

School Year: **24-25**

Facility:	Ronald McNair Elementary School		
Address:	13881 Hopkins Rd.		
	Germantown, MD 20874		
Reason for Testing:	Scheduled Re-Testing - <input type="checkbox"/> 2-year or <input checked="" type="checkbox"/> 5-year schedule <input type="checkbox"/> Clearance Testing (Post-Mitigation) <input checked="" type="checkbox"/> Building Envelope or HVAC Upgrades <input type="checkbox"/> New Construction – Addition or Facility		
Current Radon Status:	<input type="checkbox"/> Active Mitigation (2-year regular schedule) <input checked="" type="checkbox"/> No Active Mitigation (5-year regular schedule) <input type="checkbox"/> Not Previously Tested (New Facility)		
Round of Testing:	<input checked="" type="checkbox"/> Initial Testing -or- <input type="checkbox"/> Follow-up Testing		
Testing Status:	<input checked="" type="checkbox"/> No Further Testing Needed -or- <input type="checkbox"/> Follow-Up Testing Required		

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

Mitigation -	Facility Radon Status:		
<input checked="" type="checkbox"/> Not Required <input type="checkbox"/> Required (≥ 4.0 -pCi/L) Rooms:	<input checked="" type="checkbox"/> No Change in Status <input type="checkbox"/> Active Mitigation (2-year regular schedule) <input type="checkbox"/> No Active Mitigation (5-year regular schedule)		
Number of Rooms Tested	48	Lowest Value (pCi/L)	<0.3
Number of Rooms (≥ 4.0 -pCi/L)	0	Highest Value (pCi/L)	0.6

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

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

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

Attachment 2 – Laboratory Report(s)

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

Detector and Deployment

Detector/Device Type:	<input checked="" type="checkbox"/> Passive	<input 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 Labs	
Person(s) Deploying or Retrieving Test Devices and certification number		Organization/Company
Shannon King		KCI Technologies, Inc.
<i>If noncertified individuals, the qualified measurement professional providing oversight -</i>		
Tyler McCleaf, CSP Cert. # 111004-RMP		KCI Technologies, Inc.

Testing

<input checked="" type="checkbox"/> Short-Term	Length of Test (days):	3	Date of Deployment and Retrieval (mm/dd/yy):	3/3/2025
<input type="checkbox"/> Long-Term				3/6/2025
Does the test period include weekends, school breaks or holidays?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If “Yes” please explain/detail in the space below:</i>				
Was HVAC operating under occupied conditions?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If “No” please explain/detail in the space below:</i>				

Testing (continued)

Round of Testing	Detectors Deployed				Total
	Ground-Contact		Upper-Level(s)		
	Initial	Follow-Up	Initial	Follow-Up	
Test Locations ¹	46	0	2	0	48
Duplicates ²	5	0	1	0	6
Field Blanks ³	2	0	1	0	3
Grand Total					57

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

2 - 10% of all locations tested, per floor

3 – 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

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

Round of Testing	QA/QC Samples		Total
	Initial	Follow-Up	
Spikes ¹	Not applicable		10
Trip Blanks ²	1	0	1
Office Blanks ^{3, 4}	1	0	1
			12

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

2 – One per shipping container from start of detector deployment

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

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

Quality Assurance / Quality Control (continued)

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

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

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

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

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

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

Summary of Test Results¹ and Determination of Valid Measurements²

Round of Testing	Ground-Contact		Upper-Level(s)		Total
	Initial	Follow-Up	Initial	Follow-Up	
Number of test locations:	46	0	2	0	48
Number of locations ≥ 8.0 -pCi/L:	0	0	0	0	0
Number of locations ≥ 4.0 and ≤ 8 -pCi/L:	0	0	0	0	0
Number of locations ≥ 2.7 and < 4 -pCi/L:	0	0	0	0	0
Number of locations ≥ 2.0 and < 2.7 -pCi/L:	0	0	0	0	0
Number of missing required test locations ³ :	0	0	0	0	0
Number of failed duplicate control locations:	0	0	0	0	0
Percentage of missing test locations for the facility ^{4,5} :	0	0	0	0	0

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

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

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

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

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

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

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

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

Follow-Up Testing

Required –

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

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

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

Attachment 1:
Summary Data Tables

Table 1- Radon Testing Results		
Ronald McNair Elementary School		
Test Period: 3/3/2025 - 3/6/2025		
Kit Number	Room / Area	Result
11892750	101	< 0.3
11892751	103	< 0.3
11892792	104	< 0.3
11892752	105	< 0.3
11892793	106	< 0.3
11892794	106	< 0.3
11892753	107	< 0.3
11892755	107	< 0.3
11892795	108	< 0.3
11892754	109	0.6
11892796	110	< 0.3
11892756	112	0.6
11892757	117	< 0.3
11892762	119	< 0.3
11892765	121	< 0.3
11892766	121	< 0.3
11892791	123	< 0.3
11892790	130	0.6
11892789	132	< 0.3
11892788	134	< 0.3
11892787	139	< 0.3
11892784	140	< 0.3
11892786	140	< 0.3
11892783	142	< 0.3
11892785	142	< 0.3
11892782	144	< 0.3
11892781	146	< 0.3
11892773	148	< 0.3
11892770	151	0.6
11892776	153	< 0.3
11892777	155	< 0.3
11892778	156	< 0.3
11892779	157	< 0.3
11892780	158	< 0.3
11892771	160	< 0.3
11892769	161	< 0.3
11892768	162	< 0.3
11892767	163	< 0.3

