

# J.C. Broderick & Associates, Inc.

Environmental / Construction Consulting & Testing



February 15, 2023

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

**Re: Indoor Radon Sampling  
South Grove Elementary School  
60 Colony Lane  
Syosset, New York 11791  
Sampling Dates: February 6 - 8, 2023**

**JCB#: 22-52916**

Dear Mr. Fasulo:

J.C. Broderick and Associates, Inc. (JCB) was retained to perform indoor radon sampling within the above referenced school building. This duplicate short-term sampling event was targeted to four (4) locations within the gym addition as a result of the most recent January 2023 sampling results. To perform the sampling under similar conditions, the existing active sub-slab depressurization system (SSDS) for radon mitigation was turned off at least 48-hours prior to the start and throughout the duration of the sampling.

The radon sampling was performed by experienced JCB representatives following the AARST Consortium on National Radon Standards - *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, dated 2015 guidance document. Sampling was performed utilizing Short-Term test devices which were placed in frequently occupied rooms in contact with the ground.

## **Radon Laboratory Analytical Summary**

The short-term Radon in Air sampling was performed utilizing laboratory supplied test kits, assigned individual identification numbers, and were secured. Chain of Custody documents were prepared, and the samples were then delivered to an independent New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis of Radon in Air.

EMSL Analytical Inc. (EMSL) of Cinnaminson, New Jersey provided laboratory analytical services. Copies of EMSL's NYSDOH certifications are available upon request.

The laboratory analytical results for the Radon in Air samples were reviewed and compared to the United States Environmental Protection Agency (EPA) recommended action level of 4.0 pCi/L as reported in the AARST guidance document.

The table on the following page summarizes the Radon Analytical Results for the last several sampling events:


February 15, 2023  
 Mr. Severino Fasulo of Syosset CSD  
 Indoor Radon Sampling  
 South Grove Elementary School  
 60 Colony Ln., Syosset, NY 11791  
 JCB#: 22-52916

Table No. 1: Summary of Radon Samples Analysis Results				
AHERA Room Identification	Radon Activity pCi/L – 2/8/23	Radon Activity pCi/L – 1/12/23	Radon Activity pCi/L – 4/25/22	Radon Activity pCi/L – 2/25/22
Gym Vestibule	0.8			
Gym Vestibule - Duplicate	0.9			
Gym (stage)	1.7			
Gym (stage) - Duplicate	1.4			
Room 123	2.6	4.0	0.8	2.3
Room 123 - Duplicate	2.6			
Room 124	1.6	3.8	0.9	2.0
Room 124 - Duplicate	1.2			

The laboratory analytical results from the Radon in Air samples collected on February 8, 2023, indicated a concentration of Radon below the guidance value established by the EPA of equal to or greater than 4.0 pCi/L in all samples tested.

Please see the attached laboratory reports and to include 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.

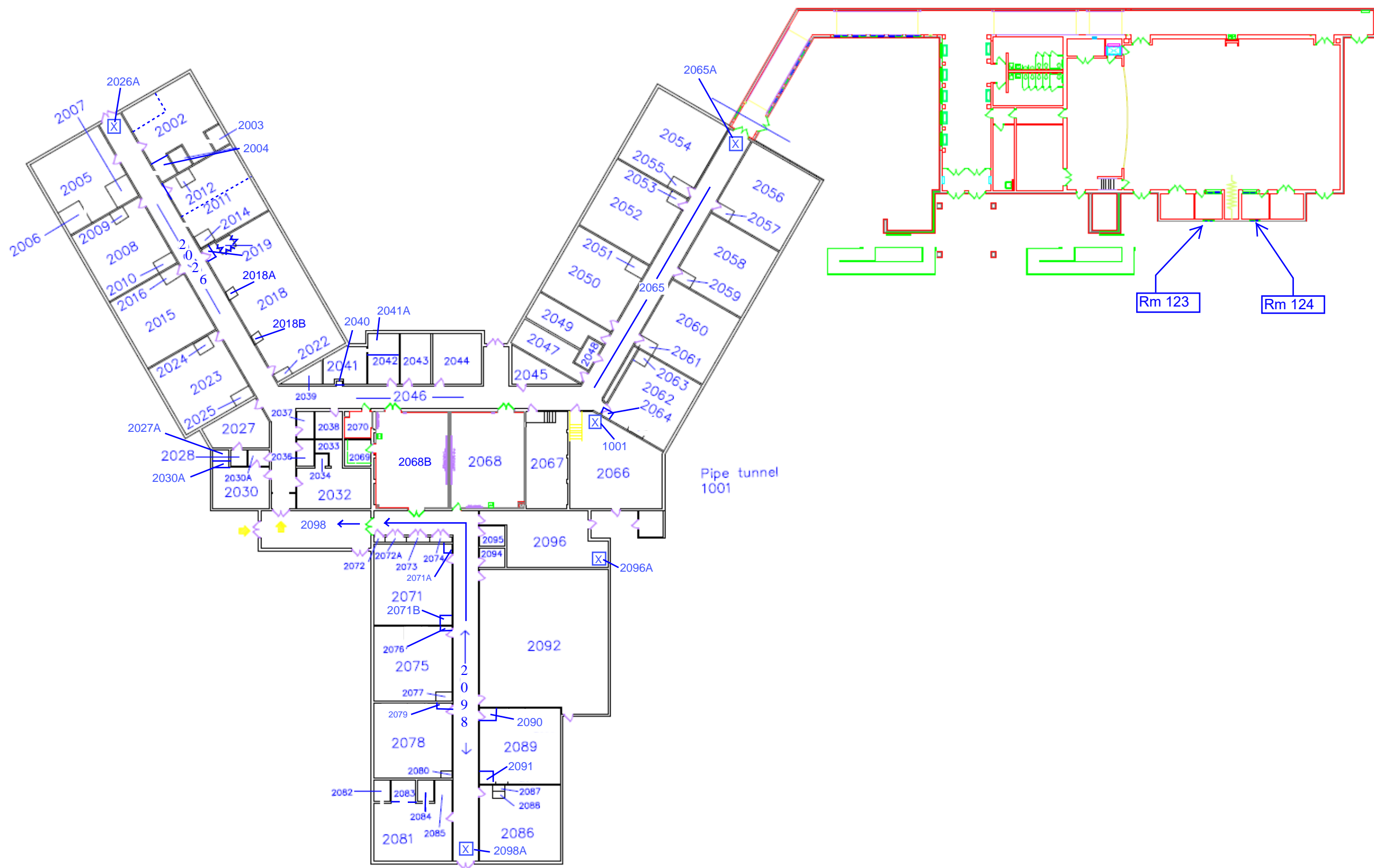
Sincerely,  
**J. C. Broderick & Associates, Inc.**

