



EE&G Environmental Services, LLC

5751 Miami Lakes Drive
Miami Lakes, Florida 33014
Tel (305) 374-8300
Fax (305) 374-900

May 7, 2015
EE&G Project No.: 2015-2335

Mr. Steven Kulick C.P.M.
6130 Sunset Drive
South Miami, Florida 33143

**SUBJECT: Initial Radon Testing
City of South Miami Municipal Complex
6130 Sunset Drive
South Miami, Florida 33143**

Dear Mr. Kulick:

EE&G Environmental Services, LLC (EE&G) conducted a baseline radon screening for The City of South Miami Municipal Complex which includes the City Hall, Police Department and Central Service Annex located at 6130 Sunset Drive in Miami, Florida. The testing was conducted in accordance with EE&G Proposal Number 2015-2335 and consisted of placing sampling devices within 100% of habitable ground contact rooms. The samples were placed by Florida Radon Measurement Technician Reynaldo Garcia, of EE&G. The objective of the sampling was to assist the client with obtaining an understanding of radon levels within the buildings located on the property.

EE&G was informed that the first structure of the municipal complex had been constructed in 1940 and additions had been constructed from 1957 to 1978. The buildings were reported to have been continuously occupied and prior radon testing reports could not be found.

METHODS

The testing was performed using activated charcoal adsorption radon sampling devices, which were placed in 50 ground floor locations from April 21, 2015 to April 23, 2015. The sampling devices were placed for approximately 50 hours, then collected and shipped via overnight courier to AirChek, Inc. in Fletcher, North Carolina for analysis. AirChek participates in the National Environmental Health Association's (NEHA) Radon Measurement Proficiency Program, and its NEHA certificate number is 101138AL. The results were reported in picocuries per liter (pCi/L) and compared to 4 pCi/L, which has been established by the United States Environmental Protection Agency as (EPA) as the action level for radon gas.

LIMITATIONS

This radon test report has been prepared by EE&G in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, expressed or implied is made. The intent of this report is to assist the owner or client in assessing concentrations of radon gas within the sample areas. Under no circumstances is this report to be utilized as a proposal or a project specification document without the expressed written consent of EE&G.

EE&G's interpretations and recommendations are based upon the results of the testing and analyses in compliance with the EPA and FDOH protocols, quality control and assurance standards, and the scope of work as indicated in EE&G's proposal, dated March 20, 2015. The results, conclusions, and recommendations contained in this report pertain to conditions

observed at the time of the testing. EE&G understands that the test locations were under closed building conditions during the testing and the test devices were not disturbed. Short-term (2-4 days) test results can vary from day to day and season to season.

This report was prepared solely for the use of EE&G's client, and is not intended for use by third party beneficiaries. The client shall indemnify and hold EE&G harmless against any liability for any loss arising out of or relating to reliance by any third party on any work performed thereunder, or the contents of this report. EE&G will not be held responsible for the interpretation or use by others of data developed pursuant to the compilation of this report, or for use of segregated portions of this report.

RESULTS

The City of South Miami Municipal Complex consisted of the City Hall, Police Department and Central Services Annex Building. According to the Miami-Dade Property Appraiser website, the facility was built in 1940 and totaled approximately 28,210 square feet. These structures were observed to have a central HVAC system in operation. It consisted of an open plenum returns, and ducts consisting of fiberglass and metal.

City Hall was a two-story building and consisted of offices, restrooms and meeting rooms. The floors were primarily carpet, ceramic and vinyl floor tile. Walls were plaster and painted drywall and ceilings were drywall, plaster and acoustical tile ceilings.

The Police Department was a two-story building and consisted of offices, restrooms and meeting rooms. The floors were primarily carpet, ceramic and vinyl floor tile. Walls were plaster and painted drywall and ceilings were drywall and acoustical tile ceilings.

Central Services Annex was a one-story building and consisted of offices, restrooms and meeting rooms. The floors were terrazzo, the walls were coral/ sandstone and the ceilings were open to the wood deck.

EE&G collected 53 samples; 50 were collected from locations within the building and 3 were collected as QA/QC blanks. The sample results ranged from <0.3 to 1.7 pCi/L. See attached sheets for results and locations.

