

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

### MCPS RADON TESTING - EXECUTIVE SUMMARY

Site Name	Stone Mill Elementary School
Date of Report	2/28/2020
Round of Testing	Initial
	Follow-up
	Post Remediation
	2 year testing
	5 year testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# of Rooms Tested	3
# Rooms ≥4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	<0.3 pCi/L

### **Project Status**

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



#### ENGINEERS . PLANNERS . SCIENTISTS . CONSTRUCTION MANAGERS

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

2/28/2020

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

Re: Radon Testing Services

KCI Job #1214634188

**Location: Stone Mill Elementary School** 14323 Stonebridge View Drive North Potomac, Maryland 20878

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a "short-term" 3-day radon test for the Stone Mill Elementary School, located at 14323 Stonebridge View Drive in North Potomac, Maryland 20878 (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 #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from <a href="https://www.montgomerycountymd.gov/dep/air/radon">www.montgomerycountymd.gov/dep/air/radon</a> or <a href="https://wwww.montgomerycountymd.gov/dep/air/radon">www.montgomer

KCI visited the site on 2/4/2020 and deployed seven (7) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

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

1. Rooms with missing test kits from the December 2019 testing period (i.e. test kit was deployed but not recovered),

- 2. Rooms with invalidated test kits from the December 2019 testing period (e.g. an open window in the room or disturbed test kit),
- 3. Rooms which were locked/inaccessible during the December 2019 testing period,
- 4. Rooms with elevated December 2019 results (i.e.  $\geq$ 3.5 piC/L),
- 5. Rooms previously tested for radon but not tested in December 2019, and
- 6. Additional rooms that require testing (if applicable.)

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

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

KCI returned to the site on 2/7/2020 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, Inc. is a 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 at the time of deployment and collection of the radon test kits:

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

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures ranged from the mid-30s to the low-50s; and high temperatures ranged from the upper-40s to the mid-60s. Maximum sustained winds ranged from 13-21 miles per hour. Average humidity was approximately 76%. A total of 1.09 Inches of rain were recorded during the testing period. The weather conditions during the testing period may have resulted in atypical radon test results for this facility.

#### 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). Follow-up 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	See Attachment B

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

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

Sincerely,

Mr. Tyler P. McCleaf Radon Measurement Provider KCI Technologies, Inc.

Attachments

A- Floor Plan with Test Locations

B - Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

# ATTACHMENT A

# Floor Plan With Test Locations

## Floor Plan Legend

- X-Sample Location (in red)
- X- Previous Sample Location
- 1- Not Samled; No Ground Contact
- 2- Not Samled; Unoccupied (e.g. Storage, Mechanical)
- 3- Not Samled; High Humidity/Moisture
- 4- Not Samled; Bathroom/Hallway

# ATTACHMENT B

# Radon Test Summary Spreadsheet

## **Table Notes:**

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

Table 1- Radon Testing Results			
	Stone Mill Elementary School		
	Test Period: 02/04/20-02/07/20		
Kit Number	Room / Area	Result	
9339941	15	<0.3	
9339945	ASSISTANT PRINCIPAL'S OFFICE	<0.3	
9339947	ASSISTANT PRINCIPAL'S OFFICE	<0.3	
9339944	ASSISTANT PRINCIPAL'S OFFICE	<0.3	
9339942	COUNSELORS OFFICE	<0.3	
9334909	OFFICE BLANK	<0.3	
9334910	OFFICE BLANK	<0.3	

Table 2- Radon Testing Results			
Stone Mill Elementary School			
Test Period: 02/04/20-02/07/20			
Kit Number	QC Type	Room / Area	Result
9339944	D	ASSISTANT PRINCIPAL'S OFFICE	<0.3
9339947	FB	ASSISTANT PRINCIPAL'S OFFICE	<0.3
9334902	TRANSIT BLANK	NA	<0.3

# ATTACHMENT C

# Laboratory Analytical Results

February 11, 2020

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

## Radon test result report for:

## **MAIN**

Kit #	Room Id	Started		Ended	pCi/L	Analyzed
9339941	15	2020-02-04	@ 9:00 am	2020-02-07 @ 8:00 am	< 0.3	2020-02-11
9339945	ASSISTANT PRINCIPAL'S OFFICE	2020-02-04	@ 9:00 am	2020-02-07 @ 8:00 am	< 0.3	2020-02-11
9339947	ASSISTANT PRINCIPAL'S OFFICE	2020-02-04	@ 9:00 am	2020-02-07 @ 8:00 am	< 0.3	2020-02-11
9339944	ASSISTANT PRINCIPAL'S OFFICE	2020-02-04	@ 9:00 am	2020-02-07 @ 8:00 am	< 0.3	2020-02-11
9339942	COUNSELOR'S OFFICE	2020-02-04	@ 9:00 am	2020-02-07 @ 8:00 am	< 0.3	2020-02-11

# **EXPOSURE IN BOWSER-MORNER RADON CHAMBER**

CLIENT KCI Technolog	gies, Inc.	Job Number 194523	_
NOMINAL Conditions: Radon Conc 45.8	,		F
Date Start: 2/21/20 Date Stop: 2/24/2	20 Date Start:	Date Stop:	
Time Start: Q745 Time Stop: Q743	Time Start:	Time Stop:	
Device No.'s: (9) Char Bags-	Device No.'s:_		
9341725 thru 9341733			
52 Ceft		1	
Date Start: Date Stop:	Date Start:	Date Stop:	
Time Start: Time Stop:	Time Start:	Time Stop:	
Device No.'s:	Device No.'s:	'se	
22 25			
Date Start: Date Stop:	Date Start:	Date Stop:	
Time Start: Time Stop:	Time Start:	Time Stop:	
Device No.'s:	Device No.'s:		
		φ.	

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
9341725	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$26.9 \pm 1.6$	2020-02-26
9341730	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$26.1 \pm 1.6$	2020-02-26
9341728	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$26.9 \pm 1.6$	2020-02-26
9341726	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$25.8 \pm 1.5$	2020-02-26
9341731	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$25.1 \pm 1.5$	2020-02-26
9341729	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$26.2 \pm 1.6$	2020-02-26
9341727	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$27.2 \pm 1.6$	2020-02-26
9341732	N/A	2020-02-21 @ 8:00 a	am 2020-02-24 @ 8:00 am	$27.3 \pm 1.6$	2020-02-26



### Engineers • Planners • Scientists • Construction Managers

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

## **Radon Test Kit Chain of Custody**

Project Name: MCPS Radon 2019 Week 1 Retesting

#### Name of Schools:

- 1. Belmont E.S.
- 2. Clarksburg H.S.
- 3. Damascus E.S.
- 4. Damascus H.S.
- 5. DuFief E.S.
- 6. Fields Road E.S.
- 7. Gaithersburg E.S.
- 8. McAuliffe E.S.
- 9. Quince Orchard H.S.
- 10. Snowden Farms E.S.
- 11. South Lake E.S.
- 12. Stone Mill E.S.
- 13. Travilah ES
- 14. Watkins Mill ES
- 15. Whitman H.S.