  
 Steven Muller, P.G.  
 Director, Subsurface Division

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# **Appendix A**

## **Figures**



**J.C. Broderick & Associates**  
 Environmental Consulting & Testing  
 1775 Expressway Dr. North  
 Hauppauge, New York 11788  
 Phone: 631.584.5492 Fax: 631.584.5913

**JCB #: 12-22347**  
**SYOSSET CENTRAL SCHOOL DISTRICT**  
 South Grove Elementary School  
 60 Colony Lane, Syosset, NY 11791

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# **Appendix B**

## **Laboratory Analysis Reports**



# 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](mailto:cinnaminsonradonlab@emsl.com)

EMSL Order: 382300909  
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: 2/10/2023 05:03 PM  
Analysis Date: 2/12/2023  
Collected: 2/6/2023

Project: **South Grove ES 60 Colony Lane**

Test **South Grove ES**  
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
520599 382300909-0001	Vestibule	0.8	2/6/2023 7:25:00 AM	2/8/2023 6:10:00 PM	61	29	Customer
<b>Sample Notes:</b>							
520993 382300909-0002	Vestibule	0.9	2/6/2023 7:25:00 AM	2/8/2023 6:10:00 PM	61	29	Duplicate
<b>Sample Notes:</b> Duplicate's Customer Sample:382300909-0001 <b>Duplicate RPD = 11.8%</b>							
520998 382300909-0003	Stage	1.7	2/6/2023 7:27:00 AM	2/8/2023 6:12:00 PM	62	31	Customer
<b>Sample Notes:</b>							
520579 382300909-0004	Stage	1.4	2/6/2023 7:27:00 AM	2/8/2023 6:12:00 PM	62	31	Duplicate
<b>Sample Notes:</b> Duplicate's Customer Sample:382300909-0003 <b>Duplicate RPD = 19.4%</b>							
521104 382300909-0005	File Cabinet	2.6	2/6/2023 7:31:00 AM	2/8/2023 6:14:00 PM	68	33	Customer
<b>Sample Notes:</b>							
520828 382300909-0006	File Cabinet	2.6	2/6/2023 7:31:00 AM	2/8/2023 6:14:00 PM	68	33	Duplicate
<b>Sample Notes:</b> Duplicate's Customer Sample:382300909-0005 <b>Duplicate RPD = 0.0%</b>							
524448 382300909-0007	File Cabinet	1.6	2/6/2023 7:32:00 AM	2/8/2023 6:15:00 PM	70	31	Customer
<b>Sample Notes:</b>							
524501 382300909-0008	File Cabinet	1.2	2/6/2023 7:32:00 AM	2/8/2023 6:15:00 PM	70	31	Duplicate
<b>Sample Notes:</b> Duplicate's Customer Sample:382300909-0007 <b>Duplicate RPD = 28.6%</b>							

### Report Notes



# 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](mailto:cinnaminsonradonlab@emsl.com)

EMSL Order:	382300909
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)

*Symone Tibbs (8)*

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 02/14/2023 18:08:03





CHAIN OF CUSTODY  
 RADON LABORATORY SERVICES  
 (COMMERCIAL USE)

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

EMSL Job #: 382300909

EMSL ANALYTICAL, INC.

**Company Information:** EMSL Acct #: JCB250

Company Name: JCBRODZICK & ASSOCIATES, INC.

Contact: STEVEN MILLER

Address: 1175 EXPRESSWAY DR. N.

City: HAUPPAUGE

State: NEW YORK Zip: 11788

Phone: 631-584-5492 Fax:

Email: smiller@jcbrodzick.com

Technician Certification #:

Tech Name: STEVEN MILLER

Tech Signature: *[Signature]*

**Project/Site Information:** \*Required

Project Name: SOUTH GROVE ES

Project # / PO: 22-52916

\*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	520579	VESTIBULE	CASE	2/6/23	0725	2/8/23	1810	61.4	28.9
D	520993								
S	520998	STAGE	GYM	2/6/23	0727	2/8/23	1812	61.9	31.0
D	520579								
S	521104	FILE CABINET	123	2/6/23	0731	2/8/23	1814	67.5	33.0
D	520828								
S	524448	FILE CABINET	124	2/6/23	0732	2/8/23	1815	70.4	30.8
D	524501								

Relinquished by (Sign): *[Signature]* Date: 2/9/23 Time: 12:00pm (Page of 1)

Received by EMSL (Sign): Jeanel Zoll Date: 2/10/23 Time: 17:03

*[Signature]* 7-day TAT not