



MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Facilities Maintenance Depot – Building A MCPS
Date of Test Report	2/16/2023
Round of Testing	Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility
# Rooms Tested	81
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	1.4 pCi/L

Project Status:

1. 5-Year retesting completed.



February 16, 2023

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

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

Location: Facilities Maintenance Depot – Building A MCPS
8301 Turkey Thicket Drive
Gaithersburg, MD 20879

Dear Mr. Croyle:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Facilities Maintenance Depot – Building A MCPS, located at 8301 Turkey Thicket Dr. Gaithersburg, MD 20879 (subject site).

Scope of Services:

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

KCI visited the site on January 9, 2023 and deployed ninety-four (94) activated charcoal (AC) radon test kits. KCI deployed radon test kits in all frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

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

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

KCI returned to the site on January 12, 2023 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Accustar Labs - MA for analysis by gamma-ray spectroscopy.

Accustar Labs - MA is a NRSB certified analytical laboratory for radon analysis (certification #ARL0017) located at 2 Saber Way, Ward Hill, MA 01835.

Evaluation of Testing Conditions:

These tests represent:

- Follow up to initial testing.

These tests were conducted to:

- Evaluate radon concentration levels at the facility.

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

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

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

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate temperatures ranged from the 26°F to the mid 56°F. Maximum sustained winds ranged from 0-21 miles per hour. Average humidity was around 68% with .09 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

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

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

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

Sincerely,



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

Attachments: A- Floor Plan with Test Locations
 B- Table 1-3, Radon Test Summary Spreadsheets
 C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Check, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results		
Facilities Maintenance Depot - Building A		
Test Period: 01/09/2023 - 01/12/2023		
Kit Number	Room / Area	Result
11633262	1046 GARAGE OFFICE	0.7
11633247	A1003	< 0.3
11633241	A1004	< 0.3
11633254	A1005	< 0.3
11633239	A1007	0.8
11633246	A1008	0.6
11633232	A1009	0.9
11633209	A1010	0.8
11633238	A1010	0.7
11633233	A1011	0.9
11633225	A1012	< 0.3
11633237	A1013	0.6
11633208	A1014	0.5
11633210	A1015	0.7
11633217	A1017	0.6
11633224	A1018	0.6
11633231	A1018	0.6
11633213	A1019	0.8
11633240	A1021	0.7
11633202	A1022	0.7
11633230	A1023	1.0
11633211	A1024	< 0.3
11633203	A1025J	0.8
11633204	A1025J	0.7
11633206	A1027	0.7
11633207	A1027	< 0.3
11633223	A1029	0.5
11633221	A1031	1.0
11633222	A1033	0.9
11633215	A1035	0.5
11633229	A1036	< 0.3
11633253	A1036	< 0.3
11633244	A1036A	< 0.3
11633251	A1036A	0.6
11633228	A1036B	0.6
11633258	A1036D	< 0.3
11633252	A1036E	< 0.3
11633257	A1036F	0.9
11633260	A1036G	0.8
11633261	A1036H	0.7
11633227	A1036I	0.9
11633259	A1036I	0.7

Table 1- Radon Testing Results		
Facilities Maintenance Depot - Building A		
Test Period: 01/09/2023 - 01/12/2023		
Kit Number	Room / Area	Result
11633220	A1036J	< 0.3
11633243	A1036K	< 0.3
11633212	A1036L	< 0.3
11633250	A1036N	< 0.3
11633249	A1036P	0.5
11633216	A1037	0.8
11633236	A1038	0.8
11633205	A1039	0.6
11633255	A1040	1.1
11633219	A1042E	0.6
11633245	A1042G	< 0.3
11633256	A1042G	< 0.3
11633275	A1042H	< 0.3
11633276	A1042H	< 0.3
11633214	A1043	1.1
11633226	A1043A	0.9
11633235	A1043D	1.2
11633218	A1044	< 0.3
11633267	A1046	1.0
11633268	A1046	0.9
11633269	A1046A	0.9
11633277	A1046B	1.6
11633270	A1046C	0.8
11633242	A1047	0.5
11633234	A1048A	1.4
11633274	A1050	1.0
11633295	A1050	0.7
11633264	A1050A	0.7
11633278	A1050B	0.6
11633279	A1052	0.7
11633271	A1052 OFFICE	0.6
11633273	A1054	0.9
11633299	A1054	< 0.3
11633289	A1054C	0.7
11633280	A1054F	< 0.3
11633300	A1054F	< 0.3
11633266	A1054G	< 0.3
11633282	A1054G	0.6
11633290	A1056	0.7
11633272	A1056A	< 0.3
11633296	A1059	1.0
11633298	A1059	0.7

