

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

MCPS RADON TESTING – EXECUTIVE SUMMARY

Site Name	Lynnbrook Center
Date of Test Report	1/04/2023
Round of Testing	[Initial]
	Follow-up
	Post Remediation
	2 Year Testing
	5 Year Testing
	HVAC Upgrade
	Window Replacement
	New Addition
	New Facility
# Rooms Tested	33
# Rooms \geq 4.0 pCi/L	0
Lowest Value	<0.3 pCi/L
Highest Value	2.9 pCi/L

Project Status:

1. 5-Year retesting completed

KCI Technologies, Inc. WWW.kci.com

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

January 4, 2023

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

Re: Radon Testing Services

KCI Job # 122210551

Location: Lynbrook Center

8001 Lynnbrook Dr. Bethesda, MD 20814

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 Lynnbrook Center, located at 8001 Lynnbrook Dr. Bethesda, MD 20814 (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 December 5, 2022 and deployed thirty-seven (37) 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 December 8, 2022 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc.

KCI TECHNOLOGIES, INC. WWW.kci.com

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

Evaluation of Testing Conditions:

These tests represent:

• Follow-up to initial testing.

These tests were conducted to:

• Evaluate radon concentration levels at the facility

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

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

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

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the 20s°F and high temperatures ranged to the mid-50s°F. Maximum sustained winds ranged from 0-12 miles per hour. Average humidity was around 75% with .04 inches of precipitation (rain) was recorded during testing period.

Results:

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

The results of the radon test analysis indicated the following:

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

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

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

Sincerely,

Tyler P. McCleaf

Radon Measurement Provider

#111004 RT

KCI Technologies, Inc.

Tyler McCleaf

Attachments: A- Floor Plan with Test Locations

B- Table 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Check, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

OC- Quality Control

Table 1- Radon Testing Results				
Lynnbrook Center				
Tes	Test Period: 12/05/2022 - 12/08/2022			
	, , , , , , , , , , , , , , , , , , , ,			
Kit Number	Room / Area	Result		
11114382	1	1.9		
11106223	2	< 0.3		
11138966	2	2.2		
11106206	5	1.6		
11106204	6	0.8		
11138992	6	1.1		
11138994	6	1.3		
11105959	7	2.9		
11138993	7	1.5		
11106211	8	0.9		
11114381	8	1.3		
11138987	8	< 0.3		
11138995	8	1.3		
11139000	10	1.3		
11138965	11	1.8		
11106210	12	< 0.3		
11106214	12	< 0.3		
11106201	13	1.8		
11106205	14	< 0.3		
11138962	15	1.7		
11105968	17	1.5		
11138988	17	2.1		
11114380	4-MAR	1.6		
11106203	APR	1.1		
11114390	APR	0.8		
11114389	ASSESSMENT TEAM	2.8		
11138990	COPY ROOM	1.9		
11138981	JANE JULIANO	2.2		
11138982	LOUNGE DAY CARE	0.8		
11105960	MAIN OFFICE	2.2		
11138991	MAIN OFFICE	1.8		
11138983	MAIN OFFICE 1	2.8		
11114375	MAIN OFFICE 2	2.8		
11113899	MAIN OFFICE 3	2.7		
11106202 MAIN OFFICE 4 1.5				

OFFICE

WORK ROOM

2.3

1.8

11114376

11114374

Table 2- Radon Testing Results				
	Lynnl	brook Center		
	Test Period: 1	12/05/22 - 12/08/22		
Kit Number	QC Type	Room / Area	Result	
11138994	D	6	1.3	
11138995 D 8 1.3				
11138987 FB 8 < 0.				
11106214	D	12	< 0.3	
11133716 OB OFFICE BLANK < 0.3				
11140129 TB TRAVEL BLANK < 0.3				

Summary of Missed Locations			
	Lynnbrook Center		
Т	est Period: 12/05/22 - 12/08/22		
Kit Number	Room/Area	Result	
	N/A		

Summary of Missing, Compromised and >/= 4 piC/L Tests						
Lynnbrook Center						
	Test Period: 12/05/22 - 12/08/22					
Kit Number	Kit Number Room/Area Result					
	N/A					
1		l				

Table Note:

