

J.C. Broderick & Associates, Inc.

Environmental / Construction Consulting & Testing



March 28, 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: February 22 - 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 the first of two sampling events to represent site conditions without an active mitigation system.

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.

March 28, 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.

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

Fedex: 7903
1393

JCBR50
2 Day



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CHAIN OF CUSTODY
RADON LABORATORY SERVICES
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EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 800-220-3675
www.emsl.com

M #1

EMSL Job #: 2022 FEB 29 A 11:42 382201543

Company Information: EMSL Acct #:

Company Name: JC Broderick & Associates

Contact: Bryan Ezelius

Address: 1775 Expressway Dr North

City: Hauppauge

State: New York Zip: 11788

Phone: 631-584-5492 Fax:

Email: Bezelius@JC Broderick.com

Technician Certification #:

Tech Name: Jarett Boniface

Tech Signature: *[Signature]*

Project/Site Information: *Required

Project Name: South Grove Elementary School

Project # / PO: 21-49341

*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	488523	Center Desk	2005	2/22/22	8:14	2/25/22	8:50	70.5	31.5
S	488590	center Desk	2002	2/22/22	8:16	2/25/22	8:52	71.7	28.8
B	488716	Desk							
S	488593	Center Desk	2008	2/22/22	8:18	2/25/22	8:53	75.3	25.8
D	488606	Desk							
S	488557	Center Desk	2011	2/22/22	8:19	2/25/22	8:54	76.7	23.7
S	488562	Center Desk	2015	2/22/22	8:21	2/25/22	8:55	76.8	25.3
S	488572	Center Desk	2018	2/22/22	8:22	2/25/22	8:57	75.2	27.0
S	488537	Center Desk	2023	2/22/22	8:23	2/25/22	8:58	75.5	26.4

Relinquished by (Sign): _____ Date: _____ Time: _____

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EMSL Job #: **382201543**
2022 FEB 29 11:42

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(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 B	488688 488699	center Table	2030	2/22/22	8:28	2/25/22	8:59	73.2	28.8
S	488701	Center Table	2027	2/22/22	8:28	2/25/22	9:00	71.7	30.7
S	488616	Center Desk	2032	2/22/22	8:29	2/25/22	9:01	74.8	28.5
S D	488662 488588	Center Table	2070	2/22/22	8:31	2/25/22	9:03	75.5	27.2
S	488605	Center Table	2068B	2/22/22	8:32	2/25/22	9:05	75.9	28.8
S	488526	Center Table	2041	2/22/22	8:34	2/25/22	9:07	75.7	27.0
S	488568	center Desk	2043	2/22/22	8:35	2/25/22	9:09	76.1	27.1
S	488640	Center Table	2044	2/22/22	8:36	2/25/22	9:12	76.6	27.0
S	488656	center Table	2068	2/22/22	8:37	2/25/22	9:14	77.0	25.0
S	488735	Center Desk	2096	2/22/22	8:39	2/25/22	9:16	76.3	33.3
S B	488547 488637	Center Desk	2071	2/22/22	8:42	2/25/22	9:18	75.2	29.5
S	488556	Center Desk	2075	2/22/22	8:45	2/25/22	9:19	74.4	30.5
S	488519	Center Desk	2078	2/22/22	8:47	2/25/22	9:20	74.6	28.5
S	488632	Center Desk	2081	2/22/22	8:50	2/25/22	9:21	74.8	28.3
S D	488567 488559	Center Desk	2086	2/22/22	8:52	2/25/22	9:23	75.2	31.1
S	488601	center Desk	2089	2/22/22	8:55	2/25/22	9:25	76.3	28.7

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EMSL Job #:

382201543
 2022 FEB 29 A 11:42

EMSL ANALYTICAL, INC.

(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	488608	center Table	2045	2/22/22	8:58	2/25/22	9:28	74.6	26.6
S	488570	Center Table	2062	2/22/22	9:00	2/25/22	9:29	74.3	25.8
B	488707	Center Table							
S	488613	Center Desk	2060	2/22/22	9:03	2/25/22	9:31	75.2	26.0
S	488743	Center Desk	2050	2/22/22	9:04	2/25/22	9:32	75.5	27.8
S	488622	Center Desk	2052	2/22/22	9:05	2/25/22	9:33	75.0	27.5
D	488697	Center Desk							
S	488607	Center Desk	2058	2/22/22	9:06	2/25/22	9:35	75.9	27.8
S	488551	Center Desk	2056	2/22/22	9:08	2/25/22	9:36	75.7	29.0
S	488702	Center Desk	2054	2/22/22	9:10	2/25/22	9:37	75.8	29.1
S	488585	Center Desk	Gym Office 123	2/22/22	9:20	2/25/22	9:39	74.1	27.1
S	488625	Center Table	Gym Office 124	2/22/22	9:21	2/25/22	9:40	74.4	30.4