Table 1- Radon Testing Results		
Facilities Maintenance Depot - Building A		
Test Period: 01/09/2023 - 01/12/2023		
Kit Number	Room / Area	Result
11633287	A1060	< 0.3
11633294	A1060	0.6
11633263	A1060B	0.8
11633297	A1060B	< 0.3
11633286	A1060C	0.9
11633201	CUBICLE AREA	0.9
11633292	D101 OFFICE	0.5
11633248	RECEPTION	0.7
11633283	WAREHOUSE D	0.6
11633284	WAREHOUSE D	0.7

Table 2- Radon Testing Results			
Facilities Maintenance Depot - Building A			
Test Period: 01/09/23 - 01/12/23			
Kit Number	QC Type	Room / Area	Result
11633209	D	A1010	0.8
11633224	D	A1018	0.6
11633203	D	A1025J	0.8
11633207	FB	A1027	< 0.3
11633253	D	A1036	< 0.3
11633244	FB	A1036A	< 0.3
11633227	D	A1036I	0.9
11633245	D	A1042G	< 0.3
11633276	FB	A1042H	< 0.3
11633300	FB	A1054F	< 0.3
11633282	D	A1054G	0.6
11633296	D	A1059	1.0
11633297	D	A1060B	< 0.3
11285160	OB	OFFICE BLANK	< 0.3
11285167	TB	TRAVEL BLANK	< 0.3

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11633262	1046 GARAGE OFFICE	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633247	A1003	2023-01-09 @ 8:00 am	2023-01-12 @ 8:00 am	< 0.3	2023-01-16
11633241	A1004	2023-01-09 @ 8:00 am	2023-01-12 @ 8:00 am	< 0.3	2023-01-16
11633254	A1005	2023-01-09 @ 9:00 am	2023-01-12 @ 8:00 am	< 0.3	2023-01-16
11633239	A1007	2023-01-09 @ 9:00 am	2023-01-12 @ 8:00 am	0.8 ± 0.4	2023-01-16
11633246	A1008	2023-01-09 @ 9:00 am	2023-01-12 @ 8:00 am	0.6 ± 0.4	2023-01-16
11633232	A1009	2023-01-09 @ 9:00 am	2023-01-12 @ 8:00 am	0.9 ± 0.4	2023-01-16
11633238	A1010	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633209	A1010	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.8 ± 0.3	2023-01-16
11633233	A1011	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.4	2023-01-16
11633225	A1012	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633237	A1013	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.3	2023-01-16
11633208	A1014	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.5 ± 0.4	2023-01-16
11633210	A1015	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633217	A1017	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.3	2023-01-16
11633231	A1018	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.3	2023-01-16
11633224	A1018	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.3	2023-01-16
11633213	A1019	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.8 ± 0.4	2023-01-16
11633240	A1021	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633202	A1022	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633230	A1023	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	1.0 ± 0.4	2023-01-16
11633211	A1024	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633204	A1025J	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633203	A1025J	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.8 ± 0.4	2023-01-16
11633207	A1027	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633206	A1027	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633223	A1029	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.5 ± 0.4	2023-01-16
11633221	A1031	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	1.0 ± 0.4	2023-01-16
11633222	A1033	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.3	2023-01-16
11633215	A1035	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.5 ± 0.4	2023-01-16
11633229	A1036	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633253	A1036	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633251	A1036A	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.3	2023-01-16
11633244	A1036A	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633228	A1036B	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.3	2023-01-16
11633258	A1036D	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633252	A1036E	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11633257	A1036F	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.4	2023-01-16
11633260	A1036G	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.8 ± 0.3	2023-01-16
11633261	A1036H	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633227	A1036I	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.4	2023-01-16
11633259	A1036I	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633220	A1036J	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633243	A1036K	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633212	A1036L	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633250	A1036N	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633249	A1036P	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.5 ± 0.4	2023-01-16
11633216	A1037	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.8 ± 0.4	2023-01-16
11633236	A1038	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.8 ± 0.3	2023-01-16
11633205	A1039	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.4	2023-01-16
11633255	A1040	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	1.1 ± 0.4	2023-01-16
11633219	A1042E	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.6 ± 0.4	2023-01-16
11633256	A1042G	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633245	A1042G	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633275	A1042H	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633276	A1042H	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633214	A1043	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	1.1 ± 0.4	2023-01-16
11633226	A1043A	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.4	2023-01-16
11633235	A1043D	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	1.2 ± 0.4	2023-01-16
11633218	A1044	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	< 0.3	2023-01-16
11633267	A1046	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	1.0 ± 0.4	2023-01-16
11633268	A1046	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.4	2023-01-16
11633269	A1046A	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.4	2023-01-16
11633277	A1046B	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	1.6 ± 0.4	2023-01-16
11633270	A1046C	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.8 ± 0.4	2023-01-16
11633242	A1047	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.5 ± 0.3	2023-01-16
11633234	A1048A	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	1.4 ± 0.4	2023-01-16
11633274	A1050	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	1.0 ± 0.3	2023-01-16
11633295	A1050	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.7 ± 0.3	2023-01-16
11633264	A1050A	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.7 ± 0.3	2023-01-16
11633278	A1050B	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.6 ± 0.3	2023-01-16
11633279	A1052	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.7 ± 0.4	2023-01-16
11633271	A1052 OFFICE	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.6 ± 0.3	2023-01-16
11633273	A1054	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.9 ± 0.4	2023-01-16

