873	103	0.6
7802886	104	< 0.3
7802870	105	0.6
7802872	107	< 0.3
7802877	109	0.5
7802864	111	< 0.3
7802869	113	< 0.3
7802889	118	0.8
7802853	022A	0.8
7802885	101 D	0.8
7802880	* 101 E (Missing)	-
7802887	101B	< 0.3
7802893	* 102 (Missing)	-
7802878	103A	0.7
7802871	103B	< 0.3
7802865	111A	< 0.3
7802900	ADMIN SEC OFF	< 0.3
7802895	ASA OFF	0.5
7802897	ASST PRINCIPAL	< 0.3
7802881	GUIDANCE A	0.6
7802882	GUIDANCE B	0.6
7802876	GUIDANCE C	0.7
7802883	GUIDANCE D	< 0.3
7802896	GUIDANCE E	1.0
7802891	HEALTH OFF	0.6
7802850	HEALTH RM	0.5
7802866	M-1	< 0.3
7802867	M-2	< 0.3
7802890	MAIN OFF CON RM	< 0.3
7802898	MAIN OFFICE	< 0.3
7802868	M-OFF	0.8
7802888	PE OFF	< 0.3
7802875	PEOF2	0.8
7802892	PRINCIPAL OFF	< 0.3
7802863	VERIZON IN LINE	1.8

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Sligo Middle School		
Test Period: 09/26/16-09/29/16		
Kit Number	QC Type	Result
7802874	D (103)	0.6
7802861	D (22)	1.4
7802860	D (32)	0.7
7802884	D (GUIDANCE B)	0.9
7802899	D (MAIN OFFICE)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
SLIGO MIDDLE SCHOOL
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802853	022A	2016-09-26 @ 11:00 am	2016-09-29 @ 9:00 am	0.8 ± 0.3	2016-10-03
7802894	100	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	1.1 ± 0.3	2016-10-03
7802879	101	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	0.5 ± 0.3	2016-10-03
7802885	101 D	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	0.8 ± 0.3	2016-10-03
7802880	101 E	@	@		
7802887	101B	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802893	102	@	@		
7802873	103	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	0.6 ± 0.3	2016-10-03
7802874	103	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	0.6 ± 0.3	2016-10-03
7802878	103A	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	0.7 ± 0.3	2016-10-03
7802871	103B	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802886	104	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802870	105	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	0.6 ± 0.3	2016-10-03
7802872	107	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802877	109	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	0.5 ± 0.3	2016-10-03
7802864	111	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802865	111A	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802869	113	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802889	118	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	0.8 ± 0.3	2016-10-03
7802861	22	2016-09-26 @ 11:00 am	2016-09-29 @ 9:00 am	1.4 ± 0.3	2016-10-03
7802862	22	2016-09-26 @ 11:00 am	2016-09-29 @ 9:00 am	1.7 ± 0.4	2016-10-03
7802854	28	2016-09-26 @ 11:00 am	2016-09-29 @ 9:00 am	0.6 ± 0.3	2016-10-03
7802855	29	2016-09-26 @ 11:00 am	2016-09-29 @ 9:00 am	0.6 ± 0.3	2016-10-03
7802856	30	2016-09-26 @ 11:00 am	2016-09-29 @ 10:00 am	0.8 ± 0.3	2016-10-03
7802857	31	2016-09-26 @ 11:00 am	2016-09-29 @ 9:00 am	0.9 ± 0.3	2016-10-03
7802858	32	2016-09-26 @ 11:00 am	2016-09-29 @ 10:00 am	0.9 ± 0.3	2016-10-03
7802860	32	2016-09-26 @ 11:00 am	2016-09-29 @ 10:00 am	0.7 ± 0.3	2016-10-03
7802900	ADMIN SEC OFF	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	< 0.3	2016-10-03
7802895	ASA OFF	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	0.5 ± 0.3	2016-10-03
7802897	ASST PRINCIPAL	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	< 0.3	2016-10-03
7802881	GUIDANCE A	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	0.6 ± 0.3	2016-10-03
7802882	GUIDANCE B	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	0.6 ± 0.3	2016-10-03
7802884	GUIDANCE B	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	0.9 ± 0.3	2016-10-03
7802876	GUIDANCE C	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	0.7 ± 0.3	2016-10-03
7802883	GUIDANCE D	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802896	GUIDANCE E	2016-09-26 @ 9:00 am	2016-09-29 @ 9:00 am	1.0 ± 0.3	2016-10-03
7802891	HEALTH OFF	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	0.6 ± 0.3	2016-10-03

October 7, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**MCPS Radon
Phase 18 Office Blanks**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802697	1	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7801899	10	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802932	11	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802935	12	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802915	13	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802941	2	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802942	3	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802919	4	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802918	5	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802917	6	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802916	7	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802952	8	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03
7802928	9	2016-09-26 @ 11:00 am	2016-09-29 @ 11:00 am	< 0.3	2016-10-03

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

October 7, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
MCPS Radon
Phase 18 Transit Blanks