	Date	Initials
Radon Test Kits Deployed	02/03/20 to 02/04/20	m
Radon Test Kits Collected	02/06/20 to 02/07/20	m
Radon Test Kits Shipped to Lab*	02/07/20	- Com
Radon Test Kits Received by Lab*	02/10/20	2m

<sup>\*</sup>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	Stone Mill Elementary School
Date of Report	1/28/2020
Round of Testing	Initial
	Follow-up
	Post Remediation
	2 year testing
	5 year testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# of Rooms Tested	45
# 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 Complete; missing/compromised tests to be sampled.



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#### 1/28/2020

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

Re: Radon Testing Services

KCI Job #12146341126

**Location: Stone Mill Elementary School** 14323 Stonebridge View Drive North Potomac, Maryland 20878

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a "short-term" 3-day radon test for the Stone Mill Elementary School, located at 14323 Stonebridge View Drive in North Potomac, Maryland 20878 (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 <a href="https://www.montgomeryschoolsmd.org/departments/facilities/maintenance/default.aspx?id=458858">https://www.montgomeryschoolsmd.org/departments/facilities/maintenance/default.aspx?id=458858</a> or <a href="https://www.montgomeryschoolsmd.org/departments/facilities/maintenance/default.aspx?id=458858">https://www.montgomeryschoolsmd.org/departments/facilities/maintenance/default.aspx?id=458858</a>

KCI visited the site on 12/10/2019 and deployed sixty-one (61) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

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

As a quality control measure, KCI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted sixty (60) test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner, Inc. prior to being returned to the laboratory for analysis.

KCI returned to the site on 12/13/2019 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, Inc. is a NRSB certified analytical laboratory for radon analysis (certification #ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

#### **EVALUATION OF TESTING CONDITIONS**

These tests represent:

• Follow-up to initial testing.

These tests were conducted to:

• Evaluate radon concentrations at the facility.

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

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

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

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the upper-30s and high temperatures ranged from the upper-30s to the mid-50s. Maximum sustained winds ranged from 7-21 miles per hour. Average humidity was around 75%. 0.52 inches of precipitation (rain) was recorded during the testing period.

#### **RESULTS**

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

The results of the radon test analysis indicated the following:

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

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

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

Sincerely,

Mr. Tyler P. McCleaf Radon Measurement Provider 111004 RT

KCI Technologies, Inc.

Attachments:

A- Floor Plan with Test Locations

B - Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

# ATTACHMENT A

# Floor Plan With Test Locations

# ATTACHMENT B

Radon Test Summary Spreadsheet

## **Table Notes:**

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

	Table 1- Radon Testing Results	
	Stone Mill Elementary School	
	Test Period: 12/9/2019-12/12/2019	
	16311 6116d. 12/0/2013 12/12/2013	
Kit Number	Room / Area	Result
9334414	CONFERENCE ROOM	< 0.3
9334421	PRINCIPALS OFFICE	< 0.3
9334423	CLASSROOM 2	0.6
9334428	HEALTH OFFICE	< 0.3
9334429	WORK ROOM	< 0.3
9334438	CLASSROOM 4	< 0.3
9334439	TELEPHONE	< 0.3
9334440	MAIN OFFICE	< 0.3
9334441	HEALTH SUITE	< 0.3
9334442	MAIN OFFICE WAITING	< 0.3
9334443	CLASSROOM 7	< 0.3
9334444	CLASSROOM 5	< 0.3
9334445	CLASSROOM 6	< 0.3
9334446	CLASSROOM 1	< 0.3
9334447	CLASSROOM 23	< 0.3
9334449	CLASSROOM 3	< 0.3
9334450	CLASSROOM 1	< 0.3
9334451	CLASSROOM 23	< 0.3
9334452	CLASSROOM 23	< 0.3
9334453	OFFICE	< 0.3
9334454	COMPUTER OFFICE	< 0.3
9334455	MEDIA CENTER	< 0.3
9334456	MEDIA CENTER	< 0.3
9334457	OFFICE	0.7
9334458	OFFICE	< 0.3
9334459	CLASSROOM 11	< 0.3
9334460	CLASSROOM 21	< 0.3
9334461	CLASSROOM 10	< 0.3
9334462	CLASSROOM 13	< 0.3
9334463	MATERIAL PREP	< 0.3
9334464	MATH LAB	< 0.3
9334465	CLASSROOM 18	< 0.3
9334466	CLASSROOM 19	< 0.3
9334467	CLASSROOM 17	< 0.3
9334468	CLASSROOM 15 COMMUNICATION	< 0.3
9334469	ROOM 20 TEACHERS LOUNGE	< 0.3
9334470	CLASSROOM 8	< 0.3
9334471	CLASSROOM 12	< 0.3
9334472	CLASSROOM 12	< 0.3
9334473	CLASSROOM 9	< 0.3
9334474	CLASSROOM 16	< 0.3
9334475	GYM	< 0.3
9334476	GYM OFFICE	< 0.3
9334478	GYM	< 0.3
9334479	INSTRUMENTAL MUSIC	< 0.3
9334480	MULTIPURPOSE ROOM	< 0.3
9334481	CLASSROOM 24	0.6
9334482	GYM	< 0.3
9334483	SPEECH OFFICE	< 0.3
9334484	BUILDING SERVICES OFFICE	< 0.3
		7.0

9334485	CLASSROOM 34	< 0.3
9334486	CLASSROOM 29	< 0.3
9334487	MULTIPURPOSE ROOM	< 0.3
9334488	MULTIPURPOSE ROOM	< 0.3
9334489	MULTIPURPOSE ROOM	< 0.3
9334490	MULTIPURPOSE ROOM	< 0.3
9334492	CLASSROOM 24	< 0.3
9334493	CLASSROOM 24	0.7
9334494	COUNSELORS OFFICE	< 0.3
9334994	OFFICE BLANK	< 0.3
9334448	CLASSROOM 15	MISSING