CONCLUSIONS AND RECOMMENDATIONS

Radon concentrations were below the EPA Action Level and additional testing or remediation are not recommended at this time.

The Florida Department of Health (FDOH) has established Mandatory Radon Protocols for radon testing within state-owned, state-operated, state-regulated or state-licensed 24-hour care facilities. These protocols would require re-testing for radon of ground contact rooms within 5 years of the date of the initial assessment. Although the FDOH protocols may not be directly applicable to the City-owned buildings, EE&G recommends that consideration be made to perform the re-tests in accordance with the FDOH guidelines, which can be found at www.floridahealth.gov. Furthermore, EE&G recommends re-testing if future renovations involve significant structural changes to the building(s).

Mr. Kulick
May 7, 2015
Page 3

Sincerely,



Reynaldo Garcia
Radon Measurement Technician
EE&G

Attachments

Reviewed by



D. Kirk Smith
Senior Project Professional, EE&G
Radon Measurement Specialist #R2248

Mr. Kulick
 May 7, 2015
 Attachments

RADON RESULTS SUMMARY

SAMPLE	BUILDING / UNIT	DEVICE #	NOTES	pCi/l
1	City Hall - Secretary City Mang,	4782052		0.9
2	City Hall - Conf. Rm. City Mang.	4782053		1.2
3	City Hall - City Mang. Office	4782054		0.7
4	City Hall - Office Ass. City Mang.	4782055		0.8
5	City Hall - Chamber	4782056	Duplicate	0.5
6	City Hall - Chamber	4782057	Duplicate	0.6
7	City Hall - Machine Rm. Finance	4782058		1.2
8	City Hall - Finance Office	4782059		1.3
9	City Hall - Finance Director Off.	4782060		1
10	City Hall - City Clerk	4782061		1.7
11	City Hall - Records	4782062		1.4
12	City Hall - Microfilms	4782063		1.7
13	City Hall - Xavier Suarez Off.	4782064		1.7
14	City Hall - Mayor Office	4782065		0.7
15	City Hall - Lunch Room	4782066		1.1
46	City Hall - Lobby	4782097		0.9
47	City Hall - Lobby	4782098		0.9
48	City Hall - Corridor (S)	4782099		0.6
49	City Hall - Corridor (Mid)	4782100		1
50	City Hall - Corridor (N)	4782101		0.9
16	Police - 106	4782067		< 0.3
17	Police - 103	4782068	Duplicate	< 0.3
18	Police - 103	4782069	Duplicate	< 0.3
19	Police - Manager Communication	4782070		< 0.3
20	Police - Lunch Room	4782071		< 0.3
21	Police - Corr. By Keys	4782072		< 0.3
22	Police - Holding Cells	4782073		< 0.3
23	Police - Celia Vicente Office	4782074		< 0.3
24	Police - Corr. Celia Vicente	4782075		0.5
25	Police - Robert Bukens Office	4782076		0.5
26	Police - Captain Office	4782077		0.9
27	Police - Roll Call	4782078		1.1

Mr. Kulick
May 7, 2015
Attachments

28	Police - Sergeants Office	4782079	Duplicate	1.1
29	Police - Sergeants Office	4782080	Duplicate	0.8
30	Police - Lisa Morton Office	4782081		0.7
44	Police - Evidence	4782095		0.7
45	Police - Garage	4782096		< 0.3
31	Sylvia Martin - Storage	4782082		< 0.3
32	Sylvia Martin - Plans Room	4782083		0.5
	Sylvia Martin - Copy Rm.			
33	Storage	4782084		< 0.3
34	Sylvia Martin - Cabinet Room	4782085		0.5
35	Sylvia Martin - Zoning	4782086		< 0.3
36	Sylvia Martin - Copy Room	4782087		< 0.3
37	Sylvia Martin - Building	4782088	Duplicate	< 0.3
38	Sylvia Martin - Building	4782089	Duplicate	< 0.3
39	Sylvia Martin - Lobby	4782090		< 0.3
40	Sylvia Martin - Code	4782091		< 0.3
41	Sylvia Martin - Planning	4782092		< 0.3
42	Sylvia Martin - Conference	4782093		< 0.3
43	Sylvia Martin - Lunch Room	4782094		< 0.3
51	QAQC	7044001		< 0.3
52	QAQC	7044002		< 0.3
53	QAQC	7044003		< 0.3