^{*} Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for: LYNBROOK CENTER 1

Kit#	Room Id	Started	Ended	pCi/L	Analyze
1106210	12	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	< 0.3	2022-12-14
1106214	12	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	< 0.3	2022-12-14
1106205	14	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	< 0.3	2022-12-14
1105968	17	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.5 ± 0.5	2022-12-14
1138988	17	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.1 ± 0.5	2022-12-14
11106223	2	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	< 0.3	2022-12-14
1106204	6	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	0.8 ± 0.5	2022-12-14
1105959	7	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.9 ± 0.6	2022-12-14
1138995	8	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.3 ± 0.5	2022-12-14
11106211	8	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	0.9 ± 0.5	2022-12-1
11138987	8	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	< 0.3	2022-12-1
11114390	APR	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	0.8 ± 0.4	2022-12-1
11106203	APR	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.1 ± 0.5	2022-12-1
11114389	ASSESSMENT TEAM	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.8 ± 0.6	2022-12-1
11138981	JANE JULIANO	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.2 ± 0.6	2022-12-1
11138982	LOUNGE DAY CARE	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	0.8 ± 0.5	2022-12-1
1105960	MAIN OFFICE	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.2 ± 0.5	2022-12-1
11138983	MAIN OFFICE 1	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.8 ± 0.6	2022-12-1
11114375	MAIN OFFICE 2	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.8 ± 0.6	2022-12-1
11113899	MAIN OFFICE 3	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.7 ± 0.6	2022-12-1
11106202	MAIN OFFICE 4	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.5 ± 0.5	2022-12-1
11114376	OFFICE	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.3 ± 0.6	2022-12-14
11114374	WORK ROOM	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.8 ± 0.5	2022-12-14

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

December 14, 2022

Radon test result report for: LYNBROOK CENTER ANNEX

Kit#	Room Id	Started	Ended	pCi/L	Analyzed
11114382	1	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.9 ± 0.5	2022-12-14
11139000	10	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.3 ± 0.5	2022-12-14
11138965	11	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.8 ± 0.5	2022-12-14
11106201	13	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.8 ± 0.5	2022-12-14
11138962	15	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.7 ± 0.5	2022-12-14
11138966	2	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	2.2 ± 0.5	2022-12-14
11114380	4-MAR	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.6 ± 0.5	2022-12-14
11106206	5	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.6 ± 0.5	2022-12-14
11138992	6	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.1 ± 0.5	2022-12-14
11138994	6	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.3 ± 0.5	2022-12-14
11138993	7	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.5 ± 0.5	2022-12-14
11114381	8	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.3 ± 0.5	2022-12-14
11138990	COPY ROOM	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.9 ± 0.5	2022-12-14
11138991	MAIN OFFICE	2022-12-05 @ 9:00 am	2022-12-08 @ 10:00 am	1.8 ± 0.5	2022-12-14

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EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KC / TECHNOLOGIES	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: 12/27/2	Date Start: Date Stop:
	Time Start: Time Stop:
Device No.'s (5) CHAR BAGS -	Device No.'s:
THRU 11285103	
BYCEFF	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:

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

December 29, 2022

** LABORATORY ANALYSIS REPORT **

Radon test result report for:

OFFICE

MA MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within ± 25% of the chamber's reference value (34.7 pCi/L).

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

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 - April 2022 Schools - Retesting

Name of Schools:

- 1. Lynnbrook Center
- 2. Chevy Chase ES
- 3. North Chevy Chase ES
- 4. Wood Acres ES
- 5. Ashburton ES
- 6. Carderock Springs ES
- 7. North Bethesda MS
- 8. Brooke Grove ES

	Date	Initials
Radon Test Kits Deployed	12/05/2022	Bull
Radon Test Kits Collected	12/08/2022	BULL
Radon Test Kits Shipped to Lab*	12/08/2022	Buju
Radon Test Kits Received by Lab*	12/14/2022	BMY

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



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary: Lynnbrook Center and Annex

8001 and 7921 Lynbrook Drive, Bethesda, MD 20814

Date of Test Report:	3/29/2019
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:	34
# of Rooms ≥ 4.0 pCi/L:	0
Low Value:	< 0.4
High Value:	2.4

Project Status

Initial testing complete: No further action at this time.



March 29, 2019

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

Re: Radon Testing Services

Location: Lynnbrook Center and Annex

8001 and 7921 Lynbrook Drive,

Bethesda, MD 20814

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Lynnbrook Center located at 8001 Lynbrook Drive, Bethesda, MD 20814 (subject site) and Lynbrook Annex, located at 7921 Lynbrook Drive, Bethesda, MD 20814 (subject site).

Scope of Services:

PSI 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. PSI 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 #14SS007) 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.

PSI visited the site on December 4, 2018 and deployed twenty-six (26) activated charcoal (AC) radon test kits. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on December 7, 2018 to retrieve the radon sampling test kits. PSI visited the Annex on February 26, 2019 and deployed fourteen (14) activated charcoal (AC) radon test kit. PSI returned to the site on March 01, 2019 to retrieve the radon sampling A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, PSI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, PSI submitted ten (10) 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.

PSI 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 located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007) and 2 Saber Way, Haverhill, Massachusetts (certification # ARL0017).



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°F.

PSI 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.

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI 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	NA
≤ 4.0 pCi/L	See Attach	nment 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 (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

Nand Kaushik, P.E.

