

School / Facility Radon Testing Report Form

School Year: 24-25

Facility:	Parkland	Parkland Middle School		
4610 W		est Frankfort Dr.		
Address:	Rockville	Rockville, MD 20853		
		Scheduled Re-Testing - 🛛 2-year or 🛛 5-year schedule		
Descen for T	octing	Clearance Testing (Post-Mitigation)		
Reason for T	esting:	Building Envelope or HVAC Upgrades		
		New Construction – Addition or Facility		
		Active Mitigation (2-year regular schedule)		
Current Rador	n Status:	No Active Mitigation (5-year regular schedule)		
		Not Previously Tested (New Facility)		
Round of Testing:		□ Initial Testing -or- ⊠ Follow-up Testing		
Testing Status:		☑ No Further Testing Needed - or - ☐ Follow-Up Testing Required		

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

Mitigation -	Facility Radon Status:			
🛛 Not Required	🛛 No Change in Status			
□ Required (≥4.0-pCi/L)	Active Mitigation (2-year regular schedule)			
Rooms:	□ No Active Mitigation (5-year regular schedule)			
Number of Rooms Tested	97	Lowest Value (pCi/L)	< 0.3	
Number of Rooms (≥4.0-pCi/L)	0	Highest Value (pCi/L)	0.8	

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

	\boxtimes Passive \boxtimes Charcoal Absorption (CAD) \square Alpha Track (ATD) \square				
Detector/Device	□ Continuous □ Electret ion Chamber (EIC) □ Electronic Integration (EID)				
	Other–Specify here:				
71					
Detector/Device					
Name:	Air Chek – Radon T	est Kits			
Manufacturer:	Radon Lab				
Person(s) Deploying or Retrieving Test Devices and certification number			Organization/Company		
Tyler McCleaf, CSP – Cert. #111004 – RMP			KCI Technologies, Inc.		
Shannon King		KCI Technologies, Inc.			
If noncertified individuals, the qualified measurement professional providing oversight -					
Tyler McCleaf, CSP – Cert. #111004 – RMP			KCI Technologies, KCI		

Testing

Short-Term	Length of	2	Date of Deployment and	02/03/25	03/24/25
Long-Term	Test (days):	5	Retrieval (mm/dd/yy):	02/06/25	03/27/25
Does the test pe	□ Yes D	🛾 No			
If " Yes " please explo	ain/detail in the s	pace below:			
Was HVAC operating under occupied conditions?					
If "No" please explain/detail in the space below:					



Testing (continued)

	Detectors Deployed				
	Ground-Contact		Upper-Level(s)		Tatal
Round of Testing	Initial	Follow-Up	Initial	Follow-Up	Iotai
Test Locations ¹	95	2	1	0	98
Duplicates ²	10	1	0	0	11
Field Blanks ³	4	1	0	0	5
			Grar	nd Total	114

1 – include all detectors deployed (duplicates, field blanks); 1 detector per occupied (or intended to be occupied) ground-contact space \leq 2,000-square feet; large spaces \geq 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 <u>per floor</u> (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.

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

1 - 3% of EIC detectors; and 3% from <u>each LOT</u> of CAD and ATD detectors; a <u>maximum of 6-spiked</u> <u>measurements</u> per month for both EIC detectors and <u>each LOT</u> 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, <u>analyzed prior to deployment</u>, 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 ± 25% of the chamber's reference value?	🛛 Yes 🗌 No	
Quality Control measurements comply with QA/QC requirements in the submitted testing organization's/company's QA plan?	ty Control measurements comply with QA/QC requirements in the submitted testing organization's/company's QA plan?	
Round of Testing	Initial	Follow-Up
All Field, Trip and Office Blanks are ≤ (less than or equal to)	🛛 Yes	🛛 Yes
to the Method Detection Limit?	🗆 No	🗌 No
For all Duplicate Samples ¹ , the higher value is $\leq 2x$ the lower value?	🛛 Yes	🛛 Yes
Tor all Duplicate samples, the figher value is 2 24 the lower value:	🛛 No	🗌 No
For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are	🛛 Yes	🛛 Yes
less than the Warning Level ³ ?	🗆 No	🗆 No
For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are	🛛 Yes	🛛 Yes
less than the Control Level ³ ?	🗆 No	🗆 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





	Ground-Contact		Upper-Level(s)		Total	
Round of Testing	Initial Follow-U		Initial	Follow-Up	lotal	
Number of test locations:	95	1	1	0	97	
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 :	2	0	0	0	2	
Number of failed duplicate control locations:	1	0	0	0	1	
Percentage of missing test locations for the facility ^{4,5} :	2.11%	0	0	0	2.06%	

Summary of Test Results¹ and Determination of Valid Measurements²

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 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	🛛 Yes	🛛 Yes
contact with the ground, and, if applicable, 10% of upper floor rooms?	🗆 No	🗆 No
Were valid measurements obtained in all occupied and intended to be occupied	🗌 Yes	🗌 Yes
rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?	🛛 No	🛛 No
If Yes to both above – then Testing Status – 'No Further Testing Needed' mark 'NA' below and complete Conclusions section		
If No to either above, were all results obtained under 4.0-pCi/L and	🗆 Yes	🛛 Yes
were sufficient valid measurements obtained? ^{1,2}	🛛 No	🗆 No
If No, then - 'Follow-up Testing Required' continue below.	🗆 NA	🗆 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 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 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 \geq 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	Follow same procedures as Initial	Not	Follow Initial Testing
Measurements	Testing	Applicable	procedures
Results ≥ 4.0-pCi/L	Deploy two Short-term follow-up	≥4.0	Mitigation Required
	tests and required blanks and	≥2.0 and <4.0	Consider Mitigation
Failed QC checks	duplicates; Average the results of the	<2.0	Mitigation Not
	two tests	<2.0	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					
	Parkland Middle School				
Те	st Period: 2/3/2025 - 2/6/20)25			
Kit Number	Room / Area	Result			
11919788	1002	< 0.3			
11919783	1004	< 0.3			
11919792	1004	< 0.3			
11951622	1005	0.6			
11951635	1009	0.8			
11951639	1011	< 0.3			
11951624	1012	< 0.3			
11951645	1012	< 0.3			
11951632	1015	< 0.3			
11951630	1020	< 0.3			
11951631	1022	< 0.3			
11951613	1111	< 0.3			
11951619	1111	< 0.3			
11951617	1113	< 0.3			
11951618	1113	< 0.3			
11951637	1117	< 0.3			
11951649	1125	0.6			
11951643	1127	0.5			
11951629	1129	< 0.3			
11951644	1129	< 0.3			
11951638	1131	< 0.3			
11951648	1132	< 0.3			
11951646	1134	< 0.3			
11951641	1136	< 0.3			
11951650	1136	< 0.3			
11951605	1140	< 0.3			
11951612	1142	< 0.3			
11951606	1148	0.7			
11951607	1150	< 0.3			
11951691	1200	< 0.3			
11951692	1200	< 0.3			
11951693	1210	< 0.3			
11951621	1214	< 0.3			
11951653	1215	< 0.3			
11951652	1216	< 0.3			
11951628	1220	0.5			
11951665	1221	0.5			

Table 1- Radon Testing Results							
	Parkland Middle School						
Te	st Period: 2/3/2025 - 2/6/20)25					
Kit Number	Room / Area	Result					
11951664	1222	0.5					
11951659	1225	< 0.3					
11951663	1226	0.7					
11951660	1228	< 0.3					
11951658	1232	< 0.3					
11951675	1232	< 0.3					
11951679	1300	< 0.3					
11951684	1304	< 0.3					
11951683	1306	< 0.3					
11951682	1310	< 0.3					
11951688	1311	< 0.3					
11951694	1313	< 0.3					
11951687	1314	< 0.3					
11951689	1318	< 0.3					
11951696	1318	< 0.3					
11951677	1322	< 0.3					
11951690	1324	< 0.3					
11951604	1330	< 0.3					
11951603	1332	< 0.3					
11951609	1332	< 0.3					
11951669	1334	< 0.3					
11951610	1338	< 0.3					
11951674	1340	< 0.3					
11951681	1340	0.6					
11951671	1344	< 0.3					
11951673	1345	< 0.3					
11951662	1400	< 0.3					
11951667	1400	< 0.3					
11951676	1403	< 0.3					
11951668	1404	< 0.3					
11951654	1405	0.7					
11951666	1405	< 0.3					
11951655	1407	0.7					
11951656	1408	< 0.3					
11951661	1410	< 0.3					
11951670	2020	< 0.3					
11919790	1000A	< 0.3					

Table 1- Radon Testing Results							
	Parkland Middle School						
Test Period: 2/3/2025 - 2/6/2025							
Kit Number	Room / Area	Result					
11919789	1000B	< 0.3					
11919786	1000C	< 0.3					
11919787	1000D	< 0.3					
11919785	1000F	< 0.3					
11919784	1000G	< 0.3					
11919778	1000H	0.5					
11919777	1004A	< 0.3					
11931000	1004B	< 0.3					
11951616	1004C	0.7					
11951615	1004D	0.8					
11951626	1004E	< 0.3					
11951647	1005A	0.8					
11951633	1011A	< 0.3					
11951634	1011A	< 0.3					
11951623	1020A	< 0.3					
11951642	1117A	< 0.3					
11951640	1123A	< 0.3					
11951686	1200A	< 0.3					
11951602	1200B	< 0.3					
11951601	1200C	< 0.3					
11951699	1209A	0.7					
11951700	1209E	< 0.3					
11951657	1228B	< 0.3					
11951695	1313A	< 0.3					
11951680	1314A	< 0.3					
11951608	AUX GYM	< 0.3					
11951614	AUX GYM	< 0.3					
11951620	CAFE	< 0.3					
11951627	CAFE	< 0.3					
11951625	KITCHEN OFFICE	< 0.3					
11919791	MAIN OFFICE	< 0.3					
11951697	MEDIA	< 0.3					
11951698	MEDIA	< 0.3					
11951672	NURSE	< 0.3					
11951685	NURSE	< 0.3					
11951678	NURSE OFFICE	< 0.3					