Table 2- Radon Testing Results						
	Stone Mill Elementary School					
	Test Period: 12/9	/2019-12/12/2019				
Kit Number	QC Type	Room / Area	Result			
9334450	D	CLASSROOM 1	<0.3			
9334458	D	OFFICE	<0.3			
9334453	FB	OFFICE	<0.3			
9334471	D	CLASSROOM 12	<0.3			
9334452	D	CLASSROOM 23	<0.3			
9334451	FB	CLASSROOM 23	<0.3			
9334480	D	MULTIPURPOSE ROOM	<0.3			
9334493	D	CLASSROOM 24	0.7			
9334492	FB	CLASSROOM 24	<0.3			
9334850	TRANSIT BLANK	NA	< 0.3			
9334914	TRANSIT BLANK	NA	< 0.3			
9334916	TRANSIT BLANK	NA	< 0.3			
9334963	TRANSIT BLANK	NA	< 0.3			

Summary of Missed Locations						
Stor	ne Mill Elementary School					
Test Period: 12/10/2019 - 12/13/2019						
Kit Number	Room/Area	Result				
	NA					

Summary of	Missing, Compromised and >/= 4 piC	C/L Tests
	Stone Mill Elementary School	
Te	st Period: 12/10/2019-12/13/2019	
Kit Number	Room/Area	Result
9334448	*15	NA

### Table Note:

<sup>\*</sup> Missing or Compromised Sample

# ATTACHMENT C

# Laboratory Analytical Results

### December 17, 2019

### Radon test result report for: STONE MILL ES MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
9334484	BUILDING SERVICES OFFICE	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334450	CLASSROOM 1	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334446	CLASSROOM 1	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334461	CLASSROOM 10	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334459	CLASSROOM 11	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334472	CLASSROOM 12	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334471	CLASSROOM 12	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334462	CLASSROOM 13	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334448	CLASSROOM 15	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	???? UI	2019-12-16
9334468	<b>CLASSROOM 15 COMMUNICATION</b>	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334474	CLASSROOM 16	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334467	CLASSROOM 17	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334465	CLASSROOM 18	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334466	CLASSROOM 19	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334423	CLASSROOM 2	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	$0.6 \pm 0.3$	2019-12-17
9334460	CLASSROOM 21	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334447	CLASSROOM 23	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334451	CLASSROOM 23	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334452	CLASSROOM 23	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334481	CLASSROOM 24	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	$0.6 \pm 0.3$	2019-12-17
9334492	CLASSROOM 24	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334493	CLASSROOM 24	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	$0.7 \pm 0.3$	2019-12-17
9334486	CLASSROOM 29	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334449	CLASSROOM 3	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334485	CLASSROOM 34	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334438	CLASSROOM 4	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334444	CLASSROOM 5	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334445	CLASSROOM 6	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334470	CLASSROOM 8	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334454	COMPUTER OFFICE	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334414	CONFERENCE ROOM	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334494	COUNSELORS OFFICE	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17
9334475	GYM	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334482	GYM	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334478	GYM	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334476	GYM OFFICE	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-16
9334428	HEALTH OFFICE	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-17

### December 17, 2019

### Radon test result report for: STONE MILL ES MAIN

Kit#	Room Id	Started	Ended	pCi/L	Analyze
334441	HEALTH SUITE	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-1
334479	INSTRUMENTAL MUSIC	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-1
334440	MAIN OFFICE	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-1
334442	MAIN OFFICE WAITING	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-1
334463	MATERIAL PREP	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334464	MATH LAB	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334455	MEDIA CENTER	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334456	MEDIA CENTER	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334489	MULTIPURPOSE ROOM	2019-12-10 @ 11:00 am	2019-12-13 @ 12:00 pm	< 0.3	2019-12-
334487	MULTIPURPOSE ROOM	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334480	MULTIPURPOSE ROOM	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334490	MULTIPURPOSE ROOM	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334488	MULTIPURPOSE ROOM	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334457	OFFICE	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	$0.7 \pm 0.3$	2019-12-
334453	OFFICE	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334458	OFFICE	2019-12-10 @ 9:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334421	PRINCIPALS OFFICE	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334469	ROOM 20 TEACHERS LOUNGE	2019-12-10 @ 10:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334483	SPEECH OFFICE	2019-12-10 @ 11:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334439	TELEPHONE	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-
334429	WORK ROOM	2019-12-10 @ 8:00 am	2019-12-13 @ 11:00 am	< 0.3	2019-12-

## **EXPOSURE IN BOWSER-MORNER RADON CHAMBER**

CLIENT KCI Technologi	es Inc.	Job Number <u>193475</u>
NOMINAL Conditions: Radon Conc 25.7	pCi/L Rel. Hum _	74.6 % Temp. 69.9
Date Start: 12/13/19 Date Stop: 12/16/19	Date Start:	Date Stop:
Time Start: 0806 Time Stop: 0806	Time Start:	Time Stop:
Device No.'s: (20) Chan. Bags-	Device No.'s:_	
9334502 +hnu 9334519, 9334314, 9334316, 9334517, 2334517, 9334519		
9334522 4nn 9334528 By		
Date Start: 12/13/19 Date Stop: 12/16/19	Date Start:	Date Stop:
Time Start: Ost acm Time Stop: 0811	Time Start:	Time Stop:
(Group 2) Device No.'s: (20) Chair. Boys-	Device No.'s:_	·\$
9334529 thno 9334538,		
9334542 thno 9334550		
133		
Date Start: 12/13/19 Date Stop: 12/16/19	Date Start:	Date Stop:
Time Start: 0816 Time Stop: 0816	Time Start:	Time Stop:
(Gray 3) Device No.'s: (20) Char. Bags - 9334551, 9334554, 9334562,	Device No.'s:	
9334355 +hno 9334559, 9334369, 9334576, 9334579,		-
9334580, 9334583, 9334584		
9334597, 9334598, 9334599 Ba		