Department Manager, Environmental Services

Nand.Kaushik@intertek.com

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Attachments: A – Floor Plan with Test Locations

B – Table 1 – Radon Test Summary Spreadsheet

C – Laboratory Analytical Results

ATTACHMENT B

Radon Test Summary Spreadsheet

	Radon Testing Results						
Lynnbrook Center							
	Testing period: 12/4/18 - 12/7/18						
Kit Number	Room / Area	Result (pCi/L)					
3919292	1	<0.4					
3919293	2	<0.4					
3919296	6	<0.4					
3922651	7	2.4					
3922652	8	1.2					
3919291	13	<0.4					
	Annex (MISSED)						
3919297	APR	0.7					
3922891	Assessment Team	1.8					
3922893	Assessment Team Office	1.3					
3919295	Lounge	<0.4					
3922895	Main Office	1.0					
3922896	Main Office 1	1.7					
3922897	Main Office 2	1.7					
3922898	Main Office 3	1.2					
3922900	Main Office 4	1.2					
3922894	Office	1.7					
3919298	Preschool Office 1	0.4					
3919299	Preschool Office 2	0.4					
3919300	Preschool Office 2	0.4					
3922892	Worm Room	1.9					

Radon Testing Results							
Lynnbrook Annex							
To	esting period: 2/26/19 - 3/01/	19					
Kit Number	Kit Number Room / Area Result (pCi/L)						
3923341	17	1.1					
3923342	Reception	0.5					
3923343	1	0.5					
3923344	2	<0.4					
3923345	3/4	0.7					
3923346	6	0.6					
3923347	10	0.7					
3923348	7	1.1					
3923349	8	0.8					
3923350	11	<0.4					
3923307	13	0.5					
3923308	15	0.7					
3923309	Copy Room	1.0					
3923310	Open office area	0.5					

	Radon Testing Results					
	Lynnbrook Center					
	Testing period: 12/4/18 - 12/7/18					
Kit Number	QC Type	Result (pCi/L)				
3919294	4 (D)	<0.4				
3923165	Field Blank	<0.4				
3923166	Field Blank	<0.4				
3922899	Main Office 4 (D)	1.5				
3917593	Office Blank	<0.4				
3917591	Trip Blank	<0.4				

Table Notes:

- D Duplicate
- FB Field Blank
- OB Office Blank
- TB Transit Blank
- QC Quality Control

ATTACHMENT C

Laboratory Analytical Results



NELAC NY 11769 NRPP 103216 AL NRSB ARL0017 EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey
Lynnbrook Center
Bethesda MD 20814

Log Number	Device Number		Test Expo	osure Duration:	Area Tested		Result pCi/L
2405119	3922891	12/04/2018	9:06 am	12/07/2018 8:13 am	Lynnbrook Center	Floor 1 Room Assessment Tea	1.8
2405120	3922892	12/04/2018	9:07 am	12/07/2018 8:13 am	Lynnbrook Center	Floor 1 Worm Room	1.9
2405121	3922893	12/04/2018	9:08 am	12/07/2018 8:03 am	Lynnbrook Center	Floor 1 Assessment Team Offic	1.3
2405122	3922894	12/04/2018	9:09 am	12/07/2018 8:10 am	Lynnbrook Center	Floor 1 Room Office	1.7
2405123	3922895	12/04/2018	9:10 am	12/07/2018 8:10 am	Lynnbrook Center	Floor 1 Room Main Office	1.0
2405124	3922896	12/04/2018	9:10 am	12/07/2018 8:10 am	Lynnbrook Center	Floor 1 Main Office 1	1.7
2405125	3922897	12/04/2018	9:10 am	12/07/2018 8:11 am	Lynnbrook Center	Floor 1 Main Office 2	1.7
2405126	3922898	12/04/2018	9:10 am	12/07/2018 8:11 am	Lynnbrook Center	Floor 1 Main Office 3	1.2
2405127	3922899	12/04/2018	9:11 am	12/07/2018 8:11 am	Lynnbrook Center	Floor 1 Main Office 4	1.5
2405128	3922900	12/04/2018	9:11 am	12/07/2018 8:12 am	Lynnbrook Center	Floor 1 Main Office 4	1.2
2405129	3919291	12/04/2018	9:11 am	12/07/2018 8:15 am	Lynnbrook Center	Floor 1 Room 13	< 0.4

Comment: AMENDED REPORT on 1/30/2018 to append additional results. A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/10/2018 Date Reported: 01/30/2019

Report Reviewed By:

Report Approved By:

Disclaimer:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NELAC NY 11769 NRPP 103216 AL NRSB ARL0017 EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Lynnbrook Center Bethesda MD 20814