Radon test result report for:

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
11633299	A1054	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	< 0.3	2023-01-16
11633289	A1054C	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.7 ± 0.4	2023-01-16
11633300	A1054F	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	< 0.3	2023-01-16
11633280	A1054F	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	< 0.3	2023-01-16
11633266	A1054G	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	< 0.3	2023-01-16
11633282	A1054G	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.6 ± 0.3	2023-01-16
11633290	A1056	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	0.7 ± 0.3	2023-01-16
11633272	A1056A	2023-01-09 @ 10:00 am	2023-01-12 @ 10:00 am	< 0.3	2023-01-16
11633298	A1059	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	0.7 ± 0.4	2023-01-16
11633296	A1059	2023-01-09 @ 10:00 am	2023-01-12 @ 9:00 am	1.0 ± 0.4	2023-01-16
11633294	A1060	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	0.6 ± 0.3	2023-01-16
11633287	A1060	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	< 0.3	2023-01-16
11633297	A1060B	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	< 0.3	2023-01-16
11633263	A1060B	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	0.8 ± 0.4	2023-01-16
11633286	A1060C	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	0.9 ± 0.4	2023-01-16
11633201	CUBICLE AREA	2023-01-09 @ 9:00 am	2023-01-12 @ 9:00 am	0.9 ± 0.4	2023-01-16
11633292	D101 OFFICE	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	0.5 ± 0.3	2023-01-16
11633248	RECEPTION	2023-01-09 @ 8:00 am	2023-01-12 @ 8:00 am	0.7 ± 0.4	2023-01-16
11633284	WAREHOUSE D	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	0.7 ± 0.4	2023-01-16
11633283	WAREHOUSE D	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	0.6 ± 0.4	2023-01-16
11633283	WAREHOUSE D	2023-01-09 @ 11:00 am	2023-01-12 @ 10:00 am	0.6 ± 0.4	2023-01-16

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KC1 TECHNOLOGIES, INC Job Number 208343

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

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

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

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

11285109, 11285110, 11285101

THRU 11285103

BY LEFT

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

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

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

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

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

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

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

December 29, 2022

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

OFFICE

MAIN

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

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Week 1 January Schools

Name of Schools:

1. Diamond ES
2. Lakelands Park MS
3. Quince Orchard HS
4. Facilities Maintenance Depot – Building A MCPS
5. Facilities Maintenance Depot – Building B MCPS
6. Food and Nutrition Services
7. Hadley Farms
8. Goshen ES
9. Forest Knolls ES

	Date	Initials
Radon Test Kits Deployed	01/09/2023	BMM
Radon Test Kits Collected	01/12/2023	BMM
Radon Test Kits Shipped to Lab*	01/12/2023	BMM
Radon Test Kits Received by Lab*	01/17/2023	BMM

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



MCPS RADON TESTING - EXECUTIVE SUMMARY

Site Name	FMD - Facilities Maintenance Depot
Date of Report	February 2, 2018
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	62
# Rooms \geq 4.0 pCi/L	0
Lowest Value	< 0.3 pCi/L
Highest Value	1.1 pCi/L

Current Project Status at this time: Testing Completed; no further action at this time.



