

J.C. Broderick & Associates, Inc.

Environmental / Construction Consulting & Testing



1775 Expressway Drive North
Hauppauge, NY 11788
631.584.5492
Fax: 631.584.3395
www.jcbroderick.com

May 16, 2022

Mr. Severino Fasulo
Syosset Central School District
99 Pell Lane
Syosset, New York 11791

**Re: Indoor Radon Sampling / Methane Monitoring
South Grove Annex
60 Colony Lane
Syosset, New York 11791
Sampling Dates: April 21 - 25, 2022**

JCB#: 22-51127

Dear Mr. Fasulo:

J.C. Broderick and Associates, Inc. (JCB) was retained to perform indoor radon sampling and methane monitoring within the above referenced school building. The existing active sub-slab depressurization system (SSDS) for radon mitigation was turned off 48-hours prior to the start and throughout the duration of the sampling. The purpose of the SSDS shut down was to provide two sampling events to represent site conditions without an active mitigation system. This second sampling event completes the testing and will be used to make a determination on the continued testing and use of the SSDS.

The radon sampling was performed by experienced JCB representatives following the EPA Radon Measurement in Schools (EPA 402-R-92-014) guidance document. Sampling was performed utilizing Short-Term test devices which were placed in frequently occupied rooms in contact with the ground after the building was closed for a minimum of 12 hours.

The samples were assigned unique identification numbers, logged into a chain of custody document, and delivered to an accredited laboratory for the analysis of Radon. The results were compared with the decision-making flowchart found in the EPA Radon Measurement in Schools (EPA 402-R-92-014) guidance document which establishes an action level of 4 pCi/L.

The monitoring for methane gas was also performed utilizing a Landtec GEM 5000 methane detecting real-time monitor. The monitor detected the percentage of methane along with carbon dioxide and oxygen.

The results of the sampling performed revealed the following:

- All results were reported below the EPA action level.
- No methane was recorded by the detector.

May 16, 2022

Mr. Severino Fasulo of Syosset CSD

Indoor Radon Sampling / Methane Monitoring

South Grove Annex

60 Colony Ln., Syosset, NY 11791

JCB#: 22-51127

Please see the attached laboratory reports to be included in the District's Radon Measurement Plan. If there are any questions or if more information is needed, please feel free to contact our office.

Sincerely,

J. C. Broderick & Associates, Inc.

A handwritten signature in black ink, appearing to read "Steven Muller", with a long horizontal flourish extending to the right.

Steven Muller, P.G.

Director, Subsurface Division

Transfer Lab# 06

2 May



CHAIN OF CUSTODY RADON LABORATORY SERVICES (COMMERCIAL USE)

202
011, N.J.

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
www.emsl.com

EMSL Job #: 382203360 2022 APR 21 A 9:00

Company Information: EMSL Acct #: JCBR50

Company Name: JCBRODERICK & ASSOC
 Contact: STEVEN MULLER
 Address: 1775 EXPRESSWAY DR. N
 City: HAUPPAUGE
 State: NY Zip: 11788
 Phone: 631-584-5442 Fax:
 Email: Smuller@jcbroderick.com

Technician Certification #:
 Tech Name: STEVEN MULLER
 Tech Signature: *[Signature]*

Project/Site Information: *Required

Project Name: SOUTHGROVE ANNEX
 Project # / PO: 22-51127
 *Address: 60 COLONY LANE
 *City: SYOSSET *State: NY *Zip: 11791
 *Building type? Residential Non-Residential
 School Other:
 *Building foundation type? Basement Crawlspace
 Slab on Grade Other:
 Special Notes / Instructions:

***Turnaround Time (TAT) Options**

1 Day 2 Day 3 Day 4 Day

Disclaimer: In no event shall EMSL be liable for indirect, special, consequential, or incidental damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages arising out of or in connection with EMSL's services there under or the delivery, use, reliance upon or interpretation of test results by client or third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereafter.