Log Number	Device Number		Test Expo	osure Duration:	Area Tested	Result pCi/L
2405130	3919292	12/04/2018	9:14 am	12/07/2018 8:15 am	Lynnbrook Center Floor Lower Level Room 1	< 0.4
2405131	3919293	12/04/2018	9:17 am	12/07/2018 8:17 am	Lynnbrook Center Lower Level Room 2	< 0.4
2405132	3919294	12/04/2018	9:17 am	12/07/2018 8:17 am	Lynnbrook Center Lower Level Room 4	< 0.4
2405133	3919295	12/04/2018	9:18 am	12/07/2018 8:17 am	Lynnbrook Center Lower Level Room Lounge	< 0.4
2405134	3919296	12/04/2018	9:19 am	12/07/2018 8:18 am	Lynnbrook Center Lower Level Room 6	< 0.4
2405135	3919297	12/04/2018	9:20 am	12/07/2018 8:18 am	Lynnbrook Center Lower Level Room APR	0.7
2405136	3919298	12/04/2018	9:20 am	12/07/2018 8:19 am	Lynnbrook Center Lower Level Preschool Office 1	0.4
2405137	3919299	12/04/2018	9:22 am	12/07/2018 8:20 am	Lynnbrook Center Lower Level Preschool Office 2	0.4
2405138	3919300	12/04/2018	9:22 am	12/07/2018 8:20 am	Lynnbrook Center Lower Level Preschool Office 2	0.4
2405139	3922651	12/04/2018	9:24 am	12/07/2018 8:20 am	Lynnbrook Center Floor Lower Level Room 7	2.4
2405140	3922652	12/04/2018	9:24 am	12/07/2018 8:21 am	Lynnbrook Center Floor Lower Level Room 8	1.2

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Report Reviewed By:

Report Approved By:

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NELAC NY 11769 NRPP 103216 AL NRSB ARL0017 EPA Method #402-R-92-004 Charcoal Canister NRPP Device Code 6048 NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey
Lynnbrook Center
Bethesda MD 20814

Log Number	Device Number		Test Expos	sure Duratio	n:	Area Tested	Result pCi/L
2405141	3923165 1	2/04/2018	9:06 am	12/07/2018	8:21 am	Lynnbrook Center	< 0.4
2405142	3923166 1	2/04/2018	9:06 am	12/07/2018	8:21 am	Lynnbrook Center	< 0.4
2405143	3917593 1	2/04/2018	6:00 am	12/07/2018	8:21 am	Lynnbrook Center	< 0.4
2405144	3917591 1	2/04/2018	6:00 am	12/07/2018	8:21 am	Lynnbrook Center	< 0.4

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NRPP 105011 AL NRSB ARL0007 Ohio RL41

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

Laboratory Report for:

Property Tested:

Intertek-PSI (VA) 2930 Eskridge Road Fairfax VA 22031

MCPS Radon Survey 4514 Taylorsville Road Dayton OH 45424

Log Device Number Number	Test Exposure Duration:	Area Tested	Result pCi/L
3204125 3926831 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	36.1
3204126 3926832 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	34.8
3204127 3926833 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	33.7
3204128 3926834 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	35.8
3204129 3926835 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	35.0
3204130 3926836 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	34.5
3204131 3926837 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	34.6
3204132 3926838 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	34.3
3204133 3926839 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	33.2
3204134 3926840 12/07/2018	3 9:47 am 12/10/2018 9:47 am	Spike	34.0

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Test Performed By: Unknown

Distributed by: Intertek-PSI (VA)

Date Received: 12/12/2018 12/12/2018 Date Analyzed: 12/12/2018 Date Reported: 12/13/2018 Date Logged:

Report Reviewed By: _

Report Approved By:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL NRSB ARL0007

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

Property Tested: Project # 04481387-1

Laboratory Report for:

Intertek-PSI (VA) MCPS Radon Survey Lynnbrook Annex 2930 Eskridge Road 8810 Postoak Rd

Fairfax VA 22031 Potomac MD 20854

Log Device Number Number	Test Exposure Duration:	Area Tested	Result pCi/L
3220766 3923341 02/26/2019	9 3:06 pm 03/01/2019 12:08 p	m First Floor Room 17	1.1
3220767 3923342 02/26/2019	9 3:07 pm 03/01/2019 12:08 p	m First Floor Room Reception	0.5
3220768 3923343 02/26/2019	9 3:10 pm 03/01/2019 12:09 p	m First Floor Room 1	0.5
3220769 3923344 02/26/2019	9 3:11 pm 03/01/2019 12:09 p	m First Floor Room 2	< 0.4
3220770 3923345 02/26/2019	9 3:13 pm 03/01/2019 12:10 p	m First Floor Room 3/4	0.7
3220771 3923346 02/26/2019	9 3:14 pm 03/01/2019 12:11 p	m First Floor Room 6	0.6
3220772 3923347 02/26/2019	9 3:16 pm 03/01/2019 12:13 p	m First Floor Room 10	0.7
3220773 3923348 02/26/2019	9 3:08 pm 03/01/2019 12:13 p	m First Floor Room 7	1.1
3220774 3923349 02/26/2019	9 3:19 pm 03/01/2019 12:13 p	m First Floor Room 8	0.8
3220775 3923350 02/26/2019	9 3:21 pm 03/01/2019 12:14 p	m First Floor Room 11	< 0.4
3220776 3923307 02/26/2019	9 3:30 pm 03/01/2019 12:15 p	m First Floor Room 13	0.5