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

## 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
9334583	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.3 \pm 1.4$	2019-12-18
9334529	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.3 \pm 1.5$	2019-12-18
9334597	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.8 \pm 1.4$	2019-12-18
9334534	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.3 \pm 1.4$	2019-12-18
9334540	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.9 \pm 1.4$	2019-12-18
9334546	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.9 \pm 1.5$	2019-12-18
9334551	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.3 \pm 1.4$	2019-12-18
9334558	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.6 \pm 1.4$	2019-12-18
9334579	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.6 \pm 1.4$	2019-12-18
9334593	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.3 \pm 1.4$	2019-12-18
9334532	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.6 \pm 1.4$	2019-12-18
9334537	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.8 \pm 1.4$	2019-12-18
9334544	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.5 \pm 1.4$	2019-12-18
9334549	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.4 \pm 1.5$	2019-12-18
9334556	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.1 \pm 1.4$	2019-12-18
9334569	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.7 \pm 1.4$	2019-12-18
9334584	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.4 \pm 1.5$	2019-12-18
9334530	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.6 \pm 1.4$	2019-12-18
9334598	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.7 \pm 1.4$	2019-12-18
9334535	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.0 \pm 1.4$	2019-12-18
9334542	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.7 \pm 1.4$	2019-12-18
9334547	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$25.2 \pm 1.5$	2019-12-18
9334552	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.2 \pm 1.4$	2019-12-18
9334559	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.1 \pm 1.4$	2019-12-18
9334580	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.1 \pm 1.4$	2019-12-18
9334594	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.1 \pm 1.4$	2019-12-18
9334533	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.3 \pm 1.5$	2019-12-18
9334538	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.6 \pm 1.5$	2019-12-18
9334545	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.0 \pm 1.4$	2019-12-18
9334550	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.1 \pm 1.4$	2019-12-18
9334557	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.6 \pm 1.5$	2019-12-18
9334576	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.3 \pm 1.4$	2019-12-18
9334591	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.7 \pm 1.4$	2019-12-18
9334531	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.3 \pm 1.5$	2019-12-18
9334599	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.8 \pm 1.4$	2019-12-18
9334536	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.4 \pm 1.5$	2019-12-18
9334543	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.4 \pm 1.5$	2019-12-18

December 18, 2019

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

## Radon test result report for:

## N/A

Kit # Ro	oom Id	Started	Ended	pCi/L	Analyzed
9334548	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.0 \pm 1.4$	2019-12-18
9334555	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.4 \pm 1.4$	2019-12-18
9334562	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.5 \pm 1.4$	2019-12-18

Radon test result report for: S N/A

Kit#	Room Id	Started	Ended	pCi/L	Analyzed
9334505	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.5 \pm 1.5$	2019-12-18
9334510	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.4 \pm 1.5$	2019-12-18
9334522	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.9 \pm 1.4$	2019-12-18
9334527	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$22.6 \pm 1.4$	2019-12-18
9334503	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.6 \pm 1.4$	2019-12-18
9334508	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.7 \pm 1.5$	2019-12-18
9334517	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.5 \pm 1.4$	2019-12-18
9334525	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.8 \pm 1.4$	2019-12-18
9334506	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.3 \pm 1.5$	2019-12-18
9334514	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.5 \pm 1.5$	2019-12-18
9334523	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.6 \pm 1.4$	2019-12-18
9334528	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.8 \pm 1.4$	2019-12-18
9334504	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.8 \pm 1.4$	2019-12-18
9334509	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.5 \pm 1.4$	2019-12-18
9334519	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.1 \pm 1.4$	2019-12-18
9334526	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.3 \pm 1.4$	2019-12-18
9334502	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$23.7 \pm 1.4$	2019-12-18
9334507	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.7 \pm 1.5$	2019-12-18
9334516	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$22.2 \pm 1.3$	2019-12-18
9334524	N/A	2019-12-13 @ 8:00 am	2019-12-16 @ 8:00 am	$24.6 \pm 1.5$	2019-12-18



## Engineers • Planners • Scientists • Construction Managers

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

### **Radon Test Kit Chain of Custody**

Project Name: MCPS Radon 2019 Week 1

### Name of Schools:

<ol> <li>Baker M</li> </ol>	1.S.	
-----------------------------	------	--

2. Belmont E.S.

3. Clarksburg E.S.

4. Clarksburg H.S.

5. Clearspring E.S.

6. Damascus E.S.

7 Damasaus II C

7. Damascus H.S.

8. Dufief E.S.

9. Fields Road E.S.

10. Gaithersburg E.S.

11. Germantown E.S.

12. Great Seneca Creek E.S.

13. Jones Lane E.S.

14. Lake Seneca E.S.

15. McAuliffe E.S.

16. Quince Orchard H.S.

17. Rosa Parks M.S.

18. Snowden Farm E.S.

19. South Lake E.S.

20. Stone Mill E.S.

21. Travilah E.S.

22. Watkins Mill E.S.

23. Watkins Mill H.S.

24. Whitman H.S.

	Date	Initials
Radon Test Kits Deployed	12/09/19 to 12/10/19	TM
Radon Test Kits Collected	12/12/19 to 12/13/19	m
Radon Test Kits Shipped to Lab*	12/13/19	The
Radon Test Kits Received by Lab*	12/16/19	Th

<sup>\*</sup>All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759

## RADON SCREENING SURVEY – FOLLOW-UP STONE MILL ELEMENTARY SCHOOL

# 14323 Stonebridge View Drive, North Potomac, Maryland 20878

## **EXECUTIVE SUMMARY**

Date of Test Report:	4/1/16 Follow-Up	
Round of Testing:	Initial	
	Follow-up	
	Post Remediation	
# Rooms Tested	2	
# Rooms ≥ 4.0 pCi/L:	0	
Low Value:	<0.4	
High Value:	<0.4	
Confirmed Rooms ≥ 4.0 pCi/L US EPA	0	
Action Level		

## Summary of Sampling Events ≥ 4.0 pCi/L

Room	Result (pCi/L) 2/29/16 Initial	Result (pCi/L) 4/1/16 Follow-Up	Average Result (pCi/L)
CR10	Missing	<0.4	<0.4
TL	Missing	<0.4	<0.4



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### MCPS RADON TESTING

Executive Summary: Stone Mill Elementary School

Date of Test Report:	4/1/2016	
Round of Testing:	Initial	
	Follow-up	
	Post Remediation	
# Rooms Tested:	2	
# Rooms $\geq$ 4.0 pCi/L:	0	
Low Value:	< 0.4	
High Value:	< 0.4	

Project Status:

Retesting completed; no further action at this time.

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April 1, 2016

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

Re: Radon Testing Services

KCI Job # 12146341.31

Location: Stone Mill Elementary School

14323 Stonebridge View Drive North Potomac, MD 20878

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 Stone Mill Elementary School, located at 14323 Stonebridge View Drive in North Potomac, Maryland 20878 (subject site).

#### **Scope of Services:**

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

KCI visited the site on March 8, 2016 and deployed two (2) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. A floor plan map of the building with the test locations is included as Attachment A of this report.

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

KCI returned to the site on March 11, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis (certification # ARL0007) located at 929 Mount

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Zion Road, Lebanon, Pennsylvania.

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

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

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

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

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

#### **Results:**

The results of the radon test analysis indicated the following:

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

Notes:

D- Duplicate sample

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

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

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

Sincerely,

James M. Moulsdale

James Makelen

Radon Measurement Specialist

KCI Technologies, Inc.

