



## 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  $\geq 2.0$ -pCi/L;  $\geq 2.7$ -pCi/L;  $\geq 4.0$ -pCi/L; and  $\geq 8.0$ -pCi/L;
- QA/QC Results - (field blanks and duplicates) indicating location collected; trip and office blanks; and spike sample results;
- Invalid Measurement Locations – missed locations, missing and or damaged/compromised testing devices.

Attachment 2 – Laboratory Report(s)

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

School Year: **23-24**

Facility:	Montgomery Village Middle School
Address:	19300 Watkins Mill Road
	Montgomery Village, MD 20886

Reason for Testing:	<input type="checkbox"/> Scheduled Re-Testing (2 or 5-year schedule) <input checked="" 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 <b>-or-</b> <input type="checkbox"/> Follow-up Testing
Testing Status:	<input checked="" type="checkbox"/> No Further Testing Needed <b>-or-</b> <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 ( $>8.0$ -pCi/L) <input type="checkbox"/> Required ( $\geq 4.0$ -pCi/L) <input type="checkbox"/> Consider ( $\geq 2.0$ & $<4.0$ -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)

### 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	
Brittany Maas			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):	01/29/2024
<input type="checkbox"/> Long-Term				02/01/2024
Does the test period include weekends, school breaks or holidays?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If “Yes” please explain/detail in the space below:</i>				
Was HVAC operating under occupied conditions?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If “No” please explain/detail in the space below:</i>				

Testing (continued)

	Detectors Deployed		
	Ground-Contact	Upper-Level(s)	Total
Test Locations <sup>1</sup>	95	7	102
Duplicates <sup>2</sup>	10	1	11
Field Blanks <sup>3</sup>	5	0	5
Grand Total			118

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 <sup>1</sup>	6	Trip Blank(s) <sup>2</sup>	1	Office Blank(s) <sup>3,4</sup>	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 Results<sup>1</sup> and Determination of Valid Measurements<sup>2</sup>**

	<b>Ground-Contact</b>	<b>Upper-Level(s)</b>	<b>Total</b>
Number of test locations:	95	7	102
Number of locations $\geq 8.0$ -pCi/L:	0	0	0
Number of locations $\geq 4.0$ and $\leq 8$ -pCi/L:	0	0	0
Number of locations $\geq 2.7$ and $\leq 4$ -pCi/L:	0	0	0
Number of locations $\geq 2.0$ and $\leq 4$ -pCi/L:	1	0	1
Number of missing required test locations <sup>3</sup> :	0	0	0
Percentage of missing test locations for the facility <sup>4,5</sup> :	0	0	0

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

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

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

4 – if all valid measurements are  $< 4.0$ -pCi/L and the total number of test locations are  $\geq 18$ , 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  $\geq 4.0$ -pCi/L and the total number of test locations are  $\geq 20$ , there is an allowance of  $\leq 25\%$  of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023.

**Summary of Test Results<sup>1</sup> and Determination of Valid Measurements<sup>2</sup> (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
<i>If Yes to both above – then Testing Status – ‘No Further Testing Needed’ mark ‘NA’ below and complete Conclusions section</i>	
<b>If No to either above</b> , were all results obtained under 4.0-pCi/L <b>and</b> were there sufficient valid measurements obtained? <sup>1,2</sup>  <i>If Yes – then Testing Status - ‘No Further Testing Needed’ complete Conclusion section</i> <i>If No, then Testing Status - ‘Follow-up Testing Required’ continue below</i>	<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:
  - 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****Montgomery Village Middle School****Test Period: 01/29/2024 - 02/01/2024**

Kit Number	Room / Area	Result
11633776	10	< 0.3
11633777	10	< 0.3
11633775	13	0.9
11633768	15	0.8
11285546	17	0.9
11633781	17	< 0.3
11633782	17	0.8
11633771	18	< 0.3
11633778	20	< 0.3
11633772	22	< 0.3
11633766	24	0.7
11633765	29	< 0.3
11633749	31	< 0.3
11285567	34	< 0.3
11633788	34	< 0.3
11633773	35	< 0.3
11633774	36	0.6
11633783	37	< 0.3
11633784	38	< 0.3
11633769	39	< 0.3
11633770	40	< 0.3
11633761	42	< 0.3
11633764	43	< 0.3
11285549	45	< 0.3
11633756	45	< 0.3
11633762	46	< 0.3
11633763	46	0.5
11633757	47	< 0.3
11633758	48	< 0.3
11285550	100	0.7
11285556	102	0.8
11285528	104	0.6
11285562	110	0.8
11633793	112	1.3
11633791	114	0.6
11633797	116	0.7
11633795	120	1.1
11633799	128	1.0
11633785	130	0.7
11634185	137	< 0.3
11633692	139	< 0.3
11633683	140	< 0.3
11633759	141	< 0.3

**Table 1- Radon Testing Results****Montgomery Village Middle School****Test Period: 01/29/2024 - 02/01/2024**

Kit Number	Room / Area	Result
11634194	141	< 0.3
11633678	143	0.5
11633699	144	< 0.3
11634200	145	< 0.3
11634187	146	< 0.3
11634190	147	< 0.3
11634184	149	< 0.3
11634197	152	< 0.3
11634998	152	< 0.3
11634196	153	< 0.3
11634199	156	< 0.3
11634195	157	0.5
11633694	158	< 0.3
11634189	158	< 0.3
11633700	159	0.6
11633686	160	< 0.3
11633747	161	< 0.3
11633748	161	< 0.3
11633698	162	< 0.3
11139719	163	< 0.3
11633677	164	0.6
11633760	166	0.5
11633691	167	< 0.3
11633750	167	< 0.3
11139711	168	< 0.3
11634188	168	< 0.3
11633697	170	< 0.3
11633690	173	0.8
11633684	177	0.5
11633790	177	< 0.3
11633789	179	< 0.3
11285551	181	< 0.3
11285553	182	< 0.3
11285552	186	0.8
11285555	100B	0.8
11285548	100D	1.9
11285561	100E	0.8
11285547	100F	2.1
11285532	100G	0.7
11285543	100H	0.8
11285537	100J	0.7
11285538	100L	0.7
11285534	100N	0.9



<b>Table 1- Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Test Period: 01/29/2024 - 02/01/2024</b>		
Kit Number	Room / Area	Result
11285544	100N	0.5
11285533	100P	0.7
11285554	102A	0.8
11285527	104A	0.8
11285560	104C	0.9
11633787	104C	1.1
11633786	104D	0.8
11633800	104E	1.2
11633792	104F	1.4
11633794	128A	0.9
11633796	128A	0.7
11633780	130A	1.0
11285531	132D	1.0
11633755	140A	< 0.3
11634186	141 OFFICE	< 0.3
11633676	141B	< 0.3
11634179	141B	< 0.3
11634180	141B	< 0.3
11285545	141C	< 0.3
11285559	141C	< 0.3
11633689	141D	< 0.3
11633685	141E	< 0.3
11634993	153B	< 0.3
11634191	153C	< 0.3
11634192	153C	< 0.3
11634198	156A	0.5
11633767	BOYS LOCKER ROOM	1.0
11633779	GIRLS LOCKER ROOM	1.0
11285569	GYM	1.3
11633693	GYM	1.0
11633894	KITCHEN OFFICE	0.9
11285568	STAGE	1.0



<b>Table 3 - QC Radon Testing Results</b>			
<b>Montgomery Village Middle School</b>			
<b>Test Period: 01/29/2024 - 02/01/2024</b>			
<b>Kit Number</b>	<b>QC Type</b>	<b>Room / Area</b>	<b>Result</b>
11285546	D	17	0.9
11633781	FB	17	<0.3
11633788	D	34	<0.3
11285549	D	45	<0.3
11633762	FB	46	<0.3
11633747	D	161	<0.3
11633691	D	167	<0.3
11634188	FB	168	<0.3
11633790	D	177	<0.3
11285544	D	100n	0.5
11285560	D	104c	0.9
11633794	D	128a	0.9
11634179	D	141b	<0.3
11634180	FB	141b	<0.3
11285559	FB	141c	<0.3
11634191	D	153c	<0.3



**Attachment 2:**  
**Laboratory Reports**

Radon test result report for:

**MONTGOMERY VILLAGE MS  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11633776	10	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633777	10	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285550	100	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11285555	100B	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.4	2024-02-05
11285548	100D	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.9 ± 0.4	2024-02-05
11285561	100E	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11285547	100F	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	2.1 ± 0.4	2024-02-05
11285532	100G	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11285543	100H	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11285537	100J	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11285538	100L	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11285544	100N	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.5 ± 0.3	2024-02-05
11285534	100N	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.9 ± 0.3	2024-02-05
11285533	100P	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11285556	102	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11285554	102A	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11285528	104	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.6 ± 0.3	2024-02-05
11285527	104A	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11285560	104C	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.9 ± 0.3	2024-02-05
11633787	104C	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.1 ± 0.3	2024-02-05
11633786	104D	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11633800	104E	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.2 ± 0.3	2024-02-05
11633792	104F	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.4 ± 0.3	2024-02-05
11285562	110	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11633793	112	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.3 ± 0.3	2024-02-05
11633791	114	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.6 ± 0.3	2024-02-05
11633797	116	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11633795	120	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.1 ± 0.3	2024-02-05
11633799	128	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.0 ± 0.3	2024-02-05
11633796	128A	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11633794	128A	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.9 ± 0.3	2024-02-05
11633775	13	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.9 ± 0.3	2024-02-05
11633785	130	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11633780	130A	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.0 ± 0.3	2024-02-05
11285531	132D	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.0 ± 0.3	2024-02-05
11634185	137	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633692	139	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05

Radon test result report for:  
**MONTGOMERY VILLAGE MS**  
**MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11633683	140	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633755	140A	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634194	141	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633759	141	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634186	141 OFFICE	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634180	141B	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633676	141B	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634179	141B	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285559	141C	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285545	141C	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633689	141D	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633685	141E	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633678	143	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.5 ± 0.3	2024-02-05
11633699	144	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634200	145	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634187	146	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634190	147	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634184	149	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633768	15	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11634998	152	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634197	152	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634196	153	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634993	153B	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634192	153C	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634191	153C	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634199	156	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634198	156A	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.5 ± 0.3	2024-02-05
11634195	157	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.5 ± 0.3	2024-02-05
11633694	158	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634189	158	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633700	159	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.6 ± 0.3	2024-02-05
11633686	160	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633747	161	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633748	161	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633698	162	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11139719	163	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633677	164	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.6 ± 0.3	2024-02-05

Radon test result report for:  
**MONTGOMERY VILLAGE MS  
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11633760	166	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.5 ± 0.3	2024-02-05
11633750	167	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633691	167	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11634188	168	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11139711	168	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633782	17	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11633781	17	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285546	17	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.9 ± 0.4	2024-02-05
11633697	170	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633690	173	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11633684	177	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.5 ± 0.3	2024-02-05
11633790	177	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633789	179	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633771	18	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285551	181	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285553	182	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285552	186	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.8 ± 0.3	2024-02-05
11633778	20	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633772	22	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633766	24	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.7 ± 0.3	2024-02-05
11633765	29	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633749	31	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633788	34	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285567	34	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633773	35	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633774	36	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.6 ± 0.3	2024-02-05
11633783	37	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633784	38	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633769	39	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633770	40	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633761	42	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633764	43	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11285549	45	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633756	45	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633763	46	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.5 ± 0.3	2024-02-05
11633762	46	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633757	47	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05



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February 7, 2024

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

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Radon test result report for:

**MONTGOMERY VILLAGE MS  
MAIN**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11633758	48	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	< 0.3	2024-02-05
11633767	BOYS LOCKER ROOM	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.0 ± 0.3	2024-02-05
11633779	GIRLS LOCKER ROOM	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.0 ± 0.3	2024-02-05
11285569	GYM	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.3 ± 0.4	2024-02-05
11633693	GYM	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.0 ± 0.3	2024-02-05
11633894	KITCHEN OFFICE	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	0.9 ± 0.3	2024-02-05
11285568	STAGE	2024-01-29 @ 8:00 am	2024-02-01 @ 8:00 am	1.0 ± 0.3	2024-02-05

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

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February 7, 2024

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

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Radon test result report for:  
**OFFICE BLANK**  
**MAIN**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11285577	OB	2024-01-29 @ 10:00 am	2024-02-01 @ 11:00 am	< 0.3	2024-02-05

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February 7, 2024

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

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Radon test result report for:  
**TRAVEL BLANK**  
**MAIN**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11633585	TB	2024-01-29 @ 10:00 am	2024-02-01 @ 11:00 am	< 0.3	2024-02-05

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January 29, 2024

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

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Radon test result report for:  
**STORAGE**  
**KCI**

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

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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: 1/22/24 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0831 Time Stop: 0831 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (6) CHAR BAGS - 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  $\mu$ R/h Elevation = 820 ft**

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January 29, 2024

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

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Radon test result report for:  
**BOWSER MORNER  
MAIN**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
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

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



### Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing January 29<sup>th</sup> – February 1<sup>st</sup> 2024

Name of Schools:

1. John F. Kennedy HS
2. Francis Scott Key MS
3. Montgomery Village MS
4. Oak View ES
5. North Chevy Chase ES
6. Cabin Branch ES

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	Date	Initials
Radon Test Kits Deployed	01/29/2024	OM
Radon Test Kits Collected	02/01/2024	JW
Radon Test Kits Shipped to Lab*	02/01/2024	OM
Radon Test Kits Received by Lab*	02/05/2024	OM

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

**Attachment 3:**  
**Sampling Location Map**





**MCPS RADON TESTING – EXECUTIVE SUMMARY**

Site Name	Montgomery Village Middle School
Date of Test Report	3/2/2023
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	89
# Rooms Re-tested	4
# Rooms $\geq$ 4.0 pCi/L	5
Lowest Value	<0.3 pCi/L
Highest Value	7.5 pCi/L

Project Status:

1. Initial testing completed;
2. Missing and compromised need re-test.
3. Retesting Completed 2/14/23 – 2/17/23.
4. Mitigate Rooms 37, 38, 40, and 45.