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Distributed by: Intertek-PSI (VA)

Date Received: 03/05/2019 03/05/2019 Date Analyzed: 03/05/2019 Date Reported: 03/06/2019 Date Logged:

Report Reviewed By: _

Report Approved By:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL NRSB ARL0007

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

Laboratory Report for: Property Tested: Project # 04481387-1

Intertek-PSI (VA) MCPS Radon Survey Lynnbrook Annex 2930 Eskridge Road 8810 Postoak Rd Fairfax VA 22031 Potomac MD 20854

Log Number	Device Number		Test Expos	sure Duratio	n:	Area Tested	Resu pCi/L	
3220777	3923308	02/26/2019	3:31 pm	03/01/2019	12:15 pm	First Floor Room 15	0.7	7
3220778	3923309	02/26/2019	3:32 pm	03/01/2019	12:09 pm	First Floor Copy Room	1.0)
3220779	3923310	02/26/2019	3:35 pm	03/01/2019	12:15 pm	First Floor Room Open Office Area	0.0	5

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Distributed by: Intertek-PSI (VA)

Date Received: 03/05/2019 03/05/2019 Date Analyzed: 03/05/2019 Date Reported: 03/06/2019 Date Logged:

Report Reviewed By: _

Report Approved By:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Intertell - P5	I ,	Job Number 187732		
NOMINAL Conditions: Radon Conc 39.6	pCi/L Rel. Hum	19.1 % Temp. 70.1		
Date Start: 12/7/18 Date Stop: 12/10/18	Date Start:	Date Stop:		
Time Start: <u>0947</u> Time Stop: <u>0947</u>	Time Start:	Time Stop:		
Device No.'s: (10) Char. Cans-	Device No.'s:			
3926831 Thro 3926840				
GU Loft				
Date Start: Date Stop:	Date Start:	Date Stop:		
Time Start: Time Stop:	Time Start:	Time Stop:		
Device No.'s:	Device No.'s:	<u>74)</u>		
Date Start: Date Stop:	Date Start:	Date Stop:		
Time Start: Time Stop:	Time Start:	Time Stop:		
Device No.'s:	Device No.'s:			
				
		14		

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



Chain of Custody

Project Name: MCPS Radon Survey 2018

Name of Schools:

1. Grosvenor Center (Luxmanor ES)

2. Montrose Center

3. Gibbs ES

4. Westbrook ES

5. Hadley Farms (Resnik ES)

6. Kingsview MS

7. Longview School

8. Lynnbrook Center

9. Magruder HS

10. McAuliffe ES

11. McNair ES

12. Mill Creek Towne ES

13. Martin Luther King MS

14. Montgomery Village MS

15. Great Seneca Creek ES

16. Quince Orchard HS

17. Redland MS

18. North Bethesda MS

19. Spark Matsunaga ES

20. Whetstone ES

21. Wood Acres ES

	Date	Initials
Radon Test Kits Deployed	12/04/2018	NL
Radon Test Kits Sampled	12/07/2018	NL
Radon Test Kits Shipped to Lab*	12/07/2018	NL
Radon Test Kits Received by Lab*	12/08/2018;	1.4.1
	12/09/2018	NL

^{*}All samples sent to AccuStar Laboratories, 929 Mount Zion Road, Lebanon, PA 17046 and 2 Saber Way, Haverhill, MA 01835

RADON SCREENING SURVEY – FOLLOW-UP LYNNBROOK CENTER

8001 Lynnbrook Drive, Bethesda, Maryland 20814

EXECUTIVE SUMMARY

Date of Test Report:	4/13/16 Follow-Up	
Round of Testing:	Initial	
	Follow-up	
	Post Remediation	
# Rooms Tested	1	
# Rooms ≥ 4.0 pCi/L:	0	
Low Value:	<0.4	
High Value:	1.7	
Confirmed Rooms ≥ 4.0 pCi/L US EPA	0	
Action Level		

Summary of Sampling Events ≥ 4.0 pCi/L

Room	Result (pCi/L)	Result (pCi/L)	Average Result
	2/25/16 Initial	4/13/16 Follow-Up	(pCi/L)
Main – OFF3	1.7 Tampered	1.7	1.7



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

MCPS RADON TESTING

Executive Summary: Lynnbrook Center

Date of Test Report:	4/13/2016	
Round of Testing:	Initial	
	Follow-up	
	Post Remediation	
# Rooms Tested:	1	
# Rooms \geq 4.0 pCi/L:	0	
Low Value:	<0.4	
High Value:	1.7	

Project Status:

Retesting completed; no further action at this time.