Attachments: A- Floor Plan with Test Locations

B- Table 1-Radon Test Summary Spreadsheet

C- Laboratory Analytical Results

## ATTACHMENT A

## Floor Plan With Test Locations

## ATTACHMENT B

# Radon Test Summary Spreadsheet

## **Table Notes:**

**AC-** Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

**OB- Office Blank\*** 

PM- Project Manager

QC- Quality Control

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

Radon Testing Results						
Stone Mill ES						
Test Period: 03/08/16-03/11/16						
Kit Number Room / Area Result						
3029012	CR-10	<0.4				
3029013	TL	<0.4				

# ATTACHMENT C

# Laboratory Analytical Results



NRPP 10511AL NRSB ARL0007 EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies Stone Mill ES

936 Ridgebrook Rd 14323 Stonebridge View Dr Sparks MD 21152 North Potomac MD 20878

Log Number	Device Number	Test Exposu	re Duration:	Area Tested	Result (pCi/L)
3016784	3029013	03/08/2016 1:59 pm	03/11/2016 11:29 am	Unit TL Teachers Lounge	<0.4
3016785	3029012	03/08/2016 2:04 pm	03/11/2016 11:31 am	Unit CR-10	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/15/2016 Date Logged: 03/15/2016 Date Analyzed: 03/16/2016 Date Reported: 03/16/2016

Report Reviewed By: \_\_

Carolyn D. Koke, President, AccuStar Labs

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

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

Disclaimer:

AccuStar 11 Awl S	N. Contraction
AccuStar	Professional Padou Laborator Coninco Space

Send Written Report To:

AccuStar Labs 11 Awl Street Medway MA 02053

Radon Device Type Open Face Canister

888-480-8812 www.accustarlabs.com

Site Tested:

Site Name

KCI Technologies, Inc 936 Ridgebrook Road

Address Address

Stone Mill ES City / Town

14333 Shinebridge North Potomac

State/Province Postal Code MD

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in Aurangabadwala 891-1726

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Telephone 410-8	COLLACI	ט
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		410-8

olgnature

Montgomery County

Test Country

21152

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

Sparks

City / Town Address Address Name

Project Number 12146341

4		L	
Telephone	Technician	Cert. Number	Signafure
Ď.			

Lab Use Only						
Stop Time	pc;11	1831				
Stop Date	03/14/2016	03/11/2016				
Start Time	13:59	19:04				
Start Date	03/08/2016	03/08/2016	-			
Name of Room	Teachers Leunge 73					
Floor						
Unit Number	71	CR-10				
Building Number						
Device Number	3024013	3629012				
Lab Use Only						

Rev E1512



NRPP 10511AI NRSB ARL0007 EPA Method #402-R-92-004 **Charcoal Canister** NRPP Device Code 6048 NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 12146341

KCI Technologies 936 Ridgebrook Rd MCPS Radon Phase 11 Office Blank

Sparks MD 21152

Device Log Number Number

3029191

3016739

Test Exposure Duration: Area Tested

03/08/2016 10:00 am 03/11/2016 10:00 am Office Blank

Result (pCi/L)

< 0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/15/2016 Date Logged: 03/15/2016 Date Analyzed: 03/15/2016 Date Reported: 03/16/2016

Report Reviewed By: \_\_

Carolyn D. Koke, President, AccuStar Labs

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

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Disclaimer:

Laboratory	Customics Since 1984	AccuStar Labs 11 Awl Street Medway MA 02053	888-480-8812 www.accustarlabs.com	Radon Device	Radon Device Type Open Face Canister		
ten F	tten Report To:			Site Tested:		Contact Informa	<u> </u>
	KCI Technolo	ogies, Inc		Site Name	MCPS ORIVE Blow	Contact	
	936 Ridgebrook Road	ook Road		Address	936 Resubsour Rd	Telephone	17
				Address			_
_	Sparks			City / Town	Sparks	Technician	L
ince	ince Postal Code	MD 21152	52	State/Province P	State/Province Postal Code MD 2/1/52	Cert. Number	JL
untry	ıntry Baltimore Cοι	ounty		Test Country	Montgomery County	Signature	يخال
ress	ress tehsin@kci.co	com		Project Number 12146341	12146341		1

Send Willien Report 10.	Site l'ested:		Contact Information:	
Name KCI Technologies, Inc	Site Name	MCPS ORIVE Block	Contact Tehsin Aurangabadwala	
Address 936 Ridgebrook Road	Address	936 R. Sr. Grown Rd	Telephone 410-891-1726	
Address	Address			
City / Town Sparks	City / Town	Sparks	Technician	
State/Province Postal Code MD 21152	State/Province	State/Province Postal Code MD 2/1/52	Cert. Number	
Report Country Baltimore County	Test Country	Montgomery County	Signature     Mist     July	
Email Address tehsin@kci.com	Project Number 12146341	r 12146341		

Lab Use Only						
Stop Time	10:00 am					
Stop Date	03/11/2016					
Start Time	10:00 am		·			
Start Date	03/08/2016					
Name of Room	Office Blank					
Floor	1					
Unit Number	_					
Building Number	_			i I		
Device Number	3029191			70 70		
Lab Use Only						

Rev E1512



NRPP 10511AL NRSB ARL0007 EPA Method #402-R-92-004 **Charcoal Canister** NRPP Device Code 6048 NRSB Device Code 10317

Laboratory Report for:

Property Tested:

KCI Technologies

**MCPS** 

936 Ridgebrook Rd

Transit Blanks

Sparks MD 21152

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

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

Distributed by: KCI Technologies, Inc.

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

> Report Reviewed By: Cristo Sates Report Approved By: Buly D. Kole Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