March 3, 2023

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

Re: **Radon Testing Services**  
KCI Job # 122210551

Location: Montgomery Village Middle School  
24200 Woodfield Road  
Gaithersburg, MD 20882

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 Montgomery Village Middle School, located at 24200 Woodfield Road, Gaithersburg, MD 20882 (subject site).

**Scope of Services:**

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from <https://www.montgomeryschoolsmd.org> or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site initially on January 23, 2023 and deployed one hundred five (105) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

KCI returned to the site on January 26, 2023 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Accustar Labs - MA. for analysis by gamma-ray spectroscopy. Accustar Labs - MA is a NRSB certified analytical laboratory for radon analysis (certification #ARL0017) located at 2 Saber Way, Ward Hill, MA 01835.

KCI re-visited the site on February 14, 2023 to deploy seven (7) activated charcoal (AC) radon test kits for testing of missed rooms or compromised test kits during initial testing.

KCI returned to the site on February 17, 2023 to retrieve the radon re-sampling test kits. KCI shipped all radon tests via overnight delivery to Accustar Labs – MA for analysis by gamma-ray spectroscopy. Accustar Labs – MA is a NRSB certified analytical laboratory for radon analysis (certification #ARL0017) located at 2 Saber Way, Ward Hill, MA 01835.

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.

### **Evaluation of Testing Conditions:**

These tests represent:

- Follow up to initial testing.

These tests were conducted to:

- Evaluate radon concentration levels at the facility.

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

KCI recorded observations of the following conditions in each room during the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate temperatures ranged from the 31°F to 52°F. Maximum sustained winds ranged from 5-25 miles per hour. Average humidity was around 60% with .32 inches of precipitation (rain) was recorded during testing period.

During the re-testing period, weather records indicate low temperatures were in the mid-20s°F and high temperatures ranged to the 70s°F. Maximum sustained winds ranged from 0-33 miles per hour. Average humidity was around 62% with 1.01 inches of precipitation (rain) was recorded during testing period.

**Results:**

The sampling locations and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Attachment B). Sampling locations and associated test kit identification numbers and relevant field observations are listed on Table 3 (Attachment B). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 pCi/L	37	3.6
	38	7.5
	40	4.0
	45	3.5
	45	3.7
<4.0 pCi/L	See Attachment B	

The results of the radon re-testing analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 pCi/L	None	N/A
<4.0 pCi/L	See Attachment B	

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

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

Sincerely,



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

Attachments: A- Floor Plan with Test Locations  
B- Table 1-3, Radon Test Summary Spreadsheets  
C- Laboratory Analytical Results

# ATTACHMENT A

## Floor Plan With Test Locations

# ATTACHMENT B

## Radon Test Summary Spreadsheet

**Table Notes:**

AC- Activated Charcoal

ACI- Air Check, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results		
Montgomery Village MS		
Test Period: 01/10/2023 - 01/13/2023		
Kit Number	Room / Area	Result
11285777	10	0.7
11285779	13	0.9
11285780	15	1.0
11285781	17	0.9
11285782	17	1.0
11285783	17	< 0.3
11285776	18	< 0.3
11285784	19	2.0
11285775	20	0.8
11285774	22	1.3
11285773	24	1.4
11285785	29	1.4
11285786	31	2.1
11285771	34	2.0
11285772	34	1.6
11285787	35	3.1
11285770	36	2.2
11285788	37	3.6
11285769	38	7.5
11285768	40	4.0
11285767	42	1.5
11285760	43	1.5
11285761	45	3.5
11285762	45	< 0.3
11285763	45	3.7
11285766	46	1.4
11285764	47	1.9
11285765	48	1.4
11285701	100	0.6
11285702	102	< 0.3
11285718	104	0.6
11285728	110	0.7
11285729	112	0.9
11285730	114	0.7
11285732	114	1.0
11285731	116	0.9
11285733	120	1.0
11285734	128	1.5
11285736	130	1.0
11285797	137	< 0.3
11634504	139	< 0.3
11285741	140	0.7



Table 1- Radon Testing Results		
Montgomery Village MS		
Test Period: 01/10/2023 - 01/13/2023		
Kit Number	Room / Area	Result
11285742	140	0.8
11285743	140	< 0.3
11285793	143	< 0.3
11634501	144	0.7
11634502	144	< 0.3
11634503	144	< 0.3
11285791	145	< 0.3
11285792	145	0.6
11285800	146	< 0.3
11285789	147	< 0.3
11285790	149	< 0.3
11285755	156	< 0.3
11285754	157	0.6
11285750	159	< 0.3
11285752	161	0.6
11285753	161	0.6
11285751	163	< 0.3
11285749	168	0.7
11285745	174	0.8
11634505	179	1.4
11285746	180	0.6
11634506	181	< 0.3
11285747	186	0.7
11285748	192	1.1
11285707	100B	0.7
11285717	100D	0.7
11285708	100E	< 0.3
11285716	100F	0.9
11285715	100G	1.0
11285714	100H	0.6
11285713	100J	0.7
11285712	100L	< 0.3
11285709	100N	0.5
11285710	100P	< 0.3
11285711	100P	0.7
11285703	102A	< 0.3
11285704	102B	0.9
11285705	102C	0.6
11285706	102D	0.7
11285720	104B	< 0.3
11285721	104B	0.5
11285722	104B	< 0.3

Table 1- Radon Testing Results		
Montgomery Village MS		
Test Period: 01/10/2023 - 01/13/2023		
Kit Number	Room / Area	Result
11285723	104C	< 0.3
11285725	104D	< 0.3
11285726	104E	0.6
11285727	104F	< 0.3
11285719	105A	0.6
11285735	128A	1.4
11285737	132E	1.0
11285744	149A	N/A
11285796	141A	< 0.3
11285799	141B	< 0.3
11285798	141C	< 0.3
11285756	156A	1.1
11285758	CAFE	< 0.3
11285759	CAFE	0.6
11285778	GIRLS LOCKER ROOM	1.1
11285738	GYM	1.4
11285739	GYM	N/A
11285757	KITCHEN MGR OFFICE	1.2
11285794	MEDIA	< 0.3
11285795	MEDIA	0.6
11285740	STAGE	1.3

Table 2- Radon Testing Results			
Montgomery Village MS			
Test Period: 01/10/23 - 01/13/23			
Kit Number	QC Type	Room / Area	Result
11285782	D	17	1.0
11285783	FB	17	< 0.3
11285772	D	34	1.6
11285763	D	45	3.7
11285762	FB	45	< 0.3
11285732	D	114	1.0
11285742	D	140	0.8
11285743	FB	140	< 0.3
11634502	D	144	< 0.3
11634503	FB	144	< 0.3
11285792	D	145	0.6
11285753	D	161	0.6
11285711	D	100P	0.7
11285721	D	104B	0.5
11285722	FB	104B	< 0.3
11285162	OB	OFFICE BLANK	< 0.3
11284899	TB	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Montgomery Village MS		
Test Period: 01/10/23 - 01/13/23		
Kit Number	Room/Area	Result
	N/A	

Summary of Missing, Compromised and >= 4 piC/L Tests		
Montgomery Village MS		
Test Period: 01/10/23 - 01/13/23		
Kit Number	Room/Area	Result
11285737	Gym	Missing
11285744	Gym Office	Damaged
11285788	37	3.6
11285769	38	7.5
11285768	40	4.0
11285761	45	3.5
11285763	45	3.7

Table Note:  
\* Missing or Compromised Sample

Table 1- Radon Testing Results		
Montgomery Village MS RT		
Test Period: 02/14/2023 - 02/17/2023		
Kit Number	Room / Area	Result
11288296	GYM	1.2
11634666	GYM	0.8
11634681	GYM CONFERENCE	1.1
11634660	GYM OFFICE 13	1.3
11634685	GYM OFFICE 13	1.2
11634686	GYM OFFICE 13	< 0.3
11634684	GYM OFFICE 17	1.3

Table 2- Radon Testing Results			
Montgomery Village MS RT			
Test Period: 02/14/23 - 02/17/23			
Kit Number	QC Type	Room / Area	Result
11634685	D	Gym Office 13	1.2
11634686	FB	Gym Office 13	< 0.3
11634060	OB	OFFICE BLANK	< 0.3
11634067	TB	TRAVEL BALNK	< 0.3

Summary of Missed Locations		
Montgomery Village MS RT		
Test Period: 02/14/23 - 02/17/23		
Kit Number	Room/Area	Result
	N/A	

Summary of Missing, Compromised and $\geq 4$ piC/L Tests		
Montgomery Village MS RT		
Test Period: 02/14/23 - 02/17/23		
Kit Number	Room/Area	Result
	N/A	

Table Note:  
 \* Missing or Compromised Sample

# ATTACHMENT C

## Laboratory Analytical Results



Radon test result report for:

**MVMS  
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11285701	100	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	0.6 ± 0.3	2023-01-16
11285707	100B	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	0.7 ± 0.3	2023-01-16
11285708	100E	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	< 0.3	2023-01-16
11285714	100H	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	0.6 ± 0.3	2023-01-16
11285713	100J	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	0.7 ± 0.3	2023-01-16
11285712	100L	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	< 0.3	2023-01-16
11285709	100N	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	0.5 ± 0.3	2023-01-16
11285711	100P	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	0.7 ± 0.3	2023-01-16
11285710	100P	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285702	102	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	< 0.3	2023-01-16
11285703	102A	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	< 0.3	2023-01-16
11285704	102B	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	0.9 ± 0.3	2023-01-16
11285705	102C	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	0.6 ± 0.3	2023-01-16
11285706	102D	2023-01-10 @ 10:00 am	2023-01-13 @ 10:00 am	0.7 ± 0.3	2023-01-16

Radon test result report for:**WMMS****MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11285777	10	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	0.7 ± 0.3	2023-01-16
11285717	100D	2023-01-10 @ 11:00 am	2023-01-13 @ 10:00 am	0.7 ± 0.3	2023-01-16
11285716	100F	2023-01-10 @ 11:00 am	2023-01-13 @ 10:00 am	0.9 ± 0.3	2023-01-16
11285715	100G	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	1.0 ± 0.3	2023-01-16
11285718	104	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16
11285719	104A	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16
11285721	104B	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	0.5 ± 0.3	2023-01-16
11285720	104B	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285722	104B	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285723	104C	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285725	104D	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285726	104E	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16
11285727	104F	2023-01-10 @ 11:00 am	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285728	110	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	0.7 ± 0.3	2023-01-16
11285729	112	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	0.9 ± 0.3	2023-01-16
11285732	114	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	1.0 ± 0.3	2023-01-16
11285730	114	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	0.7 ± 0.3	2023-01-16
11285731	116	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	0.9 ± 0.3	2023-01-16
11285733	120	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	1.0 ± 0.3	2023-01-16
11285734	128	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	1.5 ± 0.3	2023-01-16
11285735	128A	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	1.4 ± 0.3	2023-01-16
11285779	13	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	0.9 ± 0.3	2023-01-16
11285736	130	2023-01-10 @ 11:00 am	2023-01-13 @ 12:00 pm	1.0 ± 0.3	2023-01-16
11285737	132E	2023-01-10 @ 12:00 pm	2023-01-13 @ 12:00 pm	1.0 ± 0.3	2023-01-16
11285797	137	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11634504	139	2023-01-10 @ 3:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285742	140	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.8 ± 0.3	2023-01-16
11285741	140	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.7 ± 0.3	2023-01-16
11285743	140	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285796	141A	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285799	141B	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285798	141C	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285793	143	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11634502	144	2023-01-10 @ 3:00 pm	2023-01-13 @ 12:00 pm	< 0.3	2023-01-16
11634501	144	2023-01-10 @ 2:00 pm	2023-01-13 @ 12:00 pm	0.7 ± 0.3	2023-01-16
11634503	144	2023-01-10 @ 3:00 pm	2023-01-13 @ 12:00 pm	< 0.3	2023-01-16
11285792	145	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16