KCI TECHNOLOGIES, INC. WWW.kci.com



ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

April 13, 2016

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

Re: Radon Testing Services

KCI Job # 12146341.32

Location: Lynnbrook Center

8001 Lynnbrook Drive Bethesda, Maryland 20814

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 Lynnbrook Center, located at 8001 Lynnbrook Drive in Bethesda, Maryland 20814 (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 14, 2016 and deployed three (3) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. A floor plan map of the building with the test locations is included as Attachment A of this report.

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

KCI returned to the site on March 17, 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

www.kci.com

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	NA
<4.0 piC/L	See Attachn	nent B

Notes:

D- Duplicate sample

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

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

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

Sincerely,

James M. Moulsdale

James Makler

Radon Measurement Specialist

KCI Technologies, Inc.

Attachments: A- Floor Plan with Test Locations

B- Table 1-Radon Test Summary Spreadsheet

C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank*

PM- Project Manager

QC- Quality Control

*Office blanks were submitted at a rate of 1% for all samples deployed in Phase 9 testing. Office blanks were not submitted under each school individually.

Radon Testing Results								
Lynnbrook Center								
Test Period: 03/14/16-03/17/16								
Room / Area	Result							
Main Office 3	16							
	Lynnbrook Center st Period: 03/14/16-03/17/16 Room / Area							

	Radon Testing Results							
Lynnbrook Center								
Test Period: 03/14/16-03/17/16								
Kit Number	QC Type	Result						
3029002	D (Main Office 3)	1.7						
3028803	FB (Main Office 3)	<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

936 Ridgebrook Rd

Sparks MD 21152

Lynnbrook Center

8001 Lynnbrook Dr

Bethesda MD 20814

Log Number	Device Number	Test Exposur	e Duration:	Area Tested	Result (pCi/L)
3017470	3029005	03/14/2016 11:35 am	03/17/2016 8:24 am	Main Office 3 First Floor	1.6
3017471	3029002	03/14/2016 11:35 am	03/17/2016 8:22 am	Main Office 3 First Floor	1.7
3017472	3028803	03/14/2016 11:36 am	03/17/2016 8:22 am	Main Office 3 First Floor	<0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged: 03/21/2016 Date Analyzed: 03/22/2016 Date Reported: 03/22/2016

Disclaimer:

Carolyn D. Koke, President, AccuStar Labs

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	 AccuStar Labs 	11 Awl Street	Medway MA 02
(でつていて	Professional Radon Laboratory Services Since 1984

Radon Device Type Open Face Canister

888-480-8812 www.accustarlabs.com 2053

Contact Information: Site Tested: Send Written Report To: Name Addı City State Rep(Ema

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				The state of the s		Lab Use	Only										
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OK Dr.			D0814	ty		Start Date	mm/dd/yyyy	3/14/16	A selection of the sele	->							
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ad			21152			Unit	Number	Main Offices		\rightarrow	10						
gebrook Ro	WALL COMPANY OF THE PARTY OF TH		ode MD	re County	kci.com	Building	Number										
936 Rid		Sparks	nce Postal Co	intry Baltimor	ess tehsin@	Device	Number	9105	9002 /	8803 /							
Address	Address	City / Town	State/Provii	Report Cou	Email Addr	Lab Use	Only										
	936 Ridgebrook Road Address SCO Lunn brook N.C.	936 Ridgebrook Road Address 800 Lynn brook N.c. Telephone Address	936 Ridgebrook Road Address SWI Lynn brook Dic. Telephone Address Address City / Town Sparks Technician	936 Ridgebrook Road Address 3001 Lynn brook Dic. Telephone And Tess Address Address Technician Wn Sparks City / Town State/Province Postal Code MD 20814 State/Province Postal Code MD 20814 Cert. Number	936 Ridgebrook Road Address \$\text{QD} \text{Lynn brook Dic.}\$ Telephone wn Sparks City / Town \$\text{Rethress}\$ Technician ovince Postal Code MD 2081\$ Cert. Number Sountry Baltimore County Test Country Montgomery County Signature	936 Ridgebrook Road Address QOU Lynn brook Dr. Telephone wn Sparks City / Town Rethresde. Technician ountry Baltimore County State/Province Postal Code MD 2081# Cert. Number country Idress tehsin@kci.com Project Number 12146341 Signature	wn Sparks Address QOI Lynn brook Dr. Telephone 410-891-1726 wn Sparks Address Address Address City / Town Address ovince Postal Code MD State/Province Postal Code MD Restal	wn Sparks Address QOI Lynn browk Dic. Telephone 410-891-1726 wn Sparks Address City / Town Rethical Technician Technician ovince Postal Code MD 27814 Cert. Number Cert. Number country Baltimore County Test Country Montgomery County Signature iddress tehsin@kci.com Project Number 12146341 Signature bevice Building Unit Floor Name of Room Start Date Start Time Stop Date Stop Time Number Number Number Temp Temp Imm/dd/yyyy Imm/dd/yyy Imm/dd/yyy Imm/dd/yyy Imm/dd/yyy Imm/dd/yyy Imm/dd/yyy Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy <t< td=""><td>936 Ridgebrook Road Address QOI Lynn brook Dr. Telephone 410-891-1726 wn Sparks Address City / Town By Lynn ber County City / Town C</td><td>wn Sparks Address RCDI Lyan brook Dic. Dic. 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Rev E1512