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

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explain if NO Do not use this form in explain if NO Were general operating New Jersey or Florida conditions maintained? conditions maintained? Yes - No Call for correct forms. Were closed building Multi-Page Report Y-N 0 LAB USE ONLY 1/27/2016 3010588 3028953 ACPC275B EXP12/31/2018 Certilled I coror # # Discrepancies will invalidate tests Normal Temp. Wgt. Gain Yes - No Yes - No Instructions on back of form Read instructions carefully Teros Include AM/PM Stop Time 9130an Both Placed by and Retrieved by signatures are required KCI Technologies, Inc. Date Stop Date 1/22/1 gran. a. Accustar Labs
929 Mt. Zion Rd., Lebanon, PA 17046 RECEIVED JAN 2NFORMATION FORM - Large Buildings Include AM/PM Start Time Canisters retrieved by Owner waives confidentiality ams Email: County Canisters placed by AccuStar Labs - Lebanon, PA Projects - Apartments by signing here Zip Start Date 19/10 91110 1/6/ Attention: Fax: O て Floor State: Zip Structure Type: (circle one or more) Basement - Crawlspace - Slab on Grade - Other Phone: ROOM NAME & NUMBER - LOCATION OF DETECTOR IN - Public School 3010590 Other 3010589 3010588 3010591 State ROOM (indicate duplicates and blanks) Follow Up Test Private Day Care - Private School 1 ransat Residential - Non Residential Day Care in Public School Name of Building/Project or Owner Initial Screening Post Mitigation Trans, t Tack raks, 1 ransit Return canisters for analysis to: Transi rans, 1 Projects Contact Name: 49.3 Company Name: Mc 936 Detector Serial# 410-5 Site Address: **Building Type:** (Circle all that apply) Test Site Info 8955 Test Purpose: 4568 3028953 800-523-4964 200 Send Results To: (Circle One) Address: Phone: City: City:

9

3 6

# 9

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

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

Cor

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EMAIL Results to:

NEHA 10511AL NRSB ARL 0007

Revision 5 4/2015

Rainy Y-N

Yes - No

Normal Humidity Windy Y-N

## TCS INDUSTRIES, INC.

(717) 657-7032

#### RADON GAS DETECTION

www.radondetek.com

4326 Crestview Road, Harrisburg, PA 17112

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

Dear Mr. Moulsdale:

The spike exposure data were:

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

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

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

Avg, Temp. was 71F

Avg. RH was 51%

Elevation was 490 feet above sea level

Sincerely,

Carl H. Distenfeld, CHP

\*

TCS Radon Chamber NRSB CHM 0002

\*



NRPP 10511AL NRSB ARL0007 EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317

Laboratory Report for:

**Property Tested:** 

KCI Technologies

**MCPS** 

936 Ridgebrook Rd

Radon Spike Sample Laboratory Results

Sparks MD 21152

Log Number	Device Number	Test Exposul	re Duration:	Area Tested	Result (pCi/L)
3020102	3029166	04/04/2016 11:10 am	04/06/2016 11:13 a	m Not Indicated	11.9
3020103	3029214	04/04/2016 11:10 am	04/06/2016 11:13 a	m Not Indicated	11.5
3020104	3029217	04/04/2016 11:10 am	04/06/2016 11:13 a	m Not Indicated	10.7
3020105	3029218	04/04/2016 11:10 am	04/06/2016 11:13 a	m Not Indicated	11.3
3020106	3029219	04/04/2016 11:10 am	04/06/2016 11:13 a	m Not Indicated	11.0
3020107	3029220	04/04/2016 11:10 am	04/06/2016 11:13 a	m Not Indicated	10.5

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

Distributed by: KCI Technologies, Inc.

Date Received: 04/07/2016 Date Logged: 04/07/2016 Date Analyzed: 04/07/2016 Date Reported: 04/08/2016

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

Report Reviewed By: \_\_

Report Approved By: Bully A Kole

Carolyn D. Koke, President, AccuStar Labs

Disclaimer:

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

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Radon Device Type Open Face Canister

888-480-8812 www.accustarlabs.com

Send Written Report To:	Report To:	Site Tested:			Contact Information:	nation:
Name	KCI Technologies, Inc	Site Name	MCPS		Contact	Tehsin Aurangabadwala
Address	936 Ridgebrook Road	Address	840 Hansel d	7	Telephone	410-891-1726
Address		Address				
City / Town	Sparks	City / Town	Rocky 16		Technician	
State/Province	State/Province Postal Code MD 21152	State/Province F	State/Province Postal Code MD	20850	Cert. Number	
Report Country	Report Country Baltimore County	Test Country	Montgomery County		Signature	i him My
Email Address	Email Address tehsin@kci.com	Project Number 12146341	12146341			MANS
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Lab Use Only									
Stop Time	11:13an	_				->			
Stop Date mm/dd/yyyy	91/9/4					)			
Start Time	11:10an	_				>			
Start Date	91/4/4					<del>-&gt;</del>			
Name of Room Temp		2	8	J	5	9			
Floor	1	,		)	_	_			
Unit									
Building Number	1		1	1	_	_			
Device Number	3029166	3029214	3029217	3029218	8029219	3029220		-	
Lab Use Only									

1 of 1



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

#### MCPS RADON TESTING

Executive Summary: Stone Mill Elementary School

Date of Test Report:	2/29/2016
Round of Testing:	Initial
	Follow-up
	Post Remediation
# Rooms Tested:	45
# Rooms $\geq$ 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	1.2

### Project Status:

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



#### ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

February 29, 2016

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

Re: Radon Testing Services

KCI Job # 12146341.26

Location: Stone Mill Elementary School

14323 Stonebridge View Drive North Potomac, MD 20878

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 Stone Mill Elementary School, located at 14323 Stonebridge View Drive in North Potomac, Maryland 20878 (subject site).

#### **Scope of Services:**

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

KCI visited the site on February 1, 2016 and deployed fifty-nine (59) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. A floor plan map of the building with the test locations is included as Attachment A of this report.

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

KCI returned to the site on February 4, 2016 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936

Butler Bridge Road, Mills River, North Carolina.

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

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

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

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

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

#### **Results:**

The results of the radon test analysis indicated the following:

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

Notes:

D- Duplicate sample

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

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

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

Mr. Richard Cox February 29, 2016 Page 4

Sincerely,

James M. Moulsdale

James Makelen

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								
	Stone Mill Elementary School							
	Test Period: 02/01/16-02/04/16							
Kit Number	Room / Area	Result						
7732675	ASSIST. PRIN. OF	0.8						
7732618	BSO	1.1						
7732660	COUNSELOR OFFICE	< 0.3						
7732677	CR1	< 0.3						
7732647	* CR10 (Missing)	V 0.3						
7732671	CR11	< 0.3						
7732668	CR12	< 0.3						
7732630	CR13	< 0.3						
7732640	CR14	0.8						
7732633	CR15	< 0.3						
7732639	CR16	0.9						
7732636	CR17	1.2						
7732619	CR18	1.1						
7732631	CR19	0.9						
7732620	CR21	0.9						
7732627	CR23	< 0.3						
7732625	CR29	0.8						
7732676	CR3	< 0.3						
7732621	CR31	0.7						
7732655	CR32	0.6						
7732665	CR34	0.9						
7732679	CR35	0.8						
7732649	CR5	0.6						
7732645	CR6	0.8						
7732648	CR7	0.6						
7732651	CR8	< 0.3						
7732644	CR9	0.7						
7732650	DUAL PURPOSE	1.2						
7732615	GYM	< 0.3						
7732617	GYM	< 0.3						
7732628	GYM	0.8						
7732629	GYM	0.8						
7732659	GYM OFFICE	0.7						
7732682	HEALTH RM	0.6						
7732641	IMC	0.9						
7732663	IMC	0.9						
7732638	IMC COMPUTER	1						
7732642	IMC OFFICE	0.8						
7732680	INSTR MUSIC	< 0.3						
7732678	MAIN OFFICE	0.8						
7732643	MATERIAL PREP	0.9						
7732652	MATH	0.7						
7732616	MPR	0.8						
7732632	MPR	0.6						
7732657	MUSIC RM	1.2						
7732661	NURSES OFFICE	0.5						

