

School Year: 24-25

Facility:	Fairland	airland Elementary School		
Address	14315 F	airdale Road		
Address:	Silver Sp	oring, MD 20905		
		Scheduled Re-Testing - ☑ 2-year or ☐ 5-year schedule		
Reason for Testing:		☐ Clearance Testing (Post-Mitigation)		
		☑ Building Envelope or HVAC Upgrades		
		☐ New Construction – Addition or Facility		
Current Radon Status:		Active Mitigation (2-year regular schedule)		
		☐ 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 Req		☑ 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	56	Lowest Value (pCi/L)	< 0.3	
Number of Rooms (≥4.0-pCi/L)	0	Highest Value (pCi/L)	2.5	

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

	□ Passive	⊠ Char	coal Absorpti	ion (CAD) 🗆 /	Alpha Track	(ATD) □ Other
Detector/Device	☐ Continuous ☐ Electret ion Chamber (EIC) ☐ Electronic Integration (EID)					
Type:	Other–Specify here:					
Detector/Device	Air Chale Dadas	Took Vita				
Name:	Air Chek – Rador	1 Test Kits				_
Manufacturer:	Radon Lab					
Person(s) Deployi		Test Device	s and	Orga	anization/C	ompany
certification numl	per					
Brittany Maas				KCI Technolog	ies, Inc.	
If we were well in all in all in the			fil			
If noncertified individ			orojessionai pro			
Tyler McCleaf, CSP	– Cert. #111004-R	MP		KCI Technolog	ies, Inc.	
Testing						
	n Length of	2	Date of Dep	oloyment and	12/0	03/2024
☐ Long-Term	Test (days):	3		mm/dd/yy):	12/0	06/2024
Does the test	period include w	eekends, sc	hool breaks o	or holidays?	☐ Yes	⊠ No
If "Yes" please explain/detail in the space below:						
Was HVAC operating under occupied conditions? ☐ Yes ☐ No						
If "No" please explain/detail in the space below:						



Testing (continued)

Detectors De				ployed	
	Ground	-Contact	Uppe	r-Level(s)	Total
Round of Testing	Initial Follow-Up		Initial	Follow-Up	Total
Test Locations ¹	53	0	3	0	56
Duplicates ²	5	0	1	0	6
Field Blanks ³	3	0	0	0	3
Grand Total			65		

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

- 2 10% of all locations tested, per floor
- 3 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

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

	QA/QC Samples Initial Follow-Up		Total
Round of Testing			Total
Spikes ¹	ikes ¹ Not applicable		3
Trip Blanks ²	1	0	1
Office Blanks ^{3, 4}	1	0	1
			5

^{1 - 3%} of EIC detectors; and 3% from <u>each LOT</u> of CAD and ATD detectors; a <u>maximum of 6-spiked</u> measurements per month for both EIC detectors and each LOT of CAD and ATD detectors.

- 2 One per shipping container from start of detector deployment
- 3 One per facility tested as devices are removed/allocated from the storage location for deployment;
- 4 One additional blank, <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	s □ No
Quality Control measurements comply with QA/QC requirements in the submitted testing organization's/company's QA plan?	⊠ Yes	. □ No
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 ≤ 2x the lower value?	🛛 Yes	☐ Yes
rol all Duplicate Samples , the higher value is 2 2x 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



Summary of Test Results¹ and Determination of Valid Measurements²

	Ground-Contact		Upper-Level(s)		Total
Round of Testing	Initial	Follow-Up	Initial	Follow-Up	าบเลา
Number of test locations:	53	0	3	0	56
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:	2	0	0	0	2
Number of missing required test locations ³ :	1	0	0	0	1
Number of failed duplicate control locations:	0	0	0	0	0
Percentage of missing test locations for the facility ^{4,5} :	1.87%	0%	0%	0%	1.79%

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

- 2 the allowance is to be calculated individually for Ground-Contact and Upper-Level(s) Test Locations;
- 3 includes missed or inaccessible locations upon deployment or retrieval, damaged (not able to analyze) and missing detectors upon retrieval;
- 4 if all valid measurements are <4.0-pCi/L and the total number of test locations are ≥18, there is an allowance of ≤33%. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023;
- 5 if any valid measurements are ≥ 4.0 -pCi/L and the total number of test locations are ≥ 20 , there is an allowance of $\le 25\%$ 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} If Yes, then - 'No Further Testing Needed' complete Conclusion section on first page.	☐ 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 number the allowance.

Follow-Up Testing

Required -

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

Reason for Follow-Up Testing	Testing Procedure	Follow-up Result	Conclusion
Insufficient Number of	Follow same procedures as Initial	Not	Follow Initial Testing
Measurements	Testing	Applicable	procedures
Results ≥ 4.0-pCi/L	Deploy two Short-term follow-up tests and required blanks and duplicates; Average the results of the	≥4.0	Mitigation Required
		≥2.0 and <4.0	Consider Mitigation
Failed QC checks		<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			
	Fairland Elementary School		
Te	st Period: 12/03/2024 - 12/06/2024	1	
Kit Number	Room / Area	Result	
11892824	1	1.4	
11892823	2	0.6	
11892830	2	0.7	
11892832	3	2.4	
11892837	4	0.6	
11892829	5	< 0.3	
11892838	6	0.8	
11892831	7	1.1	
11892840	8	0.6	
11892821	10	< 0.3	
11892804	11	1.1	
11892815	11	0.8	
11892845	12	< 0.3	
11892846	12	1.2	
11892827	13	0.8	
11892863	14	< 0.3	
11892833	15	< 0.3	
11892842	15	< 0.3	
11892849	17	< 0.3	
11892850	18	0.5	
11892852	19	< 0.3	
11892851	21	< 0.3	
11892844	22	0.9	
11892817	28	< 0.3	
11892818	28	< 0.3	
11892826	40	< 0.3	
11892862	101	0.7	
11892835	102	0.5	
11892803	103	< 0.3	
11892836	103	< 0.3	
11892856	103	< 0.3	
11892841	104	< 0.3	
11892848	105	0.6	
11892861	106	< 0.3	
11892847	107	< 0.3	
11892828	108	0.8	
11892855	109	< 0.3	
11892854	110	< 0.3	
11892853	111	< 0.3	
11892825	204	< 0.3	
11892825 11892819	204 15 HALL	< 0.3 < 0.3	

Table 1- Radon Testing Results			
	Fairland Elementary School		
Те	est Period: 12/03/2024 - 12/06/2024		
Kit Number	Room / Area	Result	
11892843	15A	< 0.3	
11892834	16A	< 0.3	
11892857	16B	< 0.3	
11892871	APR	0.9	
11892872	APR	0.6	
11892822	ASSISTANT PRINCIPAL	0.9	
11892869	BUILDING SERVICE MANAGER	2.5	
11892806	CONFERENCE	0.6	
11892802	GYM	1.0	
11892858	GYM	0.9	
11892809	GYM OFFICE	1.6	
11892810	GYM OFFICE	1.5	
11892865	GYM OFFICE	< 0.3	
11892813	HEALTH ROOM	0.7	
11892814	HEALTH ROOM OFFICE	1.8	
11892808	MAIN OFFICE	0.7	
11892812	MEDIA CENTER	< 0.3	
11892820	MEDIA CENTER	< 0.3	
11892811	MEDIA CENTER OFFICE	< 0.3	
11892805	PRINCIPAL	1.9	
11892839	SPEECH THERAPY	0.9	
11892801	STAFF LOUNGE	< 0.3	
11892807	TELEPHONE ROOM	0.7	
11892816	WORK ROOM	0.9	

	Table 2 - Summary Testing Results ≥2.0 pCi/L						
		Fa	airland Elem	entary School			
		Test P	eriod: 12/03	3/2024 - 12/06/20	24		
≥2.0 and <2	.7 pCi/L	≥2.7 and <4	.0 pCi/L	≥4.0 and <8	3.0 pCi/l	≥8.0 pC	i/L
Room / Area	Result	Room / Area	Result	Room / Area	Result	Room / Area	Result
3	2.4	N/A	N/A	N/A	N/A	N/A	N/A
BUILDING							
SERVICE	2.5						
MANAGER							
		l .					

Tab	Table 3 - QC Radon Testing Results						
	Fairland Ele	ementary School					
Tes	t Period: 12	<u>/03/2024 - 12/06/20</u>	24				
Kit Number	QC Type	Room / Area	Result				
11892830	D	2	0.7				
11892815	D	11	8.0				
11892845	FB	12	< 0.3				
11892842	D	15	< 0.3				
11892818	D	28	< 0.3				
11892836	FB	103	< 0.3				
11892856	D	103	< 0.3				
11892810	D	GYM OFFICE	1.5				
11892865 FB GYM OFFICE < 0.3							
11904291	11904291 OB OFFICE BLANK < 0.3						
11904272	TB	TRAVEL BLANK	< 0.3				

Table 3a - Duplicate Worksheet / Data Validation

Fairland Elementary School

Test Period: 12/03/2024 - 12/06/2024

	Sample I	D			Dupli	cate Concer	trations (pC	i/L) and OC	Checks	
Kit Nu	mbers	Room / Area	Higher	Lower	Check #1 (Pass/Fail)	2x the Lower	Check #2 (Pass/Fail)	Average	Relative Percent Difference (RPD)	Check #3
11892830	11892823	2	0.7	0.6	✓	1.2	PASS	0.7	<1-pCi/L	✓
11892815	11892804	11	1.1	0.8	✓	1.6	PASS	1.0	<1-pCi/L	✓
11892817	11892818	28	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892803	11892856	103	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892842	11892833	15	0.3	0.3	✓	0.6	PASS	0.3	<1-pCi/L	✓
11892809	11892810	Gym Office	1.6	1.5	✓	3.0	PASS	1.6	<1-pCi/L	✓

NOTES:

QC Check #1 - Data Entry

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

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

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

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

Table 4 - Summary of Invalid Measurement Locations						
F	airland Element	ary School				
	st Period: 12/03/					
Kit Number	Room/Area	Reason				
11892864	Ms. Lopez	Missing Kit				