Table 2 - Summary Testing Results ≥2.0 pCi/L									
	Parkland Middle School								
		Tes	t Period: 2/3	8/2025 - 2/6/2025					
≥2.0 and <2	2.7 pCi/L	≥2.7 and <4	.0 pCi/L	≥4.0 and <8	3.0 pCi/l	≥8.0 p0	Ci/L		
Room / Area	Result	Room / Area	Result	Room / Area	Result	Room / Area	Result		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Tab	Table 3 - QC Radon Testing Results						
	Parkland	Middle School					
T	est Period:	2/3/2025 - 2/6/2025					
Kit Number	QC Type	Room / Area	Result				
11919783	D	1004	< 0.3				
11951613	FB	1111	< 0.3				
11951618	D	1113	< 0.3				
11951644	D	1129	< 0.3				
11951650	D	1136	< 0.3				
11951691	D	1200	< 0.3				
11951675	D	1232	< 0.3				
11951689	D	1318	< 0.3				
11951603	FB	1332	< 0.3				
11951674	D	1340	< 0.3				
11951662	FB	1400	< 0.3				
11951666	D	1405	< 0.3				
11951633	D	1011A	< 0.3				
11951685	FB	Nurse	< 0.3				
11931691	OB	OFFICE BLANK	< 0.3				
11931692	TB	TRAVEL BLANK	< 0.3				

Table 3a - Duplicate Worksheet / Data Validation										
	Parkland Middle School									
				Test	Period: 2/3/2	2025 - 2/6/2	025			
	Sample I	D			Dup	licate Cond	centrations (p	oCi/L) and C	OC Checks	
Kit Nı	umbers	Room / Area	Higher	Lower	Check #1 (Pass/Fail)	2x the Lower	Check #2 (Pass/Fail)	Average	Relative Percent Difference (RPD)	Check #3
11919792	11919783	1004	0.3	0.3	\checkmark	0.6	PASS	0.3	<1-pCi/L	\checkmark
11951617	11951618	1113	0.3	0.3	~	0.6	PASS	0.3	<1-pCi/L	\checkmark
11951634	11951633	1011A	0.3	0.3	\checkmark	0.6	PASS	0.3	<1-pCi/L	\checkmark
11951629	11951644	1129	0.3	0.3	\checkmark	0.6	PASS	0.3	<1-pCi/L	\checkmark
11951641	11951650	1136	0.3	0.3	\checkmark	0.6	PASS	0.3	<1-pCi/L	\checkmark
11951654	11951666	1405	0.7	0.3	\checkmark	0.6	FAIL	0.5	<1-pCi/L	×
11951681	11951674	1340	0.6	0.3	\checkmark	0.6	PASS	0.5	<1-pCi/L	\checkmark
11951658	11951675	1232	0.3	0.3	\checkmark	0.6	PASS	0.3	<1-pCi/L	\checkmark
11951696	11951689	1318	0.3	0.3	~	0.6	PASS	0.3	<1-pCi/L	 ✓
11951692	11951691	1200	0.3	0.3	V	0.6	PASS	0.3	<1-pCi/L	~
NOTES:			-				Average	(pCi/L)	Warning Level	Control Level
QC Check #	1 - Data Entry						< 2	.0	1-pCi/L	NA
QC Check #	2 - Higher dup	licate concentration	is < or = to	2x the Lo	wer		Between 2	Between 2.0 and 3.9 50% RPD 67%		67% RPD
QC Check #3 - Meets RPD Limits, by average duplicate concentration					≥ 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

Table 4 - Summary of Invalid Measurement Locations								
Pa	Parkland Middle School							
Tes	t Period: 2/3/25	- 2/6/25						
Kit Number	Room/Area	Reason						
11951611	1140	Missing Kit						
11951636	Gym	Missing Kit						
11951651	Gym	Missing Kit						

Table 1- Radon Testing Results							
	Parkland Middle School RT						
Test Period: 3/24/2025 - 3/27/2025							
Kit Number	Room / Area	Result					
11892484	1405	< 0.3					
11892485	1405	0.8					
11892486	1405	< 0.3					
11892487	1405	< 0.3					

Table 2 - Summary Testing Results ≥2.0 pCi/L									
Parkland Middle School RT									
		Te	st Period: 3/24	4/2025 - 3/27/202	25				
≥2.0 and <	2.7 pCi/L	≥2.7 and <	4.0 pCi/L	≥4.0 and •	<8.0 pCi/l	≥8.0	pCi/L		
Room / Area	Result	Room / Area	Result	Room / Area	Result	Room / Area	Result		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Table 3 - QC Radon Testing Results							
	Parklan	d Middle School RT					
	Test Period	d: 3/24/2025 - 3/27/2025					
Kit Number QC Type Room / Area Result							
11892486	D	1405	< 0.3				
11892487	FB	1405	< 0.3				
11951800	OB	OFFICE BLANK	< 0.3				
11892493	TB	TRAVEL BLANK	< 0.3				

	Table 3a - Duplicate Worksheet / Data Validation									
	Parkland Middle School RT									
				Test Peri	od: 3/24/202	5 - 3/27/202	5			
	Samp	le ID			Dup	licate Conc	entrations (p	Ci/L) and O	C Checks	
Kit Nı	umbers	Room / Area	Higher	Lower	Check #1 (Pass/Fail)	2x the Lower	Check #2 (Pass/Fail)	Average	Relative Percent Difference (RPD)	Check #3
11892486	11892484 11892485	1405	0.6	0.3	~	0.6	PASS	0.5	<1-pCi/L	~
NOTES:							Average	e (pCi/L)	Warning Level	Control Level
QC Check #1 - Data Entry				< 2	< 2.0 1-pCi/L		NA			
QC Check #2 - Higher duplicate concentration is < or = to 2x the Lower					Between 2	.0 and 3.9	50% RPD	67% RPD		
QC Check #	3 - Meets RPD	Limits, by average duplic	ate concen	tration			≥ 4	l.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

Table 4 - Summary of Invalid Measurement Locations									
Parkland Middle School RT									
	Test Period: 3/24/25 - 3/27/25								
Kit Number Room/Area Reason									
N/A	N/A	N/A							

Attachment 2: Laboratory Reports

Radon test result report for: PARKLAND MS MAIN

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Kit #	Room Id	Started	Ended	pCi/L	Analyzed
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11919790	1000A	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
119197861000C2025-02-03 0.0 am2025-02-06 0.0 am < 0.3 2025-02-10119197871000D2025-02-03 0.0 am2025-02-06 0.0 11:00 am < 0.3 2025-02-10119197841000C2025-02-03 0.0 am2025-02-06 0.1 11:00 am < 0.3 2025-02-10119197841000C2025-02-03 0.0 am2025-02-06 0.1 :00 am < 0.3 2025-02-10119197841000C2025-02-03 0.0 am2025-02-06 0.1 :00 am < 0.3 2025-02-101191978510042025-02-03 0.9 :00 am2025-02-06 0.1 :00 am < 0.3 2025-02-10119197771004A2025-02-03 0.9 :00 am2025-02-06 0.1 :00 am < 0.3 2025-02-10119310001004B2025-02-03 0.9 :00 am2025-02-06 0.1 :00 am < 0.3 2025-02-10119516151004D2025-02-03 0.9 :00 am2025-02-06 0.1 :00 am < 0.3 2025-02-10119516261004F2025-02-03 0.0 am2025-02-06 0.1 :00 am < 0.3 2025-02-10119516261004F2025-02-03 0.0 am2025-02-06 0.1 :00 am < 0.3 2025-02-101195163710092025-02-03 0.0 am2025-02-06 0.1 :00 am < 0.3 2025-02-101195163710092025-02-03 0.0 am2025-02-06 0.1 :00 am < 0.3 2025-02-101195163810112025-02-03 0.0 am2	11919789	1000B	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
$\begin{array}{l le le$	11919786	1000C	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
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119516161004C2025-02-03 @ 9:00 am2025-02-06 @ 11:00 am 0.7 ± 0.3 2025-02-10119516151004D2025-02-03 @ 9:00 am2025-02-06 @ 11:00 am 0.8 ± 0.3 2025-02-10119516261004E2025-02-03 @ 9:00 am2025-02-06 @ 11:00 am 0.6 ± 0.3 2025-02-101195162710052025-02-03 @ 10:00 am2025-02-06 @ 11:00 am 0.6 ± 0.3 2025-02-101195163710092025-02-03 @ 10:00 am2025-02-06 @ 11:00 am 0.8 ± 0.3 2025-02-101195163810192025-02-03 @ 10:00 am2025-02-06 @ 11:00 am 0.8 ± 0.3 2025-02-101195163910112025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-10119516341011A2025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-10119516331011A2025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-101195163410122025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-101195163210152025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-101195163310202025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-101195163110202025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-101195163110202025-02-03 @ 10:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-101195161311112025-02-03 @ 9:00 am2025-02-06 @ 11:00 am < 0.3 2025-02-10 <t< td=""><td>11931000</td><td>1004B</td><td>2025-02-03 @ 9:00 am</td><td>2025-02-06 @ 11:00 am</td><td>< 0.3</td><td>2025-02-10</td></t<>	11931000	1004B	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
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119516171113 $2025-02-03 @ 9:00 am$ $2025-02-06 @ 11:00 am$ < 0.3 $2025-02-10$ 119516371117 $2025-02-03 @ 10:00 am$ $2025-02-06 @ 11:00 am$ < 0.3 $2025-02-10$ 119516421117A $2025-02-03 @ 10:00 am$ $2025-02-06 @ 11:00 am$ < 0.3 $2025-02-10$ 119516401123A $2025-02-03 @ 10:00 am$ $2025-02-06 @ 11:00 am$ < 0.3 $2025-02-10$ 119516491125 $2025-02-03 @ 10:00 am$ $2025-02-06 @ 11:00 am$ < 0.3 $2025-02-10$ 119516431127 $2025-02-03 @ 10:00 am$ $2025-02-06 @ 11:00 am$ 0.6 ± 0.3 $2025-02-10$ 119516291129 $2025-02-03 @ 10:00 am$ $2025-02-06 @ 11:00 am$ < 0.3 $2025-02-10$	11951618	1113	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
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1195164911252025-02-03 @ 10:00 am2025-02-06 @ 11:00 am0.6 ± 0.32025-02-101195164311272025-02-03 @ 10:00 am2025-02-06 @ 11:00 am0.5 ± 0.32025-02-101195162911292025-02-03 @ 10:00 am2025-02-06 @ 11:00 am< 0.3	11951640	1123A	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
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1195162911292025-02-03 @ 10:00 am2025-02-06 @ 11:00 am< 0.32025-02-10	11951643	1127	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.5 ± 0.3	2025-02-10
	11951629	1129	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10