Table 1- Radon Testing Results		
Ronald McNair Elementary School		
Test Period: 3/3/2025 - 3/6/2025		
11892758	171	< 0.3
11892763	172	< 0.3
11892764	172	< 0.3
11892759	173	< 0.3
11892760	175	< 0.3
11892761	177	< 0.3
11892797	208	< 0.3
11892798	208	< 0.3
11892799	219	< 0.3
11892800	219	< 0.3
11892747	100A	0.6
11892748	100B	< 0.3
11892749	100G	0.5
11892746	102B	< 0.3
11892774	148A	0.5
11892775	148A	< 0.3
11892772	161A	< 0.3
11892745	HEALTH	0.6
11892744	MAIN OFFICE	< 0.3

Table 3 - QC Radon Testing Results			
Ronald McNair Elementary School			
Test Period: 3/3/2025 - 3/6/2025			
Kit Number	QC Type	Room / Area	Result
11892794	D	106	< 0.3
11892753	D	107	< 0.3
11892766	FB	121	< 0.3
11892786	FB	140	< 0.3
11892785	D	142	< 0.3
11892764	D	172	< 0.3
11892798	D	208	< 0.3
11892799	FB	219	< 0.3
11892775	D	148A	< 0.3
11886966	OB	OFFICE BLANK	< 0.3
11886999	TB	TRAVEL BLANK	< 0.3

Table 3a - Duplicate Worksheet / Data Validation

Ronald McNair Elementary School

Test Period: 3/3/2025 - 3/6/2025

Sample ID		Duplicate Concentrations (pCi/L) and OC Checks								
Kit Numbers	Room / Area	Higher	Lower	Check #1 (Pass/Fail)	2x the Lower	Check #2 (Pass/Fail)	Average	Relative Percent Difference (RPD)	Check #3	
11892794	11892793	106	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892753	11892755	107	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892785	11892783	142	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892764	11892763	172	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892798	11892797	208	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892775	11892774	148A	0.5	0.3	✓	0.6	PASS	0.4	<1-pCi/L	✓

NOTES:

QC Check #1 - Data Entry

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

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

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

- enter 2 if RPD is BELOW warning and control levels, AND passes QC Check 1 and 2

- enter 1 if RPD is ABOVE warning and BELOW control levels, AND passes QC Check 1 and 2

- enter 0 if RPD is ABOVE control level, or 'FAILS' QC Check 1 or 2

Attachment 2:
Laboratory Reports

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11892747	100A	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	0.6 ± 0.3	2025-03-10
11892748	100B	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892749	100G	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	0.5 ± 0.3	2025-03-10
11892750	101	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892746	102B	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892751	103	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892792	104	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892752	105	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892794	106	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892793	106	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892755	107	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892753	107	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892795	108	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892754	109	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	0.6 ± 0.3	2025-03-10
11892796	110	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892756	112	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	0.6 ± 0.3	2025-03-10
11892757	117	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892762	119	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892766	121	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892765	121	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892791	123	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892790	130	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	0.6 ± 0.3	2025-03-10
11892789	132	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892788	134	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892787	139	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892786	140	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892784	140	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892783	142	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892785	142	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892782	144	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892781	146	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892773	148	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892775	148A	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892774	148A	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	0.5 ± 0.3	2025-03-10
11892770	151	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	0.6 ± 0.3	2025-03-10
11892776	153	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892777	155	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11892778	156	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892779	157	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892780	158	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892771	160	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892769	161	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892772	161A	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892768	162	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892767	163	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892758	171	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892764	172	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892763	172	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892759	173	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892760	175	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892761	177	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892797	208	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892798	208	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892800	219	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892799	219	2025-03-03 @ 12:00 pm	2025-03-06 @ 11:00 am	< 0.3	2025-03-10
11892745	HEALTH	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	0.6 ± 0.3	2025-03-10
11892744	MAIN OFFICE	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10

March 10, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**OFFICE
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886966	OB	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10

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

March 10, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**TRAVEL
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886999	TB	2025-03-03 @ 11:00 am	2025-03-06 @ 11:00 am	< 0.3	2025-03-10

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, INC Job Number 20001560

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

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

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

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

11477880, 11477883, 11477896

B4 Right

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

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

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

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

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

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

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

December 23, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SK
MAIN**

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

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, INC Job Number 20002919

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

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

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

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

11886401 thru 11886406,

11886410

G3 Right

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

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

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

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

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

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

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

March 19, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**QC
MAIN**

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

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing March 3rd – March 6th, 2025

Name of Schools:

1. Col. Zadok Magruder HS
2. S. Christa McAuliffe ES
3. Ronald McNair ES
4. Montgomery Village MS
5. Neelsville MS

	Date	Initials
Radon Test Kits Deployed	3/3/2025	DM
Radon Test Kits Collected	3/6/2025	AM
Radon Test Kits Shipped to Lab*	3/6/2025	AM
Radon Test Kits Received by Lab*	3/8/2025	DM

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



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Ronald McNair Elementary School
Date of Test Report	1/25/2023
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	41
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.0 pCi/L

Project Status:

1. 5-Year Re-Testing Completed.