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<http://www.EMSL.com> cinnaminsonradonlab@emsl.com

EMSL Order: 382201543
CustomerID: JCBR50
CustomerPO: 21-49341
ProjectID:

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

Phone: (631) 584-5492
Fax:
Received: 3/1/2022 11:42 AM
Analysis Date: 3/3/2022
Collected: 2/22/2022

Project: **South Grove Elementary School / 60 Colony Ln / 21-49341**

Test Site: **South Grove Elementary School**
60 Colony Ln
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
488523 382201543-0001	Center Desk 2005	1	2/22/2022 8:14:00 AM	2/25/2022 8:50:00 AM	70	31	Customer
Sample Notes:							
488590 382201543-0002	Center Desk 2002	1.2	2/22/2022 8:16:00 AM	2/25/2022 8:52:00 AM	71	28	Customer
Sample Notes:							
488716 382201543-0003	Center Desk 2002	-0.3	2/22/2022 8:16:00 AM	2/25/2022 8:52:00 AM	71	28	Blank
Sample Notes:							
488593 382201543-0004	Center Desk 2008	1	2/22/2022 8:18:00 AM	2/25/2022 8:53:00 AM	75	25	Customer
Sample Notes:							
488606 382201543-0005	Center Desk 2008	0.8	2/22/2022 8:18:00 AM	2/25/2022 8:53:00 AM	75	25	Duplicate
Sample Notes: Duplicate's Customer Sample:382201543-0004 Duplicate RPD = 22.2%							
488557 382201543-0006	Center Desk 2011	1.5	2/22/2022 8:19:00 AM	2/25/2022 8:54:00 AM	76	23	Customer
Sample Notes:							
488562 382201543-0007	Center Desk 2015	1.2	2/22/2022 8:21:00 AM	2/25/2022 8:55:00 AM	76	25	Customer
Sample Notes:							
488572 382201543-0008	Center Desk 2018	1.2	2/22/2022 8:22:00 AM	2/25/2022 8:57:00 AM	75	27	Customer
Sample Notes:							
488537 382201543-0009	Center Desk 2023	1.2	2/22/2022 8:23:00 AM	2/25/2022 8:58:00 AM	75	26	Customer
Sample Notes:							
486888 382201543-0010	Center Desk 2030	1.7	2/22/2022 8:28:00 AM	2/25/2022 8:59:00 AM	73	28	Customer
Sample Notes:							



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EMSL Order: 382201543

CustomerID: JCBR50

CustomerPO: 21-49341

ProjectID:

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
488699 382201543-0011	Center Desk 2030	-0.2	2/22/2022 8:28:00 AM	2/25/2022 8:59:00 AM	73	28	Blank
Sample Notes:							
488701 382201543-0012	Center Desk 2027	0.9	2/22/2022 8:28:00 AM	2/25/2022 9:00:00 AM	71	30	Customer
Sample Notes:							
488616 382201543-0013	Center Desk 2032	1.6	2/22/2022 8:29:00 AM	2/25/2022 9:01:00 AM	74	28	Customer
Sample Notes:							
488662 382201543-0014	Center Desk 2070	0.9	2/22/2022 8:31:00 AM	2/25/2022 9:03:00 AM	75	27	Customer
Sample Notes:							
488588 382201543-0015	Center Desk 2070	0.9	2/22/2022 8:31:00 AM	2/25/2022 9:03:00 AM	75	27	Duplicate
Sample Notes: Duplicate's Customer Sample:382201543-0014					Duplicate RPD = 0.0%		
488605 382201543-0016	Center Desk 2068B	1.1	2/22/2022 8:32:00 AM	2/25/2022 9:05:00 AM	75	28	Customer
Sample Notes:							
488526 382201543-0017	Center Desk 2041	1.1	2/22/2022 8:34:00 AM	2/25/2022 9:07:00 AM	75	27	Customer
Sample Notes:							
488568 382201543-0018	Center Desk 2043	2	2/22/2022 8:35:00 AM	2/25/2022 9:09:00 AM	76	27	Customer
Sample Notes:							
488640 382201543-0019	Center Desk 2044	1.3	2/22/2022 8:36:00 AM	2/25/2022 9:12:00 AM	76	27	Customer
Sample Notes:							
488656 382201543-0020	Center Desk 2068	0.8	2/22/2022 8:37:00 AM	2/25/2022 9:14:00 AM	77	25	Customer
Sample Notes:							
488735 382201543-0021	Center Desk 2096	1.2	2/22/2022 8:39:00 AM	2/25/2022 9:16:00 AM	76	23	Customer
Sample Notes:							
488547 382201543-0022	Center Desk 2071	1.1	2/22/2022 8:42:00 AM	2/25/2022 9:18:00 AM	75	29	Customer
Sample Notes:							
488637 382201543-0023	Center Desk 2071	1.3	2/22/2022 8:42:00 AM	2/25/2022 9:18:00 AM	75	29	Blank
Sample Notes:							