Table Note:
\* Missing or Compromised Sample

Radon Testing Results						
Stone Mill Elementary School						
Test Period: 02/01/16-02/04/16						
Kit Number	Room / Area	Result				
7732666	PRINCIPAL OFFICE	< 0.3				
7732623	PV	0.7				
7732656	* TL (Missing)	-				
7732681	WORK RM	< 0.3				

Radon Testing Results Stone Mill Elementary School						
Test Period: 02/01/16-02/04/16						
Kit Number	QC Type	Result				
7732672	D (BSO)	0.7				
7732662	D (CR11)	< 0.3				
7732646	D (MATH)	0.8				
7732658	D (OFFICE WORK RM)	0.6				
7732634	D (TL)	< 0.3				
7732667	FB (CR12)	< 0.3				
7732653	FB (MATH)	< 0.3				
7732664	FB (TL)	< 0.3				
7732247	OB (0)	< 0.3				

# ATTACHMENT C

# Laboratory Analytical Results

Radon test result report for:
STONE MILL ELEMENTARY SCHOOL
MAIN

Kit#	Room Id	Started		Ended	pCi/L	Analyzed
7732247	0	2016-02-01	@ 5:00 pm	2016-02-04 @ 12:00 pm	< 0.3	2016-02-09
7732675	ASSIST. PRIN. OF	2016-02-01	@ 10:00 am	2016-02-04 @ 7:00 am	$0.8 \pm 0.4$	2016-02-09
7732618	BSO	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$1.1 \pm 0.3$	2016-02-08
7732672	BSO	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.7 \pm 0.4$	2016-02-09
7732660	COUNSELOR OFFICE	2016-02-01	@ 10:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732677	CR1	2016-02-01	@ 10:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-08
7732647	CR10	@		@		
7732671	CR11	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-08
7732662	CR11	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732668	CR12	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-08
7732667	CR12	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732630	CR13	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-08
7732640	CR14	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.8 \pm 0.4$	2016-02-09
7732633	CR15	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732639	CR16	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.9 \pm 0.4$	2016-02-09
7732636	CR17	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$1.2 \pm 0.4$	2016-02-09
7732619	CR18	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$1.1 \pm 0.3$	2016-02-08
7732631	CR19	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.9 \pm 0.3$	2016-02-08
7732620	CR21	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.9 \pm 0.4$	2016-02-08
7732627	CR23	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732625	CR29	2016-02-01	@ 12:00 pm	2016-02-04 @ 8:00 am	$0.8 \pm 0.3$	2016-02-08
7732676	CR3	2016-02-01	@ 10:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7732621	CR31	2016-02-01	@ 12:00 pm	2016-02-04 @ 8:00 am	$0.7 \pm 0.3$	2016-02-08
7732655	CR32	2016-02-01	@ 12:00 pm	2016-02-04 @ 8:00 am	$0.6 \pm 0.4$	2016-02-09
7732665	CR34	2016-02-01	@ 12:00 pm	2016-02-04 @ 8:00 am	$0.9 \pm 0.4$	2016-02-09
7732679	CR35	2016-02-01	@ 12:00 pm	2016-02-04 @ 8:00 am	$0.8 \pm 0.4$	2016-02-09
7732649	CR5	2016-02-01	@ 10:00 am	2016-02-04 @ 7:00 am	$0.6 \pm 0.4$	2016-02-09
7732645	CR6	2016-02-01	@ 10:00 am	2016-02-04 @ 7:00 am	$0.8 \pm 0.3$	2016-02-08
7732648	CR7	2016-02-01	@ 10:00 am	2016-02-04 @ 7:00 am	$0.6 \pm 0.3$	2016-02-08
7732651	CR8	2016-02-01	@ 10:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732644	CR9	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.7 \pm 0.3$	2016-02-08
7732650	DUAL PURPOSE	2016-02-01	@ 10:00 am	2016-02-04 @ 7:00 am	$1.2 \pm 0.4$	2016-02-09
7732617	GYM	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-08
7732615	GYM	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732628	GYM	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.8 \pm 0.4$	2016-02-09
7732629	GYM	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.8 \pm 0.4$	2016-02-09
7732659	GYM OFFICE	2016-02-01	@ 11:00 am	2016-02-04 @ 8:00 am	$0.7 \pm 0.4$	2016-02-09

# February LABORATORY ANALYSIS 23, REPORT \*\*

Radon test result report for:
STONE MILL ELEMENTARY SCHOOL
MAIN

Kit#	Room Id	Started	Ended	pCi/L	Analyzed
7732682	HEALTH RM	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.6 \pm 0.4$	2016-02-09
7732641	IMC	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.9 \pm 0.4$	2016-02-09
7732663	IMC	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.9 \pm 0.4$	2016-02-09
7732638	IMC COMPUTER	2016-02-01 @ 11:00 am	2016-02-04 @ 7:00 am	$1.0 \pm 0.4$	2016-02-09
7732642	IMC OFFICE	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.8 \pm 0.4$	2016-02-09
7732680	<b>INSTR MUSIC</b>	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7732678	MAIN OFFICE	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.8 \pm 0.3$	2016-02-08
7732643	MATERIAL PREP	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	$0.9 \pm 0.4$	2016-02-09
7732646	MATH	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.8 \pm 0.4$	2016-02-09
7732652	MATH	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.7 \pm 0.3$	2016-02-09
7732653	MATH	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7732632	MPR	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	$0.6 \pm 0.4$	2016-02-09
7732616	MPR	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	$0.8 \pm 0.4$	2016-02-09
7732657	MUSIC RM	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$1.2 \pm 0.4$	2016-02-09
7732661	NURSES OFFICE	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.5 \pm 0.4$	2016-02-09
7732658	OFFICE WORK RM	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	$0.6 \pm 0.4$	2016-02-09
7732666	PRINCIPAL OFFICE	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7732623	PV	2016-02-01 @ 12:00 pm	2016-02-04 @ 8:00 am	$0.7 \pm 0.4$	2016-02-09
7732656	TL	@	@		
7732634	TL	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-08
7732664	TL	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-08
7732681	WORK RM	2016-02-01 @ 10:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09