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7714274	1	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802962	10	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714295	11	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714299	12	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714273	13	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714270	14	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802965	2	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802696	3	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802690	4	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714275	5	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7714298	6	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802990	7	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802974	8	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03
7802694	9	2016-09-26 @ 10:00 am	2016-09-29 @ 10:00 am	< 0.3	2016-10-03

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Radon test result report for:
MCPS Radon
Spike Sample Results

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7769880	101	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	22.9 ± 1.0	2016-09-28
7769884	102	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	22.4 ± 1.0	2016-09-28
7769885	103	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	23.0 ± 1.0	2016-09-28
7769890	104	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	22.3 ± 1.0	2016-09-28
7769891	105	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	26.8 ± 1.2	2016-09-28
7769899	106	2016-09-24 @ 8:00 am	2016-09-26 @ 8:00 am	24.1 ± 1.1	2016-09-28

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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 KC I Technologies Inc. Job Number 176788

NOMINAL Conditions: Radon Conc 26.1 pCi/L Rel. Hum 49.6 % Temp. 70.0 F

Date Start: 9/24/14 Date Stop: 9/26/14 Date Start: _____ Date Stop: _____

Time Start: 0758 Time Stop: 0758 Time Start: _____ Time Stop: _____

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

7769899, 7769884, 7769885,

7769889, 7769890, 7769891

F3 Left

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

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

Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

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

Device No.'s: _____

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



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Corporate Office: 936 Ridgebrook road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 18

Name of Schools:

1. Wood Acres Elementary School
2. Walt Whitman High School
3. Burning Tree Elementary School
4. Ashburton Elementary School
5. Bethesda Maintenance
6. Bethesda Transportation
7. Herbert Hoover Middle School
8. Cold Spring Elementary School
9. Garret Park Elementary School
10. Rock View Elementary School
11. Francis Scott Key Middle School
12. Montgomery Blair High School
13. Stephen Knolls School
14. Lourie Center
15. Shriver Elementary School
16. Viers Mill Elementary School
17. Highland Elementary School
18. Newport Middle School
19. Albert Einstein High School
20. Sligo Middle School
21. East Silver Spring Elementary School
22. Oak View Elementary School
23. Roscoe Nix Elementary School
24. Northwood High School
25. Springbrook High School
26. John F. Kennedy High School

	Date	Initials
Radon Test Kits Deployed	9/26/16	JM
Radon Test Kits Collected	9/29/16	JM
Radon Test Kits Shipped to Lab*	9/30/16	JM
Radon Test Kits Received by Lab*	10/03/16	JM

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



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Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase 18

Name of Schools:

1. Damascus High School
2. Cedar Grove Elementary School
3. Hallie Wells Middle School
4. Clarksburg Elementary School
5. Clarksburg High School
6. Woodlin Elementary School
7. Flora Singer Elementary School
8. Spring Mill Center
9. Dr. Charles Drew Elementary School
10. William Farquah Middle School
11. Rosa Parks Middle School
12. Blair Ewing Center
13. Lathrop Smith Environmental Center
14. Sequoyah Elementary School
15. Shady Grove Middle School
16. Captain James Daly Elementary School
17. Watkins Mills High School
18. Forest Oak Middle School
19. Gaithersburg Middle School
20. Emory Grove
21. Fields Road Elementary School
22. Beall Elementary School
23. Julius West Middle School
24. Thomas Wootton High School
25. Robert Frost High School
26. Travilah Elementary School
27. Jones Lane Elementary School
28. Longview School
29. Rock Terrace High School
30. Germantown Elementary School
31. Lake Seneca Elementary School

	Date	Initials
Radon Test Kits Deployed	9/27/16	JM
Radon Test Kits Collected	9/30/16	JM
Radon Test Kits Shipped to Lab*	9/30/16	JM
Radon Test Kits Received by Lab*	10/03/16	JM

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

October 17, 2016

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
SLIGO MIDDLE SCHOOL
MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7802850	HEALTH RM	2016-09-26 @ 11:00 am	2016-09-29 @ 10:00 am	0.5 ± 0.3	2016-10-03
7802866	M-1	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802867	M-2	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802868	M-OFF	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	0.8 ± 0.3	2016-10-03
7802890	MAIN OFF CON RM	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	< 0.3	2016-10-03
7802898	MAIN OFFICE	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	< 0.3	2016-10-03
7802899	MAIN OFFICE	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	< 0.3	2016-10-03
7802888	PE OFF	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	< 0.3	2016-10-03
7802875	PEOFF2	2016-09-26 @ 10:00 am	2016-09-29 @ 9:00 am	0.8 ± 0.3	2016-10-03
7802892	PRINCIPAL OFF	2016-09-26 @ 9:00 am	2016-09-29 @ 8:00 am	< 0.3	2016-10-03
7802863	VERIZON IN LINE	2016-09-26 @ 11:00 am	2016-09-29 @ 9:00 am	1.8 ± 0.4	2016-10-03