Radon test result report for: PARKLAND MS MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11951644	1129	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951638	1131	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951648	1132	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951646	1134	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951641	1136	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951650	1136	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951605	1140	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951612	1142	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951606	1148	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	0.7 ± 0.3	2025-02-10
11951607	1150	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951691	1200	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951692	1200	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951686	1200A	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951602	1200B	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951601	1200C	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951699	1209A	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	0.7 ± 0.3	2025-02-10
11951700	1209E	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951693	1210	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951621	1214	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951653	1215	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951652	1216	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951628	1220	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.5 ± 0.3	2025-02-10
11951665	1221	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.5 ± 0.3	2025-02-10
11951664	1222	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.5 ± 0.3	2025-02-10
11951659	1225	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951663	1226	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.7 ± 0.3	2025-02-10
11951660	1228	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951657	1228B	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951658	1232	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951675	1232	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951679	1300	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951684	1304	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951683	1306	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951682	1310	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951688	1311	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951694	1313	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951695	1313A	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10

Radon test result report for: PARKLAND MS MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11951687	1314	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951680	1314A	2025-02-03 @ 11:00 am	2025-02-06 @ 12:00 pm	< 0.3	2025-02-10
11951689	1318	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951696	1318	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951677	1322	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951690	1324	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951604	1330	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951603	1332	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951609	1332	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951669	1334	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951610	1338	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951674	1340	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951681	1340	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.6 ± 0.3	2025-02-10
11951671	1344	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951673	1345	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951667	1400	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951662	1400	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951676	1403	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951668	1404	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951654	1405	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.7 ± 0.3	2025-02-10
11951666	1405	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951655	1407	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	0.7 ± 0.3	2025-02-10
11951656	1408	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951661	1410	2025-02-03 @ 10:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951670	2020	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951614	AUX GYM	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951608	AUX GYM	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951627	CAFE	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951620	CAFE	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951625	KITCHEN OFFICE	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11919791	MAIN OFFICE	2025-02-03 @ 9:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951697	MEDIA	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951698	MEDIA	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951672	NURSE	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951685	NURSE	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11951678	NURSE OFFICE	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10

Radon test result report for: PARKLAND MS MAIN

11051(2) CVM 2025 02 02 @ 11:00 2025 02 0(@ 11:00		
11951636 GYM 2025-02-03 @ 11:00 am 2025-02-06 @ 11:00) am < 0.3	2025-02-10
11951651 GYM 2025-02-03 @ 11:00 am 2025-02-06 @ 11:00) am < 0.3	2025-02-10

Radon test result report for: OFFICE MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11931691	0	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10
11931691	0	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-0

Radon test result report for: TRAVEL MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11931692	Т	2025-02-03 @ 11:00 am	2025-02-06 @ 11:00 am	< 0.3	2025-02-10

EM OSORE IN DOWSER-IN	IUNITER RADUN CHAMBER
CLIENT KCI TECHNOLOGIES	Job Number 2000 1560
NOMINAL Conditions: Radon Conc 50.6	pCi/L Rel. Hum <u>50.6</u> % Temp. <u>70.8</u>
Date Start: 12/14/24 Date Stop: 13/17/24	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	
By 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:

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

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

Radon test result report for: 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



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Radon Test Kit Chain of Custody

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

Name of Schools:

- 1. A. Mario Loiederman MS
- 2. Parkland MS
- 3. Rockville HS
- 4. Stone Mill ES
- 5. Wyngate ES

	Date	Initials
Radon Test Kits Deployed	2/3/2025	an
Radon Test Kits Collected	2/6/2025	M
Radon Test Kits Shipped to Lab*	2/6/2025	an
Radon Test Kits Received by Lab*	2/8/2025	M

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

April 2, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11892484	1405	2025-03-24 @ 2:00 pm	2025-03-27 @ 2:00 pm	< 0.3	2025-04-02
11892485	1405	2025-03-24 @ 2:00 pm	2025-03-27 @ 2:00 pm	0.8 ± 0.5	2025-04-02
11892486	1405	2025-03-24 @ 2:00 pm	2025-03-27 @ 2:00 pm	< 0.3	2025-04-02
11892487	1405	2025-03-24 @ 2:00 pm	2025-03-27 @ 2:00 pm	< 0.3	2025-04-02

Radon test result report for: OFFICE MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11886664	OB	2025-03-24 @ 11:00 am	2025-03-27 @ 11:00 am	< 0.3	2025-04-02
11886692	OB	2025-03-25 @ 11:00 am	2025-03-28 @ 11:00 am	< 0.3	2025-04-02
11951800	OB	2025-03-24 @ 11:00 am	2025-03-28 @ 11:00 am	< 0.3	2025-04-02
11951800	OB	2023-03-24 @ 11.00 alli	2025-05-20 @ 11.00 alli	< 0.5	2023-

Radon test result report for: TRAVEL MAIN

11886691 TB 2025-03-24 @ 11:00 am 2025-03-27 @ 1	1:00 am < 0.3 2025-04-02
11886693 TB 2025-03-25 @ 11:00 am 2025-03-28 @ 1	1:00 am < 0.3 2025-04-02
11892493 TB 2025-03-24 @ 11:00 am 2025-03-28 @ 1	1:00 am < 0.3 2025-04-02

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIC	5. INC Job Number 2000 2919
NOMINAL Conditions: Radon Conc 7.0	pCi/L Rel. Hum 51.4 % Temp. 79.7 F
Date Start: 3/1/23 Date Stop: 3/10/2	Date Start: Date Stop:
Time Start: 0833 Time Stop: 0833	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 μR/h Elevation = 820 ft

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



 ENGINEERS
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 CONSTRUCTION
 MANAGERS

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

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing March 24th – March 27th, 2025

Name of Schools:

- 1. Beverly Farms ES
- 2. Bradley Hills ES
- 3. Cabin John MS
- 4. Springbrook HS
- 5. Thomas Edison HS
- 6. Walter Johnson HS

- 7. Julius West MS
- 8. Parkland MS
- 9. Rockville HS
- **10.Westland MS**
- 11. Charles W. Woodward HS
- 12. Walt Whitman HS

	Date	Initials
Radon Test Kits Deployed	3/24/2025	BIHU
Radon Test Kits Collected	3/27/2025	BIHM
Radon Test Kits Shipped to Lab*	3/28/2025	BAHU
Radon Test Kits Received by Lab*	4/01/2025	YUNHU

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



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Parkland Middle School Site Name Date of Test Report 05/12/2022 Round of Testing Initial (Follow-up) Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility # Rooms Tested 5 $\# \text{Rooms} \ge 4.0 \text{ pCi/L}$ 0 Lowest Value <0.3 pCi/L Highest Value 0.6 pCi/L

MCPS RADON TESTING – EXECUTIVE SUMMARY

Project Status

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


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May 12, 2022

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

Re:	Radon Testing Services
	KCI Job # 122108316

Location: Parkland Middle School 4610 West Frankfort Dr. Rockville, MD 20853

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 Parkland Middle School 4610 West Frankfort Dr. Rockville, MD 20853 (subject site).

Scope of Services:

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

KCI visited the site on March 22, 2022 and deployed seven (7) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

KCI sampled the following locations during this follow-up test:

- 1. Rooms with missing test kits from the Radon 2022 testing period (i.e. test kit was deployed but not recovered),
- 2. Rooms with invalidated test kits from the Radon 2022 testing period (e.g. an open window in the room or disturbed test kit),
- 3. Rooms which were locked/inaccessible during the Radon 2022 testing period,
- 4. Rooms with elevated radon results (i.e. \geq 3.5 piC/L),
- 5. Rooms previously tested for radon but not tested in Radon 2022, and
- 6. Additional rooms that require testing (if applicable.)