Attachment 2: Laboratory Reports

December 10, 2024

Radon test result report for: FAIRLAND ES MAIN

11892824 1 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.3 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.7 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.5 ± 0.3 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.5 ± 0.3 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.5 ± 0.3 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.5 ± 0.3 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.3 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.3 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.3 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.6 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.6 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.6 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.6 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.6 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 2024-12-03 @ 10:00 am 2024-12-06 @	Kit#	Room Id	Started	Ended	pCi/L	Analyzed
11892862 101 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.7 ± 0.4 2024-12-10 11892835 102 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.5 ± 0.3 2024-12-10 11892836 103 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892803 103 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892803 103 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892841 104 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892841 105 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892848 105 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892847 107 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892828 108 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892855 109 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892804 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892815 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892851 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892853 111 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892854 110 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 15 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 15 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 15 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892843 15 2024-12-03 @ 10:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 118928	11892824	1	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	1.4 ± 0.4	2024-12-10
11892835	11892821	10	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892836	11892862	101	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	0.7 ± 0.4	2024-12-10
11892856	11892835	102	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	0.5 ± 0.3	2024-12-10
11892803	11892836	103	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892841	11892856	103	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892803	103	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892861	11892841	104	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892847	11892848	105	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	0.6 ± 0.4	2024-12-10
11892828 108 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 11892855 109 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892804 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 1.1 ± 0.4 2024-12-10 11892815 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 11892854 110 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892855 111 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892846 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 1189287 13 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892863 14 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892833 15 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892842 15 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892843 15 A 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892843 15 A 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892843 15 A 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892849 15 A 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892857 16B 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892850 18 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892852 19 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892852 19 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892852 204 2024-12-03 @ 10:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892851 21 2024-12-03 @ 10:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892851 21 2024-12-03 @ 10:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892851 21 2024-12-03 @	11892861	106	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892855 109 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892804 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 1.1 ± 0.4 2024-12-10 11892815 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 11892854 110 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892855 111 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892846 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892867 13 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892863 14 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892833 15 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892842 15 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892849 15 HALL 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892834 16A 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892857 16B 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892858 18 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892850 18 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892851 19 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892852 19 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892852 204 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892852 204 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892851 21 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892851 21 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10 11892851 21 2024-12-03 @ 10:00 am	11892847	107	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892828	108	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	0.8 ± 0.4	2024-12-10
11892815 11 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 0.8 ± 0.4 2024-12-10 11892854 110 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3	11892855	109	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892854 110 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3	11892804	11	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	1.1 ± 0.4	2024-12-10
11892853 111 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3	11892815	11	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.8 ± 0.4	2024-12-10
11892846 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am 1.2 ± 0.4 2024-12-10 11892845 12 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3	11892854	110	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892853	111	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892846	12	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	1.2 ± 0.4	2024-12-10
11892863 14 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3	11892845	12	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892833 15 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3	11892827	13	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.8 ± 0.4	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892863	14	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
11892819 15 HALL 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3	11892833	15	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
11892843 15A 2024-12-03 @ 11:00 am 2024-12-06 @ 9:00 am < 0.3	11892842	15	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892819	15 HALL	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892843	15A	2024-12-03 @ 11:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892834	16A	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892857	16B	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892849	17	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892850	18	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	0.5 ± 0.4	2024-12-10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11892852	19	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
11892825 204 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3	11892830	2	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.7 ± 0.4	2024-12-10
11892851 21 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am < 0.3 2024-12-10 11892844 22 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am 0.9 ± 0.4 2024-12-10 11892817 28 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10	11892823	2	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.6 ± 0.4	2024-12-10
11892844 22 2024-12-03 @ 11:00 am 2024-12-06 @ 10:00 am 0.9 ± 0.4 2024-12-10 11892817 28 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10	11892825	204	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892817 28 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10	11892851	21	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
	11892844	22	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	0.9 ± 0.4	2024-12-10
11892818 28 2024-12-03 @ 10:00 am 2024-12-06 @ 9:00 am < 0.3 2024-12-10	11892817	28	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
	11892818	28	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10

December 10, 2024

Radon test result report for: FAIRLAND ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11892832	3	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	2.4 ± 0.4	2024-12-10
11892837	4	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.6 ± 0.4	2024-12-10
11892826	40	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892829	5	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892838	6	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.8 ± 0.4	2024-12-10
11892831	7	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	1.1 ± 0.4	2024-12-10
11892840	8	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.6 ± 0.4	2024-12-10
11892872	APR	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	0.6 ± 0.4	2024-12-10
11892871	APR	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	0.9 ± 0.4	2024-12-10
11892822	ASSISTANT PRINCIPAL	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.9 ± 0.4	2024-12-10
11892869	BUILDING SERVICE MANAGER	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	2.5 ± 0.4	2024-12-10
11892806	CONFERENCE	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.6 ± 0.4	2024-12-10
11892858	GYM	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	0.9 ± 0.4	2024-12-10
11892802	GYM	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	1.0 ± 0.4	2024-12-10
11892810	GYM OFFICE	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	1.5 ± 0.4	2024-12-10
11892865	GYM OFFICE	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
11892809	GYM OFFICE	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	1.6 ± 0.4	2024-12-10
11892813	HEALTH ROOM	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.7 ± 0.4	2024-12-10
11892814	HEALTH ROOM OFFICE	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	1.8 ± 0.4	2024-12-10
11892808	MAIN OFFICE	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.7 ± 0.4	2024-12-10
11892812	MEDIA CENTER	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892820	MEDIA CENTER	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892811	MEDIA CENTER OFFICE	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	< 0.3	2024-12-10
11892805	PRINCIPAL	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	1.9 ± 0.4	2024-12-10
11892839	SPEECH THERAPY	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.9 ± 0.4	2024-12-10
11892801	STAFF LOUNGE	2024-12-03 @ 11:00 am	2024-12-06 @ 10:00 am	< 0.3	2024-12-10
11892807	TELEPHONE ROOM	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.7 ± 0.4	2024-12-10
11892816	WORK ROOM	2024-12-03 @ 10:00 am	2024-12-06 @ 9:00 am	0.9 ± 0.4	2024-12-10

P4792 / TYLER MCCLEAF

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
11892899	2024-12-02	11:00 am	2024-12-05	11:00 am	70	OFFICE	MAIN	O		1	< 0.3
11892900	2024-12-02	11:00 am	2024-12-05	11:00 am	70	TRAVEL	MAIN	T		1	< 0.3
11904003	2024-12-02	10:00 am	2024-12-05	11:00 am	70	JAMES HUBERT BLAKE HS	MAIN	SMALL GYM		1	1.4
11904272	2024-12-03	11:00 am	2024-12-06	11:00 am	70	TRAVEL	MAIN	T		1	< 0.3
11904291	2024-12-03	11:00 am	2024-12-06	11:00 am	70	OFFICE	MAIN	O		1	< 0.3

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES	INC	Job Number 7000 1560)
NOMINAL Conditions: Radon Conc_50.6	pCi/L Rel. Hum	50.6% Temp. 70.8	F
Date Start: 12/14/24 Date Stop: 13/17/29	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:_		
	<u> </u>		
S T	·		
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Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST) Background = $7 \mu R/h$ Elevation = 820 ft

December 23, 2024

** LABORATORY ANALYSIS REPORT **

 $\frac{Radon\ test\ result\ report\ for:}{\mathbf{S}\mathbf{K}}$

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



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 – Testing December 3rd – December 6th, 2024

Name of Schools:

- 1. Cannon Road ES
- 2. Cloverly ES
- 3. Dr. Charles R. Drew ES
- 4. East Silver Spring ES

- 5. Albert Einstein HS
- 6. Fairland ES
- 7. William H. Farquhar MS

	Date	Initials
Radon Test Kits Deployed	12/03/2024	BMM
Radon Test Kits Collected	12/06/2024	BMILL
Radon Test Kits Shipped to Lab*	12/06/2024	Buy
Radon Test Kits Received by Lab*	12/10/2024	SMM)

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



Instructions: Submit one testing report form per-facility per-round of testing. Include the following as attachments: Attachment 1- Summary Data Tables — containing the following: (see attached samples tables)

- Testing Results lab/detector Identification, by room number/name (alpha-numeric order) as depicted on facility map/floor plan provided by the facility/school at the time of test device deployment;
- Summary Results list of rooms by test result ≥2.0-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.

			School Year: 23-24		
Facility:	Fairland	l Elementary Sc	hool		
	14315 F	airdale Road			
Address:	Silver S	oring, MD 2090	5		
		⊠ Scheduled	d Re-Testing (2 or 5-year schedule)		
Bosson for T	octing	☐ Clearance	Testing (Post-Mitigation)		
Reason for i	Reason for Testing:		Performance Testing (Post-Mitigation)		
			☐ New Construction/Facility		
		☐ Active Mitigation (2-year regular schedule)			
Facility Curren		☑ No Active Mitigation (5-year regular schedule)			
Status	•	☐ Not Previously Tested			
Round of Te	esting:	☐ Initial Tes	ting -or -		
Testing Sta	atus:	⊠ No Furthe	er Testing Needed -or- Follow-Up Testing Required		
Conclusion (Wh	nen Testir	ng Status is - No	Further Testing Needed)		
Mitigation -			Facility Radon Status:		
☐ Not Required or Considered		Considered			
☐ Required (>8.0-pCi/L)		0-pCi/L)	☐ No Change in Status		
Required (≥4.0-pCi/L)		0-pCi/L)	Active Mitigation (2-year regular schedule)		
Room: I	Principal'	s Office	☐ No Active Mitigation (5-year regular schedule)		
☐ Consider (≥2.0 & <4.0-pCi/L)					



Detector and Deployment

	□ Passive □ O O O O		oal Absorption		•	TD) Other
Detector/Device	Continuous	, , , , , , , , , , , , , , , , , , , ,				
Type:	Other–Specify her	e:				
Detector/Device	Air Chek – Rador	Tost Kits				
Name:	All Cliek - Radol	i rest kits				
Manufacturer:	Radon Lab					
Person(s) Deploying		st Devices and	I	Or	ganization/Co	mpany
certification number	<u>er</u>					
Tyler McCleaf				KCI Technolo	gies, Inc.	
If noncertified individ		neasurement n	rofessional pro	 vidina oversiaht	<u> </u>	
		•	ojessionai pro			
Tyler McCleaf, CSP	– Cert. #111004-R	INIP		KCI Technolo	gies, inc.	
Testing						
Short-Term	Length of		Date of Der	oloyment and	2/20	/2024
☐ Long-Term	Test (days):	3	-	(mm/dd/yy):	2/23	/2024
Does the test pe	eriod include weel	kends, school	breaks or ho	lidays?	☐ Yes 🗵	☑ No
If " Yes " please ex	plain/detail in the s	pace below:				
Was HVAC operating under occupied conditions?] No
If " No " please exp	If "No" please explain/detail in the space below:					



Testing (continued)

	Dete		
	Ground-Contact	Upper-Level(s)	Total
Test Locations ¹	3	0	3
Duplicates ²	1	0	1
Field Blanks ³	1	0	1
		Grand Total	5

- 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 per floor (these are in addition to ground contact locations)
- 2 10% of all locations tested, per floor
- 3 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

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

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

- 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.

