# J.C. Broderick & Associates, Inc.

Environmental/Construction Consulting & Testing

May 16, 2022

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

Re: Indoor Radon Sampling and Methane Monitoring

**South Grove Elementary School** 

**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.

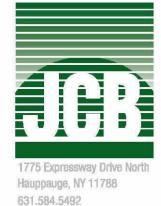
The radon sampling was performed by experienced JCB representatives following the EPA Radon Measurement in Schools (EPA 402-R-92-014) guidance document. Sampling was performed utilizing Short-Term test devices which were placed in frequently occupied rooms in contact with the ground after the building 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 during this period utilizing a Landtec GEM 5000 methane detecting real-time monitor. The monitor recorded the percentage of methane along with carbon dioxide and oxygen every 15-minutes.

The results of the sampling performed revealed the following:

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



Fax: 631,584,3395 www.icbroderick.com May 16, 2022

Mr. Severino Fasulo of Syosset CSD Indoor Radon Sampling and Methane Monitoring South Grove Elementary School 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.

Steven Muller, P.G.

Director, Subsurface Division

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2 Day

# **CHAIN OF CUSTODY** RADON LABORATORY SERVICES CINIA

-01, N. J. 200 ROUTE 130 NORTH

(COMMERCIAL USE)

EMSL Job#: 382203365 12022 AFR : 7

EMSL ANALYTICAL, INC. CINNAMINSON, NJ 08077 A 9: n (PHONE: 800-220-3675

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Technicia	an Certification #: _			Slab on	Grade □	Other	h -		_		
Tech Name: STEVEY Much				Special Notes / In	structions:						
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# CHAIN OF CUSTODY RADON LABORATORY SERVICES

(COMMERCIAL USE)
EMSL Job#: 582203365

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

www.emsl.com

2 Page of 3

	(S)Sample (B)Blank	Device Number	Location	Room #	Exposure Beginnin			re Period g Date	Temp,	Humidity,
	(D) Duplicate				Date	Time	Date	Time	°F	%
٠	<u> </u>	4961991	TABLE	2027	4/21/22	4815	4/25/22	6.06	73.2	257
٠	S	498065.	DESK	2030	4/21/22	4813	4/25/22	6:06	72.3	25.6
•	<u>S</u>	<del>49० ५५</del> ५५४०५३%	M CHAIR	2032	4/21/22	4:19	4/25/22	6:07	<b>7</b> 2.3	25 8
•	S	498049.	TABLE	2041	4/21/22	4:22	4/25/22	6:12	75.5	23.9
•	5	496302	Desk	2043	4/21/22	4:24	4/20/22	6:10	73.9	24.8
•	S	498161'	TABLE	ट्य ५५	4/21/22	4:24	4/25/2	C:11	75.5	24.8
.	<u> </u>	498121.	CHAIR	2045	4/21/22	4:26	4/25/22	6:14	75.2	24.8
•	S	498064.	Desk	2050	4/ii ler	4:27	4/15/22	6315	74.3	24.8
•	_D_	496171.	DUK	2052	4/21/22	4:28	4/25/22	6:16	73.9	24.7
•	S	498082	DOSK	2054	4/21/22	4:29	4/15/20	6!17	74.1	24-8
· ].		496174.	Desic	2056	4/21/12	4:30	4/25/22	6:18	74.1	24.8
<b>'</b>	S	495568.	DESK	2058	4/4/20	-4:31	4/25/22	6:19	74. [	24.8
		497996.	DEIC	2060	4/4/22	4:32	4/25/22	6:21	14-8	24.8
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,   		798181.			4/21/22					23.8
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Page 2 Of 3

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# **CHAIN OF CUSTODY**

RADON LABORATORY SERVICES OL. (COMMERCIAL USE) IN N. J. Job#: 38220 3345 EMSL Job#.