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

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

KCI returned to the site on March 25, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

These tests represent:

• Follow-up to initial testing.

These tests were conducted to:

• Evaluate radon concentrations at the facility.

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

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

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

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the low 40°Fs and high temperatures ranged from the low 50°Fs to the low 70°Fs. Maximum sustained winds ranged from 0-29 miles per hour. Average humidity was around 56% with 0.51 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

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

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

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

Sincerely,

Tyler McCleaf

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				
	Parkland MS RT			
Te	est Period: 03/22/2022 - 03/25/2022			
Kit Number	Room / Area	Result		
11138973	1311	0.6		
11138972	1000C < 0.3			
11138974	1000C < 0.3			
11139097	1000C	< 0.3		
11138967	1022A < 0.3			
11139077	1200A 0.5			
11139091	STAFFLOUNGE < 0.3			

Table 2- Radon Testing Results				
	Parklan	d MS RT		
	Test Period: 03/22,	/2022 - 03/25/2022		
Kit Number	QC Type	Room / Area	Result	
11138972	FB	1000c	< 0.3	
11139097	D	1000c	< 0.3	
11139902	OB	OFFICE BLANK	< 0.3	
11139928	ТВ	TRAVEL BLANK	< 0.3	

Summary of Missed Locations			
Parkland MS RT			
Test Period: 03/22/22 - 03/25/22			
Kit Number	Room/Area	Result	
	NA		

Summary of Missing, Compromised and >/= 4 piC/L Tests				
Parkland MS RT				
Test Period: 03/22/22 - 03/25/22				
Kit Number	Room/Area	Result		
	NA			

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for: PARKLAND MS RT MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11138972	1000C	2022-03-22 @ 11:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11138974	1000C	2022-03-22 @ 11:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11139097	1000C	2022-03-22 @ 11:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11138967	1022A	2022-03-22 @ 11:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28
11139077	1200A	2022-03-22 @ 11:00 am	2022-03-25 @ 10:00 am	0.5 ± 0.3	2022-03-28
11138973	1311	2022-03-22 @ 11:00 am	2022-03-25 @ 10:00 am	0.6 ± 0.3	2022-03-28
11139091	STAFFLOUNGE	2022-03-22 @ 11:00 am	2022-03-25 @ 10:00 am	< 0.3	2022-03-28

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, I	Job N	umber 204620
NOMINAL Conditions: Radon Conc 27.0 p	Ci/L Rel. Hum 50, 1	_% Temp. <u>70.0</u> F
Date Start: 3/18/22 Date Stop: 3/21/22	Date Start:	Date Stop:
Time Start: 0705 Time Stop: 0705	Time Start:	Time Stop:
Device No.'s: (5) Char Bags-	Device No.'s:	
11139367, 11139368, 11139371,		
11139710, 11139717		е
E3 Right	· · · · · · · · · · · · · · · · · · ·	
Date Start: Date Stop:	Date Start:	Date Stop:
Time Start: Time Stop:	Time Start:	Time Stop:
Device No.'s:	Device No.'s:	
	·	fi .
8 4 2		, m
Date Start: Date Stop:	Date Start:	Date Stop:
Time Start: Time Stop:	Time Start:	_ Time Stop:
Device No.'s:	Device No.'s:	

1

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

March 30, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within \pm 25% of the chamber's reference value (25.7 pCi/L).

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139367	SK1	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.9 ± 2.1	2022-03-30
11139368	SK2	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	23.9 ± 2.0	2022-03-30
11139371	SK3	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	25.7 ± 2.1	2022-03-30
11139710	SK4	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	26.4 ± 2.1	2022-03-30
11139717	SK5	2022-03-18 @ 7:00 am	2022-03-21 @ 7:00 am	24.6 ± 2.0	2022-03-30



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

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – March 2022 Schools – Retesting

Name of Schools:

- 1. Herbert Hoover MS
- 2. Parkland MS
- 3. Redland MS
- 4. Rock Creek Valley ES
- 5. Tilden MS
- 6. Rockville HS
- 7. Wootton HS
- 8. Capt. James E. Daly ES
- 9. Clarksburg HS
- 10.Clearspring ES
- 11.Hallie Wells MS
- 12.Northwest HS
- **13.Paint Branch HS**
- 14.Rocky Hills MS
- 15.Seneca Valley HS
- 16.Sherwood HS
- **17.Wilson Wims ES**

	Date	Initials
Radon Test Kits Deployed	03/22/2022	BMM
Radon Test Kits Collected	03/25/2022	BMM
Radon Test Kits Shipped to Lab*	03/25/2022	BMM
Radon Test Kits Received by Lab*	03/28/2022	BMM

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



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Site Name	Parkland Middle
	School
Date of Test Report	4/6/2022
Round of Testing	Initial
	Follow-up
	Post Remediation
	2 Year Testing
	5 Year Testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# Rooms Tested	82
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.5 pCi/L

MCPS RADON TESTING – EXECUTIVE SUMMARY

Project Status: Initial testing completed; Missing or compromised kits need re-sampling.



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April 6, 2022

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

Re:	Radon Testing Services
	KCI Job # 122108316

Location: Parkland MS 4610 W. Frankfort Dr. Rockville, MD 20853

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 Parkland MS, located at 4610 W. Frankfort Dr. Rockville, MD 20853 (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 February 8, 2022 and deployed ninety two (92) 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 February 11, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc.

is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

These tests represent:

• Follow-up to initial testing.

These tests were conducted to:

• Evaluate radon centration 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 low temperatures were in the 30s and high temperatures ranged from the mid 30s to the mid 50s Fahrenheit. Maximum sustained winds ranged from 3-12 miles per hour. Average humidity was around 23% with 0.1 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	None	N/A
<4.0 piC/L	See Attachn	nent 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 McCleaf

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

Attachments:

A- Floor Plan with Test LocationsB- Table 1-3, Radon Test Summary SpreadsheetsC- 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						
Parkland MS						
Т	Test Period: 02/8/2022 - 02/11/2022					
Kit Number	Room / Area	Result				
11113876	1002	< 0.3				
11113872	1004	0.7				
11113824	1005	1.4				
11113825	1009	0.8				
11113826	1011	< 0.3				
11113835	1012	0.6				
11113831	1015	< 0.3				
11113834	1020	0.7				
11113829	1022	< 0.3				
11113815	1129	0.6				
11113852	1200	< 0.3				
11113838	1210	< 0.3				
11113830	1214	< 0.3				
11113857	1215	< 0.3				
11113891	1216	0.7				
11113886	1220	0.9				
11113889	1221	< 0.3				
11113804	1222	0.9				
11113807	1225	< 0.3				
11113808	1225	0.5				
11113820	1226	0.7				
11113816	1228	0.6				
11113814	1232	< 0.3				
11113849	1300	< 0.3				
11113848	1304	0.5				
11113846	1306	< 0.3				
11113845	1310	< 0.3				
11113803	1313	< 0.3				
11113864	1313	0.7				
11113847	1314	0.5				
11113843	1318	< 0.3				
11113836	1322	< 0.3				
11113881	1324	< 0.3				
11113895	1400					
11113858	1403	< 0.3				
	1404	< U.3				
		0.5				
11113859	1405	< 0.3				
11113888	1407	< U.3				
11112002	1408	0.5				
11113892	1410	< 0.3				
11113930	2000	< 0.3				

Table 1- Radon Testing Results					
	Parkland MS				
Т	Test Period: 02/8/2022 - 02/11/2022				
Kit Number	Result				
11113884	2012	< 0.3			
11113869	2014	< 0.3			
11113883	2024	< 0.3			
11113878	1000A	0.9			
11113861	1000B	< 0.3			
11113867	1000B1	0.5			
11113887	1000D	< 0.3			
11113854	1000F	0.8			
11113862	1000G	0.5			
11113870	1000H	0.5			
11113871	1004A	< 0.3			
11113879	1004B	0.9			
11113882	1004C	1.0			
11113853	1004D	0.5			
11113875	1004F	< 0.3			
11113822	1005A	< 0.3			
11113832	1011A	0.5			
11113833	1020A	0.7			
11113818	1113 RECEIVING	0.5			
11113856	1200B	< 0.3			
11113850	1200C	< 0.3			
11113851	1200C	< 0.3			
11113873	1201 HEALTH	< 0.3			
11113880	1201 HEALTH	< 0.3			
11113874	1201B	< 0.3			
11113868	1201C	< 0.3			
11113821	1209A	0.6			
11113823	1209B	0.7			
11113842	1209C	0.8			
11113841	1209D	0.7			
11113840	1209E	0.5			
11113837	1212 SECURITY	< 0.3			
11113811	1228B	0.7			
11113844	1314A	0.8			
11113812	AUX GYM 1	0.5			
11113817	AUX GYM 2	< 0.3			
11113801	BOYS PE OFFICE 1123A	1.0			
11113813	BS 1111	0.5			
11113809	CAFETERIA	0.5			
11113810	CAFETERIA	0.6			
11113805	GIRLS PE OFFICE 1117A	0.5			
11113893	GYM	< 0.3			

	Table 1- Radon Testing Results			
	Parkland MS			
Т	est Period: 02/8/2022 - 02/11/2022			
Kit Number	Room / Area	Result		
11113894	GYM	0.9		
11113898	11113898 GYM			
11113897	11113897 GYM STAGE			
11113806	KITCHEN OFFICE	0.5		
11113877	MAIN OFFICE	0.7		
11113827	MEDIA CENTER 1209	< 0.3		
11113828 MEDIA CENTER 1209 < 0.3				
11113802	PE OFFICE 1119	0.7		