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 QA plan previously submitted?	⊠ Yes	□ No



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

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

Summary of Test Results¹ and Determination of Valid Measurements²

	Ground-Contact	Upper-Level(s)	Total
Number of test locations:	3	0	3
Number of locations ≥8.0-pCi/L:	0	0	0
Number of locations ≥4.0 and ≤8-pCi/L:	1	0	1
Number of locations ≥2.7 and ≤4-pCi/L:	0	0	0
Number of locations ≥2.0 and ≤4-pCi/L:	0	0	0
Number of missing required test locations ³ :	0	0	0
Percentage of missing test locations for the facility ^{4,5} :	0	0	0

- 1 for locations with multiple test results, report consistent with Section 7.2(When Two Test Results Disagree) and 8.1.2 (Averaging) of ANSI/AARST MA-MFLB 2023 Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings;
- 2 the allowance is to be calculated individually for Ground-Contact and Upper-Level(s) Test Locations;
- 3 includes missed or inaccessible locations upon deployment or retrieval, damaged (not able to analyze) and missing detectors upon retrieval;
- 4 if all valid measurements are <4.0-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;
- 5 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.



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

Were test devices deployed in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?	⊠ Yes □ No
Were valid measurements obtained in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?	
If Yes to both above – then Testing Status – 'No Further Testing Needed' mark 'NA' below and complete	te Conclusions section
If No to either above, were all results obtained under 4.0-pCi/L and were there sufficient valid measurements obtained? ^{1,2} If Yes – then Testing Status - 'No Further Testing Needed' complete Conclusion section If No, then Testing Status - 'Follow-up Testing Required' continue below	☐ Yes ☐ No ☒ NA

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

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

Follow-Up Testing (if required)

Required if -

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

Follow-up Testing:

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

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

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

Attachment 1: Summary Data Tables

Table 1- Radon Retesting Results						
Fairla	and Elementary Scho	ool				
Test Perio	od: 02/20/2024 - 02/2	23/2024				
Kit Number	Room / Area	Result				
11477781	16B	<0.3				
11477997	16B	<0.3				
11477831	Café	1.9				
11477835 Café 1.3						
11477823 Principal 0.7						
11478173	Principal	4.9				

Table 3 - QC Radon Retesting Results				
	Fairland Ele	ementary School		
Tes	t Period: 02	/20/2024 - 02/23/20	24	
Kit Number QC Type Room / Area Result				
11477823	D	Principal	0.7	
11477997	FB	16B	<0.3	

	Table 2 - Summary Testing Results ≥2.0 pCi/L Fairland Elementary School						
)/2024 - 02/23/202	24		
≥2.0 and <2	2.7 pCi/L	≥2.7 and <4		2024 - 02/23/202 ≥4.0 and <8		≥8.0 pC	i/L
Room / Area	Result	Room / Area	Result	Room / Area	Result	Room / Area	Result
N/A	N/A	N/A	N/A	PRINCIPAL	4.9	N/A	N/A

	Measurement Locations					
Fairland Elementary School						
Period: 02/20/2	4 - 02/23/2024					
Kit Number Room/Area Result						
	Result					
N/A	N/A					

Attachment 2: Laboratory Reports

** LABORATORY ANALYSIS REPORT **

Radon test result report for: FAIRLAND ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477781	16B	2024-02-20 @ 10:00 am	2024-02-23 @ 9:00 am	< 0.3	2024-02-27
11477997	16B	2024-02-20 @ 10:00 am	2024-02-23 @ 9:00 am	< 0.3	2024-02-27
11477831	CAFE	2024-02-20 @ 9:00 am	2024-02-23 @ 9:00 am	1.9 ± 0.4	2024-02-27
11477835	CAFE	2024-02-20 @ 9:00 am	2024-02-23 @ 9:00 am	1.3 ± 0.3	2024-02-27
11477823	PRINCIPAL	2024-02-20 @ 9:00 am	2024-02-23 @ 8:00 am	0.7 ± 0.3	2024-02-27
11478173	PRINCIPAL	2024-02-20 @ 9:00 am	2024-02-23 @ 9:00 am	4.9 ± 0.4	2024-02-27

February 27, 2024

** LABORATORY ANALYSIS REPORT **

 $\frac{\text{Radon test result report for:}}{\textbf{KCI}}$

MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11477832	OB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27
11482793	OB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27
11477841	TB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27
11482795	TB	2024-02-23 @ 8:00 am	2024-02-26 @ 11:00 am	< 0.3	2024-02-27
11402/93	1.0	2024-02-23 @ 8:00 am	2024-02-20 @ 11:00 am	< 0.3	2024-02-

January 29, 2024

** LABORATORY ANALYSIS REPORT **

Radon test result report for: STORAGE

KCI

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOG	IES /Ne Job Number 213819
NOMINAL Conditions: Radon Conc_5Q.Q	pCi/L Rel. Hum 38.9 % Temp. 69.1 F
Date Start: <u>Ala3/a</u> 4 Date Stop: <u>alada</u>	Date Start: Date Stop:
Time Start: O812 Time Stop: 0812	Time Start: Time Stop:
Device No.'s: (6) CHAR BA65	Device No.'s:
11478400, 11477842, 11477845,	
11477 852 11477 996, 11477 999	n
Date Start: Date Stop:	
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
	•

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

** LABORATORY ANALYSIS REPORT **

Radon test result report for: **FEB SK**

MAIN

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



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 – Testing February 20th – February 23rd, 2024

Name of Schools:

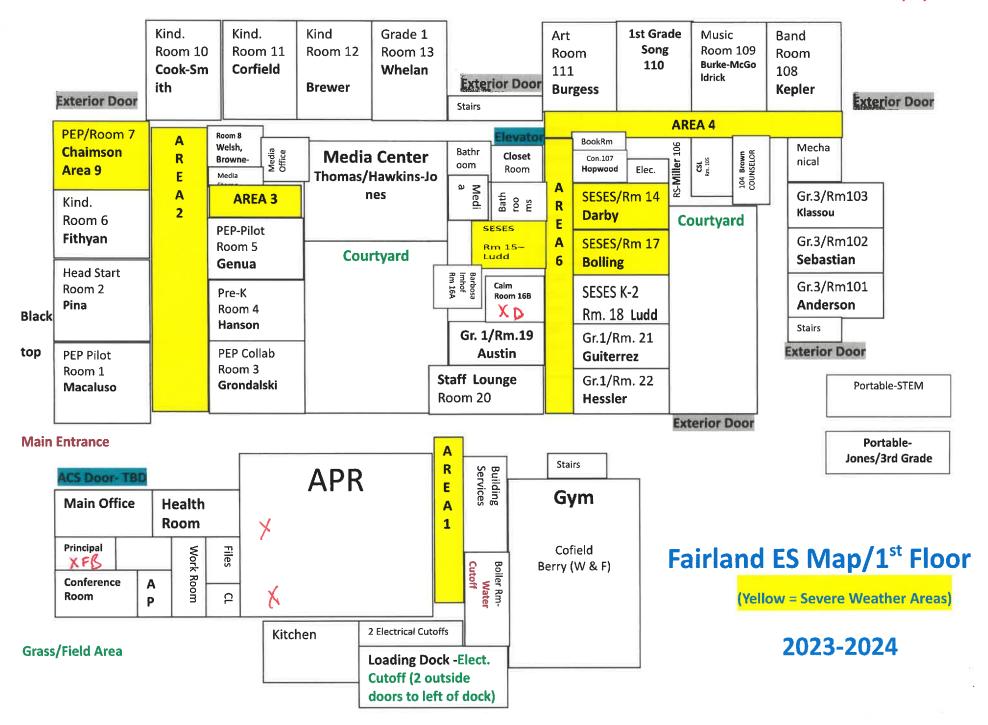
- 1. Cabin Branch ES
- 2. Clarksburg HS
- 3. Fairland ES
- 4. Jackson Road ES

- 5. JFK HS
- 6. John T. Baker MS
- 7. White Oak MS

	Date	Initials
Radon Test Kits Deployed	02/20/2024	Tu
Radon Test Kits Collected	02/23/2024	Ry
Radon Test Kits Shipped to Lab*	02/23/2024	ag
Radon Test Kits Received by Lab*	02/27/2024	an

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

Attachment 3: Sampling Location Map





Instructions: Submit one testing report form per-facility per-round of testing. Include the following as attachments: Attachment 1- Summary Data Tables — containing the following: (see attached samples tables)

- Testing Results lab/detector Identification, by room number/name (alpha-numeric order) as depicted on facility map/floor plan provided by the facility/school at the time of test device deployment;
- Summary Results list of rooms by test result ≥2.0-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 – Sai	mpling Loc	ation Map(s) – ind	icating approximate location of samples, duplicates and blanks.		
			School Year: 23-24		
Facility:	Fairland	Elementary Sc	Elementary School		
14315 Fairdale Road		airdale Road			
Address:	Silver Sp	oring, MD 2090	5		
		⊠ Scheduled	d Re-Testing (2 or 5-year schedule)		
Reason for T	octina:	☐ Clearance Testing (Post-Mitigation)			
Reason for the	Reason for Testing:		☐ System(s) Performance Testing (Post-Mitigation)		
		☐ New Construction/Facility			
Facility Curron	+ Dadan	☐ Active Mi	tigation (2-year regular schedule)		
Facility Curren Status:		No Active Mitigation (5-year regular schedule)			
		☐ Not Previo	ously Tested		
Round of Te	esting:	☑ Initial Tes	ting -or- Follow-up Testing		
Testing Sta	atus:	☐ No Furthe	er Testing Needed -or-		
Conclusion (Wh	nen Testin	g Status is - No	Further Testing Needed)		
Mitigation -		-	Facility Radon Status:		
☐ Not Required or Considered		Considered	☐ No Change in Status		
☐ Required (>8.0-pCi/L)		0-pCi/L)	☐ Active Mitigation (2-year regular schedule)		
☐ Requ	uired (≥4.0	0-pCi/L)	☐ No Active Mitigation (5-year regular schedule)		
☐ Consider (≥2.0 & <4.0-pCi/L)		<4.0-pCi/L)	140 Active Willigation (3-year regular scriedule)		



	Nassive Passive	⊠ Charc	oal Absorptio	on (CAD) 🗌 A	Alpha Track (ATD) 🗌 Other
Detector/Device	☐ Continuous		et ion Chamb	er (EIC) 🗌 E	lectronic Inte	egration (EID)
Type:	Other–Specify here:					
Detector/Device						
Detector/Device Name:	Air Chek – Radon	Test Kits				
Manufacturer:	Radon Lab					
Person(s) Deploying		Devices and		Or	ganization/C	Company
certification number	er					
Brittany Maas				KCI Technolo	gies, Inc.	
1						
	1.					
If noncertified individ	uals, the qualified me	easurement pi	rofessional pro	ividing oversight 	<u>:</u> -	
Tyler McCleaf, CSP	– Cert. #111004-RN	ΛP		KCI Technolo	gies, Inc.	
Tastina						
Testing						
Short-Term	Length of	_	Date of Dep	oloyment and	01/3	0/2024
☐ Long-Term	Test (days):	3	·	, (mm/dd/yy):	02/0	02/2024
				1:1 2		<u> </u>
Does the test pe	eriod include week	ends, school	breaks or ho	lidays?	☐ Yes	⊠ No
If " Yes " please ex	plain/detail in the sp	ace below:				
Was HVAC oper	ating under occupi	ed condition	s?		⊠ Yes	□ No
If " No " please exp	olain/detail in the spo	ace below:			•	

Testing (continued)



	Detectors Deployed			
	Ground-Contact Upper-Level(s) Total			
Test Locations ¹	57	3	60	
Duplicates ²	5	1	6	
Field Blanks ³	3	0	3	
		Grand Total	69	

- 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 per floor (these are in addition to ground contact locations)
- 2 10% of all locations tested, per floor
- 3 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

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

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

- 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.