January 25, 2023

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

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

Location: Ronald McNair Elementary School
13881 Hopkins Road
Germantown, MD 20874

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 Ronald McNair Elementary School located at 13881 Hopkins Rd. Germantown, MD 20874 (subject site).

Scope of Services:

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

KCI visited the site on December 19, 2022 and deployed forty-seven (47) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

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

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

KCI returned to the site on December 22, 2022 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.

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 23°F to 55°F. Maximum sustained winds ranged from 0-18 miles per hour. Average humidity was around 75% with 0.0 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 pCi/L	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		
Ronald McNair ES		
Test Period: 12/19/2022 - 12/22/2022		
Kit Number	Room / Area	Result
11287023	1	< 0.3
11287046	1	0.8
11287057	1	< 0.3
11287053	2	< 0.3
11287062	3	< 0.3
11287063	4	< 0.3
11287058	5	< 0.3
11287072	5	< 0.3
11287073	6	< 0.3
11287051	7	< 0.3
11287015	8	0.7
11287052	9	< 0.3
11287016	15	< 0.3
11287078	17	< 0.3
11287066	22	< 0.3
11287024	ART ROOM	< 0.3
11287081	ASSISTANT PRINCIPAL	0.6
11287031	CAFETERIA	< 0.3
11287032	CAFETERIA	< 0.3
11287047	COMMUNICATION CTR	< 0.3
11287008	CONFERENCE	< 0.3
11287048	CONTROL ROOM	< 0.3
11287056	DUAL PURPOSE	< 0.3
11287074	EXAM	< 0.3
11287055	GENERAL MUSIC	1.0
11287061	GYM	< 0.3
11287064	GYM	< 0.3
11287065	GYM OFFICE	< 0.3
11287069	HEALTH	0.5
11287077	HEALTH	< 0.3
11287079	HEALTH	0.8
11287038	K1	< 0.3
11287039	K2	< 0.3
11287033	K3	< 0.3
11287040	K4	< 0.3
11287054	MATERIAL PREP MC	< 0.3
11287017	MEDIA CENTER	< 0.3
11287049	MEDIA STORAGE	< 0.3
11287041	MUSIC ROOM	0.8
11287080	OFFICE	0.7
11287086	PRINCIPAL	< 0.3
11287025	READING RESOURCE 1	< 0.3

Table 1- Radon Testing Results		
Ronald McNair ES		
Test Period: 12/19/2022 - 12/22/2022		
Kit Number	Room / Area	Result
11287034	READING RESOURCE 1	< 0.3
11287042	SCHOOL COUNSELOR	< 0.3
11287071	STAFF LOUNGE	< 0.3
11287050	STAFF ROOM	< 0.3
11287082	WORK ROOM	< 0.3

Table 2- Radon Testing Results			
Ronald McNair ES			
Test Period: 12/19/22 - 12/22/22			
Kit Number	QC Type	Room / Area	Result
11287023	D	1	< 0.3
11287057	FB	1	< 0.3
11287072	D	5	< 0.3
11287069	D	Health	0.5
11287077	FB	Health	< 0.3
11287025	D	Reading Resource 1	< 0.3
11288518	OB	OFFICE BLANK	< 0.3
11287685	TB	TRAVEL BLANK	< 0.3

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11287023	1	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287057	1	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287046	1	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	0.8 ± 0.5	2022-12-28
11287016	15	2022-12-19 @ 5:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287078	17	2022-12-19 @ 5:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287053	2	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287066	22	2022-12-19 @ 5:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287062	3	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287063	4	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287072	5	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287058	5	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287073	6	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287051	7	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287015	8	2022-12-19 @ 5:00 pm	2022-12-22 @ 1:00 pm	0.7 ± 0.5	2022-12-28
11287052	9	2022-12-19 @ 5:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287024	ART ROOM	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287081	ASSISTANT PRINCIPAL	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	0.6 ± 0.5	2022-12-28
11287031	CAFETERIA	2022-12-19 @ 3:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287032	CAFETERIA	2022-12-19 @ 3:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287047	COMMUNICATION CTR	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287008	CONFERENCE	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287048	CONTROL ROOM	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287056	DUAL PURPOSE	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287074	EXAM	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287055	GENERAL MUSIC	2022-12-19 @ 4:00 pm	2022-12-22 @ 12:00 pm	1.0 ± 0.5	2022-12-28
11287064	GYM	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287061	GYM	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287065	GYM OFFICE	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287069	HEALTH	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	0.5 ± 0.5	2022-12-28
11287079	HEALTH	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	0.8 ± 0.5	2022-12-28
11287077	HEALTH	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287038	K1	2022-12-19 @ 3:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287039	K2	2022-12-19 @ 3:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287033	K3	2022-12-19 @ 3:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287040	K4	2022-12-19 @ 3:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287054	MATERIAL PREP MC	2022-12-19 @ 4:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287017	MEDIA CENTER	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11287049	MEDIA STORAGE	2022-12-19 @ 4:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287041	MUSIC ROOM	2022-12-19 @ 4:00 pm	2022-12-22 @ 12:00 pm	0.8 ± 0.5	2022-12-28
11287080	OFFICE	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	0.7 ± 0.5	2022-12-28
11287086	PRINCIPAL	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28
11287025	READING RESOURCE 1	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287034	READING RESOURCE 1	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287042	SCHOOL COUNSELOR	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287071	STAFF LOUNGE	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287050	STAFF ROOM	2022-12-19 @ 4:00 pm	2022-12-22 @ 1:00 pm	< 0.3	2022-12-28
11287082	WORK ROOM	2022-12-19 @ 5:00 pm	2022-12-22 @ 12:00 pm	< 0.3	2022-12-28