Table 2- Radon Testing Results					
	Parkland MS				
	Test Period: 02/8/20)22 - 02/11/2022			
Kit Number	QC Type	Room / Area	Result		
11113817	D	Aux Gym 2	< 0.3		
11113824	D	1005	1.4		
11113822	FB	1005A	< 0.3		
11113840	D	1209E	0.5		
11113807 D 1225 <					
11113860 FB 1404 <					
11113850 D 1200C					
11113864	D	1313	0.7		
11113880	FB	1201 Health	< 0.3		
11113867	D	1000B1	0.5		
11113894	D	Gym	0.9		
11113893	FB	Gym	< 0.3		
11113889	D	1221	< 0.3		
11113478	OB	OFFICE BLANK	< 0.3		
11113477	ТВ	TRAVEL BLANK	< 0.3		

Summary of Missed Locations						
Parkland MS						
1	Test Period: 02/8/22 - 02/11/22					
Kit Number Room/Area Result						
NA	1311	NA				
NA	1000C	NA				

Summary of Missing, Compromised and >/= 4 piC/L Tests					
Parkland MS					
	Test Period: 02/8/22 - 02/11/22				
Kit Number	Room/Area	Result			
11113819	1209B1 - Staff Lounge	Missing			
11113839	1022A	Missing			
11113855	1200A	Missing			

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

PARKLAND MS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11113878	1000A	2022-02-08 @ 10:00 am	2022-02-11 @ 8:00 am	0.9 ± 0.3	2022-02-15
11113861	1000B	2022-02-08 @ 10:00 am	2022-02-11 @ 8:00 am	< 0.3	2022-02-15
11113867	1000B1	2022-02-08 @ 10:00 am	2022-02-11 @ 8:00 am	0.5 ± 0.3	2022-02-15
11113887	1000D	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	< 0.3	2022-02-15
11113854	1000F	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	0.8 ± 0.3	2022-02-15
11113862	1000G	2022-02-08 @ 10:00 am	2022-02-11 @ 8:00 am	0.5 ± 0.3	2022-02-15
11113870	1000H	2022-02-08 @ 12:00 pm	2022-02-11 @ 8:00 am	0.5 ± 0.3	2022-02-15
11113876	1002	2022-02-08 @ 10:00 am	2022-02-11 @ 8:00 am	< 0.3	2022-02-15
11113872	1004	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	0.7 ± 0.3	2022-02-15
11113871	1004A	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	< 0.3	2022-02-15
11113879	1004B	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	0.9 ± 0.3	2022-02-15
11113882	1004C	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	1.0 ± 0.3	2022-02-15
11113853	1004D	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	0.5 ± 0.3	2022-02-15
11113875	1004F	2022-02-08 @ 11:00 am	2022-02-11 @ 8:00 am	< 0.3	2022-02-15
11113824	1005	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	1.4 ± 0.3	2022-02-14
11113822	1005A	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113825	1009	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	0.8 ± 0.3	2022-02-14
11113826	1011	2022-02-08 @ 8:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113832	1011A	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	0.5 ± 0.3	2022-02-15
11113835	1012	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	0.6 ± 0.3	2022-02-14
11113831	1015	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113834	1020	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	0.7 ± 0.3	2022-02-15
11113833	1020A	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	0.7 ± 0.3	2022-02-14
11113829	1022	2022-02-08 @ 8:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113818	1113 RECEIVING	2022-02-08 @ 8:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-15
11113815	1129	2022-02-08 @ 8:00 am	2022-02-11 @ 9:00 am	0.6 ± 0.3	2022-02-15
11113852	1200	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113856	1200B	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113851	1200C	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113850	1200C	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113880	1201 HEALTH	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113873	1201 HEALTH	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113874	1201B	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113868	1201C	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113821	1209A	2022-02-08 @ 9:00 am	2022-02-11 @ 9:00 am	0.6 ± 0.3	2022-02-15
11113823	1209B	2022-02-08 @ 9:00 am	2022-02-11 @ 9:00 am	0.7 ± 0.3	2022-02-15
11113842	1209C	2022-02-08 @ 9:00 am	2022-02-11 @ 9:00 am	0.8 ± 0.3	2022-02-14

Radon test result report for:

PARKLAND MS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11113841	1209D	2022-02-08 @ 9:00 am	2022-02-11 @ 9:00 am	0.7 ± 0.3	2022-02-15
11113840	1209E	2022-02-08 @ 9:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-15
11113838	1210	2022-02-08 @ 9:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113837	1212 SECURITY	2022-02-08 @ 9:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113830	1214	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113857	1215	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113891	1216	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	0.7 ± 0.3	2022-02-14
11113886	1220	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	0.9 ± 0.3	2022-02-15
11113889	1221	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113804	1222	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	0.9 ± 0.3	2022-02-14
11113808	1225	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	0.5 ± 0.3	2022-02-14
11113807	1225	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113820	1226	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	0.7 ± 0.3	2022-02-14
11113816	1228	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	0.6 ± 0.3	2022-02-14
11113811	1228B	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	0.7 ± 0.3	2022-02-14
11113814	1232	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-14
11113849	1300	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113848	1304	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-15
11113846	1306	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113845	1310	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113803	1313	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113864	1313	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	0.7 ± 0.3	2022-02-14
11113847	1314	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-15
11113844	1314A	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	0.8 ± 0.3	2022-02-14
11113843	1318	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113836	1322	2022-02-08 @ 10:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-14
11113881	1324	2022-02-08 @ 10:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113895	1400	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	0.5 ± 0.3	2022-02-14
11113858	1403	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-14
11113860	1404	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113863	1404	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	0.5 ± 0.3	2022-02-15
11113859	1405	2022-02-08 @ 9:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113888	1407	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113896	1408	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	0.5 ± 0.3	2022-02-14
11113892	1410	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113890	2000	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-14
11113884	2012	2022-02-08 @ 11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-14

Radon test result report for:

PARKLAND MS

Kit #	Room Id	Started		Ended	pCi/L	Analyzed
11113869	2014	2022-02-08 @	11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113883	2024	2022-02-08 @	11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-15
11113812	AUX GYM 1	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-14
11113817	AUX GYM 2	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-14
11113801	BOYS PE OFFICE 1123A	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	1.0 ± 0.3	2022-02-15
11113813	BS 1111	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-14
11113810	CAFETERIA	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	0.6 ± 0.3	2022-02-14
11113809	CAFETERIA	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-15
11113805	GIRLS PE OFFICE 1117A	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-15
11113893	GYM	2022-02-08 @	11:00 am	2022-02-11 @ 10:00 am	< 0.3	2022-02-14
11113898	GYM	2022-02-08 @	11:00 am	2022-02-11 @ 10:00 am	1.5 ± 0.3	2022-02-14
11113894	GYM	2022-02-08 @	11:00 am	2022-02-11 @ 10:00 am	0.9 ± 0.3	2022-02-15
11113897	GYM STAGE	2022-02-08 @	11:00 am	2022-02-11 @ 10:00 am	1.4 ± 0.3	2022-02-14
11113806	KITCHEN OFFICE	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	0.5 ± 0.3	2022-02-14
11113877	MAIN OFFICE	2022-02-08 @	10:00 am	2022-02-11 @ 8:00 am	0.7 ± 0.3	2022-02-15
11113828	MEDIA CENTER 1209	2022-02-08 @	9:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113827	MEDIA CENTER 1209	2022-02-08 @	9:00 am	2022-02-11 @ 9:00 am	< 0.3	2022-02-15
11113802	PE OFFICE 1119	2022-02-08 @	8:00 am	2022-02-11 @ 9:00 am	0.7 ± 0.3	2022-02-15

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for: PARKLAND MS MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11113900	1004E	2022-02-08 @ 9:00 am	2022-02-11 @ 11:00 am	0.6 ± 0.3	2022-02-14

EXPOSURE IN BOWSER	MORNER RADON CHAMBER	
CLIENT KCI Technologies	Inc. Job Number 204186	-
NOMINAL Conditions: Radon Conc 258	_pCi/L Rel. Hum <u>59.1</u> % Temp. <u>79.9</u>	F
Date Start: <u>a / 18 / 22</u> Date Stop: <u>2/a / a</u>	a Date Start: Date Stop:	
Time Start: <u>Q911</u> Time Stop: <u>0911</u>	_ Time Start: Time Stop:	
Device No.'s: (3) Char Bags-	Device No.'s:	
11113484, 11122998, 20107126		
23 Right		
Date Start: Date Stop:	Date Start: Date Stop:	
Time Start: Time Stop:	Time Start: Time Stop:	
Device No.'s:	Device No.'s:	
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00) 20		
Date Start: Date Stop:	Date Start: Date Stop:	
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Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST) Background = 7 μR/h Elevation = 820 ft

April 6, 2022

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within \pm 25% of the chamber's reference value (25.7 pCi/L).