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

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•		496200.	Desk	2070	4/21/22	4:36	4/25/22	6:09	73.4	24.7
•	ς Β,	496229.	DESK	2071	4/4/22	4:39	4/20/22	6:27	73.7	0.85
•	S	495873.	DESK	2075	4/21/22	4:40	4/20/22	6:22	69.0	31.3
•	<u> </u>	495578	DESK	2078	4/21/22	4:40	4/25/22	6:29	67.8	۵, ٥٤
•		498062	DESK	2081	4/21/22	4:41	4/25/22	c:30	68.7	29.4
•	<u>S</u> _D	495609°	Desk	2086	4/21/22	4:42	4/25/26	6:31	68.3	20.3
١	<u>گر</u> -	498000.	DESK	2089	4/21/22	4:43	4/25/22	( .'32	70.5	29.5
•		496176	SHOLF	2096	4/4/20	4:45	4/25/2	61.33	73.0	26.7
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·  -	5	4982071	DESK	124	4/21/22	4!47	7/25/22	6.41	70.3	255
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200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-0327

http://www.EMSL.com cinnaminsonradonlab@emsl.com EMSL Order: CustomerID: 382203365

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 09:09 AM

Analysis Date: 4/28/2022 Collected: 4/21/2022

Project: Southgrove ES/#22-51127

Southgrove ES/#22-51127

Site: **60 Colony Lane** Syosset, NY 11791

Test

## **Test Report: Radon in Air Test Results**

n ID Location	Radon Activity (pCi/L)	Stort		Temperature	Humidity	Sample Type
	., ,		•	•		Sample Type
Room #2002-Desk	0.3				27.6	Customer
Padan davice expected > 06 hours		4:08:00 PIVI	5:57:00 PIVI			
Room #2002-Desk	-0.1	4/21/2022	4/25/2022	71.2	27.6	Blank
		4:08:00 PM	5:57:00 PM			
Radon device exposed >96 hours						
Room #2005-Desk	0.4	4/21/2022	4/25/2022	70.3	28.5	Customer
		4:08:00 PM	5:58:00 PM			
Radon device exposed >96 hours						
Room #2008-Desk	0.3	4/21/2022	4/25/2022	74.5	25.8	Customer
		4:10:00 PM	5:59:00 PM			
Radon device exposed >96 hours						
Room #2008-Desk	0.1	4/21/2022	4/25/2022	74.5	25.8	Duplicate
		4:10:00 PM				·
Duplicate's Customer Sample:382203365-0004 Duplicate RPD >67% Radon device exposed >96 hours				Бири	cate KPD =	100.0%
Room #2011-Desk	0.3	4/21/2022	4/25/2022	76.2	23.9	Customer
		4:11:00 PM	6:01:00 PM			
Radon device exposed >96 hours						
Room #2015-Desk	0.4	4/21/2022	4/25/2022	74.6	24.8	Customer
		4:12:00 PM				
Radon device exposed >96 hours						
Room #2018-Desk	0.3	4/21/2022	4/25/2022	73.7	24.7	Customer
	0.0					
Radon device exposed >96 hours						
Room #2023-Desk	0.4	4/21/2022	4/25/2022	73 9	25.7	Customer
	<b>V.</b> ¬				20.1	
Radon device exposed >96 hours						
Room #2027-Table	0.3	4/21/2022	4/25/2022	73.2	25.7	Customer
	0.0	4:15:00 PM		_		
Radon device exposed >96 hours						
	Radon device exposed >96 hours  Room #2008-Desk  Radon device exposed >96 hours  Room #2008-Desk  Duplicate's Customer Sample:382203365-0004 Duplicate RPD >67% Radon device exposed >96 hours  Room #2011-Desk  Radon device exposed >96 hours  Room #2015-Desk  Radon device exposed >96 hours  Room #2018-Desk  Radon device exposed >96 hours  Room #2023-Desk  Radon device exposed >96 hours  Room #2023-Desk  Radon device exposed >96 hours	Norm #2002-Desk   Norm #2005-Desk   Norm #2005-Desk   Norm #2005-Desk   Norm #2008-Desk   Norm #2009-Desk   Norm #2009	Room #2002-Desk   0.3   4/21/2022   4:08:00 PM	Room #2002-Desk   0.3   4/21/2022   4/25	Activity (PCi/L) Start Stop F Room #2002-Desk 0.3 4/21/2022 4/25/2022 71.2  Radon device exposed >96 hours  Room #2005-Desk 0.4 4/21/2022 4/25/2022 70.3  Radon device exposed >96 hours  Radon device exposed >96 hours  Room #2008-Desk 0.4 4/21/2022 4/25/2022 70.3  Radon device exposed >96 hours  Room #2008-Desk 0.3 4/21/2022 4/25/2022 74.5  Radon device exposed >96 hours  Room #2008-Desk 0.1 4/21/2022 4/25/2022 74.5  Radon device exposed >96 hours  Room #2008-Desk 0.1 4/21/2022 4/25/2022 74.5  Radon device exposed >96 hours  Room #2011-Desk 0.3 4/21/2022 4/25/2022 76.2  Room #2011-Desk 0.3 4/21/2022 4/25/2022 76.2  Room #2015-Desk 0.4 4/21/2022 4/25/2022 76.2  Room #2015-Desk 0.4 4/21/2022 4/25/2022 74.6  Radon device exposed >96 hours  Room #2018-Desk 0.3 4/21/2022 4/25/2022 74.6  Radon device exposed >96 hours  Room #2018-Desk 0.4 4/21/2022 4/25/2022 73.7  Radon device exposed >96 hours  Room #2018-Desk 0.3 4/21/2022 4/25/2022 73.7  Radon device exposed >96 hours  Room #2018-Desk 0.4 4/21/2022 4/25/2022 73.7  Radon device exposed >96 hours  Room #2018-Desk 0.4 4/21/2022 4/25/2022 73.7  Radon device exposed >96 hours  Room #2018-Desk 0.4 4/21/2022 4/25/2022 73.9  Radon device exposed >96 hours  Room #2023-Desk 0.4 4/21/2022 4/25/2022 73.9  Radon device exposed >96 hours  Room #2027-Table 0.3 4/21/2022 4/25/2022 73.9  Radon device exposed >96 hours	Note   Note