Radon test result report for:**WMMS****MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11285791	145	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285800	146	2023-01-10 @ 2:00 pm	2023-01-13 @ 12:00 pm	< 0.3	2023-01-16
11285789	147	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285790	149	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285780	15	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.0 ± 0.3	2023-01-16
11285755	156	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285756	156A	2023-01-10 @ 1:00 pm	2023-01-13 @ 11:00 am	1.1 ± 0.3	2023-01-16
11285754	157	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16
11285750	159	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285753	161	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16
11285752	161	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16
11285751	163	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285749	168	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.7 ± 0.3	2023-01-16
11285781	17	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	0.9 ± 0.3	2023-01-16
11285782	17	2023-01-10 @ 2:00 pm	2023-01-13 @ 1:00 pm	1.0 ± 0.3	2023-01-16
11285783	17	2023-01-10 @ 2:00 pm	2023-01-13 @ 1:00 pm	< 0.3	2023-01-16
11285745	174	2023-01-10 @ 12:00 pm	2023-01-13 @ 12:00 pm	0.8 ± 0.3	2023-01-16
11634505	179	2023-01-10 @ 3:00 pm	2023-01-13 @ 12:00 pm	1.4 ± 0.3	2023-01-16
11285776	18	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	< 0.3	2023-01-16
11285746	180	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.6 ± 0.3	2023-01-16
11634506	181	2023-01-10 @ 3:00 pm	2023-01-13 @ 12:00 pm	< 0.3	2023-01-16
11285747	186	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	0.7 ± 0.3	2023-01-16
11285784	19	2023-01-10 @ 2:00 pm	2023-01-13 @ 1:00 pm	2.0 ± 0.3	2023-01-16
11285748	192	2023-01-10 @ 12:00 pm	2023-01-13 @ 11:00 am	1.1 ± 0.3	2023-01-16
11285775	20	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	0.8 ± 0.3	2023-01-16
11285774	22	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.3 ± 0.3	2023-01-16
11285773	24	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.4 ± 0.3	2023-01-16
11285785	29	2023-01-10 @ 2:00 pm	2023-01-13 @ 1:00 pm	1.4 ± 0.3	2023-01-16
11285786	31	2023-01-10 @ 2:00 pm	2023-01-13 @ 1:00 pm	2.1 ± 0.3	2023-01-16
11285772	34	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.6 ± 0.3	2023-01-16
11285771	34	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	2.0 ± 0.3	2023-01-16
11285787	35	2023-01-10 @ 2:00 pm	2023-01-13 @ 1:00 pm	3.1 ± 0.3	2023-01-16
11285770	36	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	2.2 ± 0.3	2023-01-16
11285788	37	2023-01-10 @ 2:00 pm	2023-01-13 @ 1:00 pm	3.6 ± 0.4	2023-01-16
11285769	38	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	7.5 ± 0.6	2023-01-16
11285768	40	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	4.0 ± 0.4	2023-01-16
11285767	42	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.5 ± 0.3	2023-01-16

Radon test result report for:**WMMS****MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11285760	43	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.5 ± 0.3	2023-01-16
11285763	45	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	3.7 ± 0.4	2023-01-16
11285762	45	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	< 0.3	2023-01-16
11285761	45	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	3.5 ± 0.3	2023-01-16
11285766	46	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.4 ± 0.3	2023-01-16
11285764	47	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.9 ± 0.3	2023-01-16
11285765	48	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.4 ± 0.3	2023-01-16
11285758	CAFE	2023-01-10 @ 1:00 pm	2023-01-13 @ 12:00 pm	< 0.3	2023-01-16
11285759	CAFE	2023-01-10 @ 1:00 pm	2023-01-13 @ 12:00 pm	0.6 ± 0.3	2023-01-16
11285778	GIRLS LOCKER ROOM	2023-01-10 @ 1:00 pm	2023-01-13 @ 1:00 pm	1.1 ± 0.3	2023-01-16
11285738	GYM	2023-01-10 @ 12:00 pm	2023-01-13 @ 12:00 pm	1.4 ± 0.3	2023-01-16
11285757	KITCHEN MGR OFFICE	2023-01-10 @ 1:00 pm	2023-01-13 @ 12:00 pm	1.2 ± 0.3	2023-01-16
11285795	MEDIA	2023-01-10 @ 2:00 pm	2023-01-13 @ 12:00 pm	0.6 ± 0.3	2023-01-16
11285794	MEDIA	2023-01-10 @ 2:00 pm	2023-01-13 @ 11:00 am	< 0.3	2023-01-16
11285740	STAGE	2023-01-10 @ 12:00 pm	2023-01-13 @ 12:00 pm	1.3 ± 0.3	2023-01-16

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February 20, 2023

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

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Radon test result report for:

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11288296	GYM	2023-02-14 @ 10:00 am	2023-02-17 @ 9:00 am	1.2 ± 0.3	2023-02-20
11634666	GYM	2023-02-14 @ 10:00 am	2023-02-17 @ 9:00 am	0.8 ± 0.3	2023-02-20
11634681	GYM CONFERENCE	2023-02-14 @ 10:00 am	2023-02-17 @ 9:00 am	1.1 ± 0.3	2023-02-20
11634660	GYM OFFICE 13	2023-02-14 @ 11:00 am	2023-02-17 @ 9:00 am	1.3 ± 0.3	2023-02-20
11634685	GYM OFFICE 13	2023-02-14 @ 11:00 am	2023-02-17 @ 9:00 am	1.2 ± 0.3	2023-02-20
11634686	GYM OFFICE 13	2023-02-14 @ 11:00 am	2023-02-17 @ 9:00 am	< 0.3	2023-02-20
11634684	GYM OFFICE 17	2023-02-14 @ 10:00 am	2023-02-17 @ 9:00 am	1.3 ± 0.3	2023-02-20

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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 208802

NOMINAL Conditions: Radon Conc 24.4 pCi/L Rel. Hum 48.6 % Temp. 79.3 F

Date Start: 1/27/23 Date Stop: 1/30/23 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0816 Time Stop: 0816 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (5) CHAR BAGS Device No.'s: \_\_\_\_\_

11633682, 11633687, 11633688 \_\_\_\_\_

11633695, 11633696 \_\_\_\_\_

P3 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  $\mu$ R/h Elevation = 820 ft**

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February 3, 2023

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

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Radon test result report for:

**OFFICE**

**MAIN**

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<b>Kit #</b>	<b>Room Id</b>	<b>Started</b>	<b>Ended</b>	<b>pCi/L</b>	<b>Analyzed</b>
11633696	SK10	2023-01-27 @ 8:00 am	2023-01-30 @ 8:00 am	24.2 ± 1.9	2023-02-03
11633682	SK6	2023-01-27 @ 8:00 am	2023-01-30 @ 8:00 am	26.9 ± 2.1	2023-02-03
11633687	SK7	2023-01-27 @ 8:00 am	2023-01-30 @ 8:00 am	23.8 ± 1.9	2023-02-03
11633688	SK8	2023-01-27 @ 8:00 am	2023-01-30 @ 8:00 am	25.9 ± 2.1	2023-02-03
11633695	SK9	2023-01-27 @ 8:00 am	2023-01-30 @ 8:00 am	27.0 ± 2.2	2023-02-03

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



### Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Week 2 Retesting January Schools

Name of Schools:

1. A. Mario Loiederman MS
2. Cannon Road ES
3. Forest Knolls ES
4. Glen Haven ES
5. Goshen ES
6. Highland View ES
7. John F. Kennedy HS
8. Lakelands Park MS
9. Montgomery Village MS
10. Poolesville HS
11. Springbrook HS

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	Date	Initials
Radon Test Kits Deployed	02/14/2023	BMMU
Radon Test Kits Collected	02/17/2023	BMMU
Radon Test Kits Shipped to Lab*	02/17/2023	BMMU
Radon Test Kits Received by Lab*	02/20/2023	BMMU

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





## MCPS RADON TESTING

### Executive Summary: Montgomery Village Middle School

Date of Test Report:	3/24/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	4
# Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	0.4
High Value:	0.9

#### Project Status:

Retesting completed; no further action at this time.



March 24, 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 # 12146341.30

Location: Montgomery Village Middle School  
19300 Watkins Mill Road  
Montgomery Village, Maryland 20886

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 Montgomery Village Middle School, located at 19300 Watkins Mill Road in Montgomery Village, Maryland 20886 (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](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on February 29, 2016 and deployed nine (9) 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 March 3, 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:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
$\geq 4.0$ pCi/L	none	n/a
$< 4.0$ pCi/L	See Attachment B	

Notes:

D- Duplicate sample

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

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

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 316-7800.

Sincerely,



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

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

# ATTACHMENT A

## Floor Plan With Test Locations

**ATTACHMENT B**

**Radon Test Summary Spreadsheet**

**Table Notes:**

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank\*

PM- Project Manager

QC- Quality Control

\*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 10 testing. Office blanks were not submitted under each school individually.

<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Test Period: 02/29/16-03/03/16</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result</b>
3028887	130	<0.4
3028792	134	<0.4
3028798	141	0.4
3028816	141	0.8
3028819	184	<0.4
3028796	* 134 (Tampered)	<0.4

Table Note:

\* Missing or Compromised Sample



<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Test Period: 02/29/16-03/03/16</b>		
<b>Kit Number</b>	<b>QC Type</b>	<b>Result</b>
3028795	D (130)	<0.4
3028800	D (141)	0.9
3028799	FB (134)	<0.4

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


Montgomery Village M.S.  
19300 Watkins Mill Rd  
Montgomery Village MD 20886

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3015301	3028798	02/29/2016 12:33 pm 03/03/2016 10:52 am	Building 1 Unit 141 First Floor	0.4
3015302	3028816	02/29/2016 12:33 pm 03/03/2016 10:52 am	Building 1 Unit 141 First Floor	0.8
3015303	3028800	02/29/2016 12:33 pm 03/03/2016 10:52 am	Building 1 Unit 141 First Floor	0.9
3015304	3028796	02/29/2016 12:48 pm 03/03/2016 10:55 am	Building 1 Unit 134 First Floor	<0.4
3015305	3028792	02/29/2016 12:48 pm 03/03/2016 11:00 am	Building 1 Unit 134 First Floor	<0.4
3015306	3028799	02/29/2016 12:48 pm 03/03/2016 11:00 am	Building 1 Unit 134 First Floor	<0.4
3015307	3028819	02/29/2016 12:55 pm 03/03/2016 10:54 am	Building 1 Unit 184 First Floor	<0.4
3015308	3028887	02/29/2016 1:00 pm 03/03/2016 10:57 am	Building 1 Unit 130 First Floor	<0.4
3015309	3028795	02/29/2016 1:01 pm 03/03/2016 10:57 am	Building 1 Unit 130 First Floor	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/07/2016 Date Logged: 03/07/2016 Date Analyzed: 03/08/2016 Date Reported: 03/08/2016

Report Reviewed By: 

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

**Disclaimer:**

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

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**Radon Device Type Open Face Canister**

**Send Written Report To:**

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

**Site Tested:**

Site Name: Montgomery Village MS  
 Address: 19300 Watkins Mill Rd  
 Address: Montgomery Village  
 City / Town: Montgomery Village  
 State/Province Postal Code MD 20886  
 Test Country: Montgomery County  
 Project Number: 12146341

**Contact Information:**

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

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	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
	3028798	1	141	1	71°	02/29/2016	12:33 pm	03/03/2016	10:52 AM	
	3028816	1	141	1	71°	02/29/2016	12:33 pm	03/03/2016	10:52 AM	
	3028800	1	141	1	71°	02/29/2016	12:53 pm	03/03/2016	10:52 AM	
	3028796	1	134	1	78°	02/29/2016	12:48 pm	03/03/2016	10:55 AM	
	3028792	1	134	1	71°	02/29/2016	12:48 pm	03/03/2016	11:00 AM	
	3028799	1	134	1	71°	02/29/2016	12:48 pm	03/03/2016	11:00 AM	
	3028819	1	184	1	71°	02/29/2016	12:55 pm	03/03/2016	10:54 AM	
	3028887	1	130	1	71°	02/29/2016	13:00 pm	03/03/2016	10:57 AM	
	3028795	1	130	1	71°	02/29/2016	13:01 pm	03/03/2016	10:57 AM	
						02/29/2016		03/03/2016		

NRPP 10511AL  
NRSB ARL0007

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

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies  
936 Ridgebrook Rd  
Sparks MD 21152

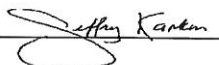
MCPS Radon Phase 10 Office Blank

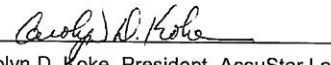
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3015360	3028828	02/29/2016 9:30 am 03/03/2016 9:30 am	Office Blank	<0.4

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

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Date Received: 03/07/2016 Date Logged: 03/07/2016 Date Analyzed: 03/08/2016 Date Reported: 03/08/2016

Report Reviewed By: 

Report Approved By: 

Carolyn D. Koke, President, AccuStar Labs

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AccuStar Labs  
11 Awl Street  
Medway MA 02053  
www.accustarlabs.com

# 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 fehsein@kci.com

### Site Tested:

Site Name KCI OFFICE  
 Address 936 Ridgebrook Road  
 Address  
 City / Town Sparks  
 State/Province Postal Code MD 21152  
 Test Country Montgomery County  
 Project Number 12146341

### Contact Information:

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

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	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
	3028828		0	1	OFFICE (TEMP - 70F)	02/29/2016	9:30 am	03/03/2016	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.mouldsdales@kci.com.

Distributed by: KCI Technologies, Inc.