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KC1 TECHNOLOGIES, INC Job Number 208343

NOMINAL Conditions: Radon Conc 34.7 pCi/L Rel. Hum 49.4 % Temp. 69.6 F

Date Start: 12/24/22 Date Stop: 12/27/22 Date Start: _____ Date Stop: _____

Time Start: 0810 Time Stop: 0810 Time Start: _____ Time Stop: _____

Device No.'s: (5) CHAR BAGS - Device No.'s: _____

11285109, 11285110, 11285101

THRU 11285103

BY LEFT

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

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

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

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

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

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

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

December 29, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

OFFICE

MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11285110	SK1	2022-12-24 @ 8:00 am	2022-12-27 @ 8:00 am	31.7 ± 2.5	2022-12-29
11285101	SK2	2022-12-24 @ 8:00 am	2022-12-27 @ 8:00 am	30.1 ± 2.4	2022-12-29
11285103	SK3	2022-12-24 @ 8:00 am	2022-12-27 @ 8:00 am	34.0 ± 2.7	2022-12-29
11285102	SK4	2022-12-24 @ 8:00 am	2022-12-27 @ 8:00 am	30.9 ± 2.5	2022-12-29
11285109	SK5	2022-12-24 @ 8:00 am	2022-12-27 @ 8:00 am	32.0 ± 2.6	2022-12-29

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 3 December Schools

Name of Schools:

1. Clopper Mill ES
2. Cold Spring ES
3. Fox Chapel ES
4. Gaithersburg HS
5. Longview School
6. North Lake Center
7. Ronald McNair ES
8. Rosemont ES
9. S. Christa McAuliffe ES
10. Spark M. Matsunaga ES
11. William B. Gibbs, JR. ES

	Date	Initials
Radon Test Kits Deployed	12/19/2022	BMM
Radon Test Kits Collected	12/22/2022	BMM
Radon Test Kits Shipped to Lab*	12/22/2022	BMM
Radon Test Kits Received by Lab*	12/28/2022	BMM

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



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary:
Ronald A. McNair Elementary School
13881 Hopkins Road,
Germantown, MD 20874

Date of Test Report:	2/5/2019
Round of Testing:	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# of Rooms Tested:	43
# of Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	1.3

Project Status

Initial testing complete: No further action at this time



February 5, 2019

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

Re: Radon Testing Services

Location: Ronald A. McNair Elementary School
13881 Hopkins Road,
Germantown, MD 20874

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 Ronald A. McNair Elementary School, located at 13881 Hopkins Road, Germantown, MD 20874 (subject site).

Scope of Services:

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

PSI visited the site on December 4, 2018 and deployed fifty-six (56) 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:

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

Notes:
D -Duplicate Sample

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

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

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



Respectfully Submitted,

INTERTEK-PSI

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

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

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

ATTACHMENT B

Radon Test Summary Spreadsheet

Radon Testing Results		
Robert A. McNair Elementary School		
Testing Period: 12/4/18 - 12/7/18		
Kit Number	Room / Area	Result (pCi/L)
3888405	APR	<0.4
3888425	APR	0.4
3918559	Art	<0.4
3918552	Assistant Principal	<0.4
3918580	BSM	<0.4
3918554	Conference Room	<0.4
3198329	Copier Room	<0.4
3918577	Counselor	<0.4
3918319	CR21	<0.4
3918318	CR32	<0.4
3918545	CR1	<0.4
3918330	CR11	<0.4
3918546	CR2	<0.4
3918547	CR3	<0.4
3918548	CR4	<0.4
3918572	CR5	<0.4
3918573	CR6	<0.4
3918574	CR7	<0.4
3918575	CR8	<0.4
3918576	CR9	0.4
3918558	DPR	<0.4
3918568	GOF	<0.4
3918550	Gym	<0.4
3888334	Gym	0.5
3918549	Gym Office	<0.4
3918551	Health	<0.4
3918570	Health Exam room	<0.4
3918578	Human Resource	<0.4
3918541	IMC	<0.4
3918542	IMC	<0.4
3918543	IMC Office	<0.4
3918561	Instrumental Music	0.5
3918566	K1	<0.4
3918564	K2	<0.4
3918563	K3	<0.4
3918562	K4	<0.4
3918327	Kitchen	<0.4
3918544	Media Storage	<0.4
3918557	Music	<0.4
3918553	Principal	<0.4
3918560	Reading	<0.4
3918550	Staff Lounge	<0.4
3918567	Stage	1.3