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 QA plan previously submitted?	⊠ Yes	□ No

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



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

Summary of Test Results¹ and Determination of Valid Measurements²

	Ground-Contact	Upper-Level(s)	Total
Number of test locations:	57	3	60
Number of locations ≥8.0-pCi/L:	0	0	0
Number of locations ≥4.0 and ≤8-pCi/L:	1	0	1
Number of locations ≥2.7 and ≤4-pCi/L:	1	0	1
Number of locations ≥2.0 and ≤4-pCi/L:	2	0	2
Number of missing required test locations ³ :	2	0	2
Percentage of missing test locations for the facility ^{4,5} :	3.5%	0	3.5%

- 1 for locations with multiple test results, report consistent with Section 7.2(When Two Test Results Disagree) and 8.1.2 (Averaging) of ANSI/AARST MA-MFLB 2023 Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings;
- 2 the allowance is to be calculated individually for Ground-Contact and Upper-Level(s) Test Locations;
- 3 includes missed or inaccessible locations upon deployment or retrieval, damaged (not able to analyze) and missing detectors upon retrieval;
- 4 if all valid measurements are <4.0-pCi/L and the total number of test locations are ≥18, there is an allowance of ≤33%. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023;
- 5 if any valid measurements are ≥4.0-pCi/L and the total number of test locations are ≥20, there is an allowance of ≤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)



Were test devices deployed in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?	
Were valid measurements obtained in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms?	☐ Yes 🛛 No
If Yes to both above – then Testing Status – 'No Further Testing Needed' mark 'NA' below and comple	te Conclusions section
If No to either above, were all results obtained under 4.0-pCi/L and were there sufficient valid measurements obtained? ^{1,2} If Yes – then Testing Status - 'No Further Testing Needed' complete Conclusion section If No, then Testing Status - 'Follow-up Testing Required' continue below	☐ Yes ☐ No ☐ NA

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

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

Follow-Up Testing (if required)

Required if -

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

Follow-up Testing:

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

Initial Result(s)	Procedure	Follow-up Result	Conclusion
		≥4.0	Mitigation Required
≥ 4.0-pCi/L	1- Short-term follow-up test2- Average the results of the two tests	<4.0 but >2.0	Consider Mitigation
	2- Average the results of the two tests	<2.0	Not Required or Considered

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

Attachment 1: Summary Data Tables

Table 1- Radon Testing Results			
	Fairland Elementary School		
Tes	st Period: 01/30/2024 - 02/02/202	4	
Kit Number	Room / Area	Result	
11469210	1	1.6	
11469220	2	1.9	
11469211	3	0.9	
11469212	3	1.3	
11469214	4	0.6	
11469213	5	0.7	
11469225	6	1.8	
11469218	7	0.8	
11469227	8	< 0.3	
11469228	10	0.5	
11469219	11	1.4	
11469209	12	1.1	
11469224	13	1.2	
11469246	14	< 0.3	
11469230	15	0.9	
11469229	17	< 0.3	
11469237	17	< 0.3	
11469257	18	< 0.3	
11469256	19	0.8	
11469255	20	< 0.3	
11469265	21	2.8	
11469266	22	0.5	
11469238	30	< 0.3	
11469244	30	< 0.3	
11469247	101	0.9	
11469232	102	1.0	
11469231	103	0.7	
11469236	104	0.9	
11469239	105	0.5	
11469240	105	0.7	
11469241	106	0.6	
11469234	107	0.7	
11469243	108	0.6	
11469242	109	0.7	
11469235	110	0.7	
11469233	111	0.7	
11469248	203	0.5	
11469249	211	0.7	
11469250	211	0.7	
11469259	14 OFFICE	< 0.3	
11469251	15A	0.9	
11469245	16A	< 0.3	
11469203	16B	N/A	

Table 1- Radon Testing Results				
	Fairland Elementary School			
Te	st Period: 01/30/2024 - 02/02/2024	4		
Kit Number	Room / Area	Result		
11469258	17 OFFICE	< 0.3		
11469253	20 PHONE ROOM	0.6		
11469268	APR	0.5		
11469275	APR	N/A		
11469205	ASSISTANT PRINCIPAL	1.1		
11469204	BUILDING SERVICES	< 0.3		
11469264	BUILDING SERVICES OFFICE	2.0		
11469217	CONFERENCE ROOM	1.8		
11469263	GYM	1.7		
11469273	GYM	0.9		
11469207	HEALTH ROOM	1.5		
11469208	HEALTH ROOM OFFICE	1.6		
11469216	IMC	< 0.3		
11469223	IMC	0.5		
11469260	KITCHEN OFFICE	0.7		
11469201	MAIN OFFICE	2.0		
11469215	MEDIA OFFICE	< 0.3		
11469221	MEDIA OFFICE	0.6		
11469222	MEDIA OFFICE	0.5		
11469271	PE OFFICE	2.2		
11469272	PE OFFICE	1.8		
11469274	PE OFFICE	< 0.3		
11469202	PRINCIPAL	4.4		
11469226	SPEECH THERAPY	0.7		
11469267	STAGE	< 0.3		
11469206	WORKROOM	1.2		

Table 2 - Summary Testing Results ≥2.0 pCi/L							
			lementary S				
		Test Period: 0	1/30/2024 -	02/02/2024			
≥2.0 and <2.7 pCi/L		≥2.7 and <4	.0 pCi/L	≥4.0 and <8	3.0 pCi/l	≥8.0 pC	Ci/L
Room / Area	Result	Room / Area	Result	Room / Area	Result	Room / Area	Result
BUILDING SERVICES OFFICE	2.0	21	2.8	PRINCIPAL	4.4	N/A	N/A
MAIN OFFICE	2.0						
PE OFFICE	2.2						

Table 3 - QC Radon Testing Results				
Fairland Elementary School				
Tes	t Period: 01	/30/2024 - 02/02/20)24	
Kit Number	QC Type	Room / Area	Result	
11469212	D	3	1.3	
11469229	D	17	<0.3	
11469244	FB	30	<0.3	
11469239	D	105	0.5	
11469249	D	211	0.7	
11469222	D	Media office	0.5	
11469215	FB	Media office	<0.3	
11469271	D	PE Office	2.2	
11469274	FB	PE Office	<0.3	

	Table 4 - Summary of Invalid Measurement Locations			
	Fairland Elementary School Test Period: 01/30/24 - 02/02/24			
Test Period: 01/30/24 - 02/02/24				
Kit Number	Room/Area	Result		
11469275	APR	Missing		
11469203	16B	Missing		