11113484 2022-02-18 9:00 am 2022-02-21 9:00 am 71 OFFICE MAIN SK1 1 27. 11122998 2022-02-18 9:00 am 2022-02-21 9:00 am 71 OFFICE MAIN SK2 1 26.	Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11122998 2022-02-18 9:00 am 2022-02-21 9:00 am 71 OFFICE MAIN SK2 1 26.	11113484	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK1		1	27.9
	11122998	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK2		1	26.0
20107126 2022-02-18 9:00 am 2022-02-21 9:00 am 71 OFFICE MAIN SK3 1 27.	20107126	2022-02-18	9:00 am	2022-02-21	9:00 am	71	OFFICE	MAIN	SK3		1	27.6



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

Radon Test Kit Chain of Custody

Project Name: MCPS Radon – February 2022 Schools

Name of Schools:

- 1. Earle. B Wood MS
- 2. Flower Valley ES
- 3. Parkland MS
- 4. Herbert Hoover MS
- 5. Ritchie Park ES
- 6. Wayside ES
- 7. Potomac ES
- 8. Redland MS
- 9. Sequoyah ES
- **10.Sherwood ES**
- 11.Rock Terrace School

	Date	Initials
Radon Test Kits Deployed	02/08/2022	Th
Radon Test Kits Collected	02/11/2022	m
Radon Test Kits Shipped to Lab*	02/11/2022	M
Radon Test Kits Received by Lab*	02/15/2022	m

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

RADON SCREENING SURVEY – FOLLOW-UP PARKLAND MIDDLE SCHOOL

4610 West Frankfort Drive, Rockville Maryland 20853

Date of Test Report:	4/6/16 Follow-Up		
Round of Testing:	Initial		
	Follow-up		
	Post Remediation		
# Rooms Tested	8		
# Rooms <u>≥</u> 4.0 pCi/L:	0		
Low Value:	<0.4		
High Value:	<0.4		
Confirmed Rooms ≥ 4.0 pCi/L US EPA	0		
Action Level			

EXECUTIVE SUMMARY

Summary of Sampling Events ≥ 4.0 pCi/L

Room	Result (pCi/L)	Result (pCi/L)	Average Result	
	2/5/16 (Rev 1 Initial)	4/6/16 Follow-Up	(pCi/L)	
1001	<0.3 Tampered	<0.4	<0.4	
1101	<0.3 Tampered	<0.4	<0.4	
1201D	<0.3 Tampered	Not sampled	<0.3	
1209	<0.3 Tampered	<0.4	<0.4	
1209C	0.9 Tampered	<0.4	0.7	
1220	<0.3 Tampered	<0.4	<0.4	
1228	0.6 Tampered	<0.4	0.5	
1410	Missing	<0.4	<0.4	



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MCPS RADON TESTING

Executive Summary: Parkland Magnet Middle School

Date of Test Report:	4/6/2016
Round of Testing:	Initial
(Follow-up
	Post Remediation
# Rooms Tested:	8
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	< 0.4

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


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

April 6, 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 # 12146341.31
Location:	Parkland Magnet Middle School
	4610 West Frankfort Drive
	Rockville, MD 20853

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 Parkland Magnet Middle School, located at 4610 West Frankfort Drive in Rockville, Maryland 20853 (subject site).

Scope of Services:

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

KCI visited the site on March 21, 2016 and deployed thirteen (13) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. A floor plan map of the building with the test locations is included as Attachment A of this report.

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

KCI returned to the site on March 24, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis (certification # ARL0007) located at 929 Mount

Zion Road, Lebanon, Pennsylvania.

Evaluation of Testing Conditions:

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

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

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

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

Results:

The results of the radon test analysis indicated the following:

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

Notes: D- Duplicate sample

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

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

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

Mr. Richard Cox April 6, 2016 Page 4

Sincerely,

James Makler

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

Attachments:

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

- AC- Activated Charcoal
- ACI- Air Chek, Inc.
- **D-** Duplicate
- FB- Field Blank
- KCI- KCI Technologies, Inc.
- **OB- Office Blank***
- PM- Project Manager
- QC- Quality Control

*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 11 testing. Office blanks were not submitted under each school individually.

Radon Testing Results Parkland Middle School Test Period: 03/21/16-03/24/16							
Kit Number	Room / Area	Result					
3029199	1001	<0.4					
3029242	1001	<0.4					
3029252	1101	<0.4					
3029193	1209	<0.4					
3029194	1220	<0.4					
3029195	1228	<0.4					
3029246	1410	<0.4					
3028916	1201C	<0.4					
3029200	1209C	<0.4					

Radon Testing Results	
Parkland Middle School	
Test Period: 03/21/16-03/24/16	
QC Type	Result
D (1209)	<0.4
D (1209)	<0.4
D (1410)	<0.4
FB (1209)	<0.4
	Radon Testing Results Parkland Middle School Test Period: 03/21/16-03/24/16 QC Type D (1209) D (1209) D (1209) D (1410) FB (1209)

ATTACHMENT C

Laboratory Analytical Results



NRPP 10511AL NRSB ARL0007

Laboratory Report for:

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

Property Tested: Project # 12146341

KCI Technologies	Parkland M S
936 Ridgebrook Rd	4610 West Frank Fort Dr
Sparks MD 21152	Rockville MD 20853

Log Number	Number	Test Exposur	e Duration:		Area Tested	Result (pCi/L)
3018377	3029242	03/21/2016 11:01 am	03/24/2016	10:50 am	Unit 1001 First Floor	<0.4
3018378	3029252	03/21/2016 11:40 am	03/24/2016	10:51 am	Unit 1101 First Floor	<0.4
3018379	3029246	03/21/2016 11:35 am	03/24/2016	10:55 am	Unit 1410 First Floor	<0.4
3018380	3029249	03/21/2016 11:36 am	03/24/2016	10:56 am	Unit 1410 First Floor	<0.4
3018381	3029195	03/21/2016 11:30 am	03/24/2016	10:57 am	Unit 1228 First Floor	<0.4
3018382	3029194	03/21/2016 11:25 am	03/24/2016	11:05 am	Unit 1220 First Floor	<0.4
3018383	3029200	03/21/2016 11:20 am	03/24/2016	11:06 am	Unit 1209C First Floor	<0.4
3018384	3029193	03/21/2016 11:14 am	03/24/2016	11:07 am	Unit 1209 First Floor	<0.4
3018385	3029250	03/21/2016 11:13 am	03/24/2016	11:10 am	Unit 1209 First Floor	<0.4
3018386	3029198	03/21/2016 11:15 am	03/24/2016	11:11 am	Unit 1209 First Floor	0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/28/2016 Date Logged:

03/28/2016

Date Analyzed: 03/28/2016

Date Reported: 03/29/2016

Disclaimer:

Report Reviewed By: <u>Shace Linking</u> Report Approved By: <u>Carolyn D. Koke</u> President 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.

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.

PO BOX 990 Jonestown PA 17038 717-274-8310



NRPP 10511AL

NRSB ARL0007

Radon in Air

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	Parkland M S
936 Ridgebrook Rd	4610 West Frank Fort Dr
Sparks MD 21152	Rockville MD 20853

Log Number	Number	Test Exposur	e Duration:		Area Tested	Result (pCi/L)
3018387	3029199	03/21/2016 11:02 am	03/24/2016	11:00 am	Unit 1001 First Floor	<0.4
3018388	3029197	03/21/2016 11:16 am	03/24/2016	11:01 am	Unit 1209 First Floor	<0.4
3018389	3028916	03/21/2016 11:03 am	03/24/2016	11:02 am	Unit 1201C First Floor	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/28/2016 Date Logged:

03/28/2016

Date Analyzed: 03/28/2016 Date Reported: 03/29/2016

Disclaimer:

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

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

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Radon in Air

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 11 (re-testing) Office Blank

Log Number	Device Number	Test Exposu	re Duration:	Area Tested	Result (pCi/L)
3018362	3029232	03/21/2016 8:00 am	03/24/2016 8:00 am	Unit O First Floor Main Room	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/28/2016 Date Logged:

03/28/2016

Date Analyzed: 03/28/2016

Date Reported: 03/29/2016

Disclaimer:

Report Reviewed By: <u>Share Laburling</u> Report Approved By: <u>Caroly D. Koke</u> 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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Professional Reden Leboratory Samians Stime 11 Ami Street

Radon Device Type Open Face Canister 888-480-8812 www.accustarlabs.com

Site Tested:

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Send Written Report To:

Name	CI Technologies, Inc	Site Name	KCI OFFICE
Address 9.	36 Ridgebrook Road	Address	936 RIDIER
Address		Address	
City / Town S	parks	City / Town	SPARKS
State/Province Po	ostal Code MD 21152	State/Province	Postal Code MD
Report Country B	altimore County	Test Country	Montgomery County
Email Address te	shsin@kci.com	Project Number	12146341

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

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Unit Number	0						
Building Number							
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Lab Use Only							

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

1 of 1



Radon in Air

				EPA Method #402-R-92-004
NRPP 10	0511AL			Charcoal Canister
NRSB A	RL0007			NRPP Device Code 6048
				NRSB Device Code 10317
Labora	atory Report	for:	Property Tested:	
		!	MODO	
ł		ogies	MCPS	
ę	936 Ridgebro	ook Rd	Transit Blanks	
5	Sparks MD	21152		
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
3010588	3028053	01/10/2016 1.00 pm $01/22/2016$ 9.30	am 1	< 0.4

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3010588	3028953	01/19/2016 1:00 pm	01/22/2016 9:30 am	1	< (
3010589	3028955	01/19/2016 1:00 pm	01/22/2016 9:30 am	2	< (
3010590	3028954	01/19/2016 1:00 pm	01/22/2016 9:30 am	3	<
3010591	3028997	01/19/2016 1:00 pm	01/22/2016 9:30 am	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.moulsdale@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: Crueste Bates Report Approved By: Cruely 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.