Radon Testing Results		
Robert A. McNair Elementary School		
Testing Period: 12/4/18 - 12/7/18		
Kit Number	Room / Area	Result (pCi/L)
3918325	TV Control Room	<0.4
3918307	TV Studio	<0.4
3918555	Workroom	<0.4

Radon Testing Results		
Robert A. McNair Elementary School		
Testing Period: 12/4/18 - 12/7/18		
Kit Number	QC Type	Result (pCi/L)
3918569	GOF (D)	<0.4
3918579	Human Resource	<0.4
3918565	K2 (D)	<0.4
3917328	Kitchen (D)	<0.4
3918571	Staff Lounge (D)	<0.4
3918556	Workroom (D)	<0.4
3927602	Field Blank	<0.4
3927723	Field Blank	<0.4
3917881	Office Blank	<0.4
3927722	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

NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Ronald A. McNair Elementary School
Darnestown MD 20874

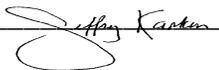
Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
3202603	3918327	12/04/2018 8:28 am	12/07/2018 7:45 am	Floor First Room Kitchen	< 0.4
3202604	3918328	12/04/2018 8:28 am	12/07/2018 7:45 am	Floor First Room Kitchen Duplicate	< 0.4
3202605	3918329	12/04/2018 8:32 am	12/07/2018 7:46 am	Floor First Room Copier Room	< 0.4
3202606	3918561	12/04/2018 7:00 am	12/07/2018 7:00 am	Floor First Room Instrumental Music	0.5
3202607	3918562	12/04/2018 7:02 am	12/07/2018 7:01 am	Floor First Room K4	< 0.4
3202608	3918563	12/04/2018 7:04 am	12/07/2018 7:02 am	Floor First Room K3	< 0.4
3202609	3918564	12/04/2018 7:06 am	12/07/2018 7:04 am	Floor First Room K2	< 0.4
3202610	3918565	12/04/2018 7:06 am	12/07/2018 7:04 am	Floor First Room K2 Duplicate	< 0.4
3202611	3918566	12/04/2018 7:10 am	12/07/2018 7:05 am	Floor First Room K1	< 0.4
3202612	3918567	12/04/2018 7:12 am	12/07/2018 7:06 am	Floor First Room Stage	1.3
3202613	3918568	12/04/2018 7:14 am	12/07/2018 7:08 am	Floor First Room GOF	< 0.4

Comment: AMENDED REPORT for 3918550 on 1-8-19 to reflect Staff Lounge.

Test Performed By: Rinzo Renthlei

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

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

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Ronald A. McNair Elementary School
Darnestown MD 20874

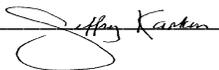
Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
3202614	3918569	12/04/2018 7:14 am	12/07/2018 7:08 am	Floor First Room GOF Duplicate	< 0.4
3202615	3918570	12/04/2018 7:18 am	12/07/2018 7:09 am	Floor First Room Health Exam Room	< 0.4
3202616	3918551	12/04/2018 7:20 am	12/07/2018 7:10 am	Floor First Room Health	< 0.4
3202617	3918552	12/04/2018 7:22 am	12/07/2018 7:11 am	Floor First Room Assisstant Principal	< 0.4
3202618	3918553	12/04/2018 7:24 am	12/07/2018 7:12 am	Floor First Room Principal	< 0.4
3202619	3918554	12/04/2018 7:26 am	12/07/2018 7:13 am	Floor First Room Conference Room	< 0.4
3202620	3918555	12/04/2018 7:28 am	12/07/2018 7:15 am	Floor First Room Workroom	< 0.4
3202621	3918556	12/04/2018 7:28 am	12/07/2018 7:15 am	Floor First Room Workroom Duplicate	< 0.4
3202622	3918557	12/04/2018 7:32 am	12/07/2018 7:16 am	Floor First Room Music	< 0.4
3202623	3918558	12/04/2018 7:34 am	12/07/2018 7:17 am	Floor First Room Dual Purpose	< 0.4
3202624	3918559	12/04/2018 7:36 am	12/07/2018 7:18 am	Floor First Room Art	< 0.4

Comment: AMENDED REPORT for 3918550 on 1-8-19 to reflect Staff Lounge.

Test Performed By: Rinzo Renthlei

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Ronald A. McNair Elementary School
Darnestown MD 20874

