



MCPS RADON TESTING

Executive Summary: Sherwood Elementary School

Date of Test Report:	2/26/2016
Round of Testing:	Initial Follow-up Post Remediation
# Rooms Tested:	59
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	1.4

Project Status:

Initial testing completed; no further action at this time.



February 26, 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: Sherwood Elementary School
1401 Olney-Sandy Spring Road
Sandy Spring, MD 20860

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 Sherwood Elementary School, located at 1401 Olney-Sandy Spring Road in Sandy Spring, Maryland 20860 (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 seventy-four (74) 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 pCi/L	none	n/a
< 4.0 pCi/L	See Attachment 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.

Sincerely,



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

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

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

Radon Testing Results		
Sherwood Elementary School		
Test Period: 02/01/16-02/04/16		
Kit Number	Room / Area	Result
7730654	ALPRM	< 0.3
7730655	ALPRM	0.7
7730672	ASPRM	0.9
7730653	CLASS RM 105	0.8
7730604	CLASS RM 109	< 0.3
7730657	CLASS RM 116	1.4
7730606	CLASS RM 129	< 0.3
7730607	CLASS RM 130	1.2
7730608	CLASS RM 131	0.9
7730609	CLASS RM 132	< 0.3
7730611	CLASS RM 133	< 0.3
7730612	CLASS RM 134	0.5
7730619	CLASS RM 135	< 0.3
7730620	CLASS RM 135A	< 0.3
7730622	CLASS RM 138	1.3
7730624	CLASS RM 139	0.8
7730652	CLASS RM 140	0.7
7730643	CLASS RM 140 A	< 0.3
7730649	CLASS RM 144	0.6
7730647	CLASS RM 145	0.9
7730646	CLASS RM 146	0.9
7730648	CLASS RM 147	0.9
7730625	CLASS RM 155	0.8
7730626	CLASS RM 156	0.6
7730627	CLASS RM 158	< 0.3
7730628	CLASS RM 159	0.9
7730629	CLASS RM 160	< 0.3
7730631	CLASS RM 161	1.0
7730636	CLASS RM 168	1.1
7730644	CLASS RM 175	1.0
7730645	CLASS RM 177	1.0
7730633	CLASS RM 206	< 0.3
7730634	CLASS RM 208	< 0.3
7730664	CON RM 100 E	0.9
7730601	GYM	0.7
7730602	GYM	0.7
7730666	HEALTH RM 100 H	< 0.3
7730667	HEALTH RM 100H-A	0.8
7730668	HEALTH RM 100H-B	0.7
7730669	MAIN OFFICE	< 0.3
7730613	MEDIA CENTER 149	1.1
7730614	MEDIA CENTER 149	0.8
7730663	ML-085	0.7
7730615	OFFICE 103	1.1
7730605	OFFICE 107	< 0.3
7730658	OFFICE 118	0.7

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Sherwood Elementary School		
Test Period: 02/01/16-02/04/16		
Kit Number	Room / Area	Result
7730621	OFFICE 136	< 0.3
7730617	OFFICE 142	0.8
7730651	OFFICE 148	1.0
7730618	OFFICE 149 A	< 0.3
7730616	OFFICE 149 B	0.7
7730635	OFFICE 167	1.3
7730637	OFFICE 169	0.8
7730638	OFFICE 171	0.6
7730639	OFFICE 172	0.6
7730641	OFFICE 173	0.7
7730642	OFFICE 174	0.8
7730603	PE OFFICE	< 0.3
7730671	PRM	0.7
7730660	STAFF LOUNGE 120	< 0.3
7730656	STAGE	< 0.3
7730662	WORK RM 102	0.7

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Sherwood Elementary School		
Test Period: 02/01/16-02/04/16		
Kit Number	QC Type	Result
7730673	D (ASPRM)	< 0.3
7730610	D (CLASS RM 132)	< 0.3
7730623	D (CLASS RM 138)	0.7
7730650	D (CLASS RM 144)	0.6
7730630	D (CLASS RM 160)	0.6
7730670	D (MAIN OFFICE)	0.6
7730640	D (OFFICE 172)	0.8
7730661	D (STAFF LOUNGE 120)	0.6
7730632	FB (CLASS RM 161)	< 0.3
7730665	FB (CON RM 100 E)	< 0.3
7730659	FB (OFFICE 118)	< 0.3
7730696	OB (0)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