Attachment 2: Laboratory Reports

Radon test result report for: FAIRLAND ES MAIN

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Kit#	Room Id	Started	Ended	pCi/L	Analyzed
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11469210	1	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.6 ± 0.4	2024-02-06
$\begin{array}{c} 11469232 & 102 & 2024-01-30 @ 12:00 \ pm \\ 11469231 & 103 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.7 \pm 0.3 & 2024-02-11469236 & 104 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.7 \pm 0.3 & 2024-02-11469240 & 105 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.7 \pm 0.3 & 2024-02-11469239 & 105 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.5 \pm 0.3 & 2024-02-11469239 & 105 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.5 \pm 0.3 & 2024-02-11469234 & 106 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.6 \pm 0.3 & 2024-02-11469234 & 107 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.7 \pm 0.3 & 2024-02-11469242 & 109 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 0.6 \pm 0.4 & 2024-02-11469242 & 109 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 & 11469219 & 11 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 & 11469233 & 111 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 & 10:00 \ am \\ 2024-02-02 &$	11469228	10	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	0.5 ± 0.3	2024-02-06
11469231	11469247	101	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.9 ± 0.4	2024-02-06
11469236	11469232	102	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	1.0 ± 0.4	2024-02-06
11469240 105 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02 11469239 105 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02 11469241 106 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.6 ± 0.3 2024-02-02 11469243 108 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02 11469243 108 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02 11469242 109 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.4 2024-02-11469219 11 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 0.7 ± 0.4 2024-02-11469233 1110 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.4 2024-02-02 11469233 1111 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.4 2024-02-02 11469209 12 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 0.7 ± 0.4 2024-02-02 11469240 13 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02 11469240 14 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02 11469240 14 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02 11469245 14 OFFICE 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02 11469259 14 OFFICE 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.9 ± 0.4 2024-02-02 11469245 16A 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.9 ± 0.4 2024-02-02 11469245 16A 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.9 ± 0.4 2024-02-02 11469237 17 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.9 ± 0.4 2024-02-02 11469258 17 OFFICE 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.9 ± 0.4 2024-02-02 11469258 17 OFFICE 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.9 ± 0.4 2024-02-02 11469255 20 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.9 ± 0.4 2024-02-02 11469255 20 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.8 ± 0.4 2024-02-02 11469255 20 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.8 ± 0.4 2024-02-02 11469255 20 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02 11469248 203 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02 11469249 211 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02 11469240	11469231	103	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.3	2024-02-06
$\begin{array}{c} 11469239 & 105 & 2024+01-30 @ 12:00 \ pm \\ 11469241 & 106 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.6 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.7 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.3 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.4 & 2024+02-02 \\ 0.1000 \ am \\ 0.6 \pm 0.4 & 2024+02-02 \\ 0.1000 \ am \\ 0.7 \pm 0.4 & 2024+02-02 \\ 0.1000 \ am \\ 0.7 \pm 0.4 & 2024+02-02 \\ 0.11469219 & 11 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.7 \pm 0.4 & 2024+02-02 \\ 0.11469235 & 110 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.7 \pm 0.4 & 2024+02-02 \\ 0.11469233 & 111 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.7 \pm 0.3 & 2024+02-02 \\ 0.1469233 & 111 & 2024+01-30 @ 11:00 \ am \\ 0.224+01-30 @ 11:00 \ am \\ 2024+02-02 @ 10:00 \ am \\ 0.7 \pm 0.3 & 2024+02-02 \\ 0.11469240 & 13 & 2024+01-30 @ 11:00 \ am \\ 0.224+02-02 @ 10:00 \ am \\ 0.11469240 & 14 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.3 & 2024+02-02 \\ 0.11469259 & 14 \ OFFICE & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.9 \pm 0.4 & 2024+02-02 \\ 0.11469251 & 15A & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.9 \pm 0.4 & 2024+02-02 \\ 0.11469237 & 17 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.9 \pm 0.4 & 2024+02-02 \\ 0.11469237 & 17 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.9 \pm 0.4 & 2024+02-02 \\ 0.11469237 & 18 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.0 \pm 0.3 & 2024+02-02 \\ 0.11469258 & 17 \ OFFICE & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.0 \pm 0.3 & 2024+02-02 \\ 0.11469258 & 17 \ OFFICE & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.0 \pm 0.3 & 2024+02-02 \\ 0.11469255 & 20 & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.0 \pm 0.3 & 2024+02-02 \\ 0.11469258 & 17 \ OFFICE & 2024+01-30 @ 12:00 \ pm \\ 2024+02-02 @ 10:00 \ am \\ 0.0 \pm 0.3 & 2024+02-02 \\ 0.11469258 &$	11469236	104	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.9 ± 0.4	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469240	105	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.3	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469239	105	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.5 ± 0.3	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469241	106	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.6 ± 0.3	2024-02-06
$\begin{array}{c} 11469242 & 109 & 2024-01-30 @ 12:00 \ pm \\ 11469219 & 11 & 2024-01-30 @ 11:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 1.4 \pm 0.4 & 2024-02-02 \\ 11469235 & 110 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 0.7 \pm 0.4 & 2024-02-02 \\ 11469233 & 111 & 2024-01-30 @ 12:00 \ pm \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 0.7 \pm 0.3 & 2024-02-02 \\ 11469240 & 12 & 2024-01-30 @ 11:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 @ 10:00 \ am \\ 2024-02-02 & 10:00 \ am \\ 2024-02-02-02 & 10:00 \$	11469234	107	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.3	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469243	108	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.6 ± 0.4	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469242	109	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.4	2024-02-06
11469233 111 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02-02-11469209 12 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 1.1 ± 0.4 2024-02-02-11469224 13 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 1.2 ± 0.4 2024-02-02-11469246 14 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am < 0.3	11469219	11	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.4 ± 0.4	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469235	110	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.4	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469233	111	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.3	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469209	12	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.1 ± 0.4	2024-02-06
11469259 14 OFFICE 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am < 0.3 2024-02-02-02-02 @ 10:00 am < 0.3 2024-02-02-02-02-02 @ 10:00 am < 0.3 2024-02-02-02-02-02-02-02 @ 10:00 am < 0.9 \pm 0.4 2024-02-02-02-02-02-02-02-02-02-02-02-02-02-	11469224	13	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.2 ± 0.4	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469246	14	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469259	14 OFFICE	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469245 16A 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am < 0.3 2024-02-02-02	11469230	15	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.9 ± 0.4	2024-02-06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11469251	15A	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.9 ± 0.4	2024-02-06
11469237 17 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am < 0.3 2024-02-02-02	11469245	16A	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469258 17 OFFICE $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am < 0.3 $2024-02-02-02$ 11469257 18 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am < 0.3 $2024-02-02-02$ 11469256 19 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.8 ± 0.4 $2024-02-02-02-02$ 11469220 2 $2024-01-30$ @ $11:00$ am $2024-02-02$ @ $10:00$ am 1.9 ± 0.4 $2024-02-02-02-02$ 11469255 20 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am < 0.3 $2024-02-02-02-02-02$ 11469253 20 PHONE ROOM $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.6 ± 0.3 $2024-02-02-02-02-02-02-02$ 11469248 203 $2024-01-30$ @ $12:00$ pm $2024-02-02-02$ @ $10:00$ am 0.5 ± 0.3 $2024-02-02-02-02-02-02-02-02-02-02-02-02-02-$	11469229	17	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469257 18 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am < 0.3 $2024-02-02-02$ 11469256 19 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.8 ± 0.4 $2024-02-02-02$ 11469220 2 $2024-01-30$ @ $11:00$ am $2024-02-02$ @ $10:00$ am 1.9 ± 0.4 $2024-02-02-02-02$ 11469255 20 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am < 0.3 $2024-02-02-02-02$ 11469253 20 PHONE ROOM $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.6 ± 0.3 $2024-02-02-02-02-02$ 11469248 203 $2024-01-30$ @ $12:00$ pm $2024-02-02-02$ @ $10:00$ am 0.5 ± 0.3 $2024-02-02-02-02-02$ 11469249 21 $2024-01-30$ @ $12:00$ pm $2024-02-02-02$ @ $10:00$ am 0.7 ± 0.3 $2024-02-02-02-02-02$ 11469250 21 $2024-01-30$ @ $12:00$ pm $2024-02-02-02$ @ $10:00$ am 0.7 ± 0.3 $2024-02-02-02-02-02$ 11469250 211 $2024-01-30$ @ $12:00$ pm $2024-02-02-02$ @ $10:00$ am 0.7 ± 0.3 $2024-02-02-02-02-02$	11469237	17	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469256 19 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.8 ± 0.4 $2024-02-02-02$ 11469220 2 $2024-01-30$ @ $11:00$ am $2024-02-02$ @ $10:00$ am 1.9 ± 0.4 $2024-02-02-02$ 11469255 20 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am < 0.3 $2024-02-02-02$ 11469253 20 PHONE ROOM $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.6 ± 0.3 $2024-02-02-02-02$ 11469248 203 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.5 ± 0.3 $2024-02-02-02-02$ 11469265 21 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 2.8 ± 0.4 $2024-02-02-02-02$ 11469249 211 $2024-01-30$ @ $12:00$ pm $2024-02-02$ @ $10:00$ am 0.7 ± 0.3 $2024-02-02-02-02$ 11469250 211 $2024-01-30$ @ $12:00$ pm $2024-02-02-02$ @ $10:00$ am 0.7 ± 0.3 $2024-02-02-02-02$	11469258	17 OFFICE	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469220 2 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 1.9 ± 0.4 2024-02-02-02-02-02-02-02-02-02-02-02-02-02-	11469257	18	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469255 20 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am < 0.3 2024-02-02-02-02 @ 10:00 am 11469253 20 PHONE ROOM 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.6 ± 0.3 2024-02-02-02-02-02-02-02 @ 10:00 am 11469248 203 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02-02-02-02-02-02-02-02-02-02-02-02-	11469256	19	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.8 ± 0.4	2024-02-06
11469253 20 PHONE ROOM 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.6 ± 0.3 2024-02-02-02-02 @ 10:00 am 0.6 ± 0.3 2024-02-02-02-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02-02-02-02-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02-02-02-02-02-02-02-02-02-02-02-02-	11469220	2	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.9 ± 0.4	2024-02-06
11469248 203 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02-02-02-02 @ 10:00 am 0.5 ± 0.3 2024-02-02-02-02-02-02-02-02-02-02-02-02-02-	11469255	20	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469265 21 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 2.8 ± 0.4 2024-02-02	11469253	20 PHONE ROOM	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.6 ± 0.3	2024-02-06
11469249 211 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.3 2024-02- 11469250 211 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.4 2024-02-02-	11469248	203	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.5 ± 0.3	2024-02-06
11469250 211 2024-01-30 @ 12:00 pm 2024-02-02 @ 10:00 am 0.7 ± 0.4 2024-02-	11469265	21	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	2.8 ± 0.4	2024-02-06
1	11469249	211	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.3	2024-02-06
11460266 22 2024 01 20 @ 12:00 pm 2024 02 02 @ 10:00 pm 0.5 ± 0.2 2024 02	11469250	211	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.4	2024-02-06
11409200 22 2024-01-30 \(\ext{w}\) 12.00 \(\text{pm}\) 2024-02-02 \(\ext{w}\) 10:00 \(\text{am}\) 0.3 \pm 0.3 \(2024-02-02-03)	11469266	22	2024-01-30 @ 12:00 pm	2024-02-02 @ 10:00 am	0.5 ± 0.3	2024-02-06
11469212 3 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 1.3 ± 0.4 2024-02-	11469212	3	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.3 ± 0.4	2024-02-06
11469211 3 2024-01-30 @ 11:00 am 2024-02-02 @ 10:00 am 0.9 ± 0.3 2024-02-	11469211	3	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	0.9 ± 0.3	2024-02-06

Radon test result report for: FAIRLAND ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	A 1 1
				-	Analyzed
11469238	30	_	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469244	30	1	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469214	4		2024-02-02 @ 10:00 am	0.6 ± 0.3	2024-02-06
11469213	5		2024-02-02 @ 10:00 am	0.7 ± 0.4	2024-02-06
11469225	6		2024-02-02 @ 10:00 am	1.8 ± 0.4	2024-02-06
11469218	7	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	0.8 ± 0.3	2024-02-06
11469227	8	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469268	APR	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	0.5 ± 0.3	2024-02-06
11469205	ASSISTANT PRINCIPAL	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.1 ± 0.4	2024-02-06
11469204	BUILDING SERVICES	-	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
		1	2024-02-02 @ 10:00 am	2.0 ± 0.4	2024-02-06
11469217	CONFERENCE ROOM	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.8 ± 0.4	2024-02-06
11469263	GYM	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	1.7 ± 0.4	2024-02-06
11469273	GYM	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	0.9 ± 0.4	2024-02-06
11469207	HEALTH ROOM	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.5 ± 0.4	2024-02-06
11469208	HEALTH ROOM OFFICE	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.6 ± 0.4	2024-02-06
11469223	IMC	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	0.5 ± 0.3	2024-02-06
11469216	IMC	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469260	KITCHEN OFFICE	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	0.7 ± 0.4	2024-02-06
11469201	MAIN OFFICE	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	2.0 ± 0.4	2024-02-06
11469221	MEDIA OFFICE	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	0.6 ± 0.3	2024-02-06
11469222	MEDIA OFFICE	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	0.5 ± 0.3	2024-02-06
11469215	MEDIA OFFICE	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469274	PE OFFICE	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469272	PE OFFICE	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	1.8 ± 0.4	2024-02-06
11469271	PE OFFICE	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	2.2 ± 0.4	2024-02-06
11469202	PRINCIPAL	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	4.4 ± 0.5	2024-02-06
11469226	SPEECH THERAPY	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	0.7 ± 0.3	2024-02-06
11469267	STAGE	2024-01-30 @ 1:00 pm	2024-02-02 @ 10:00 am	< 0.3	2024-02-06
11469206	WORKROOM	2024-01-30 @ 11:00 am	2024-02-02 @ 10:00 am	1.2 ± 0.4	2024-02-06