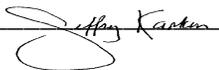
Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
3202625	3918560	12/04/2018 7:38 am	12/07/2018 7:19 am	Floor First Room Reading	< 0.4
3202626	3918541	12/04/2018 7:40 am	12/07/2018 7:20 am	Floor First Room IMC	< 0.4
3202627	3918542	12/04/2018 7:42 am	12/07/2018 7:21 am	Floor First Room IMC	< 0.4
3202628	3918543	12/04/2018 7:44 am	12/07/2018 7:22 am	Floor First Room IMC Office	< 0.4
3202629	3918544	12/04/2018 7:46 am	12/07/2018 7:23 am	Floor First Room Media Storage	< 0.4
3202630	3918545	12/04/2018 7:48 am	12/07/2018 7:24 am	Floor First Room CR1	< 0.4
3202631	3918546	12/04/2018 7:50 am	12/07/2018 7:25 am	Floor First Room CR2	< 0.4
3202632	3918547	12/04/2018 7:52 am	12/07/2018 7:26 am	Floor First Room CR3	< 0.4
3202633	3918548	12/04/2018 7:54 am	12/07/2018 7:27 am	Floor First Room CR4	< 0.4
3202634	3918549	12/04/2018 7:56 am	12/07/2018 7:28 am	Floor First Room Gym Office	< 0.4
3202635	3918550	12/04/2018 7:58 am	12/07/2018 7:29 am	Floor First Room Staff Lounge	< 0.4

Comment: AMENDED REPORT for 3918550 on 1-8-19 to reflect Staff Lounge.

Test Performed By: Rinzo Renthlei

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Ronald A. McNair Elementary School
Darnestown MD 20874

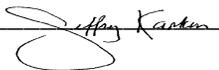
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3202636	3918571	12/04/2018 8:02 am 12/07/2018 7:32 am	Floor First Room Staff Lounge Duplicate	< 0.4
3202637	3918572	12/04/2018 8:06 am 12/07/2018 7:33 am	Floor First Room CR5	< 0.4
3202638	3918573	12/04/2018 8:08 am 12/07/2018 7:34 am	Floor First Room CR6	< 0.4
3202639	3918574	12/04/2018 8:10 am 12/07/2018 7:35 am	Floor First Room CR7	< 0.4
3202640	3918575	12/04/2018 8:12 am 12/07/2018 7:36 am	Floor First Room CR8	< 0.4
3202641	3918576	12/04/2018 8:14 am 12/07/2018 7:37 am	Floor First Room CR9	0.4
3202642	3918577	12/04/2018 8:16 am 12/07/2018 7:38 am	Floor First Room Councelor	< 0.4
3202643	3918578	12/04/2018 8:18 am 12/07/2018 7:40 am	Floor First Room Human Resource	< 0.4
3202644	3918579	12/04/2018 8:18 am 12/07/2018 7:40 am	Floor First Room Human Resource Duplicate	< 0.4
3202645	3918580	12/04/2018 8:22 am 12/07/2018 7:41 am	Floor First Room BSM	< 0.4
3202646	3918307	12/04/2018 8:24 am 12/07/2018 7:42 am	Floor First Room TV Studio	< 0.4

Comment: AMENDED REPORT for 3918550 on 1-8-19 to reflect Staff Lounge.

Test Performed By: Rinzo Renthlei

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Ronald A. McNair Elementary School
Darnestown MD 20874

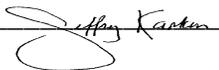
Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
3202647	3918325	12/04/2018 8:26 am	12/07/2018 7:43 am	Floor First Room TV Control room	< 0.4
3202648	3918330	12/04/2018 8:38 am	12/07/2018 7:49 am	Floor Second Room CR11	< 0.4
3202649	3918318	12/04/2018 8:40 am	12/07/2018 7:50 am	Floor Second Room CR 32	< 0.4
3202650	3918319	12/04/2018 8:42 am	12/07/2018 7:51 am	Floor Second Room CR 21	< 0.4
3202651	3917881	12/04/2018 6:00 am	12/07/2018 6:00 pm	Floor NA Room Office Blank	< 0.4
3202652	3927722	12/04/2018 6:00 am	12/07/2018 6:00 pm	Floor NA Room Transit Blank	< 0.4
3202653	3927602	12/04/2018 7:00 am	12/07/2018 8:00 am	Floor NA Room Field Blank	< 0.4
3202654	3927723	12/04/2018 7:00 am	12/07/2018 8:00 am	Floor NA Room Field Blank	< 0.4

Comment: AMENDED REPORT for 3918550 on 1-8-19 to reflect Staff Lounge.

Test Performed By: Rinzo Renthlei

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Ronald A. McNair Elementary School
MD 20874

Log Number	Device Number	Test Date	Exposure Duration	Area Tested	Result pCi/L
2405269	3888405	12/04/2018	8:34 am - 12/07/2018 7:47 am	Floor First Room APR	< 0.4
2405270	3888425	12/04/2018	8:36 am - 12/07/2018 7:48 am	Floor First Room APR	0.4

Comment: A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: Date Analyzed: 12/10/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

EPA Method #402-R-92-004
Liquid Scintillation
NRPP Device Code 8088
NRSB Device Code 12193

Laboratory Report for:

Property Tested: Project # 04481387-1

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

MCPS Radon Survey
Ronald A. McNair Elementary School
MD 20874

Log Number	Device Number	Test	Exposure	Duration:	Area Tested	Result pCi/L
2405268	3888334	12/04/2018	8:00 am	12/07/2018 7:30 am	Floor First Room Gym	0.5

Comment: 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: 12/10/2018 Date Reported: 01/04/2019

Report Reviewed By: 

Report Approved By: 

Disclaimer:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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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