February 2, 2018

Mr. Richard Cox, MS
Team Leader
Montgomery County Public Schools
Division of Maintenance
Rockville, Maryland 20855

Re: Radon Testing Services

KCI Job #1214694182

Location: FMD - Facilities Maintenance Depot

8301 Turkey Thicket Drive
Gaithersburg, Maryland 20879

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 FMD - Facilities Maintenance Depot, located at 8301 Turkey Thicket Drive in Gaithersburg, Maryland 20879 (subject site).

SCOPE OF SERVICES

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

KCI visited the site on December 4, 2017 and deployed seventy-five (75) 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. KCI conducted radon testing only in the MCPS occupied portion of the building.

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 December 7, 2017 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:

- 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 high-20s to mid-40s and high temperatures ranged from the low-40s to mid-50s. Maximum sustained winds ranged from 12-17 miles per hour. Average humidity was around 65%. 0.16 Inches of precipitation was recorded during the testing period.

RESULTS

The sampling locations, field observations, 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). Missing/compromised tests, missed rooms, and locked rooms are listed on Table 3 (Attachment B). The laboratory

analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

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

Quality Control Samples	
Results of Blank Canisters:	The field blanks, office blank, 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,



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

Attachments:

B- Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

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		
Facility Maintenance Depot-Building A		
Test Period: 12/04/17-12/07/17		
Kit Number	Room / Area	Result
7979103	1036	0.6
7977895	1038	0.7
7977891	A1002	1.1
7977892	A1002	0.8
7977887	A1003	< 0.3
7977875	A1005	0.7
7977878	A1007	< 0.3
7977879	A1007	0.8
7977873	A1009	0.7
7977884	A1010	0.9
7977886	A1011	0.6
7977881	A1012	< 0.3
7977885	A1013	< 0.3
7977876	A1014	0.7
7979130	A1015	< 0.3
7979129	A1017	0.7
7977877	A1019	0.6
7977869	A1021	< 0.3
7977867	A1022	< 0.3
7977882	A1023	0.7
7977894	A1025J	< 0.3
7979121	A1027	0.8
7979122	A1029	0.8
7977868	A1031	0.7
7977861	A1033	< 0.3
7977862	A1035	< 0.3
7975803	A1036	< 0.3
7975835	A1036	< 0.3
7979104	A1036A	0.5
7977899	A1036B	0.9
7977896	A1036D	< 0.3
7977897	A1036E	< 0.3
7977898	A1036F	0.6
7977900	A1036G	0.7
7979118	A1036H	0.9
7979109	A1036I	0.9
7979110	A1036J	< 0.3
7979117	A1036K	< 0.3
7979101	A1036L	< 0.3
7979102	A1036M	0.8
7977883	A1037	1.0
7979105	A1038	< 0.3
7977890	A1039	0.8
7979114	A1040	< 0.3
7979111	A1042	< 0.3
7979112	A1042E	0.7

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Facility Maintenance Depot		
Test Period: 12/04/17-12/07/17		
Kit Number	Room / Area	Result
7979106	A1042G	< 0.3
7978200	A1042H	< 0.3
7979108	A1043	0.7
7979115	A1043A	0.5
7979107	A1043C	< 0.3
7979113	A1043D	0.8
7979116	A1047	0.5
7975816	A1050	< 0.3
7975810	A1050	< 0.3
7975812	A1050A	0.6
7975829	A1054	0.8
7975802	A1054	1.0
7975830	A1054E	< 0.3
7975814	A1054F	0.6
7975809	A1054G	< 0.3
7975817	A1056	0.7
7975873	A1056A	< 0.3
7975807	A1059	1.1
7975874	A1060	< 0.3
7977888	MAIN OFFICE	< 0.3
7977889	MAIN OFFICE 2	< 0.3

Table Note:

* Missing or Compromised Sample

Radon Testing Results		
Facility Maintenance Depot - Building A		
Test Period: 12/04/17-12/07/17		
Kit Number	QC Type	Result
7977893	D (A1003)	< 0.3
7977874	D (A1009)	0.7
7975818	D (A1022)	0.7
7975833	D (A1036K)	0.6
7977880	FB (A1009)	< 0.3
7975834	FB (A1022)	< 0.3
7975808	FB (A1050)	< 0.3
7978199	OB (OB)	< 0.3

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:

**FACILITY MAINTENANCE DEPOT
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7977892	A1002	2017-12-04 @ 1:00 pm	2017-12-07 @ 12:00 pm	0.8 ± 0.4	2017-12-12
7977891	A1002	2017-12-04 @ 1:00 pm	2017-12-07 @ 12:00 pm	1.1 ± 0.4	2017-12-12
7977887	A1003	2017-12-04 @ 1:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-11
7977893	A1003	2017-12-04 @ 1:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-11
7977875	A1005	2017-12-04 @ 1:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.3	2017-12-11
7977878	A1007	2017-12-04 @ 1:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-12
7977879	A1007	2017-12-04 @ 1:00 pm	2017-12-07 @ 11:00 am	0.8 ± 0.4	2017-12-12
7977873	A1009	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.3	2017-12-11
7977874	A1009	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.3	2017-12-11
7977880	A1009	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7977884	A1010	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	0.9 ± 0.4	2017-12-11
7977886	A1011	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	0.6 ± 0.4	2017-12-12
7977881	A1012	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7977885	A1013	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-11
7977876	A1014	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.4	2017-12-11
7979130	A1015	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-12
7979129	A1017	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	0.7 ± 0.3	2017-12-11
7977877	A1019	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	0.6 ± 0.3	2017-12-11
7977869	A1021	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975818	A1022	2017-12-04 @ 4:00 pm	2017-12-07 @ 12:00 pm	0.7 ± 0.4	2017-12-12
7975834	A1022	2017-12-04 @ 4:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-12
7977867	A1022	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-12
7977882	A1023	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	0.7 ± 0.4	2017-12-12
7977894	A1025J	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-12
7979121	A1027	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	0.8 ± 0.4	2017-12-12
7979122	A1029	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	0.8 ± 0.4	2017-12-11
7977868	A1031	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.3	2017-12-11
7977861	A1033	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7977862	A1035	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-11
7979103	1036	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.6 ± 0.3	2017-12-11
7975803	A1036	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-12
7975835	A1036	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-12
7979104	A1036A	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.5 ± 0.3	2017-12-11
7977899	A1036B	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.9 ± 0.3	2017-12-11
7977896	A1036D	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7977897	A1036E	2017-12-04 @ 3:00 pm	2017-12-07 @ 12:00 pm	< 0.3	2017-12-12
7977898	A1036F	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.6 ± 0.3	2017-12-11

Radon test result report for:

**FACILITY MAINTENANCE DEPOT
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7977900	A1036G	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.4	2017-12-12
7979118	A1036H	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.9 ± 0.4	2017-12-12
7979109	A1036I	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.9 ± 0.4	2017-12-12
7979110	A1036J	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7979117	A1036K	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975833	A1036K	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	0.6 ± 0.4	2017-12-12
7979101	A1036L	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-12
7979102	A1036M	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.8 ± 0.4	2017-12-11
7977883	A1037	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	1.0 ± 0.4	2017-12-12
7979105	A1038	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7977895	1038	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.4	2017-12-12
7977890	A1039	2017-12-04 @ 2:00 pm	2017-12-07 @ 12:00 pm	0.8 ± 0.4	2017-12-12
7979114	A1040	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7979111	A1042	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7979112	A1042E	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.4	2017-12-12
7979106	A1042G	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7978200	A1042H	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7979108	A1043	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.4	2017-12-11
7979115	A1043A	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.5 ± 0.4	2017-12-11
7979107	A1043C	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7979113	A1043D	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.8 ± 0.4	2017-12-12
7979116	A1047	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	0.5 ± 0.4	2017-12-11
7975810	A1050	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975816	A1050	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975808	A1050	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975812	A1050A	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	0.6 ± 0.4	2017-12-12
7975829	A1054	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	0.8 ± 0.4	2017-12-11
7975802	A1054	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	1.0 ± 0.4	2017-12-12
7975830	A1054E	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975814	A1054F	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	0.6 ± 0.3	2017-12-11
7975809	A1054G	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975817	A1056	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	0.7 ± 0.4	2017-12-12
7975873	A1056A	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7975807	A1059	2017-12-04 @ 3:00 pm	2017-12-07 @ 11:00 am	1.1 ± 0.4	2017-12-12
7975874	A1060	2017-12-04 @ 4:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11
7977888	MAIN OFFICE	2017-12-04 @ 1:00 pm	2017-12-07 @ 10:00 am	< 0.3	2017-12-12
7977889	MAIN OFFICE 2	2017-12-04 @ 2:00 pm	2017-12-07 @ 11:00 am	< 0.3	2017-12-11