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

Report Reviewed By: Christie Bates

Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

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

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

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

**Test Site Info**

Name of Building/Project or Owner: Transit  
 Site Address: Transit  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ County: \_\_\_\_\_  
 Projects Contact Name: Don Coale Phone: \_\_\_\_\_ Email: \_\_\_\_\_

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

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LAB USE ONLY	
Wgt. Gain	pCi/L
	LOF
	LOF
	LOF
	LOF

Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)	Floor	Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM
3028953	Transit	1	1/19/16	approx: 00pm 1/23/16		9:30am
8955	Transit	1	1/19/16			
8954	Transit	1	1/19/16			
8997	Transit	1	1/19/16			

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:** (Circle all that apply) Initial Screening - Follow Up Test - Post Mitigation - Real Estate - Other  
**Building Type:** (Circle One) Residential - Non Residential  
 Private Day Care - Private School  
 Day Care in Public School - Public School

Both Placed by and Retrieved by signatures are required  
 Canisters placed by \_\_\_\_\_ # \_\_\_\_\_  
 Canisters retrieved by \_\_\_\_\_ # \_\_\_\_\_

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

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

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

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



EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc. Job Number 173618

NOMINAL Conditions: Radon Conc 25.2 pCi/L Rel. Hum 49.1 % Temp. 72.0 F

Date Start: 1/23/16 Date Stop: 1/25/16 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0821 Time Stop: 0821 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (6) Char. Cons. Device No.'s: \_\_\_\_\_

3028985 thru 3028990

E2 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 µR/h Elevation = 820 ft

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)
3010551	3028985	01/23/2016 8:20 am	01/25/2016 8:20 am	1 First Floor	24.2
3010552	3028986	01/23/2016 8:20 am	01/25/2016 8:20 am	2 First Floor	25.7
3010553	3028987	01/23/2016 8:20 am	01/25/2016 8:20 am	3 First Floor	23.8
3010554	3028988	01/23/2016 8:20 am	01/25/2016 8:20 am	4 First Floor	23.3
3010555	3028989	01/23/2016 8:20 am	01/25/2016 8:20 am	5 First Floor	24.0
3010556	3028990	01/23/2016 8:20 am	01/25/2016 8:20 am	6 First Floor	24.4

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.

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

Distributed by: KCI Technologies, Inc.

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

Report Reviewed By: Christie Bates

Report Approved By: Carolyn D. Koke

**Disclaimer:**

Carolyn D. Koke, President, AccuStar Labs

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 929 Mt. Zion Rd., Lebanon, PA 17046  
 800-523-4964

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

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

RECEIVED JAN 27 2016

**Test Site Info**

Name of Building/Project or Owner MCPS

Site Address: 750 Hungerford Dr

City: Rockville MD

State MD Zip 20850

County Montgomery

Projects Contact Name: James Moultsdale Phone: 410-891-1842 Email: James.moultsdale@kci.com

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

Multi-Page Report Y-N

Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)	Floor	Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM	LAB USE ONLY	
							Wgt. Gain	pCi/L
3028985	1 3010551	1	1/23/16	08:20	1/25/16	08:20		0.1A
3028986	2 3010552	1						
3028987	3 3010553	1						
3028988	4 3010554	1						
3028989	5 3010555	1						
3028990	6 3010556	1						

**Structure Type:** (circle one or more) Basement - Crawlspace - Slab on Grade - Other  
**Test Purpose:** (Circle all that apply) Initial Screening - Follow Up Test -  
 Post Mitigation - Real Estate - Other  
**Building Type:** (Circle One) Residential - Non Residential  
 Private Day Care - Private School  
 Day Care in Public School - Public School

Both Placed by and Retrieved by signatures are required  
 Canisters placed by James Moultsdale

Canisters retrieved by James Moultsdale

Owner waives confidentiality by signing here

Send Results To:

Company Name: KCI technologies Inc

Address: 936 Ridgebrook Rd

City: Sparks MD 21152

Phone: 410-891-1842

EMAIL Results to: James.moultsdale@kci.com

State: 7in

Fax:

1/27/2016

KCI Technologies, Inc.

Mailing: PO Box 990 Jonestown  
 Shipping: 929 Mt Zion Road, Le  
 800-523-4964 fax 717-2

3010551 **3028985** ACPC275B EXP12/31/2018

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



### MCPS RADON TESTING

#### Executive Summary: Montgomery Village Middle School

Date of Test Report:	1/29/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	95
# Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	2.2

#### Project Status:

Initial testing completed; missing or compromised samples need re-test.



January 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 # 12146341.22

Location: Montgomery Village Middle School  
19300 Watkins Mill Road  
Montgomery Village, MD 20886

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 Montgomery Village Middle School, located at 19300 Watkins Mill Road in Montgomery Village, Maryland 20886 (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](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on January 4, 2016 and deployed one hundred eight (108) 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 January 7, 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:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
$\geq 4.0$ pCi/L	none	n/a
$< 4.0$ pCi/L	See Attachment B	

Notes:

D- Duplicate sample

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

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

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 316-7800.

Sincerely,



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

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

# ATTACHMENT A

## Floor Plan With Test Locations



# ATTACHMENT B

## Radon Test Summary Spreadsheet

**Table Notes:**

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

<b>Radon Testing Results</b>		
<b>Montgomery Village MS</b>		
<b>Test Period: 01/04/16-01/07/16</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result</b>
7708689	10	0.7
7708686	13	0.8
7707692	15	1
7707696	17	1.1
7707693	22	0.6
7707700	24	1
7711503	29	< 0.3
7714982	31	0.9
7707506	34	1
7707699	35	0.7
7708697	36	1
7711496	37	1.4
7711491	38	1.9
7711495	40	0.8
7711380	42	1.1
7707697	43	0.8
7711381	45	0.8
7711494	46	1
7711490	47	1
7711492	48	< 0.3
7711473	100	1.2
7711462	102	1.2
7711493	104	1.1
7711378	108	2
7711387	110	1.7
7711382	112	1.7
7711385	114	1.9
7711390	120	2
7711397	128	0.7
7711396	130	0.5
7711392	134	0.8
7711383	137	1.7
7711399	139	1.7
7708115	140	1.3
7711384	141	1.3
7711459	141	1.6
7711446	144	1.3
7707691	145	0.9
7708122	146	1.3
7711464	147	1
7711465	149	1.3
7711460	153	< 0.3
7711457	157	0.9
7711470	158	< 0.3
7711451	159	1.2
7711478	160	0.8

Table Note:

\* Missing or Compromised Sample

<b>Radon Testing Results</b>		
<b>Montgomery Village MS</b>		
<b>Test Period: 01/04/16-01/07/16</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result</b>
7711450	162	< 0.3
7711479	163	0.6
7711449	164	0.9
7711448	166	1
7711394	167	1.2
7711453	168	< 0.3
7711436	170	0.7
7711447	173	0.6
7708109	174	0.8
7708110	178	< 0.3
7708117	179	0.7
7708113	180	0.6
7711431	181	0.5
7708118	182	< 0.3
7711393	186	0.8
7712699	189	0.6
7711445	190	< 0.3
7711398	191	0.6
7708103	192	< 0.3
7711395	193	0.8
7711467	100C	1.1
7711468	100D	1.6
7711471	100E	1.3
7711483	100G	1
7711466	100H	1.1
7711474	100J	1.1
7711481	100L	1.6
7711482	100L	1.6
7711480	100N	1.3
7711476	100P	1.8
7711461	102A	1.6
7711485	104A	1.3
7711486	104C	1.7
7711500	104D	1.8
7711489	104E	1.5
7711488	104F	2.2
7711386	130A	0.6
7711391	* 134 (Missing)	0
7711389	* 141 (Missing)	0
7711498	141B	1.6
7711484	141C	1.7
7711452	153B	0.9
7711456	153C	0.5
7711455	156A	< 0.3
7711454	158LAB	0.6
7711435	* 184 (Missing)	0
7707698	AUX GYM	0.7
7711458	CAFE	1
7711475	CAFE	< 0.3

Table Note:

\* Missing or Compromised Sample

<b>Radon Testing Results</b>		
<b>Montgomery Village MS</b>		
<b>Test Period: 01/04/16-01/07/16</b>		
<b>Kit Number</b>	<b>QC Type</b>	<b>Result</b>
7706214	D (10)	1
7711377	D (108)	1.5
7711388	* D (130:Missing)	0
7711463	D (147)	1.5
7711469	D (157)	0.9
7711477	D (162)	0.6
7708114	D (179)	< 0.3
7707694	D (35)	0.6
7711472	FB (100)	< 0.3
7711401	FB (104A)	< 0.3
7707695	FB (22)	< 0.3
7714429	OB (0)	< 0.3
7714430	OB (0)	< 0.3

Table Note:

\* Missing or Compromised Sample

# ATTACHMENT C

## Laboratory Analytical Results

January 25, 2016  
**LABORATORY ANALYSIS REPORT**

Radon test result report for:  
**MONTGOMERY VILLAGE MS MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7714429	0	2016-01-04 @ 4:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-11
7714430	0	2016-01-04 @ 4:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-11
7706214	10	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	1.0 ± 0.3	2016-01-12
7708689	10	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.7 ± 0.3	2016-01-12
7711472	100	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711473	100	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.2 ± 0.3	2016-01-12
7711467	100C	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.1 ± 0.3	2016-01-11
7711468	100D	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-12
7711471	100E	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.3 ± 0.3	2016-01-12
7711483	100G	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.0 ± 0.3	2016-01-12
7711466	100H	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.1 ± 0.4	2016-01-12
7711474	100J	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.1 ± 0.4	2016-01-12
7711482	100L	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.3	2016-01-11
7711481	100L	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-12
7711480	100N	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.3 ± 0.3	2016-01-11
7711476	100P	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.8 ± 0.4	2016-01-11
7711462	102	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.2 ± 0.3	2016-01-11
7711461	102A	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-12
7711493	104	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.1 ± 0.4	2016-01-12
7711401	104A	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711485	104A	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	1.3 ± 0.3	2016-01-11
7711486	104C	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-12
7711500	104D	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.8 ± 0.4	2016-01-12
7711489	104E	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.5 ± 0.4	2016-01-11
7711488	104F	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	2.2 ± 0.4	2016-01-11
7711377	108	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.5 ± 0.4	2016-01-12
7711378	108	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	2.0 ± 0.4	2016-01-12
7711387	110	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.3	2016-01-11
7711382	112	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-11
7711385	114	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.9 ± 0.4	2016-01-11
7711390	120	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	2.0 ± 0.4	2016-01-11
7711397	128	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-11
7708686	13	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.8 ± 0.3	2016-01-12
7711388	130	@	@		
7711396	130	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.5 ± 0.3	2016-01-12
7711386	130A	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-11
7711391	134	@	@		

January 25, 2016  
**LABORATORY ANALYSIS REPORT**

Radon test result report for:  
**MONTGOMERY VILLAGE MS MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7711392	134	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7711383	137	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-11
7711399	139	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-11
7708115	140	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.3	2016-01-11
7711389	141	@	@		
7711459	141	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-11
7711384	141	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.3	2016-01-11
7711498	141B	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.6 ± 0.4	2016-01-11
7711484	141C	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-12
7711446	144	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.3	2016-01-11
7707691	145	2016-01-04 @ 3:00 pm	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-11
7708122	146	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.4	2016-01-12
7711464	147	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.0 ± 0.3	2016-01-11
7711463	147	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.5 ± 0.4	2016-01-12
7711465	149	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.3 ± 0.3	2016-01-11
7707692	15	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-12
7711460	153	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711452	153B	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.4	2016-01-12
7711456	153C	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.5 ± 0.3	2016-01-11
7711455	156A	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711469	157	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-11
7711457	157	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-12
7711470	158	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711454	158LAB	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-11
7711451	159	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.2 ± 0.4	2016-01-12
7711478	160	2016-01-04 @ 11:00 am	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-12
7711477	162	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-11
7711450	162	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711479	163	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-12
7711449	164	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-12
7711448	166	2016-01-04 @ 11:00 am	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711394	167	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.2 ± 0.3	2016-01-11
7711453	168	2016-01-04 @ 11:00 am	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7707696	17	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	1.1 ± 0.3	2016-01-12
7711436	170	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-12
7711447	173	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-12
7708109	174	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11



January 25, 2016  
**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**MONTGOMERY VILLAGE MS  
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7708110	178	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7708114	179	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7708117	179	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-11
7708113	180	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-12
7711431	181	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.5 ± 0.3	2016-01-11
7708118	182	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711435	184	@	@		
7711393	186	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-12
7712699	189	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-11
7711445	190	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711398	191	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-12
7708103	192	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711395	193	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7707693	22	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.6 ± 0.3	2016-01-12
7707695	22	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7707700	24	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	1.0 ± 0.3	2016-01-11
7711503	29	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7714982	31	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.9 ± 0.3	2016-01-11
7707506	34	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7707694	35	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-11
7707699	35	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-11
7708697	36	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711496	37	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.4 ± 0.4	2016-01-11
7711491	38	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.9 ± 0.4	2016-01-11
7711495	40	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-12
7711380	42	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.1 ± 0.3	2016-01-11
7707697	43	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7711381	45	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7711494	46	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711490	47	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711492	48	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7707698	AUX GYM	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.7 ± 0.3	2016-01-11
7711475	CAFE	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711458	CAFE	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.0 ± 0.3	2016-01-12