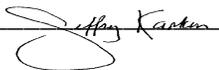
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3204125	3926831	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	36.1
3204126	3926832	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	34.8
3204127	3926833	12/07/2018 9:47 am - 12/10/2018 9:47 am	Spike	33.7
3204128	3926834	12/07/2018 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: 

Disclaimer:

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EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Intertek - PSI

Job Number 187732

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

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

Date Start: _____ Date Stop: _____

Time Start: 0947 Time Stop: 0947

Time Start: _____ Time Stop: _____

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

Device No.'s: _____

3926831 thru 3926840

G2 left

Date Start: _____ Date Stop: _____

Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____

Time Start: _____ Time Stop: _____

Device No.'s: _____

Device No.'s: _____

Date Start: _____ Date Stop: _____

Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____

Time Start: _____ Time Stop: _____

Device No.'s: _____

Device No.'s: _____

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



Chain of Custody

Project Name: MCPS Radon Survey 2018

Name of Schools:

1. 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



MCPS RADON TESTING

Executive Summary: Ronald McNair Elementary School

Date of Test Report:	3/4/2016 (Rev 1)
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	44
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	1.4

Project Status:

Initial testing completed; no further action at this time.



March 4, 2016 (Rev 1)

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

Re: **Radon Testing Services**
KCI Job # 12146341.20

Location: Ronald McNair Elementary School
13881 Hopkins Road
Germantown, MD 20874

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 Ronald McNair Elementary School, located at 13881 Hopkins Road in Germantown, Maryland 20874 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on December 21, 2015 and deployed fifty-eight (58) 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 December 24, 2015 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936

Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

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

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

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

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

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥ 4.0 pCi/L	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

Radon Testing Results		
Ronald A McNair ES		
Test Period: 12/21/15-12/24/15		
Kit Number	Room / Area	Result
7710619	ART	0.6
7710646	ASST PRINCIPAL	< 0.3
7710607	CAFETERIA	< 0.3
7710609	CAFETERIA	< 0.3
7710621	CLASS 1	0.6
7710566	CLASS 13	< 0.3
7710611	CLASS 17	< 0.3
7710651	CLASS 2	0.8
7710536	CLASS 22	1.3
7710624	CLASS 3	< 0.3
7710623	CLASS 4	0.8
7710628	CLASS 5	< 0.3
7710629	CLASS 6	0.6
7710632	CLASS 7	0.6
7710657	CLASS 8	0.6
7710633	CLASS 9	0.7
7710661	CONFERENCE	< 0.3
7710642	DUAL	< 0.3
7710640	GUIDANCE	0.7
7710604	GUIDANCE 2	< 0.3
7710625	GYM	1.1
7710626	GYM	1.0
7710644	HEALTH	0.7
7710643	INSTRUMENT	1.4
7710662	K1	< 0.3
7710659	K2	< 0.3
7710613	K3	0.7
7710602	K4	< 0.3
7710647	MAIL	< 0.3
7710616	MEDIA	0.8
7710601	MEDIA	0.8
7710612	MEDIA OFFICE	0.7
7710618	MUSIC	< 0.3
7710645	OFFICE	0.9
7710636	P1	< 0.3
7710635	P2	< 0.3
7710637	P3	< 0.3
7710634	P4	< 0.3
7710631	P5	< 0.3
7710639	P6	< 0.3
7710649	PRINCIPAL	< 0.3
7710620	READ1	0.6
7710603	READ2	< 0.3
7710606	SERVICE	0.8
7710627	STAFF	0.7
7710610	STAGE	< 0.3

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Ronald A McNair ES		
Test Period: 12/21/15-12/24/15		
Kit Number	Room / Area	Result
7710605	TV STUDIO	< 0.3

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Ronald A McNair ES		
Test Period: 12/21/15-12/24/15		
Kit Number	QC Type	Result
7710622	D (CLASS 1)	0.9
7710660	D (CLASS 13)	< 0.3
7710665	D (CLASS 9)	0.8
7710638	D (K1)	< 0.3
7710608	D (P6)	< 0.3
7710615	D (TV STUDIO)	< 0.3
7710614	FB (CLASS 22)	< 0.3
7710630	FB (CLASS 6)	< 0.3
7710641	FB (K3)	< 0.3
7710617	FB (MEDIA)	< 0.3
7710406	OB (0)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
**RONALD A MCNAIR ES
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7710406	0	2015-12-21 @ 6:00 pm	2015-12-24 @ 1:00 pm	< 0.3	2015-12-28
7710619	ART	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	0.6 ± 0.3	2015-12-28
7710646	ASST PRINCIPAL	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710607	CAFETRIA	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710609	CAFETRIA	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710621	CLASS 1	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.6 ± 0.3	2015-12-28
7710622	CLASS 1	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.9 ± 0.3	2015-12-28
7710566	CLASS 13	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710660	CLASS 13	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710611	CLASS 17	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-28
7710651	CLASS 2	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.8 ± 0.3	2015-12-28
7710614	CLASS 22	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-28
7710536	CLASS 22	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	1.3 ± 0.4	2015-12-28
7710624	CLASS 3	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-28
7710623	CLASS 4	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.8 ± 0.3	2015-12-28
7710628	CLASS 5	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710629	CLASS 6	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.6 ± 0.4	2015-12-29
7710630	CLASS 6	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710632	CLASS 7	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.6 ± 0.3	2015-12-28
7710657	CLASS 8	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.6 ± 0.3	2015-12-28
7710633	CLASS 9	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.7 ± 0.3	2015-12-28
7710665	CLASS 9	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.8 ± 0.3	2015-12-28
7710661	CONFERENCE	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710642	DUAL	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710640	GUIDANCE	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.7 ± 0.3	2015-12-29
7710604	GUIDANCE 2	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710625	GYM	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	1.1 ± 0.3	2015-12-28
7710626	GYM	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	1.0 ± 0.3	2015-12-28
7710644	HEALTH	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	0.7 ± 0.4	2015-12-29
7710643	INSTRUMENT	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	1.4 ± 0.5	2015-12-29
7710662	K1	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710638	K1	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710659	K2	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710613	K3	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	0.7 ± 0.4	2015-12-29
7710641	K3	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710602	K4	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710647	MAIL	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29