February 23, 2016
LABORATORY ANALYSIS REPORT **

Radon test result report for:
**SHERWOOD ELEMENTARY SCHOOL
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7730696	0	2016-02-01 @ 3:00 pm	2016-02-04 @ 10:00 am	< 0.3	2016-02-09
7730654	ALPRM	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730655	ALPRM	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.7 ± 0.4	2016-02-09
7730672	ASPRM	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.9 ± 0.4	2016-02-09
7730673	ASPRM	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730653	CLASS RM 105	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.8 ± 0.4	2016-02-09
7730604	CLASS RM 109	2016-02-01 @ 8:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730657	CLASS RM 116	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	1.4 ± 0.4	2016-02-09
7730606	CLASS RM 129	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730607	CLASS RM 130	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	1.2 ± 0.4	2016-02-09
7730608	CLASS RM 131	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.9 ± 0.4	2016-02-09
7730609	CLASS RM 132	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730610	CLASS RM 132	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730611	CLASS RM 133	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730612	CLASS RM 134	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.5 ± 0.3	2016-02-09
7730619	CLASS RM 135	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730620	CLASS RM 135A	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730622	CLASS RM 138	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	1.3 ± 0.4	2016-02-08
7730623	CLASS RM 138	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.7 ± 0.4	2016-02-09
7730624	CLASS RM 139	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.8 ± 0.4	2016-02-09
7730652	CLASS RM 140	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.7 ± 0.4	2016-02-09
7730643	CLASS RM 140 A	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730649	CLASS RM 144	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.6 ± 0.4	2016-02-09
7730650	CLASS RM 144	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.6 ± 0.4	2016-02-09
7730647	CLASS RM 145	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.9 ± 0.4	2016-02-09
7730646	CLASS RM 146	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.9 ± 0.4	2016-02-09
7730648	CLASS RM 147	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.9 ± 0.4	2016-02-09
7730625	CLASS RM 155	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.8 ± 0.4	2016-02-09
7730626	CLASS RM 156	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.6 ± 0.3	2016-02-09
7730627	CLASS RM 158	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730628	CLASS RM 159	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.9 ± 0.4	2016-02-09
7730629	CLASS RM 160	2016-02-01 @ 9:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730630	CLASS RM 160	2016-02-01 @ 9:00 am	2016-02-04 @ 8:00 am	0.6 ± 0.3	2016-02-09
7730631	CLASS RM 161	2016-02-01 @ 9:00 am	2016-02-04 @ 8:00 am	1.0 ± 0.4	2016-02-09
7730632	CLASS RM 161	2016-02-01 @ 9:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730636	CLASS RM 168	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	1.1 ± 0.4	2016-02-09
7730644	CLASS RM 175	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	1.0 ± 0.4	2016-02-09

February 23, 2016
LABORATORY ANALYSIS REPORT **

Radon test result report for:
**SHERWOOD ELEMENTARY SCHOOL
 MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7730645	CLASS RM 177	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	1.0 ± 0.4	2016-02-09
7730633	CLASS RM 206	2016-02-01 @ 9:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730634	CLASS RM 208	2016-02-01 @ 9:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730664	CON RM 100 E	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.9 ± 0.4	2016-02-09
7730665	CON RM 100 E	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730601	GYM	2016-02-01 @ 8:00 am	2016-02-04 @ 7:00 am	0.7 ± 0.3	2016-02-09
7730602	GYM	2016-02-01 @ 8:00 am	2016-02-04 @ 7:00 am	0.7 ± 0.4	2016-02-09
7730666	HEALTH RM 100 H	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730667	HEALTH RM 100H-A	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.8 ± 0.4	2016-02-09
7730669	MAIN OFFICE	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730670	MAIN OFFICE	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.6 ± 0.4	2016-02-09
7730613	MEDIA CENTER 149	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	1.1 ± 0.4	2016-02-09
7730614	MEDIA CENTER 149	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.8 ± 0.4	2016-02-09
7730615	OFFICE 103	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	1.1 ± 0.4	2016-02-09
7730605	OFFICE 107	2016-02-01 @ 8:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730658	OFFICE 118	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.7 ± 0.4	2016-02-09
7730659	OFFICE 118	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730621	OFFICE 136	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730617	OFFICE 142	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.8 ± 0.4	2016-02-09
7730651	OFFICE 148	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	1.0 ± 0.4	2016-02-09
7730618	OFFICE 149 A	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730616	OFFICE 149 B	2016-02-01 @ 9:00 am	2016-02-04 @ 7:00 am	0.7 ± 0.3	2016-02-08
7730635	OFFICE 167	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	1.3 ± 0.4	2016-02-09
7730637	OFFICE 169	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.8 ± 0.4	2016-02-09
7730638	OFFICE 171	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.6 ± 0.3	2016-02-08
7730639	OFFICE 172	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.6 ± 0.4	2016-02-09
7730640	OFFICE 172	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.8 ± 0.4	2016-02-09
7730641	OFFICE 173	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.7 ± 0.4	2016-02-09
7730642	OFFICE 174	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	0.8 ± 0.4	2016-02-09
7730603	PE OFFICE	2016-02-01 @ 8:00 am	2016-02-04 @ 7:00 am	< 0.3	2016-02-09
7730671	PRM	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.7 ± 0.3	2016-02-08
7730660	STAFF LOUNGE 120	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730661	STAFF LOUNGE 120	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.6 ± 0.4	2016-02-09
7730656	STAGE	2016-02-01 @ 10:00 am	2016-02-04 @ 8:00 am	< 0.3	2016-02-09
7730662	WORK RM 102	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.7 ± 0.4	2016-02-09