January 15, 2016  
\*\* LABORATORY ANALYSIS REPORT \*\*

Radon test result report for:  
**MCPS PHASE 3 & 4  
TRANSIT BLANKS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7708218	TRANSIT 4	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708200	TRANSIT 1	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708190	TRANSIT 10	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708189	TRANSIT 11	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708191	TRANSIT 12	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708188	TRANSIT 13	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708197	TRANSIT 14	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708186	TRANSIT 15	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708185	TRANSIT 16	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708184	TRANSIT 17	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708182	TRANSIT 18	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708187	TRANSIT 18	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708199	TRANSIT 2	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708181	TRANSIT 20	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708180	TRANSIT 21	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708183	TRANSIT 22	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708178	TRANSIT 23	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708179	TRANSIT 24	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708177	TRANSIT 25	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708176	TRANSIT 26	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708174	TRANSIT 27	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708173	TRANSIT 28	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708175	TRANSIT 29	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708198	TRANSIT 3	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708172	TRANSIT 30	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708194	TRANSIT 5	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708196	TRANSIT 6	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708193	TRANSIT 7	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708192	TRANSIT 8	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708195	TRANSIT 9	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23

December  
23,  
2015

**LABORATORY ANALYSIS  
REPORT \*\***

Spike Sample Laboratory Results

Radon test result report for:  
**MCPS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7706380	101	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	25.2	2015-12-23
7706381	102	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706208	103	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	27.7	2015-12-23
7705132	104	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	28.6	2015-12-23
7706366	105	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706211	106	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.1	2015-12-23

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 KCI Technologies Inc. Job Number 173224

NOMINAL Conditions: Radon Conc 26.9 pCi/L Rel. Hum 49.6 % Temp. 69.9 F

Date Start: 12/18/15 Date Stop: 12/21/15 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0929 Time Stop: 0929 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: 7705132, 7706208, Device No.'s: \_\_\_\_\_

7706211, 7706366, \_\_\_\_\_

7706380, 7706381 \_\_\_\_\_

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  $\mu$ R/h Elevation = 820 ft



### Chain of Custody

Project Name: MCPS Radon Phase IV

Name of Schools:

- |                            |                            |                           |
|----------------------------|----------------------------|---------------------------|
| 1. Albert Einstein HS      | 12. Herbert Hoover MS      | 23. Stephen Knolls School |
| 2. Bel Pre ES              | 13. Kohn F. Kennedy HS     | 24. Strathmore ES         |
| 3. Benjamin Banneker MS    | 14. Julius West MS         | 25. Summit Hall ES        |
| 4. Bethesda Chevy Chase HS | 15. Kensington Parkwood ES | 26. Travilah ES           |
| 5. Beverly Farms ES        | 16. Lakewood ES            | 27. Twinbrook ES          |
| 6. Cabin John MS           | 17. Mill Creek ES          | 28. Waters Landing ES     |
| 7. Chevy Chase ES          | 18. Montgomery Blair HS    | 29. Watkins Mill HAS      |
| 8. Farmland ES             | 19. Montgomery Village MS  | 30. Weller Road ES        |
| 9. Forest Oak MS           | 20. Northwood HS           | 31. White Oak MS          |
| 10. Gaithersburg HS        | 21. Paint Branch ES        | 32. Winston Churchill HS  |
| 11. Garrett Park ES        | 22. Rock Creek Forest ES   |                           |

	Date	Initials
Radon Test Kits Deployed	1/4/16	JM
Radon Test Kits Sampled	1/7/16	JM
Radon Test Kits Shipped to Lab*	1/8/16	JM
Radon Test Kits Received by Lab*	1/11/16	JM

\*All samples sent to Air Check, Inc., 1936 Butler Bridge Road, Mills River, NC 28758

Note: tests kits deployed at Montgomery Blair HS 1/4/16 and 1/5/16, test kits sampled at Montgomery Blair HS 1/7/16 and 1/8/16



## MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

**Executive Summary:**  
**Montgomery Village Middle School**  
19300 Watkins Mill Road,  
Montgomery Village, MD 20886

Date of Test Report:	3/15/2019
Round of Testing:	Initial <b>Follow-up</b> Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested:	4
# of Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	0.4
High Value:	1.3

### Project Status

**Retesting completed:** No further action at this time.



March 15, 2019

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

Re: Radon Testing Services

Location: Montgomery Village Middle School  
19300 Watkins Mill Road,  
Montgomery Village, MD 20886

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Montgomery Village Middle School, located at 19300 Watkins Mill Road, Montgomery Village, MD 20886 (subject site).

### **Scope of Services:**

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from [www.montgomerycountymd.gov/dep/air/radon](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

PSI visited the site on February 25, 2019 and deployed four (4) activated charcoal (AC) radon test kit. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on February 28, 2019 to retrieve the radon sampling test kit. A floor plan map of the building with the test location is included as Attachment A of this report.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARLO007).

### **Evaluation of Testing Conditions:**

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

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



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

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

**Results:**

The results of the radon test analysis indicated the following:

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

Notes:  
D -Duplicate Sample

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

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

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.





# **ATTACHMENT B**

Radon Test Summary Spreadsheet

<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Testing period: 2/25/19 - 2/28/19</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result (pCi/L)</b>
3923437	147	1.0
3923448	149	1.3
3923443	Aux Gym	0.4
3923468	Conference Room 029	0.5

**Table Notes:**

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

# **ATTACHMENT C**

Laboratory Analytical Results

NRPP 105011 AL  
NRSB ARL0007

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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

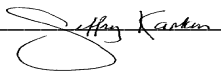
MCPS Radon Survey Montgomery Village MS  
651 Saybrooke Oaks Blvd.  
Gaithersburg MD 20877

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3220643	3923437	02/25/2019 10:30 am 02/28/2019 9:20 am	Floor Main Room 147	1.0
3220644	3923448	02/25/2019 10:32 am 02/28/2019 9:21 am	Floor Main Room 149	1.3
3220645	3923443	02/25/2019 10:33 am 02/28/2019 9:22 am	Floor Main Room Aux Gym	0.4
3220646	3923468	02/25/2019 10:42 am 02/28/2019 9:23 am	Floor Main Conference Room (029)	0.5

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

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

**Disclaimer:**

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

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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



## MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

**Executive Summary:**  
**Montgomery Village Middle School**  
19300 Watkins Mill Road,  
Montgomery Village, MD 20886

Date of Test Report:	02/21/2019
Round of Testing:	Initial Follow-up Post Remediation 2 Year Testing <b>5 Year Testing</b> HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested:	96
# of Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	2.8

### Project Status

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



February 21, 2019

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

Re: Radon Testing Services

Location: Montgomery Village Middle School  
19300 Watkins Mill Road,  
Montgomery Village, MD 20886

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Montgomery Village Middle School, located at 19300 Watkins Mill Road, Montgomery Village, MD 20886 (subject site).

**Scope of Services:**

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from [www.montgomerycountymd.gov/dep/air/radon](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

PSI visited the site on December 4, 2018 and deployed one hundred and seventeen (117) activated charcoal (AC) radon test kits. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on December 7, 2018 to retrieve the radon sampling test kits. A floor plan map of the building with the test locations is included as Attachment A of this report.

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

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





### **Evaluation of Testing Conditions:**

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

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

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

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

### **Results:**

The results of the radon test analysis indicated the following:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
$\geq 4.0$ pCi/L	None	NA
$\leq 4.0$ pCi/L	See Attachment B	

Notes:

D -Duplicate Sample

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

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

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.



Respectfully Submitted,

**INTERTEK-PSI**

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

Nand Kaushik, P.E.  
Department Manager, Environmental Services  
[Nand.Kaushik@intertek.com](mailto:Nand.Kaushik@intertek.com)

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

# **ATTACHMENT B**

Radon Test Summary Spreadsheet

<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Testing period: 12/4/18 - 12/7/18</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result (pCi/L)</b>
3926430	10 (MISSING)	--
3917886	13	0.6
3917885	15	1.0
3926429	17	0.6
3917887	18	<0.4
3926240	20	<0.4
3926423	22	0.5
3926422	24	1.1
--	29 (MISSING)	--
3926233	31	0.4
3926237	34	1.2
3926231	35	0.9
3926232	36	1.6
3926425	37	1.3
3926424	38	2.1
3926421	39	0.8
3926239	40	0.7
3926236	42	0.7
3926235	43	1.1
3926234	45	1.2
3917889	46	0.7
3926238	47	<0.4
3926428	48	<0.4
3926225	100	1.2
3926212	100C	0.6
3926213	100D	2.2
3926230	100E	1.2
3926214	100F	1.4
3926215	100G	0.9
3926216	100H	1.1
3926229	100J	1.1
3926219	100L	0.8
3926272	100N	0.4
3926217	100P	0.6
3926218	102	0.7
3926276	102A	0.7
3926226	102D	1.1
3926221	104	<0.4
3926274	104	1.2
3926222	104A	1.0
3926271	104C	0.9
3926275	104D	0.9
3926277	104E	1.1

<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Testing period: 12/4/18 - 12/7/18</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result (pCi/L)</b>
3926278	104F	0.9
3926273	110	0.7
3926279	112	1.3
3927091	114	1.3
3927092	116	1.6
3927099	120	1.0
3926431	128	0.9
3926432	130	0.7
3926433	132B	0.7
3926438	132C	0.6
3926417	132D	0.5
3926418	132E	0.4
3926436	134	1.3
3926435	134	<0.4
3927093	137	1.6
3927096	139	1.6
3926419	140	0.5
3927094	141	1.4
3926227	141	1.7
3926228	141	2.0
3926224	141B	2.8
3926223	141C	2.0
3926414	142	<0.4
3926250	143	1.7
3926241	144	2.2
3926248	145	0.8
3926247	146	2.1
--	147 (INACCESSIBLE)	--
--	149 (INACCESSIBLE)	--
3927100	151	0.9
3926243	152G	0.8
3926249	153	1.4
3926254	156A	0.7
3926253	157	1.1
3926260	158	0.6
3926257	158A	1.3
3926258	159	1.7
3926255	160	0.9
3926251	162	0.7
3926259	163	1.8
3927097	164	1.1
3927095	166	1.3
3926333	167	2.1

<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Testing period: 12/4/18 - 12/7/18</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result (pCi/L)</b>
3926336	168	0.6
3926331	170	<0.4
3926332	173	1.7
3926420	174	0.5
3926440	178	1.3
3926411	179	0.7
3926415	180	0.6
3926413	181	0.7
3926412	182	0.5
3926439	184	0.6
3926334	186	<0.4
3926339	189	0.5
3926337	190	0.6
3926340	191	1.5
3926338	192	0.4
3926335	193	0.4
--	Aux Gym (MISSED)	--
3926256	Cafeteria	0.6
3926242	Cafeteria	0.9
3926246	Kitchen	0.6

<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Testing period: 12/4/18 - 12/7/18</b>		
<b>Kit Number</b>	<b>QC Type</b>	<b>Result (pCi/L)</b>
3917888	10 (D)	0.4
3917890	48 (D)	<0.4
3926211	100 (D)	1.1
3926220	100N (D)	0.7
3926280	112 (D)	0.9
3926434	132B (D)	<0.4
3927098	139 (D)	<0.4
3926252	162 (D)	1.2
3926437	174 (D)	<0.4
3926416	180 (D)	0.7
3922989	Field Blank	0.5
3922987	Field Blank	<0.4
3922990	Field Blank	<0.4
3922988	Office Blank	<0.4
3922986	Transit Blank	<0.4

**Table Notes:**

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control



# **ATTACHMENT C**

Laboratory Analytical Results

NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2405145	3926274	12/04/2018 9:29 am 12/07/2018 6:20 am	Not Indicated	1.2
2405146	3926417	12/04/2018 10:06 am 12/07/2018 6:40 am	Not Indicated	0.5
2405147	3926272	12/04/2018 9:22 am 12/07/2018 6:16 am	Not Indicated	0.4
2405148	3926225	12/04/2018 9:15 am 12/07/2018 6:09 am	First Floor Room 100	1.2
2405149	3926211	12/04/2018 9:15 am 12/07/2018 6:09 am	First Floor Room 100	1.1
2405150	3926212	12/04/2018 9:16 am 12/07/2018 6:10 am	First Floor Room 100C	0.6
2405151	3926213	12/04/2018 9:16 am 12/07/2018 6:10 am	First Floor Room 100D	2.2
2405152	3926230	12/04/2018 9:17 am 12/07/2018 6:11 am	First Floor Room 100E	1.2
2405153	3926214	12/04/2018 9:17 am 12/07/2018 6:11 am	First Floor Room 100F	1.4
2405154	3926215	12/04/2018 9:18 am 12/07/2018 6:12 am	First Floor Room 100G	0.9
2405155	3926216	12/04/2018 9:18 am 12/07/2018 6:13 am	First Floor Room 100H	1.1

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/10/2018 Date Analyzed: 12/11/2018 Date Reported: 01/15/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

**Disclaimer:**

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

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NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886


Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
2405156	3926229	12/04/2018 9:19 am 12/07/2018 6:13 am	First Floor Room 100J	1.1
2405157	3926219	12/04/2018 9:20 am 12/07/2018 6:14 am	First Floor Room 100L	0.8
2405158	3926220	12/04/2018 9:22 am 12/07/2018 6:16 am	First Floor Room 100N	0.7
2405159	3926217	12/04/2018 9:26 am 12/07/2018 6:17 am	First Floor Room 100P	0.6
2405160	3926218	12/04/2018 9:27 am 12/07/2018 6:17 am	First Floor Room 102	0.7
2405161	3926276	12/04/2018 9:27 am 12/07/2018 6:18 am	First Floor Room 102A	0.7
2405162	3926226	12/04/2018 9:28 am 12/07/2018 6:18 am	First Floor Room 102D	1.1
2405163	3926221	12/04/2018 9:29 am 12/07/2018 6:19 am	First Floor Room 104	< 0.4
2405164	3926222	12/04/2018 9:30 am 12/07/2018 6:20 am	First Floor Room 104A	1.0
2405165	3926271	12/04/2018 9:31 am 12/07/2018 6:21 am	First Floor Room 104C	0.9
2405166	3926275	12/04/2018 9:33 am 12/07/2018 12:00 am	First Floor Room 104D	0.9