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EMSL Order:	382201543
CustomerID:	JCBR50
CustomerPO:	21-49341
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
488556 382201543-0024	Center Desk 2075	1.6	2/22/2022 8:45:00 AM	2/25/2022 9:19:00 AM	74	30	Customer
Sample Notes:							
488519 382201543-0025	Center Desk 2078	1.3	2/22/2022 8:47:00 AM	2/25/2022 9:20:00 AM	74	28	Customer
Sample Notes:							
488632 382201543-0026	Center Desk 2081	1.6	2/22/2022 8:50:00 AM	2/25/2022 9:21:00 AM	74	28	Customer
Sample Notes:							
488567 382201543-0027	Center Desk 2086	1.1	2/22/2022 8:52:00 AM	2/25/2022 9:23:00 AM	75	31	Customer
Sample Notes:							
488559 382201543-0028	Center Desk 2086	0.8	2/22/2022 8:52:00 AM	2/25/2022 9:23:00 AM	75	31	Duplicate
Sample Notes: Duplicate's Customer Sample:382201543-0027						Duplicate RPD = 31.6%	
488601 382201543-0029	Center Desk 2089	1	2/22/2022 8:55:00 AM	2/25/2022 9:25:00 AM	76	28	Customer
Sample Notes:							
488608 382201543-0030	Center Desk 2045	1.2	2/22/2022 8:58:00 AM	2/25/2022 9:28:00 AM	74	26	Customer
Sample Notes:							
488570 382201543-0031	Center Desk 2062	1.1	2/22/2022 9:00:00 AM	2/25/2022 9:29:00 AM	74	25	Customer
Sample Notes:							
488707 382201543-0032	Center Desk 2062	1.2	2/22/2022 9:00:00 AM	2/25/2022 9:29:00 AM	74	25	Duplicate
Sample Notes: Duplicate's Customer Sample:382201543-0031						Duplicate RPD = 8.7%	
488613 382201543-0033	Center Desk 2060	1.2	2/22/2022 9:03:00 AM	2/25/2022 9:31:00 AM	75	26	Customer
Sample Notes:							
488743 382201543-0034	Center Desk 2050	1.1	2/22/2022 9:04:00 AM	2/25/2022 9:32:00 AM	75	27	Customer
Sample Notes:							
488622 382201543-0035	Center Desk 2052	1.5	2/22/2022 9:05:00 AM	2/25/2022 9:33:00 AM	75	27	Customer
Sample Notes:							
488697 382201543-0036	Center Desk 2052	1.3	2/22/2022 9:05:00 AM	2/25/2022 9:33:00 AM	75	27	Duplicate
Sample Notes: Duplicate's Customer Sample:382201543-0035						Duplicate RPD = 14.3%	

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EMSL Order:	382201543
CustomerID:	JCBR50
CustomerPO:	21-49341
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
488607 382201543-0037	Center Desk 2058	1.3	2/22/2022 9:06:00 AM	2/25/2022 9:35:00 AM	75	27	Customer
Sample Notes:							
488551 382201543-0038	Center Desk 2056	1.4	2/22/2022 9:08:00 AM	2/25/2022 9:36:00 AM	75	29	Customer
Sample Notes:							
488702 382201543-0039	Center Desk 2054	1.2	2/22/2022 9:10:00 AM	2/25/2022 9:37:00 AM	75	29	Customer
Sample Notes:							
488585 382201543-0040	Center Desk Gym Office 123	2.3	2/22/2022 9:20:00 AM	2/25/2022 9:39:00 AM	74	27	Customer
Sample Notes:							
488685 382201543-0041	Center Desk Gym Office 124	2	2/22/2022 9:21:00 AM	2/25/2022 9:40:00 AM	74	27	Customer
Sample Notes:							

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)

Racquel Hafiz (41)

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 03/28/2022 17:47:47