

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
Baylis Elementary School
580 Woodbury Road
Plainview, New York 11803
Sampling Dates: April 19-22, 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 radon 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 and Methane Monitoring
Baylis Elementary School
580 Woodbury Rd., Plainview, NY 11803
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", written in a cursive style.

Steven Muller, P.G.
Director, Subsurface Division

REC'D 2163 2640 4331

M3



**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 #: 382203288

Company Information:

EMSL Acct #: _____

Company Name: JCBRODOWICK & ASSOC

Contact: STEVEN MULLER

Address: 1775 EXPRESSWAY DR. N

City: HAUPPAUGE

State: NY Zip: 11788

Phone: 631-584-5492 Fax: _____

Email: Smuller@jcbrodowick.com

Technician Certification #: _____

Tech Name: STEVEN MULLER

Tech Signature: [Signature]

Project/Site Information: *Required

Project Name: BAYLIS ES

Project # / PO: 22-51127

*Address: 580 WOODBURY ROAD

*City: PLAINVIE *State: NY *Zip: 11803

*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	498077	DESK	2005	4/19/22	7:48	4/22/22	12:35	69.2	27.4
D	498710	DESK	2006	4/19/22	7:50	4/22/22	12:38	68.3	26.4
S	496187	DESK	2007	4/19/22	7:51	4/22/22	12:39	68.7	27.4
S	498057	DESK	2008	4/19/22	7:52	4/22/22	12:39	69.0	26.4
B	498155	DESK	2009	4/19/22	7:53	4/22/22	12:40	68.5	27.4
S	496189	DESK	2009	4/19/22	7:53	4/22/22	12:40	68.5	27.4
S	498129	DESK	2010	4/19/22	7:56	4/22/22	12:41	68.7	27.0
S	496256	DESK	2011	4/19/22	7:57	4/22/22	12:41	68.3	27.4

Relinquished by (Sign): [Signature] Date: 4/22/22 Time: _____

Received by EMSL (Sign): Katherine Viana Date: 4-22-22 Time: 5:03 pm



**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 #:

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	498116	DESK	2012	4/19/22	7:59	4/22/22	12:43	69.0	26.4
S	498255	DESK	2013	4/19/22	8:00	4/22/22	12:43	68.7	29.9
S	498087	DESK	2015	4/19/22	8:01	4/22/22	12:44	68.3	27.4
S	498119	TABLE	2020	4/19/22	8:02	4/22/22	12:45	68.3	27.4
S	497999	TABLE	2021	4/19/22	8:04	4/22/22	12:46	68.9	28.0
S	498191	DESK	2022	4/19/22	8:05	4/22/22	12:47	68.1	28.4
S	498107	DESK	2026	4/19/22	8:07	4/22/22	12:48	67.2	30.3
D	498543								
S	498288	DESK	2029	4/19/22	8:08	4/22/22	12:49	66.5	30.3
B	498040								
S	496162	DESK	2032	4/19/22	8:09	4/22/22	12:50	66.9	31.0
S	498123	DESK	2035	4/19/22	8:10	4/22/22	12:51	67.4	30.3
S	498098	DESK	2038	4/19/22	8:10	4/22/22	12:51	67.1	30.0
S	496190	DESK	2041	4/19/22	8:12	4/22/22	12:52	66.5	30.3
S	498089	DESK	2044	4/19/22	8:12	4/22/22	12:53	66.3	32.2
S	498156	TABLE	2046	4/19/22	8:14	4/22/22	12:55	66.3	30.2
S	498033	DESK	2047	4/19/22	8:16	4/22/22	12:55	66.3	30.2
S	498233	TABLE	2048	4/19/22	8:16	4/22/22	12:56	66.7	30.3

Relinquished by (Sign):

Date: 4/22/22 Time: 5:03

Received by EMSL (Sign): Katherine Viaud

Date: 4-22-22 Time: 5:03 pm



**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 #:

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	496303	CHAIR	2049 2049	4/19/22	8:17	4/22/22	12:57	67.1	30.1
S	498044	DESK	2049A	4/19/22	8:18	4/22/22	12:57	67.1	29.3
D	497998								
S	498031	DESK	2050	4/19/22	8:21	4/22/22	12:59	67.4	30.3
S	498202	TABLE	2053	4/19/22	8:22	4/22/22	1:01	67.1	30.3
S	496250	DESK	2061	4/19/22	8:24	4/22/22	1:02	66.9	29.3
S	497989	DESK	2063	4/19/22	8:25	4/22/22	1:03	66.5	29.3
S	496164	DESK	2065	4/19/22	8:25	4/22/22	1:04	66.3	30.3
S	496181	DESK	2068	4/19/22	8:26	4/22/22	1:05	66.7	30.3
S	498115	DESK	2070	4/19/22	8:27	4/22/22	1:06	66.7	29.3
S	498072	DESK	2071	4/19/22	8:27	4/22/22	1:06	66.3	30.2
S	498180	DESK	2073	4/19/22	8:29	4/22/22	1:07	66.0	30.2
S	498071	CHAIR	2077	4/19/22	8:30	4/22/22	1:09	66.3	31.9
D	498739								
S	498011	DESK	1055	4/19/22	8:32	4/22/22	1:11	67.1	28.3
B	498204								