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/10/2018 Date Analyzed: 12/11/2018 Date Reported: 01/15/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

**Disclaimer:**

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NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886


Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2405167	3926277	12/04/2018 9:34 am	12/07/2018 6:23 am	First Floor Room 104E	1.1
2405168	3926278	12/04/2018 9:34 am	12/07/2018 6:24 am	First Floor Room 104F	0.9
2405169	3926223	12/04/2018 9:35 am	12/07/2018 6:24 am	First Floor Room 141C	2.0
2405170	3926224	12/04/2018 9:36 am	12/07/2018 6:25 am	First Floor Room 141B	2.8
2405171	3926273	12/04/2018 9:38 am	12/07/2018 6:25 am	First Floor Room 110	0.7
2405172	3926279	12/04/2018 9:41 am	12/07/2018 6:26 am	First Floor Room 112	1.3
2405173	3926280	12/04/2018 9:41 am	12/07/2018 6:26 am	First Floor Room 112	0.9
2405174	3927091	12/04/2018 9:42 am	12/07/2018 6:27 am	First Floor Room 114	1.3
2405175	3927092	12/04/2018 9:43 am	12/07/2018 6:28 am	First Floor Room 116	1.6
2405176	3926227	12/04/2018 9:44 am	12/07/2018 6:30 am	First Floor Room 141	1.7
2405177	3926228	12/04/2018 9:45 am	12/07/2018 6:30 am	First Floor Room 141	2.0

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018    Date Logged: 12/10/2018    Date Analyzed: 12/11/2018    Date Reported: 01/15/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

**Disclaimer:**

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NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2405178	3927093	12/04/2018 9:46 am	12/07/2018 6:31 am	First Floor Room 137	1.6
2405179	3927094	12/04/2018 9:47 am	12/07/2018 6:31 am	First Floor Room 141	1.4
2405180	3927096	12/04/2018 9:48 am	12/07/2018 6:32 am	First Floor Room 139	1.6
2405181	3927098	12/04/2018 9:48 am	12/07/2018 6:32 am	First Floor Room 139	< 0.4
2405182	3927099	12/04/2018 9:52 am	12/07/2018 6:33 am	First Floor Room 120	1.0
2405183	3926436	12/04/2018 9:55 am	12/07/2018 6:34 am	First Floor Room 134	1.3
2405184	3926435	12/04/2018 10:00 am	12/07/2018 6:35 am	First Floor Room 134	< 0.4
2405185	3926431	12/04/2018 10:01 am	12/07/2018 6:37 am	First Floor Room 128	0.9
2405186	3926432	12/04/2018 10:02 am	12/07/2018 6:38 am	First Floor Room 130	0.7
2405187	3926433	12/04/2018 10:03 am	12/07/2018 6:39 am	First Floor Room 132B	0.7
2405188	3926434	12/04/2018 10:04 am	12/07/2018 6:39 am	First Floor Room 132B	< 0.4

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018    Date Logged: 12/10/2018    Date Analyzed: 12/11/2018    Date Reported: 01/15/2019

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769  
NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886


Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2405189	3926438	12/04/2018 10:05 am	12/07/2018 6:40 am	First Floor Room 132C	0.6
2405190	3926418	12/04/2018 10:07 am	12/07/2018 6:41 am	First Floor Room 132E	0.4
2405191	3926419	12/04/2018 10:08 am	12/07/2018 6:42 am	First Floor Room 140	0.5
2405192	3926420	12/04/2018 10:09 am	12/07/2018 6:42 am	First Floor Room 174	0.5
2405193	3926437	12/04/2018 10:10 am	12/07/2018 6:43 am	First Floor Room 174	< 0.4
2405194	3926414	12/04/2018 10:11 am	12/07/2018 6:44 am	First Floor Room 142	< 0.4
2405195	3926415	12/04/2018 10:12 am	12/07/2018 6:45 am	First Floor Room 180	0.6
2405196	3926416	12/04/2018 10:13 am	12/07/2018 6:45 am	First Floor Room 180	0.7
2405197	3926440	12/04/2018 10:13 am	12/07/2018 6:46 am	First Floor Room 178	1.3
2405198	3926411	12/04/2018 10:14 am	12/07/2018 6:47 am	First Floor Room 179	0.7
2405199	3926412	12/04/2018 10:15 am	12/07/2018 6:47 am	First Floor Room 182	0.5

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

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NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886


Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2405200	3926413	12/04/2018 10:15 am	12/07/2018 6:48 am	First Floor Room 181	0.7
2405201	3926439	12/04/2018 10:16 am	12/07/2018 6:48 am	First Floor Room 184	0.6
2405202	3926334	12/04/2018 10:16 am	12/07/2018 6:49 am	First Floor Room 186	< 0.4
2405203	3926339	12/04/2018 10:17 am	12/07/2018 6:50 am	First Floor Room 189	0.5
2405204	3926340	12/04/2018 10:17 am	12/07/2018 6:50 am	First Floor Room 191	1.5
2405205	3926337	12/04/2018 10:18 am	12/07/2018 6:51 am	First Floor Room 190	0.6
2405206	3926338	12/04/2018 10:18 am	12/07/2018 6:52 am	First Floor Room 192	0.4
2405207	3926335	12/04/2018 10:19 am	12/07/2018 6:53 am	First Floor Room 193	0.4
2405208	3926331	12/04/2018 10:20 am	12/07/2018 6:54 am	First Floor Room 170	< 0.4
2405209	3926336	12/04/2018 10:20 am	12/07/2018 6:54 am	First Floor Room 168	0.6
2405210	3926332	12/04/2018 10:21 am	12/07/2018 6:55 am	First Floor Room 173	1.7

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

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Report Reviewed By: 

Report Approved By: 

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NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2405211	3926333	12/04/2018 10:22 am	12/07/2018 6:56 am	First Floor Room 167	2.1
2405212	3927095	12/04/2018 10:23 am	12/07/2018 6:57 am	First Floor Room 166	1.3
2405213	3927097	12/04/2018 10:24 am	12/07/2018 6:57 am	First Floor Room 164	1.1
2405214	3926251	12/04/2018 10:25 am	12/07/2018 6:58 am	First Floor Room 162	0.7
2405215	3926252	12/04/2018 10:25 am	12/07/2018 6:58 am	First Floor Room 162	1.2
2405216	3926255	12/04/2018 10:26 am	12/07/2018 6:59 am	First Floor Room 160	0.9
2405217	3926260	12/04/2018 10:27 am	12/07/2018 7:00 am	First Floor Room 158	0.6
2405218	3926259	12/04/2018 10:30 am	12/07/2018 7:01 am	First Floor Room 163	1.8
2405219	3926258	12/04/2018 10:32 am	12/07/2018 7:01 am	First Floor Room 159	1.7
2405220	3926257	12/04/2018 10:34 am	12/07/2018 7:02 am	First Floor Room 158A	1.3
2405221	3926248	12/04/2018 12:00 pm	12/07/2018 7:03 am	First Floor Room 145	0.8

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

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NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886


Log Number	Device Number	Test Exposure Duration:			Area Tested	Result pCi/L
2405222	3926249	12/04/2018	10:38 am	12/07/2018 7:04 am	First Floor Room 153	1.4
2405223	3926253	12/04/2018	10:39 am	12/07/2018 7:05 am	First Floor Room 157	1.1
2405224	3926254	12/04/2018	10:40 am	12/07/2018 7:06 am	First Floor Room 156A	0.7
2405225	3926250	12/04/2018	10:42 am	12/07/2018 7:07 am	First Floor Room 143	1.7
2405226	3926247	12/04/2018	10:43 am	12/07/2018 7:07 am	First Floor Room 146	2.1
2405227	3926241	12/04/2018	10:44 am	12/07/2018 7:08 am	First Floor Room 144	2.2
2405228	3926256	12/04/2018	10:45 am	12/07/2018 7:09 am	First Floor Room 152	0.6
2405229	3926242	12/04/2018	10:46 am	12/07/2018 7:09 am	First Floor Room 152	0.9
2405230	3926246	12/04/2018	10:47 am	12/07/2018 7:12 am	First Floor Kitchen	0.6
2405231	3926243	12/04/2018	10:48 am	12/07/2018 7:13 am	First Floor Room 152G	0.8
2405232	3927100	12/04/2018	10:52 am	12/07/2018 7:11 am	First Floor Room 151	0.9

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

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NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886


Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2405233	3926428	12/04/2018 11:03 am	12/07/2018 7:15 am	Ground Floor Room 048	< 0.4
2405234	3917890	12/04/2018 11:03 am	12/07/2018 7:15 am	Ground Floor Room 048	< 0.4
2405235	3917889	12/04/2018 11:04 am	12/07/2018 7:16 am	Ground Floor Room 046	0.7
2405236	3926238	12/04/2018 11:05 am	12/07/2018 7:16 am	Ground Floor Room 047	< 0.4
2405237	3926234	12/04/2018 11:06 am	12/07/2018 7:17 am	Ground Floor Room 045	1.2
2405238	3926235	12/04/2018 11:07 am	12/07/2018 7:18 am	Ground Floor Room 043	1.1
2405239	3926236	12/04/2018 11:08 am	12/07/2018 7:19 am	Ground Floor Room 042	0.7
2405240	3926239	12/04/2018 11:09 am	12/07/2018 7:20 am	Ground Floor Room 040	0.7
2405241	3926424	12/04/2018 11:10 am	12/07/2018 7:21 am	Ground Floor Room 038	2.1
2405242	3926425	12/04/2018 11:11 am	12/07/2018 7:21 am	Ground Floor Room 037	1.3
2405243	3926231	12/04/2018 11:12 am	12/07/2018 7:22 am	Ground Floor Room 035	0.9

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NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886


Log Number	Device Number	Test Exposure Duration:			Area Tested	Result pCi/L
2405244	3926232	12/04/2018 11:13 am	12/07/2018 7:22 am	Ground Floor Room 036	1.6	
2405245	3926237	12/04/2018 11:14 am	12/07/2018 7:23 am	Ground Floor Room 034	1.2	
2405246	3926233	12/04/2018 11:15 am	12/07/2018 7:23 am	Ground Floor Room 031	0.4	
2405247	3926421	12/04/2018 11:16 am	12/07/2018 7:24 am	Ground Floor Room 039	0.8	
2405248	3926422	12/04/2018 11:17 am	12/07/2018 7:24 am	Ground Floor Room 024	1.1	
2405249	3926423	12/04/2018 11:18 am	12/07/2018 7:25 am	Ground Floor Room 022	0.5	
2405250	3926240	12/04/2018 11:19 am	12/07/2018 7:25 am	Ground Floor Room 020	< 0.4	
2405251	3926429	12/04/2018 11:20 am	12/07/2018 7:26 am	Ground Floor Room 017	0.6	
2405252	3917887	12/04/2018 11:21 am	12/07/2018 7:27 am	Ground Floor Room 018	< 0.4	
2405253	3917885	12/04/2018 11:22 am	12/07/2018 7:28 am	Ground Floor Room 015	1.0	
2405254	3917886	12/04/2018 11:23 am	12/07/2018 7:29 am	Ground Floor Room 013	0.6	

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

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NRPP 103216 AL  
NRSB ARL0017

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

Laboratory Report for:

Property Tested: Project # 04481387-1

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


MCPS Radon Survey  
Montgomery Village MS  
Montgomery Village AA 20886

Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
2405255	3917888	12/04/2018 11:25 am	12/07/2018 7:32 am	Ground Floor Room 010	0.4
2405256	3922989	12/04/2018 9:15 am	12/07/2018 7:32 am	Bldg Montgomery Village Middle School Flr NA R	0.5
2405257	3922987	12/04/2018 9:15 am	12/07/2018 7:32 am	Flr NA Rm NA	< 0.4
2405258	3922990	12/04/2018 9:15 am	12/07/2018 7:32 am	Flr NA Rm NA	< 0.4
2405259	3922986	12/04/2018 9:15 am	12/07/2018 7:32 am	Flr NA Rm NA	< 0.4
2405260	3922988	12/04/2018 6:00 am	12/07/2018 6:00 pm	Flr NA Rm NA	< 0.4

**Comment:** AMENDED REPORT for 3926274, 3926417 and 3926272 on 2/1/2019 to add dates and times. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/10/2018 Date Analyzed: 12/11/2018 Date Reported: 01/15/2019

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NRPP 105011 AL  
NRSB ARL0007  
Ohio RL41

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

Laboratory Report for:

Property Tested:

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

MCPS Radon Survey  
4514 Taylorsville Road  
Dayton OH 45424

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

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

Test Performed By: Unknown

Distributed by: Intertek-PSI (VA)

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

Report Reviewed By: 

Report Approved By: 

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# EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Intertek - PSI

Job Number 187732

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

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

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0947 Time Stop: 0947

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

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

Device No.'s: \_\_\_\_\_

3926831 thru 3926840

G2 Left

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: \_\_\_\_\_

Device No.'s: \_\_\_\_\_

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: \_\_\_\_\_

Device No.'s: \_\_\_\_\_

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



## Chain of Custody

Project Name: MCPS Radon Survey 2018

Name of Schools:

1. Grosvenor Center (Luxmanor ES)
2. Montrose Center
3. Gibbs ES
4. Westbrook ES
5. Hadley Farms (Resnik ES)
6. Kingsview MS
7. Longview School
8. Lynnbrook Center
9. Magruder HS
10. McAuliffe ES
11. McNair ES
12. Mill Creek Towne ES
13. Martin Luther King MS
14. Montgomery Village MS
15. Great Seneca Creek ES
16. Quince Orchard HS
17. Redland MS
18. North Bethesda MS
19. Spark Matsunaga ES
20. Whetstone ES
21. Wood Acres ES

---

	Date	Initials
Radon Test Kits Deployed	12/04/2018	ML
Radon Test Kits Sampled	12/07/2018	ML
Radon Test Kits Shipped to Lab*	12/07/2018	ML
Radon Test Kits Received by Lab*	12/08/2018; 12/09/2018	ML

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

**RADON SCREENING SURVEY – FOLLOW-UP MONTGOMERY VILLAGE MIDDLE SCHOOL**

19300 Watkins Mill Road, Montgomery Village, Maryland 20886

**EXECUTIVE SUMMARY**

Date of Test Report:	3/24/16 Follow-Up
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested	4
# Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	<0.4
High Value:	0.9
Confirmed Rooms $\geq$ 4.0 pCi/L US EPA Action Level	0

**Summary of Sampling Events  $\geq$  4.0 pCi/L**

Room	Result (pCi/L) 1/29/16 Initial	Result (pCi/L) 3/24/16 Follow-Up	Average Result (pCi/L)
134	--- Missing	<0.4	<0.4
141	--- Missing	0.8	0.8
184	--- Missing	<0.4	<0.4
130	--- Missing	<0.4	<0.4





## MCPS RADON TESTING

### Executive Summary: Montgomery Village Middle School

Date of Test Report:	3/24/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	4
# Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	0.4
High Value:	0.9

#### Project Status:

Retesting completed; no further action at this time.



March 24, 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 # 12146341.30

Location: Montgomery Village Middle School  
19300 Watkins Mill Road  
Montgomery Village, Maryland 20886

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 Montgomery Village Middle School, located at 19300 Watkins Mill Road in Montgomery Village, Maryland 20886 (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](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on February 29, 2016 and deployed nine (9) 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 March 3, 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:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
$\geq 4.0$ pCi/L	none	n/a
$< 4.0$ pCi/L	See Attachment B	

Notes:

D- Duplicate sample

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

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

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 316-7800.

Sincerely,



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

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

# ATTACHMENT A

## Floor Plan With Test Locations

**ATTACHMENT B**

**Radon Test Summary Spreadsheet**

**Table Notes:**

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank\*

PM- Project Manager

QC- Quality Control

\*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 10 testing. Office blanks were not submitted under each school individually.

<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Test Period: 02/29/16-03/03/16</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result</b>
3028887	130	<0.4
3028792	134	<0.4
3028798	141	0.4
3028816	141	0.8
3028819	184	<0.4
3028796	* 134 (Tampered)	<0.4

Table Note:

\* Missing or Compromised Sample



<b>Radon Testing Results</b>		
<b>Montgomery Village Middle School</b>		
<b>Test Period: 02/29/16-03/03/16</b>		
<b>Kit Number</b>	<b>QC Type</b>	<b>Result</b>
3028795	D (130)	<0.4
3028800	D (141)	0.9
3028799	FB (134)	<0.4

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


Montgomery Village M.S.  
19300 Watkins Mill Rd  
Montgomery Village MD 20886

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3015301	3028798	02/29/2016 12:33 pm 03/03/2016 10:52 am	Building 1 Unit 141 First Floor	0.4
3015302	3028816	02/29/2016 12:33 pm 03/03/2016 10:52 am	Building 1 Unit 141 First Floor	0.8
3015303	3028800	02/29/2016 12:33 pm 03/03/2016 10:52 am	Building 1 Unit 141 First Floor	0.9
3015304	3028796	02/29/2016 12:48 pm 03/03/2016 10:55 am	Building 1 Unit 134 First Floor	<0.4
3015305	3028792	02/29/2016 12:48 pm 03/03/2016 11:00 am	Building 1 Unit 134 First Floor	<0.4
3015306	3028799	02/29/2016 12:48 pm 03/03/2016 11:00 am	Building 1 Unit 134 First Floor	<0.4
3015307	3028819	02/29/2016 12:55 pm 03/03/2016 10:54 am	Building 1 Unit 184 First Floor	<0.4
3015308	3028887	02/29/2016 1:00 pm 03/03/2016 10:57 am	Building 1 Unit 130 First Floor	<0.4
3015309	3028795	02/29/2016 1:01 pm 03/03/2016 10:57 am	Building 1 Unit 130 First Floor	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/07/2016 Date Logged: 03/07/2016 Date Analyzed: 03/08/2016 Date Reported: 03/08/2016

Report Reviewed By: 

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

**Disclaimer:**

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

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

**Send Written Report To:**

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

**Site Tested:**

Site Name Montgomery Village MS  
Address 19300 Watkins Mill Rd  
Address  
City / Town Montgomery Village  
State/Province Postal Code MD 20886  
Test Country Montgomery County  
Project Number 12146341

**Contact Information:**

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

Lab Use Only	Device Number	Building Number	Unit Number	Floor	Name of Room	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
	3028798	1	141	1	71°	02/29/2016	12:33 pm	03/03/2016	10:52 AM	
	3028816	1	141	1	71°	02/29/2016	12:33 pm	03/03/2016	10:52 AM	
	3028800	1	141	1	71°	02/29/2016	12:53 pm	03/03/2016	10:52 AM	
	3028796	1	134	1	78°	02/29/2016	12:48 pm	03/03/2016	10:55 AM	
	3028792	1	134	1	71°	02/29/2016	12:48 pm	03/03/2016	11:00 AM	
	3028799	1	134	1	71°	02/29/2016	12:48 pm	03/03/2016	11:00 AM	
	3028819	1	184	1	71°	02/29/2016	12:55 pm	03/03/2016	10:54 AM	
	3028887	1	130	1	71°	02/29/2016	13:00 pm	03/03/2016	10:57 AM	
	3028795	1	130	1	71°	02/29/2016	13:01 pm	03/03/2016	10:57 AM	
						02/29/2016		03/03/2016		

NRPP 10511AL  
NRSB ARL0007

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

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies  
936 Ridgebrook Rd  
Sparks MD 21152

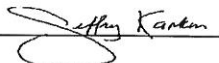
MCPS Radon Phase 10 Office Blank

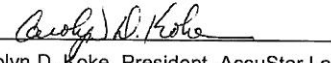
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3015360	3028828	02/29/2016 9:30 am 03/03/2016 9:30 am	Office Blank	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/07/2016 Date Logged: 03/07/2016 Date Analyzed: 03/08/2016 Date Reported: 03/08/2016

Report Reviewed By: 

Report Approved By: 

Carolyn D. Koke, President, AccuStar Labs

**Disclaimer:**

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NRPP 10511AL  
NRSB ARL0007

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

Laboratory Report for:

Property Tested:

KCI Technologies  
936 Ridgebrook Rd  
Sparks MD 21152

MCPS  
Transit Blanks

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

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

Distributed by: KCI Technologies, Inc.

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

Report Reviewed By: Christie Bates

Report Approved By: Carolyn D. Koke

Carolyn D. Koke, President, AccuStar Labs

**Disclaimer:**

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

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.

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

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

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

**Test Site Info**

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

Projects Contact Name: Don Coale Phone: \_\_\_\_\_

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

Multi-Page Report Y-N

LAB USE ONLY	
Wgt. Gain	pCi/L
	LOF
	LOF
	LOF
	LOF

Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)	Floor	Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM
3028953	Transit	1	1/19/16	approx: 00pm 1/23/16		9:30am
8955	Transit	1	1/19/16			
8954	Transit	1	1/19/16			
8997	Transit	1	1/19/16			

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:** (Circle all that apply) Initial Screening - Follow Up Test -  
 Post Mitigation - Real Estate - Other  
**Building Type:** (Circle One) Residential - Non Residential  
 Private Day Care - Private School  
 Day Care in Public School - Public School

Both Placed by and Retrieved by signatures are required  
 Canisters placed by \_\_\_\_\_ # \_\_\_\_\_

Canisters retrieved by \_\_\_\_\_ # \_\_\_\_\_

Send Results To:

Company Name: KCI Tech Date: 1/27/16  
 Address: 936 Ridgebrook  
 City: Sparks State: MD Zip: 21152  
 Phone: 410-599-3826  
 EMAIL Results to: James.Mouldale@kci.com  
 Attention: James Mouldale

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

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

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



EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc. Job Number 173618

NOMINAL Conditions: Radon Conc 25.2 pCi/L Rel. Hum 49.1 % Temp. 72.0 F

Date Start: 1/23/16 Date Stop: 1/25/16 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0821 Time Stop: 0821 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: (6) Char. Cons. Device No.'s: \_\_\_\_\_

3028985 thru 3028990

E2 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  $\mu$ R/h Elevation = 820 ft

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)
3010551	3028985	01/23/2016 8:20 am	01/25/2016 8:20 am	1 First Floor	24.2
3010552	3028986	01/23/2016 8:20 am	01/25/2016 8:20 am	2 First Floor	25.7
3010553	3028987	01/23/2016 8:20 am	01/25/2016 8:20 am	3 First Floor	23.8
3010554	3028988	01/23/2016 8:20 am	01/25/2016 8:20 am	4 First Floor	23.3
3010555	3028989	01/23/2016 8:20 am	01/25/2016 8:20 am	5 First Floor	24.0
3010556	3028990	01/23/2016 8:20 am	01/25/2016 8:20 am	6 First Floor	24.4

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.

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

Distributed by: KCI Technologies, Inc.

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

Report Reviewed By: Christie Bates

Report Approved By: Carolyn D. Koke

**Disclaimer:**

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

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

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

RECEIVED JAN 27 2016

**Test Site Info**

Name of Building/Project or Owner MCPS State MD Zip 20850 County Montgomery  
 Site Address: 850 Hungerford Dr Phone: 410-891-1842 Email: James.Moulsdale@kci.com  
 City: Rockville MD

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

Multi-Page Report Y-N

Detector Serial#	ROOM NAME & NUMBER - LOCATION OF DETECTOR IN ROOM (indicate duplicates and blanks)	Floor	Start Date	Start Time Include AM/PM	Stop Date	Stop Time Include AM/PM	LAB USE ONLY	
							Wgt. Gain	pCi/L
3028985	1 3010551	1	1/23/16	08:20	1/25/16	08:20		0.1A
3028986	2 3010552	1						
3028987	3 3010553	1						
3028988	4 3010554	1						
3028989	5 3010555	1						
3028990	6 3010556	1						

**Structure Type:** (circle one or more) Basement - Crawlspace - Slab on Grade - Other  
**Test Purpose:** (Circle all that apply) Initial Screening - Follow Up Test - Post Mitigation - Real Estate - Other  
**Building Type:** (Circle One) Residential - Non Residential Private Day Care - Private School Day Care in Public School - Public School

Both Placed by and Retrieved by signatures are required  
 Canisters placed by James Moulsdale  
 Canisters retrieved by James Moulsdale  
 Owner waives confidentiality by signing here \_\_\_\_\_ Date \_\_\_\_\_

Certified Testers Provide # \_\_\_\_\_ # \_\_\_\_\_

Send Results To:  
 Company Name: KCI technologies Inc  
 Address: 936 Ridgebrook Rd  
 City: Sparks MD 21152 State: 7in  
 Phone: 410-891-1842 Fax: \_\_\_\_\_  
 EMAIL Results to: James.Moulsdale@kci.com

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

Mailing: PO Box 990 Jonestown  
 Shipping: 929 Mt Zion Road, Lehigh Valley, PA 18053  
 800-523-4964 fax 717-241-1111  
 NEHA 10511AL NRSB ARL 0007

KCI Technologies, Inc.  
 3010551 **3028985** ACP275B EXP12/31/2018  
 1/27/2016



## MCPS RADON TESTING

### Executive Summary: Montgomery Village Middle School

Date of Test Report:	1/29/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	95
# Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	2.2

#### Project Status:

Initial testing completed; missing or compromised samples need re-test.



January 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 # 12146341.22

Location: Montgomery Village Middle School  
19300 Watkins Mill Road  
Montgomery Village, MD 20886

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 Montgomery Village Middle School, located at 19300 Watkins Mill Road in Montgomery Village, Maryland 20886 (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](http://www.montgomerycountymd.gov/dep/air/radon) or [www.epa.gov/radon](http://www.epa.gov/radon).

KCI visited the site on January 4, 2016 and deployed one hundred eight (108) 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 January 7, 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:

<b>Radon Concentration</b>	<b>Room</b>	<b>Result</b>
$\geq 4.0$ pCi/L	none	n/a
$< 4.0$ pCi/L	See Attachment B	

Notes:

D- Duplicate sample

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

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

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 316-7800.