December 29, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**FACILITY MAINTENANCE DEPOT
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7978199	OB	2017-12-04 @ 3:00 pm	2017-12-07 @ 3:00 pm	< 0.3	2017-12-12

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



Radon Test Kit Chain of Custody

Project Name: MCPS Radon Phase

Names of Schools:

1. Brooke Grove Elementary School
2. Brown Station Elementary School
3. Diamond Elementary School Addition
4. Dufief Elementary School
5. Emory Grove Center
6. Fields Road Elementary School
7. Facilities Maintenance Depot
8. Forest Oak Middle School
9. Francis Scott Key Middle School
10. Gaithersburg Elementary School
11. Gaithersburg Middle School
12. Germantown Elementary School
13. Greenwood Elementary School
14. Jones Lane Elementary School
14. Newport Mill Middle School
15. Oakview Elementary School
16. Quince Orchard High School
17. Robert Frost Middle School
18. Rosa Parks Middle School
19. South Lake Elementary School

	Date	Initials
Radon Test Kits Deployed	12/04/17	JM
Radon Test Kits Collected	12/07/17	JM
Radon Test Kits Shipped to Lab*	12/07/17	JM
Radon Test Kits Received by Lab*	12/11/17	JM

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

Radon test result report for:**TRANSIT 2
MAIN**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7193838	TRANSIT 1	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7979384	TRANSIT 10	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7979385	TRANSIT 11	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7984056	TRANSIT 12	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7983834	TRANSIT 13	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7194097	TRANSIT 14	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7194092	TRANSIT 15	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7193840	TRANSIT 16	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7979072	TRANSIT 17	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7979071	TRANSIT 18	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7979065	TRANSIT 19	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	0.6 ± 0.4	2017-12-13
7978194	TRANSIT 2	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7985660	TRANSIT 20	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7985661	TRANSIT 21	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	0.7 ± 0.4	2017-12-13
7193843	TRANSIT 22	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7984055	TRANSIT 23	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7983813	TRANSIT 24	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7983827	TRANSIT 25	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7978193	TRANSIT 3	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7978189	TRANSIT 4	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	0.5 ± 0.4	2017-12-13
7986187	TRANSIT 5	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7986188	TRANSIT 6	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7986177	TRANSIT 7	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7979077	TRANSIT 8	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13
7979386	TRANSIT 9	2017-12-05 @ 2:00 pm	2017-12-08 @ 2:00 pm	< 0.3	2017-12-13

December 19, 2017

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

MCPS - Spike Sample Laboratory Results. Measured values are satisfactory, i.e. within $\pm 25\%$ of the chamber's reference value (27.7 pCi/L).

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7975075	S1	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	25.6 \pm 0.7	2017-12-07
7975064	S2	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	27.4 \pm 0.8	2017-12-07
7975063	S3	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	26.3 \pm 0.7	2017-12-07
7975065	S4	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	23.0 \pm 0.7	2017-12-07
7975069	S5	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	25.6 \pm 0.7	2017-12-07
7975070	S6	2017-12-01 @ 11:00 am	2017-12-04 @ 11:00 am	23.0 \pm 0.7	2017-12-07

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc. Job Number 182393

NOMINAL Conditions: Radon Conc 27.7 pCi/L Rel. Hum 49.1 % Temp. 70.1 F

Date Start: 12/1/17 Date Stop: 12/4/17 Date Start: _____ Date Stop: _____

Time Start: 1049 Time Stop: 1049 Time Start: _____ Time Stop: _____

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

7975075, 7975064, 7975063, _____

7975065, 7975069, 7975070 _____

F4 Right

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

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

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

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

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

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

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