January 12, 2016
**LABORATORY ANALYSIS
REPORT ****

Radon test result report for:
**RONALD A MCNAIR ES
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7710616	MEDIA	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	0.8 ± 0.3	2015-12-28
7710601	MEDIA	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	0.8 ± 0.3	2015-12-28
7710617	MEDIA	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-28
7710612	MEDIA OFFICE	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	0.7 ± 0.3	2015-12-28
7710618	MUSIC	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710645	OFFICE	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	0.9 ± 0.4	2015-12-29
7710636	P1	2015-12-21 @ 3:00 pm	2015-12-24 @ 12:00 pm	< 0.3	2015-12-29
7710635	P2	2015-12-21 @ 3:00 pm	2015-12-24 @ 12:00 pm	< 0.3	2015-12-29
7710637	P3	2015-12-21 @ 3:00 pm	2015-12-24 @ 12:00 pm	< 0.3	2015-12-29
7710634	P4	2015-12-21 @ 3:00 pm	2015-12-24 @ 12:00 pm	< 0.3	2015-12-29
7710631	P5	2015-12-21 @ 3:00 pm	2015-12-24 @ 12:00 pm	< 0.3	2015-12-28
7710639	P6	2015-12-21 @ 3:00 pm	2015-12-24 @ 12:00 pm	< 0.3	2015-12-29
7710608	P6	2015-12-21 @ 3:00 pm	2015-12-24 @ 12:00 pm	< 0.3	2015-12-29
7710649	PRINCIPAL	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710620	READ 1	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.6 ± 0.4	2015-12-29
7710603	READ 2	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710606	SERVICE	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.8 ± 0.4	2015-12-29
7710627	STAFF	2015-12-21 @ 3:00 pm	2015-12-24 @ 11:00 am	0.7 ± 0.4	2015-12-29
7710610	STAGE	2015-12-21 @ 4:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-29
7710605	TV STUDIO	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-28
7710615	TV STUDIO	2015-12-21 @ 2:00 pm	2015-12-24 @ 11:00 am	< 0.3	2015-12-28

December
29,
2015

**LABORATORY ANALYSIS
REPORT ****

Radon test result report for:
TRANSIT DEC 14 2015
NONE

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7704395	TRANSIT 1	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706508	TRANSIT 10	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706510	TRANSIT 11	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706511	TRANSIT 12	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706505	TRANSIT 13	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704371	TRANSIT 14	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706506	TRANSIT 15	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704381	TRANSIT 16	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704399	TRANSIT 17	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704390	TRANSIT 18	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704396	TRANSIT 2	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704364	TRANSIT 3	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704370	TRANSIT 4	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704368	TRANSIT 5	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706524	TRANSIT 6	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706526	TRANSIT 7	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706518	TRANSIT 8	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706516	TRANSIT 9	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16

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 μ R/h Elevation = 820 ft**



Chain of Custody

Project Name: MCPS Radon Phase II

School Names:

- | | | |
|---------------------------|-----------------------------|---------------------------|
| 1. Bannockburn ES | 11. Sherwood HS | 21. Fairland ES |
| 2. Walt Whitman HS | 12. Hadley Farms | 22. Cannon Road ES |
| 3. Walter Johnson HS | 13. S. Christa McAuliffe ES | 23. Richard Montgomery HS |
| 4. North Chevy Chase ES | 14. Ronald A. McNair ES | 24. Brooke Grove ES |
| 5. Piney Branch ES | 15. MLK MS | 25. Belmont ES |
| 6. Forest Knolls ES | 16. Ashburton ES | 26. Emory Grove |
| 7. Newport Mill MS | 17. Bradley Hills ES | 27. Clarksburg HS |
| 8. Broad Acres ES | 18. Flora M. Singer ES | 28. Clarksburg ES |
| 9. Briggs Chaney MS | 19. Woodlin ES | 29. John T. Baker MS |
| 10. Blair G. Ewing Center | 20. Montgomery Knolls ES | |

	Date	Initials
Radon Test Kits Deployed	12/21/2015	JM
Radon Test Kits Collected	12/24/2015	JM
Radon Test Kits Shipped to Lab*	12/24/2015	JM
Radon Test Kits Received by Lab*	12/28/2015	JM

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