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 RECEIVED JA 800-523-4964	Accus N 2NFØRMAT	Star Lab ION FO rojects	s – Lebanc RM - Large Apartmer	on, PA Buildings - its	Instr Read Disc	uctions on bac l instructions o repancies will	ck of fo carefull invalid	rm y ate tests	
Test Site Info Name of Building/Project or Owner	+						0 D	not use this fo	rm in
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City:	State	Zip		County			3		
Projects Contact Name: Ser Cor	Phone:			Email:	Contraction and a contraction of the second s	AND BUT FE LOTA	Mul	ti-Page Report)	N-
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A 3028953 Trans, t	3010588	/	1/19/1	griber: CC)	1/22/1/	9130am	No.	N.	20
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Test Purpose: Initial Screening - Follow Up	Test -		Canisters pla	aced by				#	BALL DOL
(Circle all that apply) Post Mitigation - Real Estat	te - Other								
Building Type: Residential - Non Residential	loo		Canisters re	trieved by	\langle		-	#	
Day Care in Public School - F	Public School		Owner waives c by signing here	onfidentiality	0	Date Weel		Vere general ope	rating
Send Results To:				2	141		<u>~ ></u>	conditions mainta es - No explaii	n if NO
Company Name: Nei Tech		Þ	Attention:	James. 1	Majeckal			Were closed built	ding
Address: 936 Rielgebreet	4264	5.0-0148		the part from some Ka		selle morth 200 selle		conditions mainta	ined?
City: SParks U	and the second	State:	JD Zi	21250			<u> </u>	es - No explai	n if NO
Phone: 410-529-3826			Fax:				Z	ormal Temp. Ye	s - No
EMAIL Results to: James . Mouls	sdale (2 k	2. 00	2				Ż	ormal Humidity Ye	oN - S
Make sure information is complete and correct. If a recalculation is remusched there is a \$10.00 recalc fee PER Canister	Mailing: I Shipping: 9	PO Box 99 29 Mt Zion	0 Jonestown, Road. Lebanor	PA 17038 1. PA 17046		*. *			
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6-42

TCS INDUSTRIES, INC.

(717) 657-7032

RADON GAS DETECTION

www.radondetek.com

4326 Crestview Road, Harrisburg, PA 17112

James Moulsdale KCI 936 Ridgebrook Rd. Sparks, MD 21152 April 04, 2016

Dear Mr. Moulsdale:

The spike exposure data were:

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

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

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

Avg, Temp. was 71FAvg. RHwas 51%Elevationwas 490 feet above sea level

Sincerely,

Cut

Carl H. Distenfeld, CHP



NRPP 10511AL NRSB ARL0007

Laboratory Report for:

KCI Technologies

936 Ridgebrook Rd Sparks MD 21152 EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317

Property Tested:

MCPS Radon Spike Sample Laboratory Results

Log Number	Number	Test Exposur	e Duration:	Area Tested	Result (pCi/L)
3020102	3029166	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.9
3020103	3029214	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.5
3020104	3029217	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	10.7
3020105	3029218	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.3
3020106	3029219	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	11.0
3020107	3029220	04/04/2016 11:10 am	04/06/2016 11:1	3 am Not Indicated	10.5

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

Distributed by: KCI Technolo	gies, Inc.					
Date Received: 04/07/2016	Date Logged:	04/07/2016	Date Analyzed:	04/07/2016	Date Reported:	04/08/2016
Note: Spike samples are test canisters t They provide a quality control measur tested.	hat are deliberately exp e in the testing process	osed to a controlled h and do NOT reflect ra	igh level of radon in a lat Idon levels in the buildin	boratory. g being		
Report Review Disclaimer: The uncertainty of this radon measu concentrations, sample collection ter	red By:	Factors contributing	Report Approv	ed By: Carolyn statistical variatio ditions may influ	D. Koke, President, Ad ns, daily and seasonal ence the test results.	ccuStar Labs variations in radon

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.

PO BOX 990 Jonestown PA 17038 717-274-8310

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								Lab Use Only										
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Send Writte	Name	Address	Address	City / Town	State/Provir	Report Coul	Email Addr∈	Lab Use Only										
	Send Written Report To: Site Tested: Contact Information:	Send Written Report To:Site Tested:Contact Information:NameKCI Technologies, IncSite Name $M \in PS$ ContactContactTehsin Aurangabadwala	Send Written Report To: Site Tested: Site Tested: Contact Information: Name KCI Technologies, Inc Site Name MとPS Contact Tehsin Aurangabadwala Address 936 Ridgebrook Road Address	Send Written Report To: Site Tested: Site Tested: Contact Information: Name KCI Technologies, Inc Site Name MC PS Contact Telsin Aurangabadwala Address 936 Ridgebrook Road Address	Send Written Report To: Site Tested: Site Tested: Contact Information: Name KCI Technologies, Inc Site Name MLC PS Contact Information: Name KCI Technologies, Inc Site Name MLC PS Contact Information: Address 936 Ridgebrook Road Address S52 Husseledee Telephone Address Otity / Town Sparks Technician Technician	Send Written Report To: Site Tested: Contact Information: Name KCI Technologies, Inc Site Name $\overline{\mathcal{MLPS}}$ Contact Tehsin Aurangabadwala Name KCI Technologies, Inc Site Name $\overline{\mathcal{MLPS}}$ Contact Tehsin Aurangabadwala Address 936 Ridgebrook Road Address $\overline{\mathcal{PCL}\mathcal{ML}}$ Contact Tehsin Aurangabadwala Address 036 Ridgebrook Road Address $\overline{\mathcal{PCL}\mathcal{ML}}$ Desptone 410-891-1726 Address Ostact Desptone Poultine Desptone 410-891-1726 City / Town Sparks City / Town Poultine Technican Technican State/Province Postal Code MD Z08570 Cert. 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Inc Site Name Contact Information: Address 335 Ridgebrook Road Address Site Name Address Basi Ridgebrook Road Address Site Name Address Contact Technologies. Inc Contact Address Edition Address Edition City / Town East Ridgebrook Road Zogo Technologies. Inc State/Province Postal Code MD Z1152 Technologies. Inc State/Province Postal Code MD Z1162 Technologies. Inc Repot County Baliding Unit Floor Ret Number Repot County Baliding Unit Floor Number Only Number Number Number Number Stat Tale So2916 I I Y/Y/I/L II/I/I/O A Y/L/I/L So29217 I I Y Y/L II/I/I/O A So29218 I I Y Y/L II/I/I/L So29217 I I Y Y/L II/I/I/L So29218 I I Y Y/L Y/L	Sand Written Report To: Site Tested: Name Kcil Technologies, Inc. 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Test must start before the expiration date shown on your device or test results will be invalid

1 of 1

Rev E1512



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

MCPS RADON TESTING

Executive Summary: Parkland Magnet Middle School

Date of Test Report:	2/05/2016 (Rev 1)
Round of Testing:	Initial
	Follow-up
	Post Remediation
# Rooms Tested:	84
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	1.4

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



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

February 5, 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 # 12146341.24
Location:	Parkland Magnet Middle School
	4610 West Frankfort Drive
	Rockville, MD 20853

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 Parkland Magnet Middle School, located at 4610 West Frankfort Drive in Rockville, Maryland 20853 (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 January 11, 2016 and deployed one hundred one (101) 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 14, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936

Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

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

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

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

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

Results:

The results of the radon test analysis indicated the following:

Radon Concentration	Room	Result
≥4.0 piC/L	none	n/a
<4.0 piC/L	See Attachn	nent 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.

Mr. Richard Cox February 5, 2016 Page 4

Sincerely,

H. allon Burnett

H. Allen Bennett Certified Industrial Hygienist 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				
	Parkland Magnet Middle School				
i est Perioa: 01/11/16-01/14/16					
Kit Numbor	Boom / Aroa	Pocult			
	Roolii / Area	Result			
7717001	1000	0.0			
7717022	1001	< 0.3			
7717004	1002	< 0.3			
7717014	1004	0.0			
7717030	1005	1.2			
7717037	1009	1.1			
7717038	1011	< 0.3			
7717068	1012	1.1			
7717040	1015	< 0.3			
7717041	1020	< 0.3			
7717045	1022	0.6			
7717023	1100	< 0.3			
7717024	1100	1.1			
7717026	1111	0.6			
7717027	1113	0.8			
7717030	1119	0.6			
7717033	1125	< 0.3			
7717034	1127	< 0.3			
7717035	1129	0.8			
//1/083	1200	0.8			
//1/080	1201	< 0.3			
//1/089	1209	< 0.3			
7717099	1210	< 0.3			
7717100	1212	0.9			
7717066	1214	1			
//1/06/	1215	0.7			
//1/065	1216	0.7			
//1/054	1221	< 0.3			
//1/056	1222	0.8			
//1/050	1225	< 0.3			
//1/055	1226	1			
//1/051	1232	0.6			
//1/0/9	1300	0.7			
//1/0/8	1304	0.7			
//1/0//	1306	< 0.3			
//1/0/6	1310	0.7			
//1/073	1311	1.1			
(/1/070	1313	0.8			
//1/074	1314	0.9			
(/1/072	1318	0.9			
//1/071	1322	0.6			
//1/069	1324	0.8			
//1/061	1400	0.6			
//1/063	1403	0.9			
//1/05/	1404	< 0.3			
//17062	1405	< 0.3			