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

# February LABORATORY ANALYSIS 23, REPORT \*\*

Radon test result report for:
TRANSIT- PHASE 7, 8, 9
NONE

Rit#   Room Id   Started   Started   PCi/L   Analyzed						
7734946         10         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	Kit#	Room Id	Started	Ended	pCi/L	Analyzed
7734955 11 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734956 12 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734959 13 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734959 14 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734953 15 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734954 16 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734940 17 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 18 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 18 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 20 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 20 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734943 20 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734942 20 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734939 2 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 20 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 21 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 22 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 23 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 23 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 25 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 25 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 29 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 31 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 31 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 4 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3	7734937	1	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734956 12 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734959 13 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734930 14 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734953 15 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734954 16 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734940 17 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 18 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 18 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 2 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734949 2 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734939 2 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734929 2 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734929 2 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734933 22 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 23 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 23 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 23 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734934 25 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734935 27 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734931 30 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734931 30 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734931 30 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734931 30 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734931 31 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 201	7734946	10	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734959         13         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734955	11	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734930 14 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am	7734956	12	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734953 15 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am	7734959	13	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734954         16         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734930	14	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734940         17         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734953	15	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734949         18         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734954	16	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734948         19         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734940	17	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734939         2         2016-02-19 @ 3:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734949	18	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734942         20         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734948	19	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734929         21         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734939	2	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734933         22         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734942	20	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734934         23         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734929	21	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734936         24         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734933	22	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734943         25         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734934	23	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734944         26         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734936	24	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734935         27         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734943	25	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734928         28         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734944	26	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734952         29         2016-02-19 @ 4:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734935	27	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734947         3         2016-02-19 @ 3:00 pm         2016-02-22 @ 11:00 am         < 0.3	7734928	28	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734931       30       2016-02-19 @ 4:00 pm       2016-02-22 @ 11:00 am       < 0.3	7734952	29	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734932       31       2016-02-19 @ 4:00 pm       2016-02-22 @ 11:00 am       < 0.3	7734947	3	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718520       32       2016-02-19 @ 4:00 pm       2016-02-22 @ 11:00 am       < 0.3	7734931	30	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718523       33       2016-02-19 @ 4:00 pm       2016-02-22 @ 11:00 am       < 0.3	7734932	31	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718522       34       2016-02-19 @ 4:00 pm       2016-02-22 @ 11:00 am       < 0.3	7718520	32	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7718521       35       2016-02-19 @ 4:00 pm       2016-02-22 @ 11:00 am       < 0.3	7718523	33	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734945       4       2016-02-19 @ 3:00 pm       2016-02-22 @ 11:00 am       < 0.3	7718522	34	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	
7734960       5       2016-02-19 @ 4:00 pm       2016-02-22 @ 11:00 am       < 0.3	7718521	35	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734958 6 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734951 7 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734957 8 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23	7734945	4	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734951 7 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23 7734957 8 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23		5	1			2016-02-23
7734957 8 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23	7734958	6	•	2016-02-22 @ 11:00 am		2016-02-23
<u>.</u>	7734951	7	•			2016-02-23
7734938 9 2016-02-19 @ 4:00 pm 2016-02-22 @ 11:00 am < 0.3 2016-02-23			•			
	7734938	9	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23

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

# February LABORATORY ANALYSIS 15, REPORT \*\*

## Spike Sample Laboratory Results

Radon test result report for: MCPS

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7718273	101A	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	$6.5 \pm 0.6$	2016-02-04
7718281	102B	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	$6.4 \pm 0.6$	2016-02-04
7718282	103C	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	$6.3 \pm 0.6$	2016-02-04
7718288	104D	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	$6.7 \pm 0.6$	2016-02-04
7718289	105E	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	$6.6 \pm 0.6$	2016-02-04
7718291	106F	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	$6.5 \pm 0.6$	2016-02-04

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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

s Inc. Job Number 173704
pCi/L Rel. Hum 45.9 % Temp. 79.0
Date Start: Date Stop:
Time Start: Time Stop:
Device No.'s:
Date Start: Date Stop:
Time Start: Time Stop:
Device No.'s:
Date Start: Date Stop:
Time Start: Time Stop:
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

## **Radon Test Kit Chain of Custody**

Project Name: MCPS Radon Phase 7 (2-1-2016)

#### Name of School/Facility:

1.	Wyngate E.S.	10. Bethesda Depot	18. Stone Mill E.S.
2.	Seven Locks E.S.	11. Bethesda Trans Depot	19. Strawberry Knoll E.S.
3.	Takoma Park M.S.	12. Sligo M.S.	20. Shady Grove M.S.
4.	Somerset E.S.	13. Stonegate E.S.	21. Washington Grove E.S.
5.	Silver Spring Int. M.S.	14. Randolph Transportation	22. Sherwood E.S.
6.	Sligo Creek E.S.	15. Earl B. Wood M.S.	23. Woodfield E.S.
7.	Tilden M.S.	16. Sargent Shriver E.S.	24. Taylor Learning Center
8.	Tilden Center	17. Thomas Wooten H.S.	25. Kingsley Wilderness

9. Bethesda Annex

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	Date	Initials
Radon Test Kits Deployed	2/1/16	M
Radon Test Kits Collected	2/4/16	JM
Radon Test Kits Shipped to Lab*	2/4/16	UM
Radon Test Kits Received by Lab*	2/8/16	JM

<sup>\*</sup>All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759



### Engineers • Planners • Scientists • Construction Managers

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### **Radon Test Kit Chain of Custody**

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

#### Name of School/Facility:

4	_			_	
7	( )	ncor	'M'	Or	t ar

- 2. Lynnbrook Center
- 3. Carver (CESC)
- 4. Spring Mill (area 1 Office)
- 5. Wheaton H.S
- 6. Montrose Center
- 7. West Farm Trans Depot

- 8. Food & Nutritional Services
- 9. Fairland Center
- 10. Redland M.S. (retest)
- 11. Clarksburg Trans Depot
- 12. Clarksburg Main Depot
- 13. Clarksburg E.S.

	Date	Initials
Radon Test Kits Deployed	2/2/16	JM
Radon Test Kits Collected	2/5/16	JM
Radon Test Kits Shipped to Lab*	2/5/16	UM
Radon Test Kits Received by Lab*	2/9/16	JU

<sup>\*</sup>All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759