1 of 1



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 Sparks MD 21152 MCPS Radon Phase 12 Office Blank

Device Log Number Number

Test Exposure Duration:

Area Tested

Result (pCi/L)

03/14/2016 9:30 am 03/17/2016 9:30 am 3017546 3029151

Unit # 0 Office First Floor

< 0.4

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

Distributed by: KCI Technologies, Inc.

Date Received: 03/21/2016 Date Logged: 03/21/2016 Date Analyzed: 03/21/2016 Date Reported: 03/22/2016

Report Reviewed By: Shace Llebrally Report Approved By: Quely D. Kiele

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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AccuStar Labs 11 Awl Street Medway MA 02053 ACCUSTAL Professional Radion Laboratory Services Since 1984

Radon Device Type Open Face Canister

888-480-8812 www.accustarlabs.com

Site Tested: Addre Addre State Test Site Proje City 21152 KCI Technologies, Inc 936 Ridgebrook Road State/Province Postal Code | MD Report Country Baltimore County Email Address tehsin@kci.com Send Written Report To: Sparks City / Town Address Address Name

Tested:		Contact Information:	nation:
Name	KCI OFFICE	Contact	Tehsin
ress	936, NOGEBROOK RD. Telephone	Telephone	410-89
ress			
// Town	SPARKS	Technician	
te/Province	te/Province Postal Code MD 7 ((5 2	Cert. Number	
t Country	Montgomery County	Signature	
ject Numbe	ject Number 12146341		

Tehsin Aurangabadwala

410-891-1726

		_		 		
Lab Use Only						
Stop Time	9:30AM					
Stop Date	3/17/16 9:30AM					
Start Time	9:30AM					
Start Date	te 3/14/16 7:30AM					
Name of Room Temp	OFFICE To					
Floor	!					
Unit Number	0					
Building Number						
Device Number	3529151					
Lab Use Only						

1 of 1



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 9130am 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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ame

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 am	Not Indicated	11.9
3020103	3029214	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.5
3020104	3029217	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	10.7
3020105	3029218	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.3
3020106	3029219	04/04/2016 11:10 am	04/06/2016 11:13 am	Not Indicated	11.0
3020107	3029220	04/04/2016 11:10 am	04/06/2016 11:13 am	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	Patrille		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					->			
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: Lynnbrook Center

Date of Test Report:	2/25/2016
Round of Testing:	Initial
	Follow-up
	Post Remediation
# Rooms Tested:	34
# Rooms \geq 4.0 pCi/L:	0
Low Value:	< 0.3
High Value:	3.0

Project Status:

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

KCI TECHNOLOGIES, INC. WWW.kci.com

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

February 25, 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: Lynnbrook Center

8001 Lynnbrook Drive Bethesda, MD 20814

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 Lynnbrook Center, located at 8001 Lynnbrook Drive in Bethesda, Maryland 20814 (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 2, 2016 and deployed forty-four (44) 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 5, 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

KCI TECHNOLOGIES, INC. WWW.kci.com

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 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.

KCI TECHNOLOGIES, INC. WWW.kci.com

Mr. Richard Cox February 25, 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 Lynnbrook Center Test Period: 02/02/16-02/05/16 Kit Number Room / Area Result 7732461 7921-1 0.9 7921-10 7732466 1.3 7732469 7921-11 1.0 7732471 7921-13 1.0 7732470 7921-15 1.2 7732456 7921-17 1.1 7732462 7921-2 1.1 7732463 7921-3 1.2 7732464 7921-6 1.1 7732467 7921-7 1.7 7732468 7921-8 1.2 7732458 7921-9 0.9 7732455 Main - 1 0.9 7732446 Main - 14 1.1 7732444 Main - 16 8.0 7732445 Main - 17 0.9 7732441 Main - 18 8.0 7732454 Main - 2 0.9 7732452 Main - 4 1.1 7732450 Main - 6 0.7 7732448 Main - 7 2.6 7732449 Main - 8 2.1 7732447 Main - AP ROOM 1.1 7732437 Main - ASS 2.6 7732439 Main - ASS2 2.3 7732428 Main - OFF1 2.5 7732431 Main - OFF2 2.3 7732432 1.7 Main - OFF3 (Tampered) 7732433 Main - OFF4 2.7 7732434 Main - OFF5 2.7 7732435 Main - OFF6 2.7 7732451 Main - SC LONG 0.7 Main - STORAGE RM 7732453 0.6 7732440 Main - WORK ROOM 2.3