	Radon Testing Results					
	Parkland Magnet Middle School					
	1 est Perioa: 01/11/16-01/14/16					
Kit Number	Boom / Aroo	Booult				
	Room / Area	Result				
7717060	1407	0.6				
7717048	1408	< 0.3				
7717095	2000	< 0.3				
7717098	2002	< 0.3				
7717090	2003	< 0.3				
7717007	1000A	0.6				
7717015	1004A	< 0.3				
7717008	1000B	< 0.3				
7717009	10000	0.7				
7717010	1000D	0.6				
7717011	1000F	< 0.3				
7717012	1000G	0.8				
7717013	1000H	0.8				
7717021	* 1001 (Tampered)	< 0.3				
7717016	1004B	0.9				
7717017	1004C	< 0.3				
7717018	1004D	1				
7717020	1004E	< 0.3				
7717039	1011A	< 0.3				
7717044	1020A	0.8				
7717046	1022A	< 0.3				
7717025	* 1101 (Tampered)	< 0.3				
7717029	1109Ċ	< 0.3				
7717031	1117A	< 0.3				
7717032	1123A	< 0.3				
7717085	1200A	1				
7717086	1200B	0.7				
7717084	1200C	0.7				
7717081	12010	0.7				
7717082	* 1201D (Tampered)	< 0.3				
7717088	* 1209 (Tampered)	< 0.3				
7717090	1209 (Tampered)	0.7				
7717090	12007	0.7				
7717004	* 12090 (Tampered)	0.0				
7717094	12090 (Tampered)	0.3				
7717000	12090	< 0.7				
7717084	1209E	< 0.3				
7717050	1220 (Tamparad)	<u> </u>				
7717052		0.0				
7717075	12288	0.7				
//1/0/5		1.1				
//1/04/	" 1410 (Missing)	U				

	Radon Testing Results					
	Test Period: 01/11/16-01/14/16					
Kit Number	QC Type	Result				
7717002	D (1000)	< 0.3				
7717005	D (1002)	< 0.3				
7717019	D (1004D)	1.2				
7717042	D (1020)	< 0.3				
7717028	D (1113)	0.7				
7717087	D (1200B)	1.4				
7717058	D (1404)	< 0.3				
7717049	D (1408)	< 0.3				
7717097	D (2003)	< 0.3				
7717003	FB (1000)	< 0.3				
7717006	FB (1002)	< 0.3				
7717043	FB (1020)	< 0.3				
7717059	FB (1404)	< 0.3				
7716768	OB (0)	< 0.3				

ATTACHMENT C

Laboratory Analytical Results

February LABORATORY ANALYSIS 4, REPORT **

Radon test result report for: PARKLAND MAGNET MIDDLE SCHOOL MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7716768	0	2016-01-11 @ 5:00 pm	2016-01-14 @ 1:00 pm	< 0.3	2016-01-19
7717001	1000	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.6 ± 0.4	2016-01-19
7717002	1000	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717003	1000	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717007	1000A	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.6 ± 0.3	2016-01-19
7717015	1004A	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717008	1000B	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717009	1000C	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.7 ± 0.4	2016-01-19
7717010	1000D	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.6 ± 0.4	2016-01-19
7717011	1000F	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717012	1000G	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.8 ± 0.4	2016-01-19
7717013	1000H	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.8 ± 0.4	2016-01-19
7717021	1001	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717022	1001	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717004	1002	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717005	1002	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717006	1002	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717014	1004	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.6 ± 0.3	2016-01-19
7717016	1004B	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	0.9 ± 0.4	2016-01-19
7717017	1004C	2016-01-11 @ 8:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717018	1004D	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	1.0 ± 0.4	2016-01-19
7717019	1004D	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	1.2 ± 0.4	2016-01-19
7717020	1004E	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717036	1005	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	1.2 ± 0.4	2016-01-19
7717037	1009	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	1.1 ± 0.4	2016-01-19
7717038	1011	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717039	1011A	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717068	1012	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	1.1 ± 0.4	2016-01-19
7717040	1015	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717041	1020	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717042	1020	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717043	1020	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717044	1020A	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.8 ± 0.4	2016-01-19
7717045	1022	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.6 ± 0.3	2016-01-19
7717046	1022A	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717023	1100	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717024	1100	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	1.1 ± 0.4	2016-01-19

February LABORATORY ANALYSIS 4, REPORT **

Radon test result report for:

PARKLAND MAGNET MIDDLE SCHOOL

MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7717025	1101	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717029	1109C	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717026	1111	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	0.6 ± 0.3	2016-01-19
7717028	1113	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	0.7 ± 0.4	2016-01-19
7717027	1113	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	0.8 ± 0.4	2016-01-19
7717031	1117A	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717030	1119	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	0.6 ± 0.3	2016-01-19
7717032	1123A	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717033	1125	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717034	1127	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	< 0.3	2016-01-19
7717035	1129	2016-01-11 @ 9:00 am	2016-01-14 @ 8:00 am	0.8 ± 0.3	2016-01-19
7717083	1200	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.8 ± 0.4	2016-01-19
7717085	1200A	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	1.0 ± 0.4	2016-01-19
7717086	1200B	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717087	1200B	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	1.4 ± 0.4	2016-01-19
7717084	1200C	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717080	1201	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717081	1201C	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717082	1201D	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717088	1209	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717089	1209	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717090	1209A	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717091	1209B	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.8 ± 0.4	2016-01-19
7717094	1209C	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.9 ± 0.4	2016-01-19
7717093	1209D	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.3	2016-01-19
7717092	1209E	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717099	1210	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717100	1212	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.9 ± 0.4	2016-01-19
7717066	1214	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	1.0 ± 0.4	2016-01-19
7717067	1215	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.3	2016-01-19
7717065	1216	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.3	2016-01-19
7717064	1220	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717054	1221	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717056	1222	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.8 ± 0.4	2016-01-19
7717050	1225	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717055	1226	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	1.0 ± 0.4	2016-01-19
7717052	1228	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.6 ± 0.3	2016-01-19

February LABORATORY ANALYSIS 4, REPORT **

2010

Radon test result report for: PARKLAND MAGNET MIDDLE SCHOOL MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7717053	1228B	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717051	1232	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.6 ± 0.3	2016-01-19
7717079	1300	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717078	1304	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717077	1306	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717076	1310	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.7 ± 0.4	2016-01-19
7717073	1311	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	1.1 ± 0.4	2016-01-19
7717070	1313	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.8 ± 0.4	2016-01-19
7717074	1314	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.9 ± 0.4	2016-01-19
7717075	1314A	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	1.1 ± 0.4	2016-01-19
7717072	1318	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.9 ± 0.4	2016-01-19
7717071	1322	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.6 ± 0.3	2016-01-19
7717069	1324	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	0.8 ± 0.3	2016-01-19
7717061	1400	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.6 ± 0.3	2016-01-19
7717063	1403	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.9 ± 0.4	2016-01-19
7717057	1404	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717058	1404	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717059	1404	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717062	1405	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717060	1407	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	0.6 ± 0.3	2016-01-19
7717048	1408	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717049	1408	2016-01-11 @ 9:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717047	1410	@	@		
7717095	2000	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717098	2002	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717096	2003	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19
7717097	2003	2016-01-11 @ 10:00 am	2016-01-14 @ 9:00 am	< 0.3	2016-01-19

February LABORATORY ANALYSIS 2, REPORT **

Radon test result report for: MCPS PHASE 5 & 6 TRANSIT BLANKS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7722194	1	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718494	10	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718475	11	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718495	12	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718496	13	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718497	14	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718498	15	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718499	16	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718500	17	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718296	18	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718295	19	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722195	2	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716789	20	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716785	21	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-26
7716791	22	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716786	23	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716793	24	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718274	25	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7716792	26	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718294	27	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718293	28	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718292	29	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722197	3	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718290	30	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722198	4	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722199	5	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7722211	6	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718491	7	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27
7718476	8	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-26
7718479	9	2016-01-19 @ 12:00 pm	2016-01-22 @ 12:00 pm	< 0.3	2016-01-27

Decembe	LABORATORY ANALYSIS
23,	DEDODT **
2015	KEPUKI **

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: <u>0929</u> Time Stop: <u>0929</u>	Time Start: Time Stop:			
Device No.'s: 7705132,7706208,	Device No.'s:			
7706211,7706366,				
7706380, 7706381				
F3 Loft				
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:			
5 6				
1				
	-			

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



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

Chain of Custody

Project Name: MCPS Radon Phase V

Name of Schools:

- 1. Arcola ES
- 2. Argyle ES
- 3. Bells Mill ES
- 4. Bethesda ES
- 5. Brookhaven ES
- 6. Burning Tree ES
- 7. Capt. James Daly ES
- 8. Carderock Springs ES
- 9. Cashell ES
- 10. Clearspring ES

- 11. Clopper Mill ES
- 12. College Gardens ES
- 13. Eastern MS
- 14. Fallsmead ES
- 15. Fields Road ES
- 16. Flower Hill ES
- 17. Flower Valley ES
- 18. Fox Chapel ES
- 19. Glen Haven ES
- 20. James Hubert Blake HS

- 21. Parkland Magnet MS
- 22. Rachel Carson ES
- 23. Roberto Clemente MS
- 24. Rock Creek ES
- 25. Rockview ES
- 26. Rockville HS
- 27. Rocky Hill MS
- 28. Seneca Valley HS
- 29. Westover ES
- 30. William Farquar MS

		Date	Initials
	Radon Test Kits Deployed	1/11/16	VM
	Radon Test Kits Sampled	1/14/16	JM
	Radon Test Kits Shipped to Lab*	1/15/16	JM
	Radon Test Kits Received by Lab*	1/18/16	JM

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