February 7, 2024

** LABORATORY ANALYSIS REPORT **

Radon test result report for: OFFICE BLANK MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11633583	OB	2024-01-30 @ 11:00 am	2024-02-02 @ 11:00 am	< 0.3	2024-02-06

February 7, 2024

** LABORATORY ANALYSIS REPORT **

Radon test result report for: TRAVEL BLANK MAIN

Kit#	Room Id	Started	Ended	pCi/L	Analyzed
11633584	TB	2024-01-30 @ 11:00 am	2024-02-02 @ 11:00 am	< 0.3	2024-02-06

January 29, 2024

** LABORATORY ANALYSIS REPORT **

Radon test result report for: STORAGE

KCI

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT <u>KCI TECHNOLOGIE</u>	5 /NC Job Number 213327
NOMINAL Conditions: Radon Conc 49.5	pCi/L Rel. Hum <u>34.7</u> % Temp. <u>69.8</u> F
Date Start: 1/19/24 Date Stop: 1/23/20	Date Start: Date Stop:
Time Start: 2831 Time Stop: 0831	Time Start: Time Stop:
Device No.'s: (6) CHAR BAGS.	Device No.'s:
11284003, 11284005, 11284006	
11294007, 11284008, 11284013	
F3 Left	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:

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

** LABORATORY ANALYSIS REPORT **

Radon test result report for: BOWSER MORNER MAIN

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



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Radon Test Kit Chain of Custody

Project Name: MCPS Radon - Testing January 30th - February 2nd 2024

Name of Schools:

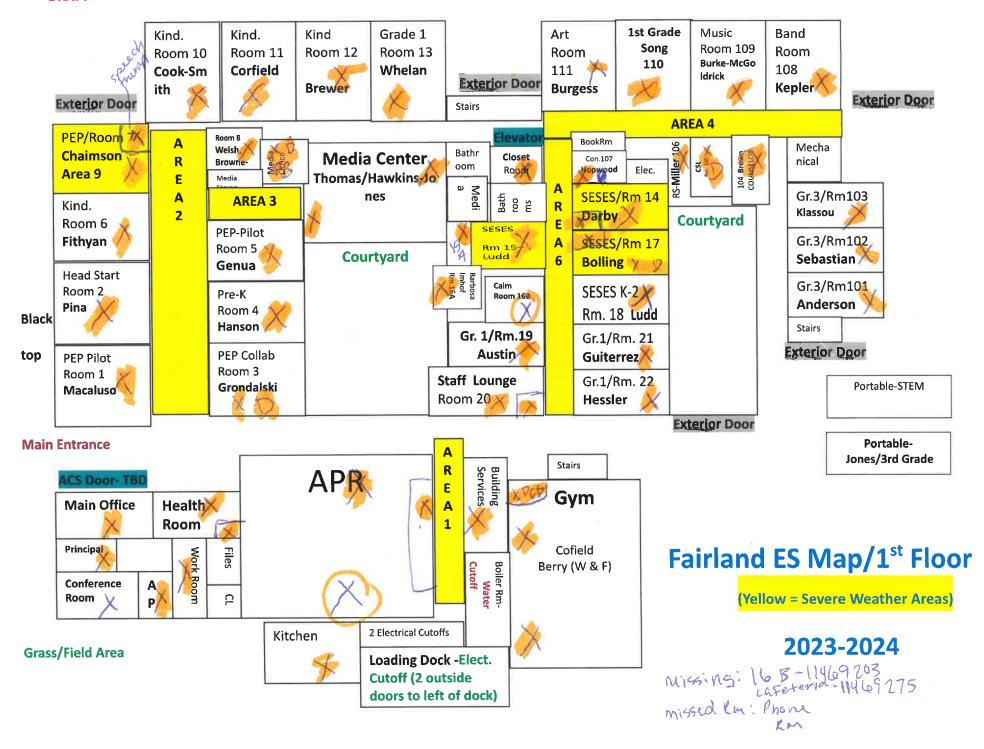
- 1. Damascus HS
- 2. Fairland ES
- 3. Jackson Road ES

- 4. Laytonsville ES
- 5. William Tyler Page ES
- 6. Cloverly ES

	Date	Initials
Radon Test Kits Deployed	01/30/2024	dy
Radon Test Kits Collected	02/02/2024	M
Radon Test Kits Shipped to Lab*	02/02/2024	Thy
Radon Test Kits Received by Lab*	02/06/2024	m

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

Attachment 3: Sampling Location Map

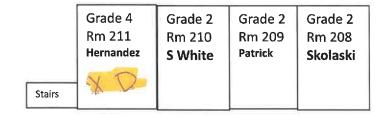


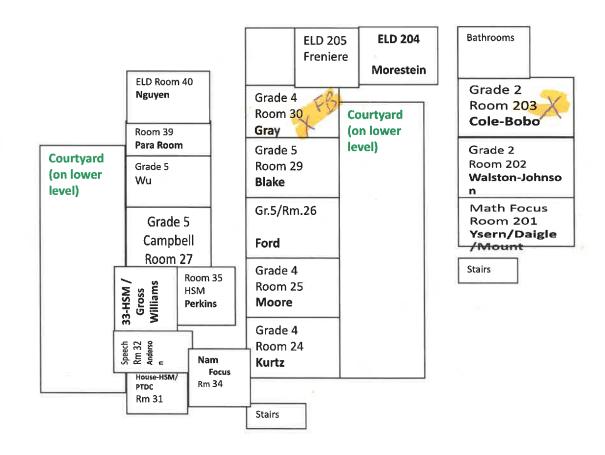
Revised 08/20/23

Fairland ES Map/2nd Floor

(Yellow = Severe Weather Areas)

2023 - 2024







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MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Fairland Elementary School
Date of Test Report	05/27/2022
Round of Testing	Initial
	Follow-up
	Post Remediation
	2 Year Testing
	5 Year Testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# Rooms Tested	1
# Rooms ≥ 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	0.7 pCi/L

Project Status

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

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May 27, 2022

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

Re: Radon Testing Services

KCI Job # 122108316

Location: Fairland Elementary School

14315 Fairdale Rd.

Silver Spring, MD 20905

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 Fairland Elementary School, located at 14315 Fairdale Rd. Silver Spring, MD 20905 (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 29, 2022 and deployed four (4) 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 April 01, 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 mid 20°Fs and high temperatures ranged from the low 50°Fs to the mid 70°Fs. Maximum sustained winds ranged from 0-33 miles per hour. Average humidity was around 47% with 0.23 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.

KCI Technologies, Inc. www.kci.com

The results of the radon test analysis indicated the following:

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

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

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

Sincerely,

Tyler P. McCleaf

Radon Measurement Provider

#111004 RT

KCI Technologies, Inc.

Tyler McCleaf

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				
	Fairland ES RT			
Te	Test Period: 03/29/2022 - 04/01/2022			
Kit Number	Room / Area	Result		
11131746	APR	< 0.3		
11140042	APR	< 0.3		
11140043	APR	< 0.3		
11140044	APR	0.7		

Table 2- Radon Testing Results			
Fairland ES RT			
Test Period: 03/29/2022 - 04/01/2022			
Kit Number	QC Type	Room / Area	Result
11140043	D	APR	< 0.3
11131746	FB	APR	< 0.3
11139883	OB	OFFICE BLANK	< 0.3
11139841	ТВ	TRAVEL BLANK	< 0.3

Summary of Missed Locations		
Fairland ES RT		
Test Period: 03/29/22 - 04/01/22		
Test Period: 03/29/22 - 04/01/22		
Kit Number	Room/Area	Result
	NA NA	
	10,1	

Summary of I	Missing, Compromised and >/	= 4 piC/L Tests
	Fairland ES RT	
T	est Period: 03/29/22 - 04/01/	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: FAIRLAND ES

Kit#	Room Id	Started	Ended	pCi/L	Analyzed
11131746	APR	2022-03-29 @ 12:00 pm	2022-04-01 @ 11:00 am	< 0.3	2022-04-04
11140042	APR	2022-03-29 @ 12:00 pm	2022-04-01 @ 11:00 am	< 0.3	2022-04-04
11140043	APR	2022-03-29 @ 12:00 pm	2022-04-01 @ 11:00 am	< 0.3	2022-04-04
11140044	APR	2022-03-29 @ 12:00 pm	2022-04-01 @ 11:00 am	0.7	2022-04-04

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, I	10b Number 204620
NOMINAL Conditions: Radon Conc 27. 0 p	Ci/L Rel. Hum <u>50.1</u> % Temp. <u>70.0</u>
Date Start: 3/18/22 Date Stop: 3/21/22	Date Start: Date Stop:
Time Start: <u>0795</u> Time Stop: <u>0795</u>	(
Device No.'s: (5) Char Bags-	Device No.'s:
11139367 11139368, 11139371,	
11139710, 11139717	C
E3 Right	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
	ři li
* 4	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:

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

** 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

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



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Radon Test Kit Chain of Custody

Project Name: MCPS Radon - March 2022 Schools - Retesting

Name of Schools:

- 1. Watkins Mill HS
- 2. Cresthaven ES
- 3. East Silver Spring ES
- 4. Fairland Center
- 5. Francis Scott Key MS
- 6. Greencastle ES
- 7. Roscoe Nix ES
- 8. West Farm Transportation Depot
- 9. Wheaton HS
- 10.White Oak MS
- 11. William Tyler Page ES
- 12.Bel Pre ES
- 13. Fairland ES
- 14. Highland ES
- 15. Rolling Terrace ES
- 16. Takoma Park MS
- 17. Viers Mill ES
- 18.Poolesville ES

	Date	Initials
Radon Test Kits Deployed	03/29/2022	BMM
Radon Test Kits Collected	04/01/2022	BMM
Radon Test Kits Shipped to Lab*	04/01/2022	BMM
Radon Test Kits Received by Lab*	04/04/2022	BMM

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



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MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Fairland Elementary
	School
Date of Test Report	5/11/2022
Round of Testing	Initial
	Follow-up
	Post Remediation
	2 Year Testing
	5 Year Testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# Rooms Tested	50
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	2.8 pCi/L

Project Status:

Initial testing completed; Missing or compromised samples need re-sampling

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May 11, 2022

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

Re: Radon Testing Services

KCI Job # 122108316

Location: Fairland Elementary School

14315 Fairdale Rd.

Silver Spring, MD 20905

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 Fairland Elementary School, located at 14315 Fairdale Rd. Silver Spring, MD 20905 (subject site).

