

June 4, 2019

Ms. Elizabeth Donahue  
School Business Executive  
Chenango Valley Central School District  
221 Chenango Bridge Road  
Binghamton, New York 13901

Re: Post Radon Remediation Lab Analysis Results  
Saint Francis of Assisi Church/School Buildings  
1031 Chenango Street  
Binghamton, New York 13901  
KES Project No. 0620.07719.1

Dear Ms. Donahue,

Per your request and the approval of Mr. Joseph Carpenter, with Saint Francis of Assisi, enclosed please find the above noted post radon remediation test results.

Upon completion of radon remediation activities at St. Francis, Keystone Environmental Services (KES) performed post mitigation testing per ANSI/AARST MALB 2014 "Protocols for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings" utilizing a third-party independent laboratory for radon analysis.

Attached in Appendix A are the April 26, 2019 through April 29, 2019 and May 18, 2019 through May 20, 2019 radon retest results. All test results are less than the USEPA action level guidelines of 4.0 pCi/L or less.

Final project close-out documentation has been provided to Saint Francis of Assisi.

Please feel free to contact us if you need additional information or have any questions. Thank you.

Sincerely,



Mr. Richard J. Tarnowski, C.E.P., C.E.I.  
Member/Director of Environmental Services  
NRPP Certificate No. 100007

RJT/ad

## APPENDIX A

# POST RADON REMEDIATION LAB ANALYSIS RESULTS

**Post Mitigation  
Radon Testing Summary Table  
Saint Francis of Assisi Church and School Building  
1031 Chenango Street, Binghamton, New York 13901  
April 26, 2018 to April 29, 2018  
May 18, 2019 to May 20, 2019  
KES Project No. 0620.07719 and 0620.00719.1**

Location	Room Location	Radon Device No.	Radon Test Result (pCi/L)	Radon Pass/Fail
Church	2nd FL=Sacristy	2708648	0.9	Pass
School	1 <sup>st</sup> FL=Rm 103/102	2708652	1.5	Pass
School	2nd FL=Rm 206	2708658	2.9	Pass
School	1 <sup>st</sup> FL=Gym W (DP)	2708668	1.5	Pass
School	2 <sup>nd</sup> FL=Rm 202	2708674	2.1	Pass
Church	Bsmt.=Church Cafe E (DP)	2708675	1.3	Pass
School	2 <sup>nd</sup> FL=Rm 200 (B)	2708677	2.7	Pass
School	1 <sup>st</sup> FL=Rm 104/105	2708680	0.8	Pass
School	1 <sup>st</sup> FL=Boys Locker Rm	2708687	3.5	Pass
School	1 <sup>st</sup> FL=Girls Locker Rm	2708697	2.1	Pass
Church	Bsmt.=Elec/Storage	2708699	0.9	Pass
School	1 <sup>st</sup> FL=Gym E	2708701	1.2	Pass
School	1 <sup>st</sup> FL=Workshop N (DP)	2708711	3.6	Pass
School	1 <sup>st</sup> FL=Maint. Off.	2708715	1.9	Pass
Church	Bsmt.=Church Café W	2708718	1.0	Pass
Church	Bsmt.=Music Rm	2708719	1.4	Pass
<b>School</b>	<b>1<sup>st</sup> FL =Workshop N</b>	<b>2708723</b>	<b>4.0</b>	<b>Fail (1)</b>
School	1 <sup>st</sup> FL=Rm 101	2708725	3.3	Pass
School	1 <sup>st</sup> FL=Rm 101 (DP)	2708729	3.4	Pass
Church	2 <sup>nd</sup> FL=Baptistry	2708732	1.0	Pass
School	1 <sup>st</sup> FL=Rm 106	2708734	2.2	Pass
School	3 <sup>rd</sup> FL=Rm 308	2708735	3.6	Pass
School	1 <sup>st</sup> FL=Gym W	2708736	1.4	Pass
Church	Bsmt.=Kitchen	2708737	0.8	Pass
Church	2 <sup>nd</sup> FL=Boys Sacristy	2708742	0.7	Pass
School	3 <sup>rd</sup> FL=Rm 303	2708749	2.8	Pass
Church	Bsmt.=Underground Hall	2708750	1.9	Pass
Church	Bsmt.=Church Café (BL)	2708755	0.1	Pass
School	1 <sup>st</sup> FL=Workshop S	2708753	0.4	Pass (2)
School	1 <sup>st</sup> FL=Rm 106 (BL)	2708757	0.1	Pass
School	1 <sup>st</sup> FL=Custodial Rm	2708764	0.5	Pass
<b>School</b>	<b>1<sup>st</sup> FL =Workshop S</b>	<b>2708767</b>	<b>5.3</b>	<b>Fail (2)</b>
School	1 <sup>st</sup> FL-School Hall	2708772	3.9	Pass
Church	Bsmt.=Church C afé E	2708775	1.2	Pass
School	1 <sup>st</sup> FL=Workshop N	2708778	0.7	Pass (1)
Church	2 <sup>nd</sup> FL.=Ambulatory	2708779	0.8	Pass