200 Route 130 North, Cinnaminson, NJ 08077 (800) 220-3675 / (856) 786-0327 Phone/Fax:

http://www.EMSL.com

cinnaminsonradonlab@emsl.com

EMSL Order: CustomerID: 382203365

JCBR50

CustomerPO: ProjectID:

# **Test Report: Radon in Air Test Results**

Liquid Scintillation	on ID Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
498065 382203365-0011 Sample Notes:	Room #2030-Desk  Radon device exposed >96 hours	0.6	4/21/2022 4:18:00 PM	4/25/2022 6:06:00 PM	72.3	25.6	Customer
498043 382203365-0012 Sample Notes:	Room #2032-Chair  Radon device exposed >96 hours	0.2	4/21/2022 4:19:00 PM	4/25/2022 6:07:00 PM	72.3	25.8	Customer
498049 382203365-0013 Sample Notes:	Room #2041-Table  Radon device exposed >96 hours	0.3	4/21/2022 4:22:00 PM	4/25/2022 6:12:00 PM	75.5	23.9	Customer
496302 382203365-0014 Sample Notes:	Room #2043-Desk  Radon device exposed >96 hours	0.1	4/21/2022 4:24:00 PM	4/25/2022 6:10:00 PM	73.9	24.8	Customer
498161 382203365-0015 Sample Notes:	Room #2044-Table  Radon device exposed >96 hours	0.3	4/21/2022 4:24:00 PM	4/25/2022 6:11:00 PM	75.5	24.8	Customer
498121 382203365-0016 Sample Notes:	Room #2045-Chair  Radon device exposed >96 hours	0.4	4/21/2022 4:26:00 PM	4/25/2022 6:14:00 PM	75.2	24.8	Customer
498064 382203365-0017 Sample Notes:	Room #2050-Desk  Radon device exposed >96 hours	0.3	4/21/2022 4:27:00 PM	4/25/2022 6:15:00 PM	74.3	24.8	Customer
496171 382203365-0018 Sample Notes:	Room #2052-Desk  Radon device exposed >96 hours	0.1	4/21/2022 4:28:00 PM	4/25/2022 6:16:00 PM	73.9	24.7	Customer
498679 382203365-0019 Sample Notes:	Room #2052-Desk  Duplicate's Customer Sample:382203365-0018  Duplicate RPD >67%  Radon device exposed >96 hours	0.5	4/21/2022 4:28:00 PM	4/25/2022 6:16:00 PM	73.9 <b>Dupl</b> i	24.7 icate RPD =	Duplicate : 133.3%
498082 382203365-0020	Room #2054-Desk	0.3	4/21/2022 4:29:00 PM	4/25/2022 6:17:00 PM	74.1	24.8	Customer
Sample Notes: 496174 382203365-0021 Sample Notes:	Radon device exposed >96 hours  Room #2056-Desk  Radon device exposed >96 hours	0.3	4/21/2022 4:30:00 PM	4/25/2022 6:18:00 PM	74.1	24.8	Customer
495568 382203365-0022 Sample Notes:	Room #2058-Desk  Radon device exposed >96 hours	0.5	4/21/2022 4:31:00 PM	4/25/2022 6:19:00 PM	74.1	24.8	Customer