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RADON SCREENING SURVEY – FOLLOW-UP SLIGO MIDDLE SCHOOL

1401 Dennis Ave, Silver Spring, Maryland 20902

EXECUTIVE SUMMARY

Date of Test Report:	4/11/16 Follow-Up
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested	40
# Rooms \geq 4.0 pCi/L:	3
Low Value:	1.1
High Value:	5.4
Confirmed Rooms \geq 4.0 pCi/L US EPA Action Level	8

Summary of Sampling Events \geq 4.0 pCi/L

Room	Result (pCi/L) 2/29/16 Initial	Result (pCi/L) 4/11/16 Follow-Up	Average Result (pCi/L)
M2	11.3	3.5	7.4
100	8.5	4.4	6.5
104	8.2	5.4	6.8
111A	7.1	3.1	5.1
30	6.4	4.2	5.3
Health Office	6.4	3.0	4.7
M Office	6.2	1.2	3.7
Health	5.8	2.6	4.2
M1	5.8	2.0	3.9
Principal Office	5.3	3.2	4.3
102	5.2	1.8	3.5
Assistant Principal	4.6	2.3	3.5
Verizon Line In	4.5	2.2 Tampered	3.4
Guidance c	4.4	2.3	3.4
109	4.2	2.9	3.6
101B	4.2	2.4	3.3
101D	4.2	2.4	3.3
101E	4.1	2.7	3.4
Conference Room	4.1	3.4	3.8
111	4.0	2.7	3.4
103A	4.0	3.3	3.7

Admin Secretary Office	4.0	2.1	3.1
Guidance	4.0	2.2	3.1
110	2.0 Window Open	1.8	1.9
114	2.0 Window Open	1.4	1.7
101	3.8	1.8	2.8
101A	3.9	3.3	3.6
101C	3.6	2.4	3.0
103B	3.6	2.0	2.8
107	3.4	1.7	2.6
118	3.6	2.2	2.9
118	3.6	2.9	3.3
22	3.6	1.1	2.4
ASA Office	3.8	3.7	3.8
BS Office 2	3.3	1.4	2.4
Finance	3.3	3.1	3.2
Guid C	3.7	2.3	3.0
Mail Room	3.5	2.5	3.0
Main Office	3.4	2.2	2.8
PE Office	3.5	2.0	2.8
PE2	3.5	2.8	3.2



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MCPS RADON TESTING

Executive Summary: Sligo Middle School

Date of Test Report:	4/11/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	40
# Rooms \geq 4.0 pCi/L:	3
Low Value:	1.1
High Value:	5.4

Rooms with results \geq 4.0 pCi/L:
104 (5.4 pCi/L), 100 (4.4 pCi/L), 30 (4.2 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.

Retesting completed; missing or compromised samples need re-test.



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

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: Sligo Middle School
1401 Dennis Avenue
Silver Spring, MD 20902

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 Sligo Middle School, located at 1401 Dennis Avenue in Silver Spring, Maryland 20902 (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 forty-one (41) 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
$\geq 4.0 \text{ pCi/L}$	104	5.4
	100	4.4
	30	4.2
$< 4.0 \text{ pCi/L}$	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 (410) 316-7800.

Sincerely,



James M. Moulsdale
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		
Sligo MS		
Test Period: 03/14/16-03/17/16		
Kit Number	Room / Area	Result
3028726	22	1.1
3028762	30	4.2
3028906	100	4.4
3028769	101	1.8
3029108	102	1.8
3028907	104	5.4
3028767	107	1.7
3028768	109	2.9
3028765	110	1.8
3028746	111	2.7
3028745	114	1.4
3028764	118	2.2
3028728	118	2.9
3028748	101A	3.3
3028925	101B	2.4
3028749	101C	2.4
3028929	101D	2.4
3028750	101E	2.7
3028920	103A	3.3
3028924	103B	2.0
3028930	111A	3.1
3028908	Admin Secretary Office	2.1
3028935	ASA Office	3.7
3029107	Asst Principle Office	2.3
3028763	BS Office 2	1.4
3028926	Conference Room	3.4
3028947	Finance	3.1
3028741	Guid C	2.3
3028743	Guid Conf	2.7
3029104	Guidance	2.2
3028937	Health	2.6
3029106	Health Office	3.0
3028744	M Office	1.2
3028761	M1	2.0
3028747	M2	3.5
3028909	Mail Room	2.5
3029109	Main Office	2.2
3028770	PE 2	2.8
3028766	PE Office	2.0
3029101	Principle Office	3.2
3028742	* Verizon Line (tampered)	2.2

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

Sligo Middle School
1401 Dennis Avenue
Silver Spring MD 20902

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)	
3017604	3028937	03/14/2016	8:58 am	03/17/2016 8:13 am	Health	2.6
3017605	3029106	03/14/2016	8:58 am	03/17/2016 8:12 am	Health Office	3.0
3017606	3028909	03/14/2016	9:06 am	03/17/2016 8:05 am	Mail Room	2.5
3017607	3029109	03/14/2016	9:09 am	03/17/2016 8:04 am	Main Office	2.2
3017608	3028908	03/14/2016	9:13 am	03/17/2016 8:04 am	Admin Secretary Office	2.1
3017609	3028926	03/14/2016	9:19 am	03/17/2016 8:07 am	Conference Room	3.4
3017610	3028935	03/14/2016	9:21 am	03/17/2016 8:10 am	ASA Office	3.7
3017611	3029107	03/14/2016	9:24 am	03/17/2016 8:10 am	Asst. Principal Office	2.3
3017612	3028947	03/14/2016	9:31 am	03/17/2016 8:15 am	Finance	3.1
3017613	3029101	03/14/2016	9:35 am	03/17/2016 8:10 am	Principal Office	3.2

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: 03/22/2016 Date Reported: 03/23/2016

Report Reviewed By: Shane E. Heselton

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.

Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, 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.

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

Sligo Middle School
1401 Dennis Avenue
Silver Spring MD 20902

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)	
3017614	3029104	03/14/2016	9:40 am	03/17/2016 8:16 am	Guidance	2.2
3017615	3028906	03/14/2016	9:43 am	03/17/2016 8:51 am	100	4.4
3017616	3028748	03/14/2016	10:01 am	03/17/2016 8:21 am	101A	3.3
3017617	3028925	03/14/2016	10:01 am	03/17/2016 8:20 am	101B	2.4
3017618	3028749	03/14/2016	10:02 am	03/17/2016 8:22 am	101C	2.4
3017619	3028929	03/14/2016	10:02 am	03/17/2016 8:21 am	101D	2.4
3017620	3028750	03/14/2016	10:02 am	03/17/2016 8:20 am	101E	2.7
3017621	3028920	03/14/2016	10:07 am	03/17/2016 8:22 am	103A	3.3
3017622	3028924	03/14/2016	10:07 am	03/17/2016 8:22 am	103B	2.0
3017623	3029108	03/14/2016	10:10 am	03/17/2016 8:20 am	102	1.8

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

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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

Sligo Middle School
1401 Dennis Avenue
Silver Spring MD 20902

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)	
3017624	3028769	03/14/2016	10:20 am	03/17/2016 8:21 am	101	1.8
3017625	3028767	03/14/2016	10:23 am	03/17/2016 8:30 am	107	1.7
3017626	3028768	03/14/2016	10:27 am	03/17/2016 8:31 am	109	2.9
3017627	3028746	03/14/2016	10:33 am	03/17/2016 8:34 am	111	2.7
3017628	3028747	03/14/2016	10:35 am	03/17/2016 8:35 am	M2	3.5
3017629	3028930	03/14/2016	10:41 am	03/17/2016 8:44 am	111A	3.1
3017630	3028766	03/14/2016	10:45 am	03/17/2016 8:46 am	PE Office	2.0
3017631	3028770	03/14/2016	10:47 am	03/17/2016 8:50 am	PE2	2.8
3017632	3028765	03/14/2016	10:52 am	03/17/2016 8:58 am	110	1.8
3017633	3028745	03/14/2016	10:55 am	03/17/2016 8:56 am	114	1.4

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

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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

Sligo Middle School
1401 Dennis Avenue
Silver Spring MD 20902

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result (pCi/L)
3017634	3028764	03/14/2016	10:58 am	03/17/2016 8:54 am	118
3017635	3028744	03/14/2016	11:01 am	03/17/2016 9:00 am	M Office
3017636	3028761	03/14/2016	11:07 am	03/17/2016 8:43 am	M1
3017637	3028907	03/14/2016	11:10 am	03/17/2016 8:29 am	104
3017638	3028743	03/14/2016	11:18 am	03/17/2016 8:17 am	Guidance Conf.
3017639	3028741	03/14/2016	11:18 am	03/17/2016 8:18 am	Guidence Conf.
3017640	3028742	03/14/2016	11:24 am	03/17/2016 9:04 am	Verizon Line In
3017641	3028763	03/14/2016	11:26 am	03/17/2016 9:02 am	BS Office 2
3017642	3028762	03/14/2016	11:31 am	03/17/2016 9:06 am	30
3017643	3028726	03/14/2016	11:33 am	03/17/2016 9:06 am	22

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: 03/22/2016 Date Reported: 03/23/2016

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NRPP 10511AL
NRSB ARL0007EPA 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 21152Sligo Middle School
1401 Dennis Avenue
Silver Spring MD 20902

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3017644	3028728	03/14/2016 11:35 am - 03/17/2016 8:54 am	118	2.9

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: 03/22/2016 Date Reported: 03/23/2016

Report Reviewed By: Shane E. Heselton**Disclaimer:**Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

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AccuStar
Professional Radon Laboratory Services Since 1984
11 Awi Street
Medway MA 02053

Radon Device Type Open Face Canister

888-480-8812
www.accustarlabs.com

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	St. Jo Middle School
Address	1401 Dennis Ave
Address	
City / Town	Saint Joue 101103
State/Province Postal Code	MD 20902
Test Country	Montgomery County
Project Number	12146341

Contact Information:

Name	Tehsin Aurangabaddwala
Address	410-891-1726
Address	
City / Town	
State/Province Postal Code	
Test Country	
Project Number	