Scope of Services:

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

KCI visited the site on March 15, 2022 and deployed fifty-six (56) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

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

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

KCI returned to the site on March 18, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a

www.kci.com

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 concentration levels at the facility.

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

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

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

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the low 20s and high temperatures ranged from the mid 70s to the high 50s Fahrenheit. Maximum sustained winds ranged from 0-32 miles per hour. Average humidity was around 61% with 0.1 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

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

KCI Technologies, Inc. WWW.kci.com

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 tha			
adequate laboratory measurement precision was ach			
Spike Sample Analysis:	The Spike Sample analysis results indicate the laboratory is		
	operating within statistical control limits.		

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

Sincerely,

Tyler P. McCleaf

Radon Measurement Provider

#111004 RT

KCI Technologies, Inc.

Tyler McCleaf

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
Fairland ES

Test Period: 03/15/2022 - 03/18/2022

Kit Number	Room / Area	Result
11139761	1	1.1
11139758	2	2.8
11139757	3	0.6
11139764	4	0.6
11139738	5	< 0.3
11139744	5	0.7
11139746	6	2.0
11139745	7	1.1
11139748	8	0.6
11139733	10	0.8
11139743	10	< 0.3
11139737	11	1.0
11139755	12	2.0
11139762	12	2.2
11139714	13	1.2
11139769	14	< 0.3
11139770	14	< 0.3
11139750	15	< 0.3
11139766	16	< 0.3
11139773	17	0.8
11139774	17	0.7
11139753	18	0.5
11139752	19	< 0.3
11139760	19	0.5
11139754	20	0.6
11139759	21	1.9
11139751	22	0.6
11139720	24	< 0.3
11139784	101	< 0.3
11139785	101	< 0.3
11139786	102	0.7
11139772	103	0.6
11139703	104	0.6
11139742	104	0.5
11139788	105	< 0.3
11139765	107	< 0.3
11139779	108	< 0.3
11139780	109	0.7
11139767	110	< 0.3
11139787	111	< 0.3
11139756	211	< 0.3
11139749	16A	0.5

Table 1- Radon Testing Results				
Fairland ES				
Te	est Period: 03/15/2022 - 03/18/202	22		
Kit Number	Room / Area	Result		
11139776	AP	0.6		
11139768	APR	1.1		
11139778	BULDING SERVICES	1.8		
11139704	CONFERENCE	0.6		
11139763	GYM	0.8		
11139783	GYM	0.7		
11139782	HEALTH	< 0.3		
11139712	IMC	< 0.3		
11139713	IMC	< 0.3		
11139789	MAIN OFFICE	1.1		
11139739	MAT PREP	0.6		
11139771	PE OFFICE	1.1		
11139707	PRINCIPAL	1.8		
11139775	WORKROOM	0.7		

Table 2- Radon Testing Results				
	Fairla	and ES		
	Test Period: 03/15	/2022 - 03/18/2022		
Kit Number	QC Type	Room / Area	Result	
11139785	D	101	< 0.3	
11139770	FB	14	< 0.3	
11139760	D	19	0.5	
11139743	FB	10	< 0.3	
11139762	D	12	2.2	
11139703	D	104	0.6	
11138953	ОВ	OFFICE BLANK	< 0.3	
11138945	ТВ	TRAVEL BLANK	< 0.3	

Summary of Missed Locations				
Fairland ES				
Т	est Period: 03/15/22 - 03/18/22			
Kit Number	Room/Area	Result		
	NA			

Summary of	f Missing, Compromised and >/= 4	piC/L Tests
	Fairland ES	
	Test Period: 03/15/22 - 03/18/22	
Kit Number	Room/Area	Result
11139777	APR	Missing

Table Note:

^{*} Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for: FAIRLAND ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11139761	1	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	1.1 ± 0.3	2022-03-21
11139733	10	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.8 ± 0.3	2022-03-21
11139743	10	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139784	101	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139785	101	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139786	102	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	0.7 ± 0.3	2022-03-21
11139772	103	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139703	104	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139742	104	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.5 ± 0.3	2022-03-21
11139788	105	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139765	107	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139779	108	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139780	109	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	0.7 ± 0.3	2022-03-21
11139737	11	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	1.0 ± 0.3	2022-03-21
11139767	110	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139787	111	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139755	12	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	2.0 ± 0.3	2022-03-21
11139762	12	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	2.2 ± 0.3	2022-03-21
11139714	13	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	1.2 ± 0.3	2022-03-21
11139769	14	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139770	14	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139750	15	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139766	16	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139749	16A	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.5 ± 0.3	2022-03-21
11139774	17	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.7 ± 0.3	2022-03-21
11139773	17	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.8 ± 0.3	2022-03-21
11139753	18	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.5 ± 0.3	2022-03-21
11139760	19	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.5 ± 0.3	2022-03-21
11139752	19	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
11139758	2	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	2.8 ± 0.3	2022-03-21
11139754	20	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.6 ± 0.3	2022-03-21
11139759	21	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	1.9 ± 0.3	2022-03-21
11139756	211	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139751	22	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.6 ± 0.3	2022-03-21
11139720	24	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
11139757	3	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
11139764	4	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21

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

** LABORATORY ANALYSIS REPORT **

Radon test result report for: FAIRLAND ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
1139744	5	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.7 ± 0.3	2022-03-21
1139738	5	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
1139746	6	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	2.0 ± 0.3	2022-03-21
1139745	7	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	1.1 ± 0.3	2022-03-21
1139748	8	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
1139776	AP	2022-03-15 @ 8:00 am	2022-03-18 @ 9:00 am	0.6 ± 0.3	2022-03-21
1139768	APR	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	1.1 ± 0.3	2022-03-21
1139778	BULDING SERVICES	2022-03-15 @ 8:00 am	2022-03-18 @ 9:00 am	1.8 ± 0.3	2022-03-21
1139704	CONFERENCE	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	0.6 ± 0.3	2022-03-21
1139783	GYM	2022-03-15 @ 8:00 am	2022-03-18 @ 9:00 am	0.7 ± 0.3	2022-03-21
1139763	GYM	2022-03-15 @ 8:00 am	2022-03-18 @ 9:00 am	0.8 ± 0.3	2022-03-21
1139782	HEALTH	2022-03-15 @ 8:00 am	2022-03-18 @ 9:00 am	< 0.3	2022-03-21
1139712	IMC	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
1139713	IMC	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	< 0.3	2022-03-21
1139789	MAIN OFFICE	2022-03-15 @ 8:00 am	2022-03-18 @ 10:00 am	1.1 ± 0.3	2022-03-21
1139739	MAT PREP	2022-03-15 @ 9:00 am	2022-03-18 @ 10:00 am	0.6 ± 0.3	2022-03-21
1139771	PE OFFICE	2022-03-15 @ 8:00 am	2022-03-18 @ 9:00 am	1.1 ± 0.3	2022-03-21
1139707	PRINCIPAL	2022-03-15 @ 9:00 am	2022-03-18 @ 9:00 am	1.8 ± 0.3	2022-03-21
1139775	WORKROOM	2022-03-15 @ 8:00 am	2022-03-18 @ 9:00 am	0.7 ± 0.3	2022-03-21

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EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, I	10b Number 204620
NOMINAL Conditions: Radon Conc 27. 0 p	Ci/L Rel. Hum <u>50.1</u> % Temp. <u>70.0</u>
Date Start: 3/18/22 Date Stop: 3/21/22	Date Start: Date Stop:
Time Start: <u>0795</u> Time Stop: <u>0795</u>	(
Device No.'s: (5) Char Bags-	Device No.'s:
11139367 11139368, 11139371,	
11139710, 11139717	C
E3 Right	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
	ř
* 4	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:

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

** 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

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



Engineers • Planners • Scientists • Construction Managers

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

Radon Test Kit Chain of Custody

Project Name: MCPS Radon - March 2022 Schools

Name of Schools:

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

	Date	Initials
Radon Test Kits Deployed	03/15/2022	Mun
Radon Test Kits Collected	03/18/2022	BUIL
Radon Test Kits Shipped to Lab*	03/18/2022	BellI
Radon Test Kits Received by Lab*	03/20/2022	BUILL

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



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MCPS RADON TESTING

Executive Summary: Fairland Elementary School

Date of Test Report:	1/13/2016
Round of Testing:	Initial
	Follow-up
	Post Remediation
# Rooms Tested:	68
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	2.7

Project Status:

Initial testing completed; One test kit was missing from Storage 1; however, based on the low test results from adjacent rooms and within the school, no further action is recommended at this time.

KCI TECHNOLOGIES, INC. WWW.kci.com

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

January 13, 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 # 12146341.20

Location: Fairland Elementary School

14315 Fairdale Road Silver Spring, MD 20905

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 Fairland Elementary School, located at 14315 Fairdale Road in Silver Spring, Maryland 20905 (subject site).

Scope of Services:

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

KCI visited the site on December 21, 2015 and deployed seventy-four (74) 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 4 duplicate samples (10%), 1 field blanks (3%), and 1 office blank (1%). Prior to sampling, KCI returned 1% of the test batch to the laboratory for analysis as lab transit blanks. In addition, KCI submitted six (6) test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner prior to being returned to the laboratory for analysis.

KCI returned to the site on December 24, 2015 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc.

KCI TECHNOLOGIES, INC. WWW.kci.com

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 during the 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 blanks, 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.

KCI TECHNOLOGIES, INC. WWW.kci.com

Mr. Richard Cox January 13, 2016 Page 4

Sincerely,

James M. Moulsdale

James Makler

Radon Measurement Specialist

KCI Technologies, Inc.