RECEIVED BY
 EMSL ANALYTICAL
 CARLE PLACE
 2022 APR 22

Relinquished by (Sign):

Date: 4/22/22 Time: 3 Page of 3

Received by EMSL (Sign): Katherine Viaud

Date: 4-22-22 Time: 5:03 PM



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:	382203288
CustomerID:	JCBR50
CustomerPO:	22-51127
ProjectID:	

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

Phone: (631) 584-5492
 Fax:
 Received: 4/25/2022 09:10 AM
 Analysis Date: 4/25/2022
 Collected: 4/19/2022

Project: **Baylis ES/580 Woodbury Road/22-51127**

Test **Baylis ES**
 Site: **580 Woodbury Road**
Plainview, NY 11803

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
498077 382203288-0001	Desk-2005	0.4	4/19/2022 7:48:00 AM	4/22/2022 12:35:00 PM	69	27	Customer
Sample Notes:							
498710 382203288-0002	Desk-2005	0.4	4/19/2022 7:48:00 AM	4/22/2022 12:35:00 PM	69	27	Duplicate
Sample Notes: Duplicate's Customer Sample:382203288-0001							
Duplicate RPD = 0.0%							
496184 382203288-0003	Desk-2006	0.5	4/19/2022 7:50:00 AM	4/22/2022 12:38:00 PM	68	26	Customer
Sample Notes:							
498152 382203288-0004	Desk-2007	0.1	4/19/2022 7:51:00 AM	4/22/2022 12:39:00 PM	69	27	Customer
Sample Notes:							
498057 382203288-0005	Desk-2008	0.4	4/19/2022 7:52:00 AM	4/22/2022 12:39:00 PM	69	26	Customer
Sample Notes:							
498155 382203288-0006	Desk-2008	0	4/19/2022 7:52:00 AM	4/22/2022 12:39:00 PM	69	26	Blank
Sample Notes:							
496189 382203288-0007	Desk-2009	0.5	4/19/2022 7:53:00 AM	4/22/2022 12:40:00 PM	69	27	Customer
Sample Notes:							
498129 382203288-0008	Desk-2010	0.6	4/19/2022 7:56:00 AM	4/22/2022 12:41:00 PM	69	27	Customer
Sample Notes:							
496256 382203288-0009	Desk-2011	0.3	4/19/2022 7:57:00 AM	4/22/2022 12:41:00 PM	68	27	Customer
Sample Notes:							
498116 382203288-0010	Desk-2012	0.6	4/19/2022 7:59:00 AM	4/22/2022 12:43:00 PM	69	26	Customer
Sample 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

EMSL Order:	382203288
CustomerID:	JCBR50
CustomerPO:	22-51127
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
498255 382203288-0011	Desk-2013	0.4	4/19/2022 8:00:00 AM	4/22/2022 12:43:00 PM	69	30	Customer
Sample Notes:							
498087 382203288-0012	Desk-2015	0.4	4/19/2022 8:01:00 AM	4/22/2022 12:44:00 PM	68	27	Customer
Sample Notes:							
498119 382203288-0013	Table-2020	0.7	4/19/2022 8:02:00 AM	4/22/2022 12:45:00 PM	68	27	Customer
Sample Notes:							
497999 382203288-0014	Table-2021	0.6	4/19/2022 8:04:00 AM	4/22/2022 12:46:00 PM	69	28	Customer
Sample Notes:							
498191 382203288-0015	Desk-2022	1.3	4/19/2022 8:05:00 AM	4/22/2022 12:47:00 PM	68	28	Customer
Sample Notes:							
498107 382203288-0016	Desk-2026	0.9	4/19/2022 8:07:00 AM	4/22/2022 12:48:00 PM	67	30	Customer
Sample Notes:							
498543 382203288-0017	Desk-2026	0.9	4/19/2022 8:07:00 AM	4/22/2022 12:48:00 PM	67	30	Duplicate
Sample Notes: Duplicate's Customer Sample:382203288-0016 Duplicate RPD = 0.0%							
498088 382203288-0018	Desk-2029	0.9	4/19/2022 8:08:00 AM	4/22/2022 12:49:00 PM	67	30	Customer
Sample Notes:							
498040 382203288-0019	Desk-2029	-0.2	4/19/2022 8:08:00 AM	4/22/2022 12:49:00 PM	67	30	Blank
Sample Notes:							
496162 382203288-0020	Desk-2032	1.2	4/19/2022 8:09:00 AM	4/22/2022 12:50:00 PM	67	31	Customer
Sample Notes:							
498123 382203288-0021	Desk-2035	1.1	4/19/2022 8:10:00 AM	4/22/2022 12:51:00 PM	67	30	Customer
Sample Notes:							
498098 382203288-0022	Desk-2038	1	4/19/2022 8:10:00 AM	4/22/2022 12:51:00 PM	67	30	Customer
Sample Notes:							
496190 382203288-0023	Desk-2041	0.7	4/19/2022 8:12:00 AM	4/22/2022 12:52:00 PM	67	30	Customer
Sample Notes:							