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
30289137					Health Office	72	3/14	8:58 AM	3/17	8:13 AM	
30289106					Main Room			9:06		8:17	
3028909					Main Office			9:09		8:05	
3028909					Admin Secretary Office			9:13		8:04	
3028926					Conference Room			9:19		8:07	
3028935					ASA office			9:21		6:10	
3028907					Asst. Dir. in Office			9:24		8:10	
3028947					Finance			9:31		8:15	
3028901					Principle Office			9:35		8:10 ✓	

Test must start before the expiration date shown on your device or test results will be invalid

PS 1/4



AccuStar
11 Awi Street
Medway MA 02053
Professional Radon Laboratory Services Since 1984

Radon Device Type Open Face Canister

888-480-8812
www.acustarlabs.com

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	Slimo MS
Address	1901 Dennis Ave
Address	
City / Town	Silver Spring
State/Province Postal Code	MD 20902
Test Country	Montgomery County
Project Number	12146341

Contact Information:

Contact	Tehsin Aurangabadiwala
Telephone	410-891-1726
Address	
City / Town	
State/Province Postal Code	
Test Country	
Project Number	

PP 3/4

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
3028769			101	72	(0,20)	31/14			8.71	am	
3028767			107	109	(0,73)				8,30		
3028768				109	(0,27)				8,31		
3028746				111	(0,33)				8.34		
3028747				102	(0,35)				8,35		
3028930				111A	(0,41)				8.44		
3028766					PE 0 floor	10,45			8,46		
3028770					PE 2		10,47		8.50		
3028765					110		10,51		8,58		
3028745					114		10,55		10,56	✓	

Test must start before the expiration date shown on your device or test results will be invalid



AccuStar
Professional Radon Laboratory Services Since 1984

AccuStar Labs
11 Awi Street
Medway MA 02053
www.acustarlabs.com

Send Written Report To:

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

Site Tested:

Site Name	Siligo Middle School
Address	1901 Denon Ave
Address	
City / Town	Siligo Spring
State/Province Postal Code	MD 20902
Test County	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
3028764			1	118	72	3/14/16	16:58 AM	3/17	8:59 AM	9:00 AM	
3028744			1	Office			11:01 AM				
3028761			1	M1			11:07				8:43
3028907			1	109			11:10				8:19
3028743			1	Guidance Conf.			11:18				8:17
3028741			1	Guidance C.			11:18				8:18
3028792			1	Vernon Line M			11:24				9:04
3028763			1	BS Office 2			11:26				9:07
3028762			1	30			11:31				9:06
3028766			1	22			11:33				9:06
											8:54

Test must start before the expiration date shown. Test results will be invalid.

4 of 4

NRPP 10511AL
NRSB ARL0007EPA 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: Shane E. Heselton**Disclaimer:**Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

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AccuStar Labs
11 Awi Street
Medway MA 02053
888-480-8812
www.accustarlabs.com

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	State/Province Postal Code	MD	21152
Report County	Baltimore County				
Email Address	tehsin@kci.com				

Contact Information:

Name	KCI OFFICE	Contact	Tehsin Aurangabadiwala		
Address	936 RIDGEBROOK RD.	Telephone	410-891-1726		
Address					
City / Town	SPARKS	Technician			
State/Province Postal Code	MD	21152	Cert. Number		
Test County	Montgomery County				
Project Number	12146341				

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
30209151	O	1	OFFICE	4 ^o	4 ^o	3/14/16	9:30AM	3/17/16	9:30AM		

NRPP 10511AL
NRSB ARL0007EPA 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: Shane E. Heselton**Disclaimer:**Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

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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AccuStar Labs
11 Awl Street
Medway MA 02053
888-480-8812
www.acustarlabs.com

Professional Radon Laboratory Services Since 1984

Send Written Report To:

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

Site Tested:

Site Name	KCI OFFICE		
Address	936 RIDGE BROOK RD		
Address			
City / Town	SPARKS		
State/Province Postal Code	MD	21152	
Test County	Montgomery County		
Project Number	12146341		

Contact Information:

Name	Tehsin Aurangabdwala		
Address	410-891-1726		
Address			
City / Town			
State/Province Postal Code			
Test County			
Project Number			

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
3029152	0	1	OFFICE	4 ^o C	3/15/16	9:30 AM	3/18/16	9:30 AM			

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.moulds@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: Carolyn D. Koke

Report Approved By: Carolyn D. Koke

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
RECEIVED JAN 21/2016
FORMAT 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
Site Address: Transit

City: Can State: PA Zip: 17025 County: Lebanon
Projects Contact Name: Don Can Phone: (724) 270-5163 Email: [redacted]

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
12	3028953 Transit	3010588	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am
1	8955 Transit	3010589	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am
2	8954 Transit	3010590	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am
3	8997 Transit	3010591	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am

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

Multi-Page Report Y-N
LAB USE ONLY

Detector Serial#		Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM
12	3028953	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am
1	8955	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am
2	8954	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am
3	8997	1	1/19/16 Mon: 09:00 am	1/24/16	9:30 am

1/27/2016

KCI Technologies, Inc.