497996 382203365-0023 Sample Notes:	Room #2060-Desk  Radon device exposed >96 hours	0.3	4/21/2022 4:32:00 PM	4/25/2022 6:21:00 PM	74.8	24.8	Customer



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JCBR50

CustomerPO: ProjectID:

# **Test Report: Radon in Air Test Results**

Liquid Scintillation	on ID Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
497993 382203365-0024 Sample Notes:	Room #2062-Desk  Radon device exposed >96 hours	0.2	4/21/2022 4:33:00 PM	4/25/2022 6:21:00 PM	<b>7</b> 5	24.8	Customer
498094 382203365-0025 Sample Notes:	Room #2062-Desk  Radon device exposed >96 hours	-0.1	4/21/2022 4:33:00 PM	4/25/2022 6:21:00 PM	<b>7</b> 5	24.8	Blank
498181 382203365-0026	Room #2068-Chair	0.3	4/21/2022 4:34:00 PM	4/25/2022 6:23:00 PM	75.2	23.8	Customer
Sample Notes: 496177 382203365-0027	Radon device exposed >96 hours  Room #2068B-Chair	0.6	4/21/2022 4:35:00 PM	4/25/2022 6:24:00 PM	75.2	23.8	Customer
Sample Notes: 498125 382203365-0028	Radon device exposed >96 hours  Room #2068B-Chair	0.2	4/21/2022 4:35:00 PM	4/25/2022 6:24:00 PM	75.2 Dunli	23.8	Duplicate
Sample Notes:	Duplicate's Customer Sample:382203365-0027 Duplicate RPD >67% Radon device exposed >96 hours				Jup		
496200 382203365-0029 Sample Notes:	Room #2070-Desk  Radon device exposed >96 hours	0.4	4/21/2022 4:36:00 PM	4/25/2022 6:09:00 PM	73.4	24.7	Customer
496229 382203365-0030	Room #2071-Desk	0.3	4/21/2022 4:39:00 PM	4/25/2022 6:27:00 PM	73.7	28	Customer
498185 382203365-0031 Sample Notes:	Radon device exposed >96 hours  Room #2071-Desk  Radon device exposed >96 hours	0	4/21/2022 4:39:00 PM	4/25/2022 6:27:00 PM	73.7	28	Blank
495873 382203365-0032 Sample Notes:	Room #2075-Desk  Radon device exposed >96 hours	0.4	4/21/2022 4:40:00 PM	4/25/2022 6:28:00 PM	69	31.3	Customer
495578 382203365-0033 Sample Notes:	Room #2078-Desk  Radon device exposed >96 hours	0.6	4/21/2022 4:40:00 PM	4/25/2022 6:29:00 PM	67.8	30.3	Customer
498062 382203365-0034 Sample Notes:	Room #2081-Desk  Radon device exposed >96 hours	0.4	4/21/2022 4:41:00 PM	4/25/2022 6:30:00 PM	68.7	29.4	Customer
495609 382203365-0035 Sample Notes:	Room #2086-Desk  Radon device exposed >96 hours	0.5	4/21/2022 4:42:00 PM	4/25/2022 6:31:00 PM	68.3	30.3	Customer
	1						