Mr. Kulick
May 7, 2015
Attachments

LABORATORY RESULTS

P2336 / RICHARD GRUPENHOFF / WARREN ADAM / EE AND G ENVIRONMENTAL SERVICES

Kit #	pCi/L	Hours	Started	Ended	Analyzed	NOTES	MST%	°F
4782052	0.9 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.5%	70
4782053	1.2 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.5%	70
4782054	0.7 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.5%	70
4782055	0.8 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.1%	70
4782056	0.5 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.5%	70
4782057	0.6 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.5%	70
4782058	1.2 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.8%	70
4782059	1.3 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782060	1.0 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.1%	70
4782061	1.7 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782062	1.4 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782063	1.7 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.4%	70
4782064	1.7 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.8%	70
4782065	0.7 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.8%	70
4782066	1.1 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782067	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		7.4%	70
4782068	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782069	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782070	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782071	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782072	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782073	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.7%	70
4782074	< 0.3	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.7%	70
4782075	0.5 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.8%	70
4782076	0.5 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.1%	70
4782077	0.9 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782078	1.1 ± 0.2	50	2015-04-21 @ 8:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782079	1.1 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.8%	70
4782080	0.8 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782081	0.7 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.1%	70
4782082	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.0%	70
4782083	0.5 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.4%	70
4782084	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.4%	70
4782085	0.5 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.3%	70
4782086	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		4.7%	70
4782087	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		4.7%	70
4782088	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		4.7%	70
4782089	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.4%	70
4782090	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		4.7%	70
4782091	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		4.7%	70

P2336 / RICHARD GRUPENHOFF / WARREN ADAM / EE AND G ENVIRONMENTAL SERVICES

Kit #	pCi/L	Hours	Started	Ended	Analyzed	NOTES	MST%	°F
4782092	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		4.7%	70
4782093	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		4.7%	70
4782094	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.4%	70
4782095	0.7 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.1%	70
4782096	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.8%	70
4782097	0.9 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.3%	70
4782098	0.9 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.2%	70
4782099	0.6 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.1%	70
4782100	1.0 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		5.5%	70
4782101	0.9 ± 0.2	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		6.8%	70
7044001	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		2.8%	70
7044002	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		2.8%	70
7044003	< 0.3	49	2015-04-21 @ 9:00 am	2015-04-23 @ 10:00 am	2015-04-24		2.7%	70

Mr. Kulick
May 7, 2015
Attachments

CERTIFICATES



**STATE OF FLORIDA
DEPARTMENT OF HEALTH**

Division of Disease Control and Health Protection
Bureau of Epidemiology, Radon Program

4052 Bald Cypress Way, Bin A12
Tallahassee, FL 32399-1720

Under the provisions of Chapter 404, Florida Statutes, this person is a certified RADON MEASUREMENT TECHNICIAN and may perform indoor radon measurements only through a certified radon measurement business.

Reynaldo Garcia
11774 SW 37th Street
Miami, FL 33175

Certification No. R2415

Issue Date: September 29, 2014

**Certification Automatically
Expires On: September 28, 2015**

010941

Audit Control No:

Original - Customer





STATE OF FLORIDA
DEPARTMENT OF HEALTH

Division of Disease Control and Health Protection
Bureau of Epidemiology, Radon Program
4052 Bald Cypress Way, Bin A12
Tallahassee, FL 32399-1720

010799
Audit Control No:

Original - Customer

Under the provisions of Chapter 404, Florida Statutes, this person is a certified RADON MEASUREMENT SPECIALIST and may perform indoor radon measurements only through a certified radon measurement business.

Douglas Kirk Smith
EE&G
5005 W. Laurel Street, Suite 110
Tampa, FL 33607

Certification No. R2248

Issue Date: July 01, 2014

Certification Automatically Expires On: June 30, 2015