3010588 3028953 ACPC275B EXP12/31/2018

Structure Type: (circle one or more) Basement - Crawlspace - Slab on Grade - Other
Test Purpose: Initial Screening - Follow Up Test -
(Circle all that apply) Post Mitigation - Real Estate - Other

Building Type: Residential - Non Residential
(Circle One) Private Day Care - Private School
Day Care in Public School - Public School
Owner waives confidentiality by signing here J. C. Steele

Send Results To:
Company Name: McTech Attention: James Maschale
Address: 936 Ridgebrook
City: MD State: MD Zip: 21152
Phone: 410-599-3826 Fax:
EMAIL Results to: James.Maschale@leci.com.

Make sure information is complete and correct.
If a recalculation is requested there is a \$10.00 recal 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.mouldsdale@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: Jeffrey Kartan

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.

Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

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Send Written Report To:

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

Site Tested:

Site Name	<i>KCPS</i>
Address	850 Haegerland Dr
Address	
City / Town	Doraville
State/Province	Postal Code <input type="text"/> MD <input type="text"/> 20850
Test Country	Montgomery County
Project Number	12146341

Contact Information:

Contact	Tehsin Aurangabadwala
Telephone	410-891-1726
Technician	
Cert. Number	
Signature	<i>Jhaes Mac</i>

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
	3029216	1		1		1	4/4/16	11:10 am	4/6/16	11:15 am	
	3029214	1		1		2					
	3029217	1		1		3					
	3029218	1		1		4					
	3029219	1		1		5					
	3029220	1		1		6					



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

MCPS RADON TESTING

Executive Summary: Sligo Middle School

Date of Test Report:	2/29/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	83
# Rooms \geq 4.0 pCi/L:	23
Low Value:	< 0.3
High Value:	11.3

Rooms with results \geq 4.0 pCi/L:

M2 (11.3 pCi/L), 100 (8.5 pCi/L), 104 (8.2 pCi/L), 111A (7.1 pCi/L), 30 (6.4 pCi/L), Health Office (6.4 pCi/L), M Office (6.2 pCi/L), Health (5.8 pCi/L), M1 (5.8 pCi/L), Principal Office (5.3 pCi/L), 102 (5.2 pCi/L), Assistant Principal (4.6 pCi/L), Verizon Line In (4.5 pCi/L), Guidance c (4.4 pCi/L), 109 (4.2 pCi/L), 101B (4.2 pCi/L), 101D (4.2 pCi/L), 101E (4.1 pCi/L), Conference Room (4.1 pCi/L), 111 (4.0 pCi/L), 103A (4.0 pCi/L), Admin Secretary Office (4.0 pCi/L), Guidance E (4.0 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.



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

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: Sligo Middle School
 1401 Dennis Avenue
 Silver Spring, MD 20902

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 Sligo Middle School, located at 1401 Dennis Avenue in Silver Spring, Maryland 20902 (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 one hundred (100) 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
$\geq 4.0 \text{ pCi/L}$	M2	11.3
	100	8.5
	104	8.2
	111A	7.1
	30	6.4, 6.3(D)
	Health Office	6.4
	M Office	6.2
	Health	5.8, 5.5(D)
	M1	5.8
	Principal Office	5.3
	102	4.9, 5.2(D)
	Assistant Principal	4.6
	Verizon line In	4.5
	Guidance C	4.4
	109	4.2
	101B	4.2
	101D	4.2
	101E	4.1
	Conference Room	4.1
	111	4.0
	103A	4.0

≥4.0 piC/L	Admin Secretary Office	4.0
	Guidance E	4.0
<4.0 piC/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 0.3 pCi/L. One field blank had a low concentration of radon detected, (0.6 piC/L) suggesting the test kit seal may have been compromised. 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. Moulsdale
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		
Sligo Middle School		
Test Period: 02/01/16-02/04/16		
Kit Number	Room / Area	Result
7718967	13	2.4
7718981	15	1.8
7718988	17	2.6
7718987	19	1.5
7718968	21	1.8
7718966	22	3.6
7718982	23	2.5
7718996	24	2.1
7718972	25	2.1
7727123	26	2.4
7718990	28	2.5
7718992	29	1.5
7718985	30	6.4
7718986	31	1.5
7718970	32	2.9
7721585	100	8.5
7721581	101	3.8
7721580	102	4.9
7721589	103	3.8
7721584	104	8.2
7721559	105	2.9
7721583	106	2.7
7721586	107	3.4
7719000	108	2.0
7721587	109	4.2
7718962	111	4.0
7721558	112	2.0
7721557	116	2.5
7718960	117	1.2
7721553	118	3.6
7718991	127	1.5
7718969	130	1.8
7721600	215	1.9
7721599	218	2.1
7718971	027A	1.6
7718978	027B	1.5
7718974	027C	1.9
7721588	101A	3.9
7721592	101B	4.2
7721590	101C	3.6
7721582	101D	4.2
7721597	101E	4.1
7721593	103A	4.0
7721591	103B	3.6
7718973	* 110 (window cracked)	2.0
7718958	111A	7.1