(S) Sample (B) Blank (D) Duplicate	Device Number	Location	Room #	Exposure Period Beginning Date		Exposure Period Ending Date		Temp. °F	Humidity %
				Date	Time	Date	Time		
(S) Sample S	496293	DESK	2006A	4/21/22	4:52	4/25/22	6:48	71.0	25.5
S	496187	DESK	2009	4/21/22	4:53	4/25/22	6:47	70.9	25.6
D	498322	DESK	2013	4/21/22	4:54	4/25/22	6:45	70.5	26.2
S	496173	DESK	2015	4/21/22	4:56	4/25/22	6:46	69.0	28.4
B	498400	DESK	2016	4/21/22	4:57	4/25/22	6:49	74.4	24.8
S	498172	DESK	2018	4/21/22	4:58	4/25/22	6:50	73.3	24.8
S	496165	DESK	2020	4/21/22	4:58	4/25/22	6:51	73.0	24.7

Relinquished by (Sign): *[Signature]* Date: 4/25/22 Time:
 Received by EMSL (Sign): Date: Time:



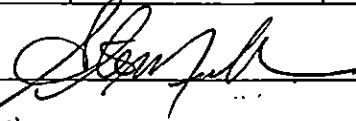
EMSL ANALYTICAL, INC.

**CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)**

EMSL Job #: 382203360

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
www.emsl.com

(S) Sample (B) Blank (D) Duplicate	Device Number	Location	Room #	Exposure Period Beginning Date		Exposure Period Ending Date		Temp, °F	Humidity, %
				Date	Time	Date	Time		
S	498447	CHAIR	2022	4/21/22	5:01	4/25/22	6:52	71.6	25.0
S	489041	CHAIR	2022A	4/21/22	5:02	4/25/22	6:54	71.4	26.6
S	498100	TABLE	2024	4/21/22	5:02	4/25/22	6:55	71.2	26.6
S	498253	DESK	2025	4/21/22	5:04	4/25/22	7:00	76.1	24.9
S	498009	DESK	2027	4/21/22	5:05	4/25/22	6:59	75.5	25.2
D	498284								
S	498672	DESK	2029	4/21/22	5:06	4/25/22	6:57	72.1	26.6
B	498404								

Relinquished by (Sign):  Date: 4/25/22 Time: _____
 Received by EMSL (Sign): _____ Date: _____ Time: _____



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 382203360
 CustomerID: JCBR50
 CustomerPO:
 ProjectID:

Attn: **Steven Muller**
J.C. Broderick & Associates
1775 Expressway Drive North, Suite 1
Hauppauge, NY 11788

Phone: (631) 584-5492
 Fax:
 Received: 4/27/2022 09:00 AM
 Analysis Date: 4/27/2022
 Collected: 4/21/2022

Project: **Southgrove Annex/#22-51127**

Test **Southgrove Annex/#22-51127**
 Site: **60 Colony Lane**
Syosset, NY 11791

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
496293 382203360-0001	Room # 2006A-Desk	0.6	4/21/2022 4:52:00 PM	4/25/2022 6:48:00 PM	71	25.5	Customer
Sample Notes: Radon device exposed >96 hours							
496187 382203360-0002	Room # 2009-Desk	1	4/21/2022 4:53:00 PM	4/25/2022 6:47:00 PM	70.9	25.6	Customer
Sample Notes: Radon device exposed >96 hours							
498322 382203360-0003	Room # 2009-Desk	1.1	4/21/2022 4:53:00 PM	4/25/2022 6:47:00 PM	70.9	25.6	Duplicate
Sample Notes: Duplicate's Customer Sample:382203360-0002 Radon device exposed >96 hours						Duplicate RPD = 9.5%	
496173 382203360-0004	Room # 2013-Desk	0.5	4/21/2022 4:54:00 PM	4/25/2022 6:45:00 PM	70.5	26.3	Customer
Sample Notes: Radon device exposed >96 hours							
498288 382203360-0005	Room # 2015-Desk	1.4	4/21/2022 4:56:00 PM	4/25/2022 6:46:00 PM	69	28.4	Customer
Sample Notes: Radon device exposed >96 hours							
498400 382203360-0006	Room # 2015-Desk	0	4/21/2022 4:56:00 PM	4/25/2022 6:46:00 PM	69	28.4	Blank
Sample Notes: Radon device exposed >96 hours							
498172 382203360-0007	Room # 2016-Desk	1.1	4/21/2022 4:57:00 PM	4/25/2022 6:49:00 PM	74.4	24.8	Customer
Sample Notes: Radon device exposed >96 hours							
496165 382203360-0008	Room # 2018-Desk	0.8	4/21/2022 4:58:00 PM	4/25/2022 6:50:00 PM	74.3	24.8	Customer
Sample Notes: Radon device exposed >96 hours							
498444 382203360-0009	Room # 2020-Desk	1.2	4/21/2022 4:58:00 PM	4/25/2022 6:51:00 PM	73	24.7	Customer
Sample Notes: Radon device exposed >96 hours							
498447 382203360-0010	Room # 2022-Chair	1.5	4/21/2022 5:01:00 PM	4/25/2022 6:52:00 PM	71.6	25	Customer
Sample Notes: Radon device exposed >96 hours							