Attachments: A- Floor Plan with Test Locations

B- Table 1-Radon Test Summary Spreadsheet

C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

Radon Testing Results Fairland Elementary School						
Te	Test Period: 12/21/15-12/24/15					
Kit Number Room / Area Result						
7713632	1	2.3				
7713649	2	1.2				
7713651	3	0.7				
7713650	4	0.9				
7713652	5	1				
7713656	6	0.7				
7713655	7	0.8				
7713625	8	< 0.3				
7713624	10	0.7				
7713623	11	< 0.3				
7713621	12	0.9				
7713622	13	1.1				
7713635	14	< 0.3				
7713637	15	0.9				
7713639	16	< 0.3				
7713628	17	0.6				
7713633	18	1				
7713646	19	0.6				
7713643	20	1.4				
7713641	21	1.9				
7713642	21	2.1				
7713640	22	1.9				
7713678	34	0.7				
7713608	101	1.1				
7713611	102	1.1				
7713612	102	< 0.3				
7713674	103	1				
7713605	104	1.2				
7713613	105	0.9				
7713615	106	0.6				
7713618	106	0.8				
7713675	107	1.2				
7713606	108	1.6				
7713616	108	0.9				
7713617	109	0.9				
7713619	110	0.6				
7713610	111	0.8				
7713677	208	0.8				
7713676	209	0.9				
7713634	16A	0.7				
7713638	16B	0.7				
7713662	ASSIST PRINCIP	0.8				
7713679	BLDG SER 2	1.8				
7713631	BLDG SERV 1	0.5				
7713669	CAFE	1				
7713670	CAFE	1.2				

Table Note:
* Missing or Compromised Sample

	Radon Testing Results						
	Fairland Elementary School						
	Test Period: 12/21/15-12/24/15						
Kit Number	Kit Number Room / Area Result						
7713664	CONFRENCE	2.1					
7713665	COPY ROOM	0.8					
7713645	GYM	1					
7713647	GYM	< 0.3					
7713648	GYM	1.3					
7713653	GYM	1					
7713672	GYM OFFICE	1.2					
7713654	HEALTH	1.1					
7713667	KITCHEN	1.2					
7713630	MAT PREP	0.6					
7713626	MAT PREP STORAGE	1.3					
7713627	MEDIA CNTR	0.5					
7713629	MEDIA CNTR	0.8					
7713671	OBSERVATION RM	0.8					
7713658	OFFICE	< 0.3					
7713663	PRINCIPAL	2.7					
7713659	PRIVATE	0.8					
7713620	STORAGE 2	0.8					
7713636	STORAGE 3	1.1					
7713614	* STORAGE1 (missing)	-					
7713661	TELE 2	0.9					
7713644	TELE RM 1	1.3					

Table Note:
* Missing or Compromised Sample

	Radon Testing Results			
	Fairland Elementary School			
	Test Period: 12/21/15-12/24/15			
Kit Number	Kit Number QC Type Resul			
7713668	D (CAFE)	1		
7713673	D (GYM OFFICE)	1.1		
7713666	D (KITCHEN)	0.8		
7713657	D (OFFICE)	0.8		
7713660	FB (HEALTH)	< 0.3		
7707336	OB (0)	< 0.3		

ATTACHMENT C

Laboratory Analytical Results

January LABORATORY ANALYSIS 12, REPORT **

Radon test result report for: FAIRLAND ES

Kit#	Room Id	Started	Ended	pCi/L	Analyzed
7707336	0	2015-12-21 @ 3:00 pm	2015-12-24 @ 9:00 am	< 0.3	2015-12-28
7713632	1	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	2.3 ± 0.4	2015-12-28
7713624	10	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.7 ± 0.3	2015-12-28
7713608	101	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	1.1 ± 0.3	2015-12-28
7713611	102	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	1.1 ± 0.3	2015-12-28
7713612	102	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	< 0.3	2015-12-28
7713674	103	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	1.0 ± 0.3	2015-12-29
7713605	104	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	1.2 ± 0.3	2015-12-28
7713613	105	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.9 ± 0.3	2015-12-28
7713615	106	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.6 ± 0.3	2015-12-29
7713618	106	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.8 ± 0.4	2015-12-29
7713675	107	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	1.2 ± 0.3	2015-12-28
7713606	108	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	1.6 ± 0.3	2015-12-28
7713616	108	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.9 ± 0.3	2015-12-28
7713617	109	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.9 ± 0.3	2015-12-28
7713623	11	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	< 0.3	2015-12-28
7713619	110	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.6 ± 0.3	2015-12-28
7713610	111	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.8 ± 0.3	2015-12-28
7713621	12	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.9 ± 0.3	2015-12-28
7713622	13	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	1.1 ± 0.3	2015-12-28
7713635	14	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	< 0.3	2015-12-28
7713637	15	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.9 ± 0.3	2015-12-28
7713639	16	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	< 0.3	2015-12-28
7713634	16A	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.7 ± 0.3	2015-12-28
7713638	16B	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.7 ± 0.3	2015-12-29
7713628	17	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.6 ± 0.3	2015-12-28
7713633	18	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.0 ± 0.3	2015-12-28
7713646	19	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.6 ± 0.3	2015-12-28
7713649	2	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	1.2 ± 0.3	2015-12-28
7713643	20	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.4 ± 0.3	2015-12-28
7713677	208	2015-12-21 @ 2:00 pm	2015-12-24 @ 9:00 am	0.8 ± 0.3	2015-12-28
7713676	209	2015-12-21 @ 2:00 pm	2015-12-24 @ 9:00 am	0.9 ± 0.3	2015-12-28
7713641	21	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.9 ± 0.4	2015-12-28
7713642	21	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	2.1 ± 0.4	2015-12-28
7713640	22	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.9 ± 0.3	2015-12-28
7713651	3	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	0.7 ± 0.3	2015-12-28
7713678	34	2015-12-21 @ 2:00 pm	2015-12-24 @ 9:00 am	0.7 ± 0.3	2015-12-28

January LABORATORY ANALYSIS 12, 2016 REPORT **

Radon test result report for: FAIRLAND ES

Kit#	Room Id	Started	Ended	pCi/L	Analyzed
7713650	4	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	0.9 ± 0.3	2015-12-28
7713652	5	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	1.0 ± 0.3	2015-12-28
7713656	6	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	0.7 ± 0.3	2015-12-28
7713655	7	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	0.8 ± 0.3	2015-12-29
7713625	8	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	< 0.3	2015-12-28
7713662	ASSIST PRINCIP	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.8 ± 0.3	2015-12-28
7713679	BLDG SER 2	2015-12-21 @ 2:00 pm	2015-12-24 @ 9:00 am	1.8 ± 0.3	2015-12-28
7713631	BLDG SERV 1	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.5 ± 0.3	2015-12-28
7713668	CAFE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.0 ± 0.3	2015-12-28
7713670	CAFE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.2 ± 0.3	2015-12-28
7713669	CAFE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.0 ± 0.4	2015-12-29
7713664	CONFRENCE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	2.1 ± 0.4	2015-12-28
7713665	COPY ROOM	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.8 ± 0.4	2015-12-29
7713645	GYM	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.0 ± 0.3	2015-12-28
7713647	GYM	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	< 0.3	2015-12-28
7713648	GYM	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.3 ± 0.3	2015-12-28
7713653	GYM	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.0 ± 0.3	2015-12-28
7713672	GYM OFFICE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.2 ± 0.3	2015-12-28
7713673	GYM OFFICE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.1 ± 0.3	2015-12-28
7713654	HEALTH	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.1 ± 0.3	2015-12-28
7713660	HEALTH	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	< 0.3	2015-12-28
7713666	KITCHEN	2015-12-21 @ 1:00 pm	2015-12-24 @ 8:00 am	0.8 ± 0.3	2015-12-28
7713667	KITCHEN	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.2 ± 0.3	2015-12-28
7713630	MAT PREP	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.6 ± 0.3	2015-12-29
7713626	MAT PREP STORAGE	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	1.3 ± 0.4	2015-12-28
7713627	MEDIA CNTR	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.5 ± 0.3	2015-12-28
7713629	MEDIA CNTR	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.8 ± 0.4	2015-12-29
7713671	OBSERVATION RM	2015-12-21 @ 2:00 pm	2015-12-24 @ 8:00 am	0.8 ± 0.3	2015-12-28
7713657	OFFICE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.8 ± 0.3	2015-12-28
7713658	OFFICE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	< 0.3	2015-12-29
7713663	PRINCIPAL	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	2.7 ± 0.5	2015-12-29
7713659	PRIVATE	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.8 ± 0.3	2015-12-28
7713620	STORAGE 2	2015-12-21 @ 12:00 pm	2015-12-24 @ 8:00 am	0.8 ± 0.3	2015-12-28
7713636	STORAGE 3	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.1 ± 0.4	2015-12-29
7713614	STORAGE1	@	@		
7713661	TELE 2	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	0.9 ± 0.4	2015-12-29
7713644	TELE RM 1	2015-12-21 @ 1:00 pm	2015-12-24 @ 9:00 am	1.3 ± 0.3	2015-12-28

December LABORATORY ANALYSIS 29, REPORT **

Radon test result report for:
TRANSIT DEC 14 2015
NONE

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
		2002000		-	•
7704395	TRANSIT 1	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706508	TRANSIT 10	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706510	TRANSIT 11	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706511	TRANSIT 12	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706505	TRANSIT 13	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704371	TRANSIT 14	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706506	TRANSIT 15	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704381	TRANSIT 16	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704399	TRANSIT 17	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704390	TRANSIT 18	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704396	TRANSIT 2	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704364	TRANSIT 3	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704370	TRANSIT 4	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7704368	TRANSIT 5	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706524	TRANSIT 6	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706526	TRANSIT 7	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706518	TRANSIT 8	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16
7706516	TRANSIT 9	2015-12-13 @ 10:00 am	2015-12-15 @ 10:00 am	< 0.3	2015-12-16

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

December LABORATORY ANALYSIS 23, REPORT **

Spike Sample Laboratory Results

Radon test result report for: MCPS

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

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies.	Inc. Job Number 173224
	pCi/L Rel. Hum <u>49.6</u> % Temp. <u>69.9</u>
Date Start: 12/18/15 Date Stop: 12/21/5	Date Start: Date Stop:
Time Start: <u>0929</u> Time Stop: <u>0929</u>	Time Start: Time Stop:
Device No.'s: 7705132,7766208	Device No.'s:
7706211,7706366,	
7706380, 7706381	
F3 Left	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
1	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:

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



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 II

School Names:

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

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

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