Sincerely,



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

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

# ATTACHMENT A

## Floor Plan With Test Locations



# ATTACHMENT B

## Radon Test Summary Spreadsheet

**Table Notes:**

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

<b>Radon Testing Results</b>		
<b>Montgomery Village MS</b>		
<b>Test Period: 01/04/16-01/07/16</b>		
<b>Kit Number</b>	<b>Room / Area</b>	<b>Result</b>
7708689	10	0.7
7708686	13	0.8
7707692	15	1
7707696	17	1.1
7707693	22	0.6
7707700	24	1
7711503	29	< 0.3
7714982	31	0.9
7707506	34	1
7707699	35	0.7
7708697	36	1
7711496	37	1.4
7711491	38	1.9
7711495	40	0.8
7711380	42	1.1
7707697	43	0.8
7711381	45	0.8
7711494	46	1
7711490	47	1
7711492	48	< 0.3
7711473	100	1.2
7711462	102	1.2
7711493	104	1.1
7711378	108	2
7711387	110	1.7
7711382	112	1.7
7711385	114	1.9
7711390	120	2
7711397	128	0.7
7711396	130	0.5
7711392	134	0.8
7711383	137	1.7
7711399	139	1.7
7708115	140	1.3
7711384	141	1.3
7711459	141	1.6
7711446	144	1.3
7707691	145	0.9
7708122	146	1.3
7711464	147	1
7711465	149	1.3
7711460	153	< 0.3
7711457	157	0.9
7711470	158	< 0.3
7711451	159	1.2
7711478	160	0.8

Table Note:

\* Missing or Compromised Sample

Radon Testing Results		
Montgomery Village MS		
Test Period: 01/04/16-01/07/16		
Kit Number	Room / Area	Result
7711450	162	< 0.3
7711479	163	0.6
7711449	164	0.9
7711448	166	1
7711394	167	1.2
7711453	168	< 0.3
7711436	170	0.7
7711447	173	0.6
7708109	174	0.8
7708110	178	< 0.3
7708117	179	0.7
7708113	180	0.6
7711431	181	0.5
7708118	182	< 0.3
7711393	186	0.8
7712699	189	0.6
7711445	190	< 0.3
7711398	191	0.6
7708103	192	< 0.3
7711395	193	0.8
7711467	100C	1.1
7711468	100D	1.6
7711471	100E	1.3
7711483	100G	1
7711466	100H	1.1
7711474	100J	1.1
7711481	100L	1.6
7711482	100L	1.6
7711480	100N	1.3
7711476	100P	1.8
7711461	102A	1.6
7711485	104A	1.3
7711486	104C	1.7
7711500	104D	1.8
7711489	104E	1.5
7711488	104F	2.2
7711386	130A	0.6
7711391	* 134 (Missing)	0
7711389	* 141 (Missing)	0
7711498	141B	1.6
7711484	141C	1.7
7711452	153B	0.9
7711456	153C	0.5
7711455	156A	< 0.3
7711454	158LAB	0.6
7711435	* 184 (Missing)	0
7707698	AUX GYM	0.7
7711458	CAFE	1
7711475	CAFE	< 0.3

Table Note:

\* Missing or Compromised Sample

<b>Radon Testing Results</b>		
<b>Montgomery Village MS</b>		
<b>Test Period: 01/04/16-01/07/16</b>		
<b>Kit Number</b>	<b>QC Type</b>	<b>Result</b>
7706214	D (10)	1
7711377	D (108)	1.5
7711388	* D (130:Missing)	0
7711463	D (147)	1.5
7711469	D (157)	0.9
7711477	D (162)	0.6
7708114	D (179)	< 0.3
7707694	D (35)	0.6
7711472	FB (100)	< 0.3
7711401	FB (104A)	< 0.3
7707695	FB (22)	< 0.3
7714429	OB (0)	< 0.3
7714430	OB (0)	< 0.3

Table Note:

\* Missing or Compromised Sample

# ATTACHMENT C

## Laboratory Analytical Results

January 25, 2016  
**LABORATORY ANALYSIS REPORT**

Radon test result report for:  
**MONTGOMERY VILLAGE MS MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7714429	0	2016-01-04 @ 4:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-11
7714430	0	2016-01-04 @ 4:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-11
7706214	10	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	1.0 ± 0.3	2016-01-12
7708689	10	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.7 ± 0.3	2016-01-12
7711472	100	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711473	100	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.2 ± 0.3	2016-01-12
7711467	100C	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.1 ± 0.3	2016-01-11
7711468	100D	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-12
7711471	100E	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.3 ± 0.3	2016-01-12
7711483	100G	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.0 ± 0.3	2016-01-12
7711466	100H	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.1 ± 0.4	2016-01-12
7711474	100J	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.1 ± 0.4	2016-01-12
7711482	100L	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.3	2016-01-11
7711481	100L	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-12
7711480	100N	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.3 ± 0.3	2016-01-11
7711476	100P	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.8 ± 0.4	2016-01-11
7711462	102	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.2 ± 0.3	2016-01-11
7711461	102A	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-12
7711493	104	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.1 ± 0.4	2016-01-12
7711401	104A	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711485	104A	2016-01-04 @ 1:00 pm	2016-01-07 @ 12:00 pm	1.3 ± 0.3	2016-01-11
7711486	104C	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-12
7711500	104D	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.8 ± 0.4	2016-01-12
7711489	104E	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.5 ± 0.4	2016-01-11
7711488	104F	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	2.2 ± 0.4	2016-01-11
7711377	108	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.5 ± 0.4	2016-01-12
7711378	108	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	2.0 ± 0.4	2016-01-12
7711387	110	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.3	2016-01-11
7711382	112	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-11
7711385	114	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.9 ± 0.4	2016-01-11
7711390	120	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	2.0 ± 0.4	2016-01-11
7711397	128	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-11
7708686	13	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.8 ± 0.3	2016-01-12
7711388	130	@	@		
7711396	130	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.5 ± 0.3	2016-01-12
7711386	130A	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-11
7711391	134	@	@		

January 25, 2016  
**LABORATORY ANALYSIS REPORT**

Radon test result report for:  
**MONTGOMERY VILLAGE MS MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7711392	134	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7711383	137	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-11
7711399	139	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-11
7708115	140	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.3	2016-01-11
7711389	141	@	@		
7711459	141	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.6 ± 0.4	2016-01-11
7711384	141	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.3	2016-01-11
7711498	141B	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.6 ± 0.4	2016-01-11
7711484	141C	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.7 ± 0.4	2016-01-12
7711446	144	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.3	2016-01-11
7707691	145	2016-01-04 @ 3:00 pm	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-11
7708122	146	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.3 ± 0.4	2016-01-12
7711464	147	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.0 ± 0.3	2016-01-11
7711463	147	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.5 ± 0.4	2016-01-12
7711465	149	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.3 ± 0.3	2016-01-11
7707692	15	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-12
7711460	153	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711452	153B	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.4	2016-01-12
7711456	153C	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.5 ± 0.3	2016-01-11
7711455	156A	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711469	157	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-11
7711457	157	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-12
7711470	158	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711454	158LAB	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-11
7711451	159	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.2 ± 0.4	2016-01-12
7711478	160	2016-01-04 @ 11:00 am	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-12
7711477	162	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-11
7711450	162	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-11
7711479	163	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.6 ± 0.3	2016-01-12
7711449	164	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	0.9 ± 0.3	2016-01-12
7711448	166	2016-01-04 @ 11:00 am	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711394	167	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	1.2 ± 0.3	2016-01-11
7711453	168	2016-01-04 @ 11:00 am	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7707696	17	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	1.1 ± 0.3	2016-01-12
7711436	170	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-12
7711447	173	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-12
7708109	174	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11



January 25, 2016  
**\*\* LABORATORY ANALYSIS REPORT \*\***

Radon test result report for:  
**MONTGOMERY VILLAGE MS  
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7708110	178	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7708114	179	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7708117	179	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-11
7708113	180	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-12
7711431	181	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.5 ± 0.3	2016-01-11
7708118	182	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711435	184	@	@		
7711393	186	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-12
7712699	189	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-11
7711445	190	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711398	191	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-12
7708103	192	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7711395	193	2016-01-04 @ 12:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7707693	22	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.6 ± 0.3	2016-01-12
7707695	22	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	< 0.3	2016-01-12
7707700	24	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	1.0 ± 0.3	2016-01-11
7711503	29	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-12
7714982	31	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.9 ± 0.3	2016-01-11
7707506	34	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7707694	35	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.6 ± 0.3	2016-01-11
7707699	35	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.7 ± 0.3	2016-01-11
7708697	36	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711496	37	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.4 ± 0.4	2016-01-11
7711491	38	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.9 ± 0.4	2016-01-11
7711495	40	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-12
7711380	42	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.1 ± 0.3	2016-01-11
7707697	43	2016-01-04 @ 3:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7711381	45	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	0.8 ± 0.3	2016-01-11
7711494	46	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711490	47	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	1.0 ± 0.3	2016-01-11
7711492	48	2016-01-04 @ 1:00 pm	2016-01-07 @ 11:00 am	< 0.3	2016-01-11
7707698	AUX GYM	2016-01-04 @ 3:00 pm	2016-01-07 @ 12:00 pm	0.7 ± 0.3	2016-01-11
7711475	CAFE	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	< 0.3	2016-01-12
7711458	CAFE	2016-01-04 @ 11:00 am	2016-01-07 @ 10:00 am	1.0 ± 0.3	2016-01-12

January 15, 2016  
\*\* LABORATORY ANALYSIS REPORT \*\*

Radon test result report for:  
**MCPS PHASE 3 & 4  
TRANSIT BLANKS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7708218	TRANSIT 4	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708200	TRANSIT 1	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708190	TRANSIT 10	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708189	TRANSIT 11	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708191	TRANSIT 12	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708188	TRANSIT 13	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708197	TRANSIT 14	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708186	TRANSIT 15	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708185	TRANSIT 16	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708184	TRANSIT 17	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708182	TRANSIT 18	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708187	TRANSIT 18	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708199	TRANSIT 2	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708181	TRANSIT 20	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708180	TRANSIT 21	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708183	TRANSIT 22	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708178	TRANSIT 23	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708179	TRANSIT 24	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708177	TRANSIT 25	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708176	TRANSIT 26	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708174	TRANSIT 27	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708173	TRANSIT 28	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708175	TRANSIT 29	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708198	TRANSIT 3	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708172	TRANSIT 30	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708194	TRANSIT 5	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708196	TRANSIT 6	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708193	TRANSIT 7	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708192	TRANSIT 8	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23
7708195	TRANSIT 9	2015-12-18 @ 12:00 pm	2015-12-21 @ 12:00 pm	< 0.3	2015-12-23

December  
23,  
2015

**LABORATORY ANALYSIS  
REPORT \*\***

Spike Sample Laboratory Results

Radon test result report for:

**MCPS**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7706380	101	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	25.2	2015-12-23
7706381	102	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706208	103	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	27.7	2015-12-23
7705132	104	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	28.6	2015-12-23
7706366	105	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.5	2015-12-23
7706211	106	2015-12-18 @ 9:00 am	2015-12-21 @ 9:00 am	26.1	2015-12-23

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 KCI Technologies Inc. Job Number 173224

NOMINAL Conditions: Radon Conc 26.9 pCi/L Rel. Hum 49.6 % Temp. 69.9 F

Date Start: 12/18/15 Date Stop: 12/21/15 Date Start: \_\_\_\_\_ Date Stop: \_\_\_\_\_

Time Start: 0929 Time Stop: 0929 Time Start: \_\_\_\_\_ Time Stop: \_\_\_\_\_

Device No.'s: 7705132, 7706208, Device No.'s: \_\_\_\_\_

7706211, 7706366, \_\_\_\_\_

7706380, 7706381 \_\_\_\_\_

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  $\mu$ R/h Elevation = 820 ft**



## Chain of Custody

Project Name: MCPS Radon Phase IV

Name of Schools:

- |                            |                            |                           |
|----------------------------|----------------------------|---------------------------|
| 1. Albert Einstein HS      | 12. Herbert Hoover MS      | 23. Stephen Knolls School |
| 2. Bel Pre ES              | 13. Kohn F. Kennedy HS     | 24. Strathmore ES         |
| 3. Benjamin Banneker MS    | 14. Julius West MS         | 25. Summit Hall ES        |
| 4. Bethesda Chevy Chase HS | 15. Kensington Parkwood ES | 26. Travilah ES           |
| 5. Beverly Farms ES        | 16. Lakewood ES            | 27. Twinbrook ES          |
| 6. Cabin John MS           | 17. Mill Creek ES          | 28. Waters Landing ES     |
| 7. Chevy Chase ES          | 18. Montgomery Blair HS    | 29. Watkins Mill HAS      |
| 8. Farmland ES             | 19. Montgomery Village MS  | 30. Weller Road ES        |
| 9. Forest Oak MS           | 20. Northwood HS           | 31. White Oak MS          |
| 10. Gaithersburg HS        | 21. Paint Branch ES        | 32. Winston Churchill HS  |
| 11. Garrett Park ES        | 22. Rock Creek Forest ES   |                           |

	Date	Initials
Radon Test Kits Deployed	1/4/16	JM
Radon Test Kits Sampled	1/7/16	JM
Radon Test Kits Shipped to Lab*	1/8/16	JM
Radon Test Kits Received by Lab*	1/11/16	JM

\*All samples sent to Air Check, Inc., 1936 Butler Bridge Road, Mills River, NC 28758

Note: tests kits deployed at Montgomery Blair HS 1/4/16 and 1/5/16, test kits sampled at Montgomery Blair HS 1/7/16 and 1/8/16