Please visit www.radontestinglab.com



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cinnaminsonradonlab@emsl.com

EMSL Order: 382203360

CustomerID: JCBR50

CustomerPO:

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
489041 382203360-0011	Room # 2022A-Chair	1.2	4/21/2022 5:02:00 PM	4/25/2022 6:54:00 PM	71.4	26.6	Customer
Sample Notes: Radon device exposed >96 hours							
498100 382203360-0012	Room # 2024-Table	1.1	4/21/2022 5:02:00 PM	4/25/2022 6:55:00 PM	71.2	26.6	Customer
Sample Notes: Radon device exposed >96 hours							
498253 382203360-0013	Room # 2025-Desk	1.1	4/21/2022 5:04:00 PM	4/25/2022 7:00:00 PM	76.1	24.9	Customer
Sample Notes: Radon device exposed >96 hours							
498009 382203360-0014	Room # 2027-Desk	1.1	4/21/2022 5:05:00 PM	4/25/2022 6:59:00 PM	75.5	25.2	Customer
Sample Notes: Radon device exposed >96 hours							
498284 382203360-0015	Room # 2027-Desk	1.1	4/21/2022 5:05:00 PM	4/25/2022 6:59:00 PM	75.5	25.2	Duplicate
Sample Notes: Duplicate's Customer Sample:382203360-0014 Radon device exposed >96 hours						Duplicate RPD = 0.0%	
498672 382203360-0016	Room # 2029-Desk	1.3	4/21/2022 5:06:00 PM	4/25/2022 6:57:00 PM	72.1	26	Customer
Sample Notes: Radon device exposed >96 hours							
498404 382203360-0017	Room # 2029-Desk	0.04	4/21/2022 5:06:00 PM	4/25/2022 6:57:00 PM	72.1	26	Blank
Sample Notes: Radon device exposed >96 hours							

Report Notes



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EMSL Order:	382203360
CustomerID:	JCBR50
CustomerPO:	
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
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The United States Environmental Protection Agency (EPA) has established a radon action level of 4.0pCi/L. EPA recommends mitigation of a structure if the confirmed radon level is equal to or greater than 4.0pCi/L.

The radon tests were performed using liquid scintillation radon detectors and counted on a liquid scintillation counter following EPA Method # 402-R-92-004 testing protocol for Radon in Air testing. EPA recommends retesting every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Analyst(s)

Dominic Gehret (17)

Dominic Gehret, Radiochemistry Laboratory Manager, 10872

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ FL RB2034/R2687,IL RNL2008202,IN RTL00935,IA RNLAB10005,KS KS-LB-0005/KS-MS-0482,ME SPC202,MN RL-0005,NE 474/RMB-1083,NJ 03036/MEB92525/MES13910,NY 10872,OH RL39,OK D9952,PA 2573/3393/68-00367,RI RMB-108/RI00179,WV RL000220,NRSB-ARL6006,NRPP

Initial report from 04/29/2022 15:15:57