(1) See Post Mitigation Test Device 2708778 for second result post mitigation test result.  
(2) See Post Mitigation Test Device 2708753 for second result post mitigation test result.

(B) Blank Test  
(DP) Duplicate Test

Site Radon Inspection Report

Date : 04/30/2019

Mr. Richard Tarnowski  
KEYSTONE ENVIRON. SVCS.  
58 Exchange Street  
Binghamton, NY 13901-

Client: Saint Francis of Assisi Church & School  
Test Location: 1031 Chenango Street  
Binghamton, NY 13901-

Individual Canister Results

Canister ID# : 2708648                      Test Start : 04/26/2019 @ 10:00  
Canister Type : Charcoal Canister 3 inch      Test Stop : 04/29/2019 @ 08:30  
Location : 2nd FL=Sacristy                      Received: 04/30/2019 @ 09:56  
Radon Level : 0.9 pCi/L                          Analyzed: 05/01/2019 @ 11:27  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708652                      Test Start : 04/26/2019 @ 10:43  
Canister Type : Charcoal Canister 3 inch      Test Stop : 04/29/2019 @ 09:08  
Location : 1st FL=Rm 103/102                      Received: 04/30/2019 @ 09:56  
Radon Level : 1.5 pCi/L                          Analyzed: 05/01/2019 @ 11:12  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708658                      Test Start : 04/26/2019 @ 11:10  
Canister Type : Charcoal Canister 3 inch      Test Stop : 04/29/2019 @ 08:57  
Location : 2nd FL=Rm 206                          Received: 04/30/2019 @ 09:56  
Radon Level : 2.9 pCi/L                          Analyzed: 05/01/2019 @ 11:15  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708668                      Test Start : 04/26/2019 @ 11:03  
Canister Type : Charcoal Canister 3 inch      Test Stop : 04/29/2019 @ 08:53  
Location : 1st FL=Gym W DP                      Received: 04/30/2019 @ 09:56  
Radon Level : 1.5 pCi/L                          Analyzed: 05/01/2019 @ 11:16  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708674                      Test Start : 04/26/2019 @ 11:11  
Canister Type : Charcoal Canister 3 inch      Test Stop : 04/29/2019 @ 08:58  
Location : 2nd FL=Rm 202                          Received: 04/30/2019 @ 09:56  
Radon Level : 2.1 pCi/L                          Analyzed: 05/01/2019 @ 11:12  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708675                      Test Start : 04/26/2019 @ 10:20  
Canister Type : Charcoal Canister 3 inch      Test Stop : 04/29/2019 @ 08:50  
Location : Bsmt=Church Cafe E DP                      Received: 04/30/2019 @ 09:56  
Radon Level : 1.3 pCi/L                          Analyzed: 05/01/2019 @ 11:30  
Error for Measurement is: ± 0.3 pCi/L



*Andreas C. George*

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IL RNL2000201

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Individual Canister Results

Canister ID# : 2708677  
Canister Type : Charcoal Canister 3 inch  
Location : 2nd FL=Rm 200 B  
Radon Level : 2.7 pCi/L  
Error for Measurement is:  $\pm$  0.2 pCi/L  
Test Start 04/26/2019 @ 11:12  
Test Stop 04/29/2019 @ 08:59  
Received: 04/30/2019 @ 09:56  
Analyzed: 05/01/2019 @ 11:16

Canister ID# : 2708680  
Canister Type : Charcoal Canister 3 inch  
Location : 1st FL=Rm 104/105  
Radon Level : 0.8 pCi/L  
Error for Measurement is:  $\pm$  0.2 pCi/L  
Test Start 04/26/2019 @ 10:44  
Test Stop 04/29/2019 @ 09:08  
Received: 04/30/2019 @ 09:56  
Analyzed: 05/01/2019 @ 11:12