Please visit www.radontestinglab.com



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:	382203288
CustomerID:	JCBR50
CustomerPO:	22-51127
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
498089 382203288-0024	Desk-2044	1	4/19/2022 8:12:00 AM	4/22/2022 12:53:00 PM	66	32	Customer
Sample Notes:							
498156 382203288-0025	Table-2046	1	4/19/2022 8:14:00 AM	4/22/2022 12:55:00 PM	66	30	Customer
Sample Notes:							
498033 382203288-0026	Desk-2047	0.7	4/19/2022 8:16:00 AM	4/22/2022 12:55:00 PM	66	30	Customer
Sample Notes:							
498233 382203288-0027	Table-2048	0.9	4/19/2022 8:16:00 AM	4/22/2022 12:56:00 PM	67	30	Customer
Sample Notes:							
496303 382203288-0028	Chair-2049	1.1	4/19/2022 8:17:00 AM	4/22/2022 12:57:00 PM	67	30	Customer
Sample Notes:							
498044 382203288-0029	Desk-2049A	1	4/19/2022 8:18:00 AM	4/22/2022 12:57:00 PM	67	29	Customer
Sample Notes:							
497998 382203288-0030	Desk-2049A	1	4/19/2022 8:18:00 AM	4/22/2022 12:57:00 PM	67	29	Duplicate
Sample Notes: Duplicate's Customer Sample:382203288-0029 Duplicate RPD = 0.0%							
498031 382203288-0031	Desk-2050	0.9	4/19/2022 8:21:00 AM	4/22/2022 12:59:00 PM	67	30	Customer
Sample Notes:							
498202 382203288-0032	Table-2053	1.2	4/19/2022 8:22:00 AM	4/22/2022 1:01:00 PM	67	30	Customer
Sample Notes:							
496250 382203288-0033	Desk-2061	1.3	4/19/2022 8:24:00 AM	4/22/2022 1:02:00 PM	67	29	Customer
Sample Notes:							
497989 382203288-0034	Desk-2063	0.7	4/19/2022 8:25:00 AM	4/22/2022 1:03:00 PM	67	29	Customer
Sample Notes:							
496164 382203288-0035	Desk-2065	1.2	4/19/2022 8:25:00 AM	4/22/2022 1:04:00 PM	66	30	Customer
Sample Notes:							
496181 382203288-0036	Desk-2068	1.1	4/19/2022 8:26:00 AM	4/22/2022 1:05:00 PM	67	30	Customer
Sample Notes:							

Please visit www.radontestinglab.com



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:	382203288
CustomerID:	JCBR50
CustomerPO:	22-51127
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
498115 382203288-0037	Desk-2070	0.9	4/19/2022 8:27:00 AM	4/22/2022 1:06:00 PM	67	29	Customer
Sample Notes:							
498072 382203288-0038	Desk-2071	1.2	4/19/2022 8:27:00 AM	4/22/2022 1:06:00 PM	66	30	Customer
Sample Notes:							
498180 382203288-0039	Desk-2073	1.1	4/19/2022 8:29:00 AM	4/22/2022 1:07:00 PM	66	30	Customer
Sample Notes:							
498071 382203288-0040	Chair-2077	1	4/19/2022 8:30:00 AM	4/22/2022 1:09:00 PM	66	32	Customer
Sample Notes:							
498739 382203288-0041	Chair-2077	0.7	4/19/2022 8:30:00 AM	4/22/2022 1:09:00 PM	66	32	Duplicate
Sample Notes: Duplicate's Customer Sample:382203288-0040					Duplicate RPD = 35.3%		
498011 382203288-0042	Desk-1055	1.2	4/19/2022 8:32:00 AM	4/22/2022 1:11:00 PM	67	28	Customer
Sample Notes:							
498264 382203288-0043	Desk-1055	-0.3	4/19/2022 8:32:00 AM	4/22/2022 1:11:00 PM	67	28	Blank
Sample Notes:							

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

EMSL Order:	382203288
CustomerID:	JCBR50
CustomerPO:	22-51127
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
-------------------------	----------	------------------------	-------	------	---------------	------------	-------------

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)

Kevin Schwartz (43)

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 04/27/2022 12:59:50