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Sligo Middle School		
Test Period: 02/01/16-02/04/16		
Kit Number	Room / Area	Result
7727114	* 114 (window cracked)	2.0
7721655	ADMIN SEC OFF	4.0
7721561	ASA OFFICE	3.8
7721563	ASSIST PRINCIPAL	4.6
7718976	BS MANAG OFF	2.9
7718984	BS OFFICE 2	3.3
7721595	CAFETERIA	2.2
7721596	CAFETERIA	2.2
7727126	COMM LAB	1.5
7721567	CONF DOOM	4.1
7718994	DANCE STUDIO	2.8
7721570	FINANCE	3.3
7721577	GUID A	3.2
7721572	GUID B	3.0
7721566	GUID C	4.4
7721568	GUID CONF	3.9
7721578	GUID D	2.1
7721579	GUID E	4.0
7721660	GYM	1.4
7727104	GYM	1.5
7721574	HEALTH	5.8
7721575	HEALTH OFFICE	6.4
7722181	M OFFICE	6.2
7718961	M1	5.8
7718989	M2	11.3
7721560	MAIL ROOM	3.5
7721565	MAIN OFFICE	3.4
7718963	MEDIA CNTR	1.0
7718975	MEDIA CNTR	1.5
7718964	MEDIA OFFICE	1.3
7718995	MEDIA WORKROOM	1.1
7718957	PE OFFICE	3.5
7718993	PE OFFICE MEN	2.2
7721594	PE2	3.5
7721554	PRINCIPAL OFFICE	5.3
7718959	SECURITY	2.2
7718979	STUDIO MANAG OFF	1.4
7718980	TEAM RM A	1.5
7718997	TEAM ROOM B	2.3
7718965	VERIZON LINE IN	4.5

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Sligo Middle School		
Test Period: 02/01/16-02/04/16		
Kit Number	QC Type	Result
7718999	D (102)	5.2
7727132	D (106)	2.1
7721556	D (118)	3.6
7721598	D (215)	1.5
7718983	D (23)	2.2
7718977	D (30)	6.3
7721569	D (GUID C)	3.7
7727110	D (GYM)	1.4
7721576	D (HEALTH)	5.5
7718998	D (TEAM RM B)	2.2
7721562	FB (101D)	< 0.3
7721564	FB (114)	< 0.3
7721555	FB (ASSIST PRINCIPAL)	0.6
7719161	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:
SLIGO MIDDLE SCHOOL
1

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7719161		2016-02-01 @ 3:00 pm	2016-02-04 @ 12:00 pm	< 0.3	2016-02-09
7718971	027A	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.6 ± 0.4	2016-02-09
7718978	027B	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7718974	027C	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.9 ± 0.4	2016-02-08
7721585	100	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	8.5 ± 0.8	2016-02-08
7721581	101	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.8 ± 0.6	2016-02-09
7721588	101A	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.9 ± 0.5	2016-02-08
7721592	101B	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.2 ± 0.5	2016-02-08
7721590	101C	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.6 ± 0.5	2016-02-08
7721562	101D	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	< 0.3	2016-02-08
7721582	101D	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.2 ± 0.5	2016-02-08
7721597	101E	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.1 ± 0.6	2016-02-09
7718999	102	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	5.2 ± 0.6	2016-02-08
7721580	102	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.9 ± 0.5	2016-02-08
7721589	103	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.8 ± 0.5	2016-02-08
7721593	103A	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.0 ± 0.6	2016-02-09
7721591	103B	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.6 ± 0.5	2016-02-08
7721584	104	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	8.2 ± 0.7	2016-02-08
7721559	105	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.9 ± 0.4	2016-02-08
7721583	106	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.7 ± 0.4	2016-02-08
7727132	106	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.1 ± 0.4	2016-02-08
7721586	107	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.4 ± 0.6	2016-02-09
7719000	108	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.0 ± 0.4	2016-02-08
7721587	109	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.2 ± 0.5	2016-02-08
7718973	110	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.0 ± 0.4	2016-02-09
7718962	111	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	4.0 ± 0.5	2016-02-08
7718958	111A	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	7.1 ± 0.7	2016-02-08
7721558	112	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.0 ± 0.4	2016-02-08
7727114	114	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.0 ± 0.4	2016-02-08
7721564	114	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	< 0.3	2016-02-09
7721557	116	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.5 ± 0.4	2016-02-08
7718960	117	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.2 ± 0.3	2016-02-08
7721553	118	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	3.6 ± 0.6	2016-02-09
7721556	118	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	3.6 ± 0.6	2016-02-09
7718991	127	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.3	2016-02-08
7718967	13	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	2.4 ± 0.4	2016-02-08
7718969	130	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.8 ± 0.4	2016-02-09

February
23,
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**LABORATORY ANALYSIS
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Radon test result report for:
SLIGO MIDDLE SCHOOL
1