Canister ID# : 2708687  
Canister Type : Charcoal Canister 3 inch  
Location : 1st FL=Boys Locker Rm  
Radon Level : 3.5 pCi/L  
Error for Measurement is:  $\pm$  0.3 pCi/L  
Test Start 04/26/2019 @ 11:07  
Test Stop 04/29/2019 @ 08:54  
Received: 04/30/2019 @ 09:56  
Analyzed: 05/01/2019 @ 10:58

Canister ID# : 2708697  
Canister Type : Charcoal Canister 3 inch  
Location : 1st FL=Girls Locker Rm  
Radon Level : 2.1 pCi/L  
Error for Measurement is:  $\pm$  0.3 pCi/L  
Test Start 04/26/2019 @ 11:05  
Test Stop 04/29/2019 @ 08:54  
Received: 04/30/2019 @ 09:56  
Analyzed: 05/01/2019 @ 11:12

Canister ID# : 2708699  
Canister Type : Charcoal Canister 3 inch  
Location : Bsmt=Elec/Storage  
Radon Level 0.9 pCi/L  
Error for Measurement is:  $\pm$  0.2 pCi/L  
Test Start 04/26/2019 @ 10:35  
Test Stop 04/29/2019 @ 09:04  
Received: 04/30/2019 @ 09:56  
Analyzed: 05/01/2019 @ 11:12

Canister ID# : 2708701  
Canister Type : Charcoal Canister 3 inch  
Location : 1st FL=Gym E  
Radon Level : 1.2 pCi/L  
Error for Measurement is:  $\pm$  0.2 pCi/L  
Test Start 04/26/2019 @ 11:00  
Test Stop 04/29/2019 @ 08:51  
Received: 04/30/2019 @ 09:56  
Analyzed: 05/01/2019 @ 11:27



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Site Radon Inspection Report

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Client: Saint Francis of Assisi Church & School  
Test Location: 1031 Chenango Street  
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Individual Canister Results

Canister ID# : 2708711                      Test Start 04/26/2019 @ 10:42  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 09:07  
Location : 1st FL=Workshop N DP      Received: 04/30/2019 @ 09:56  
Radon Level : 3.6 pCi/L                      Analyzed: 05/01/2019 @ 10:43  
Error for Measurement is: ± 0.3 pCi/L

Canister ID# : 2708715                      Test Start 04/26/2019 @ 10:45  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 09:09  
Location : 1st FL=Maint Off.              Received: 04/30/2019 @ 09:56  
Radon Level : 1.9 pCi/L                      Analyzed 05/01/2019 @ 11:12  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708718                      Test Start 04/26/2019 @ 10:10  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 08:39  
Location : Bsmt=Church Cafe W              Received: 04/30/2019 @ 09:56  
Radon Level : 1.0 pCi/L                      Analyzed 05/01/2019 @ 11:27  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708719                      Test Start 04/26/2019 @ 10:28  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 09:01  
Location : Bsmt=Music Rm                      Received: 04/30/2019 @ 09:56  
Radon Level : 1.4 pCi/L                      Analyzed: 05/01/2019 @ 10:55  
Error for Measurement is: ± 0.2 pCi/L

Canister ID# : 2708723                      Test Start 04/26/2019 @ 10:41  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 09:06  
Location : 1st FL=Workshop N              Received: 04/30/2019 @ 09:56  
Radon Level : 4.0 pCi/L                      Analyzed: 05/01/2019 @ 10:43  
Error for Measurement is: ± 0.3 pCi/L

Canister ID# : 2708725                      Test Start 04/26/2019 @ 10:46  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 08:46  
Location : 1st FL=Rm 101                      Received: 04/30/2019 @ 09:56  
Radon Level : 3.3 pCi/L                      Analyzed: 05/01/2019 @ 10:55  
Error for Measurement is: ± 0.3 pCi/L



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Individual Canister Results

Canister ID# : 2708729                      Test Start 04/26/2019 @ 10:47  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 08:47  
Location : 1st FL=Rm 101 DP              Received: 04/30/2019 @ 09:56  
Radon Level : 3.4 pCi/L                      Analyzed: 05/01/2019 @ 11:31  
Error for Measurement is  $\pm$  0.2 pCi/L