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CustomerPO: ProjectID:

## **Test Report: Radon in Air Test Results**

on ID Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
Room #2086-Desk	0.6	4/21/2022	4/25/2022	68.3	30.3	Duplicate
		4:42:00 PM	6:31:00 PM	l Dupli	icate RPD =	18.2%
Duplicate's Customer Sample:382203365-0035 Radon device exposed >96 hours				- <b></b>		
Room #2089-Desk	0.5	4/21/2022	4/25/2022	70.5	29.5	Customer
		4:43:00 PM	6:32:00 PM	1		
Radon device exposed >96 hours						
Room #2096-Shelf	0.4	4/21/2022	4/25/2022	73	26.7	Customer
		4:45:00 PM	6:33:00 PM	1		
Radon device exposed >96 hours						
Room #123-Desk	0.8	4/21/2022	4/25/2022	70.5	28.5	Customer
		4:47:00 PM	6:41:00 PM	l		
Radon device exposed >96 hours						
Room #124-Desk	0.9	4/21/2022	4/25/2022	70.3	28.5	Customer
		4:47:00 PM	6:41:00 PM	I		
Radon device exposed >96 hours						
	Room #2086-Desk  Duplicate's Customer Sample:382203365-0035 Radon device exposed >96 hours  Room #2089-Desk  Radon device exposed >96 hours  Room #2096-Shelf  Radon device exposed >96 hours  Room #123-Desk  Radon device exposed >96 hours  Room #124-Desk	Activity (pCi/L)  Room #2086-Desk 0.6  Duplicate's Customer Sample:382203365-0035 Radon device exposed >96 hours  Room #2089-Desk 0.5  Radon device exposed >96 hours  Room #2096-Shelf 0.4  Radon device exposed >96 hours  Room #123-Desk 0.8  Radon device exposed >96 hours  Room #124-Desk 0.9	Room #2086-Desk   0.6   4/21/2022   4:42:00 PM	Activity (pCi/L) Start Stop  Room #2086-Desk 0.6 4/21/2022 4/25/2022 4:42:00 PM 6:31:00 PM  Duplicate's Customer Sample:382203365-0035 Radon device exposed >96 hours  Room #2089-Desk 0.5 4/21/2022 4/25/2022 4:43:00 PM 6:32:00 PM  Radon device exposed >96 hours  Room #2096-Shelf 0.4 4/21/2022 4/25/2022 4:45:00 PM 6:33:00 PM  Radon device exposed >96 hours  Room #123-Desk 0.8 4/21/2022 4/25/2022 4:47:00 PM 6:41:00 PM  Radon device exposed >96 hours  Room #124-Desk 0.9 4/21/2022 4/25/2022 4:47:00 PM 6:41:00 PM	Room #2086-Desk   0.6   4/21/2022   4/25/2022   68.3	Activity (pCi/L) Start Stop Fe Humidity % 10 Duplicate RPD = 10 Duplicate Scustomer Sample:382203365-0035 Radon device exposed >96 hours

#### **Report Notes**

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)	$\mathcal{O}$ $\mathcal{O}$ .
	Con- fort
Dominic Gehret (40)	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/R100179,WV RL000220,NRSB-ARL6006,NRPP

Initial report from 04/29/2022 14:52:00