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7718981	15	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	1.8 ± 0.4	2016-02-09
7718988	17	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	2.6 ± 0.4	2016-02-08
7718987	19	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7718968	21	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	1.8 ± 0.4	2016-02-08
7721598	215	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7721600	215	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	1.9 ± 0.5	2016-02-09
7721599	218	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.1 ± 0.4	2016-02-08
7718966	22	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	3.6 ± 0.5	2016-02-08
7718982	23	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.5 ± 0.4	2016-02-08
7718983	23	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.2 ± 0.4	2016-02-08
7718996	24	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.1 ± 0.5	2016-02-09
7718972	25	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.1 ± 0.5	2016-02-09
7727123	26	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.4 ± 0.4	2016-02-08
7718990	28	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.5 ± 0.4	2016-02-08
7718992	29	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7718977	30	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	6.3 ± 0.6	2016-02-08
7718985	30	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	6.4 ± 0.6	2016-02-08
7718986	31	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7718970	32	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	2.9 ± 0.5	2016-02-09
7721655	ADMIN SEC OFF	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	4.0 ± 0.6	2016-02-09
7721561	ASA OFFICE	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	3.8 ± 0.5	2016-02-08
7721555	ASSIST PRINCIPAL	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	0.6 ± 0.3	2016-02-08
7721563	ASSIST PRINCIPAL	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	4.6 ± 0.6	2016-02-09
7718976	BS MANAG OFF	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	2.9 ± 0.5	2016-02-09
7718984	BS OFFICE 2	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	3.3 ± 0.5	2016-02-09
7721595	CAFETERIA	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.2 ± 0.4	2016-02-08
7721596	CAFETERIA	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.2 ± 0.4	2016-02-08
7727126	COMM LAB	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7721567	CONF DOOM	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	4.1 ± 0.5	2016-02-08
7718994	DANCE STUDIO	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.8 ± 0.5	2016-02-09
7721570	FINANCE	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.3 ± 0.5	2016-02-08
7721577	GUID A	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.2 ± 0.5	2016-02-08
7721572	GUID B	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.0 ± 0.5	2016-02-08
7721569	GUID C	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.7 ± 0.5	2016-02-08
7721566	GUID C	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.4 ± 0.6	2016-02-09
7721568	GUID CONF	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.9 ± 0.6	2016-02-09
7721578	GUID D	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	2.1 ± 0.4	2016-02-08

February 23, 2016

**LABORATORY ANALYSIS
REPORT ****

Radon test result report for:
SLIGO MIDDLE SCHOOL
1

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7721579	GUID E	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	4.0 ± 0.5	2016-02-08
7727104	GYM	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-08
7721660	GYM	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	1.4 ± 0.4	2016-02-09
7727110	GYM	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	1.4 ± 0.4	2016-02-09
7721576	HEALTH	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	5.5 ± 0.6	2016-02-08
7721574	HEALTH	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	5.8 ± 0.7	2016-02-09
7721575	HEALTH OFFICE	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	6.4 ± 0.6	2016-02-08
7718961	M 1	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	5.8 ± 0.7	2016-02-09
7722181	M OFFICE	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	6.2 ± 0.7	2016-02-09
7718989	M2	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	11.3 ± 0.9	2016-02-08
7721560	MAIL ROOM	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	3.5 ± 0.5	2016-02-08
7721565	MAIN OFFICE	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	3.4 ± 0.5	2016-02-08
7718963	MEDIA CNTR	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.0 ± 0.4	2016-02-09
7718975	MEDIA CNTR	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-09
7718964	MEDIA OFFICE	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.3 ± 0.4	2016-02-08
7718995	MEDIA WORKROOM	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.1 ± 0.3	2016-02-08
7718957	PE OFFICE	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	3.5 ± 0.5	2016-02-08
7718993	PE OFFICE MEN	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.2 ± 0.4	2016-02-08
7721594	PE2	2016-02-01 @ 2:00 pm	2016-02-04 @ 11:00 am	3.5 ± 0.5	2016-02-09
7721554	PRINCIPAL OFFICE	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	5.3 ± 0.6	2016-02-08
7718959	SECURITY	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.2 ± 0.5	2016-02-09
7718979	STUDIO MANAG OFF	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.4 ± 0.4	2016-02-08
7718980	TEAM RM A	2016-02-01 @ 12:00 pm	2016-02-04 @ 11:00 am	1.5 ± 0.4	2016-02-09
7718998	TEAM RM B	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.2 ± 0.4	2016-02-08
7718997	TEAM ROOM B	2016-02-01 @ 1:00 pm	2016-02-04 @ 11:00 am	2.3 ± 0.4	2016-02-08
7718965	VERIZON LINE IN	2016-02-01 @ 11:00 am	2016-02-04 @ 11:00 am	4.5 ± 0.5	2016-02-08

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23,
2016

**** LABORATORY ANALYSIS
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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

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: 12/1/16

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

E3 Left

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



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

Corporate Office: 936 Ridgebrook road • Sparks, Maryland 21152 • 410-316-7800 • (Fax) 410-316-7935

Radon Test Kit Chain of Custody

Project Name: MCPS Radon 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



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

Radon Test Kit Chain of Custody

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

Name of School/Facility:

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

	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