^{*} Missing or Compromised Sample

	Radon Testing Results			
	Lynnbrook Center			
	Test Period: 02/02/16-02/05/16			
Kit Number	QC Type	Result		
7732465	D (7921-6)	1.1		
7732459	D (7921-9)	1.1		
7732442	D (Main - 18)	< 0.3		
7732438	D (Main - ASS)	2.6		
7732429	D (Main - OFF1)	3.0		
7732436	D (Main - OFF6)	2.5		
7732460	FB (7921-9)	< 0.3		
7732443	FB (Main - 18)	< 0.3		
7732430	FB (Main - OFF1)	< 0.3		
7730072	OB (0)	< 0.3		

ATTACHMENT C

Laboratory Analytical Results

February LABORATORY ANALYSIS 23, REPORT **

Radon test result report for: LYNNBROOK CENTER 7921

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7730072	0	2016-02-02 @ 5:00 pm	2016-02-05 @ 12:00 pm	< 0.3	2016-02-09
7732461	1	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	0.9 ± 0.3	2016-02-09
7732466	10	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.3 ± 0.4	2016-02-09
7732469	11	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.0 ± 0.3	2016-02-09
7732471	13	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.0 ± 0.3	2016-02-09
7732470	15	2016-02-02 @ 11:00 am	2016-02-05 @ 8:00 am	1.2 ± 0.3	2016-02-09
7732456	17	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.1 ± 0.3	2016-02-09
7732462	2	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.1 ± 0.3	2016-02-09
7732463	3	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.2 ± 0.3	2016-02-09
7732464	6	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.1 ± 0.3	2016-02-09
7732465	6	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.1 ± 0.3	2016-02-09
7732467	7	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.7 ± 0.4	2016-02-09
7732468	8	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.2 ± 0.3	2016-02-09
7732458	9	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	0.9 ± 0.3	2016-02-09
7732459	9	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.1 ± 0.3	2016-02-09
7732460	9	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 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: LYNNBROOK CENTER MAIN

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7732455	1	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	0.9 ± 0.3	2016-02-09
7732446	14	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	1.1 ± 0.3	2016-02-09
7732444	16	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	0.8 ± 0.3	2016-02-09
7732445	17	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	0.9 ± 0.3	2016-02-09
7732441	18	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	0.8 ± 0.3	2016-02-09
7732442	18	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	< 0.3	2016-02-09
7732443	18	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	< 0.3	2016-02-09
7732454	2	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	0.9 ± 0.3	2016-02-09
7732452	4	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	1.1 ± 0.3	2016-02-09
7732450	6	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	0.7 ± 0.3	2016-02-09
7732448	7	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.6 ± 0.4	2016-02-09
7732449	8	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.1 ± 0.4	2016-02-09
7732447	AP ROOM	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	1.1 ± 0.3	2016-02-09
7732437	ASS	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.6 ± 0.4	2016-02-09
7732438	ASS	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.6 ± 0.4	2016-02-09
7732439	ASS2	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.3 ± 0.4	2016-02-09
7732428	OFF1	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.5 ± 0.4	2016-02-09
7732429	OFF1	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	3.0 ± 0.5	2016-02-09
7732430	OFF1	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	< 0.3	2016-02-09
7732431	OFF2	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.3 ± 0.4	2016-02-09
7732432	OFF3	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	1.7 ± 0.4	2016-02-09
7732433	OFF4	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.7 ± 0.4	2016-02-09
7732434	OFF5	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.7 ± 0.4	2016-02-09
7732435	OFF6	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.7 ± 0.4	2016-02-09
7732436	OFF6	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.5 ± 0.4	2016-02-09
7732451	SC LONG	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	0.7 ± 0.3	2016-02-09
7732453	STORAGE RM	2016-02-02 @ 10:00 am	2016-02-05 @ 8:00 am	0.6 ± 0.3	2016-02-09
7732440	WORK ROOM	2016-02-02 @ 10:00 am	2016-02-05 @ 7:00 am	2.3 ± 0.4	2016-02-09

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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 ± 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

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

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologica	Inc. Job Number 173704
	pCi/L Rel. Hum 45.9 % Temp. 79.0
Date Start: 1/30/16 Date Stop: 2/1/16	Date Start: Date Stop:
Time Start: 9986 Time Stop: 9986	Time Start: Time Stop:
Device No.'s: (6) Char. Bags-	Device No.'s:
7718281, 7718282, 7718291,	
7718288, 7718289, 7718273	
E3 Left	
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
Date Start: Date Stop:	Date Start: Date Stop:
Time Start: Time Stop:	Time Start: Time Stop:
Device No.'s:	Device No.'s:
	· · · · · · · · · · · · · · · · · · ·

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



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

	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

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



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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	ntar

- 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)M
Radon Test Kits Shipped to Lab*	2/5/16	UM
Radon Test Kits Received by Lab*	2/9/16	JU

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