Canister ID# : 2708732                      Test Start 04/26/2019 @ 10:05  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 08:35  
Location : 2nd FL=Baptistry              Received: 04/30/2019 @ 09:56  
Radon Level : 1.0 pCi/L                      Analyzed: 05/01/2019 @ 11:15  
Error for Measurement is:  $\pm$  0.2 pCi/L

Canister ID# : 2708734                      Test Start 04/26/2019 @ 10:50  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 08:48  
Location : 1st FL=Rm 106                  Received: 04/30/2019 @ 09:56  
Radon Level : 2.2 pCi/L                      Analyzed: 05/01/2019 @ 11:16  
Error for Measurement is:  $\pm$  0.2 pCi/L

Canister ID# : 2708735                      Test Start 04/26/2019 @ 11:16  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 09:01  
Location : 3rd FL=Rm 308                  Received: 04/30/2019 @ 09:56  
Radon Level : 3.6 pCi/L                      Analyzed: 05/01/2019 @ 11:12  
Error for Measurement is:  $\pm$  0.3 pCi/L

Canister ID# : 2708736                      Test Start 04/26/2019 @ 11:01  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 08:52  
Location : 1st FL=Gym W                  Received: 04/30/2019 @ 09:56  
Radon Level : 1.4 pCi/L                      Analyzed: 05/01/2019 @ 11:15  
Error for Measurement is:  $\pm$  0.2 pCi/L

Canister ID# : 2708737                      Test Start 04/26/2019 @ 10:25  
Canister Type : Charcoal Canister 3 inch      Test Stop 04/29/2019 @ 09:00  
Location : Bsmt=Kitchen                  Received: 04/30/2019 @ 09:56  
Radon Level : 0.8 pCi/L                      Analyzed: 05/01/2019 @ 11:12  
Error for Measurement is:  $\pm$  0.2 pCi/L



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Site Radon Inspection Report

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Client: Saint Francis of Assisi Church & School  
Test Location: 1031 Chenango Street  
Binghamton, NY 13901-  
Individual Canister Results

**PLEDGE OF ASSURED QUALITY**

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of radon in air (EPA 402-R-92-004). The analytical results relate only to the samples tested in the condition received by the lab and that calculations were based upon the information supplied by client. RTCA and its personnel do not assume responsibility or liability, collectively and individually, for analysis results when detectors have been improperly handled or placed by the consumer, nor does RTCA and its personnel accept responsibility for any financial or health consequences of subsequent action or lack of action, taken by the customer or its consultants based on RTCA-provided results.



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Site Radon Inspection Report

Date : 05/21/2019

Mr. Rick Tarnowski  
KEYSTONE ENVIRON. SVCS.  
58 Exchange Street  
Binghamton, NY 13901-

Client: Saint Francis of Assisi  
Test Location: 1031 Chenango Street  
Binghamton, NY 13901-

Individual Canister Results

Canister ID# :	2708753	Test Start :	05/18/2019 @ 09:35
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/20/2019 @ 09:35
Location :	1st FL = 207 (S)	Received :	05/21/2019 @ 10:20
Radon Level :	0.4 pCi/L	Analyzed :	05/21/2019 @ 13:03
Error for Measurement is: ±	0.3 pCi/L		

Canister ID# :	2708778	Test Start :	05/18/2019 @ 09:30
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/20/2019 @ 09:30
Location :	1st FL = 207 (N)	Received :	05/21/2019 @ 10:20
Radon Level :	0.7 pCi/L	Analyzed :	05/21/2019 @ 13:03
Error for Measurement is: ±	0.3 pCi/L		

The reported results indicate that radon levels in the building tested are below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends retesting if your living patterns change and you begin occupying a lower level of the building, such as a basement or if major remodeling is done

General radon information may be obtained by consulting the EPA booklet: A Citizen's Guide to Radon ([www.epa.gov/radon/pubs/citguide.html](http://www.epa.gov/radon/pubs/citguide.html)). To request a copy or for further information, please contact your state health department. The EPA maintains a radon information website, including copies of its publications, at [www.epa.gov/iaq/radon](http://www.epa.gov/iaq/radon).

For New Jersey clients: Please see the attached guidance document entitled Radon Testing and Mitigation: The Basics for further information

For New York clients: If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free 1-800-458-1158.

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