February
23,
2016

****LABORATORY ANALYSIS
REPORT ****

Radon test result report for:
**SHERWOOD ELEMENTARY SCHOOL
PORTABLE**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7730668	HEALTH RM 100H-B	2016-02-01 @ 11:00 am	2016-02-04 @ 8:0 am	0.7 ± 0.4	2016-02-09
7730663	ML-085	2016-02-01 @ 11:00 am	2016-02-04 @ 8:00 am	0.7 ± 0.4	2016-02-09

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

February 23, 2016
LABORATORY ANALYSIS REPORT

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

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7734937	1	2016-02-19 @ 3:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
7734946	10	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23
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
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
7734948	19	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	2016-02-23
7734942	20	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	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
7734936	24	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	2016-02-23
7734944	26	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
7734928	28	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	2016-02-23
7734947	3	2016-02-19 @ 3:00 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
7734932	31	2016-02-19 @ 4:00 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	2016-02-23
7718523	33	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	2016-02-23
7718521	35	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
7734960	5	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
7734938	9	2016-02-19 @ 4:00 pm	2016-02-22 @ 11:00 am	< 0.3	2016-02-23

February
15,
2016

****LABORATORY ANALYSIS
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 ± 0.6	2016-02-04
7718281	102B	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.4 ± 0.6	2016-02-04
7718282	103C	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.3 ± 0.6	2016-02-04
7718288	104D	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.7 ± 0.6	2016-02-04
7718289	105E	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.6 ± 0.6	2016-02-04
7718291	106F	2016-01-30 @ 9:00 am	2016-02-01 @ 9:00 am	6.5 ± 0.6	2016-02-04

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

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCF Technologies Inc. Job Number 173704

NOMINAL Conditions: Radon Conc 5.9 pCi/L Rel. Hum 45.9 % Temp. 79.0 F

Date Start: 11/30/16 Date Stop: 2/1/16 Date Start: _____ Date Stop: _____

Time Start: 0926 Time Stop: 0926 Time Start: _____ Time Stop: _____

Device No.'s: (6) Char. Bags - Device No.'s: _____

7718281, 7718282, 7718291, _____

7718288, 7718289, 7718273 _____

ε3 Left

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

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

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

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

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

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

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



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 | | |

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

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



Radon Test Kit Chain of Custody

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

Name of School/Facility:

- | | |
|--------------------------------|--------------------------------|
| 1. Concord Center | 8. Food & Nutritional Services |
| 2. Lynnbrook Center | 9. Fairland Center |
| 3. Carver (CESC) | 10. Redland M.S. (retest) |
| 4. Spring Mill (area 1 Office) | 11. Clarksburg Trans Depot |
| 5. Wheaton H.S | 12. Clarksburg Main Depot |
| 6. Montrose Center | 13. Clarksburg E.S. |
| 7. West Farm Trans Depot | |

	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	JM
Radon Test Kits Received by Lab*	2/9/16	JM

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