

RADON INVESTIGATION REPORT

**CENTRAL BOULEVARD
ELEMENTARY SCHOOL
60 CENTRAL BOULEVARD
BETHPAGE, NEW YORK 11714**

**PREPARED FOR:
BETHPAGE UNION FREE SCHOOL DISTRICT
10 CHERRY AVENUE
BETHPAGE, NEW YORK 11714**

**JCB PROJECT #: 19-42645
MAY 2019**

**J.C. BRODERICK & ASSOCIATES, INC.
Environmental Consulting & Testing**

**1775 Expressway Drive North
Hauppauge, New York 11788
631-584-5492 Fax: 631-584-3395**



Table of Contents

Section No. 1.0: Introduction	1
Section No. 2.0: Site Description and Location	1
Section No. 3.0: Previous Radon Screening Sampling and Analysis	1
Section No. 4.0: Radon Sampling and Analysis.....	1
Section No. 5.0: Radon Laboratory Analytical Summary.....	2
Section No. 6.0: Quality Assurance and Quality Control (QA/QC) Procedures.....	3
Section No. 7.0: Recommendations	4

List of Tables

Table No. 1 - Summary of Radon Samples Submitted for Laboratory Analysis

Table No. 2 - Summary of Radon Samples Analysis Results – February 19, 2019

List of Figures

Figure 1 - Site Location Map

Figure 2 - Crawlspace and Basement Sampling Locations

Appendices

Appendix A - Figures

Appendix B - Field Photograph Logs

Appendix C - Laboratory Analytical Report

Section No. 1.0: Introduction

J.C. Broderick and Associates (JCB) was retained by the Bethpage Union Free School District (Bethpage) to perform an indoor air survey for radon gas as a result of identifying radium in the local groundwater by the Bethpage Water District and by JCB during our annual groundwater investigation at the Bethpage High School and Central Boulevard Elementary School.

Section No. 2.0: Site Description and Location

The Subject Site is located at 60 Central Boulevard, Bethpage, New York 11714, at the western terminus of Central Boulevard. According to the United States Geological Survey (USGS) *Amityville, New York, 2016 7.5 Minute Series Topographical Map*, the Subject Site is situated at an approximate elevation of 98 feet (ft.) above mean sea level. The location of the Subject Site is shown on the Site Location Map, Appendix-A Figure-1.

Section No. 3.0: Previous Radon Screening Sampling and Analysis

The detection of Radium 226 and 228 during annual testing of the groundwater at Bethpage High School prompted the sampling and analysis of the groundwater for Radium at the Central Boulevard Elementary School. In August 2017, JCB installed three (3) groundwater monitoring wells at the Central Boulevard Elementary School campus. During this investigation Radium was detected in the groundwater, as a result the building was tested for Radon. The laboratory analysis results from the Radon screening revealed concentrations of Radon exceeding 4.0 pCi/L; however, only in not frequently occupied rooms and spaces.

As a result of these findings in August 2017 an isolation barrier was installed over the sand floor of the crawl spaces throughout the school building. After the installation of the isolation barrier, JCB performed follow-up testing at the same sampling locations. The laboratory analysis results from the Radon in Air samples submitted indicated radon levels below 4.0 pCi/L at all sampling locations tested.

Section No. 4.0: Radon Sampling and Analysis

The United States Environmental Protection Agency (EPA) *Radon Measurement in Schools Revised Edition* (EPA 402-R-92-014), dated July 1993 guidance document recommends that a Radon assessment should be performed under closed conditions during the heating season. JCB coordinated with the school district to conduct the sampling during the winter recess.

On February 15, 2019, JCB set up short-term Radon in Air test kits in six (6) basement storage rooms and spaces and eight (8) crawl spaces within the basement of the elementary school building that were in contact with the ground. The sampling devices were collected on February 19, 2018 after at least three days of exposure.

The following table summarizes the Radon samples submitted for laboratory analysis:

Table No. 1: Summary of Radon Samples Submitted for Laboratory Analysis				
Sample ID#	Sample Start Date	Sample End Date	Description of Sample	Analysis Method
Basement/Crawlspace				
Rm 0004	02/15/19	02/19/19	Basement Storage Room	Radon in Air
Rm 0005	02/15/19	02/19/19	Basement Storage Room	Radon in Air
Hall 0011	02/15/19	02/19/19	Basement Hallway	Radon in Air
Rm 0006	02/15/19	02/19/19	Basement Storage Room	Radon in Air
Rm 0006 Dup	02/15/19	02/19/19	Basement Storage Room	Radon in Air
Rm 0007	02/15/19	02/19/19	Basement Storage Room	Radon in Air
Crawl 0003	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0003 Blank	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0002	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0002 Dup	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0002A	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0002B	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0008	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0009	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0010	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0010 Dup	02/15/19	02/19/19	Crawl Space	Radon in Air
Crawl 0010A	02/15/19	02/19/19	Crawl Space	Radon in Air
Hall 0011A	02/15/19	02/19/19	Basement Hallway	Radon in Air
Hall 0011A Blank	02/15/19	02/19/19	Basement Hallway	Radon in Air
Notes: Rm = Room Crawl = Crawl Space Dup = Duplicate Sample Blank = Field Blank				

Section No. 5.0: 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 *Radon Measurement in Schools Revised Edition* (EPA 402-R-92-014), dated July 1993.

The following table summarizes the Radon Analytical Results:

Table No. 2: Summary of Radon Samples Analysis Results - February 19, 2019			
Sample ID#	Box Number	Sample Device Number	Radon Activity pCi/L
Rm 0004	188516	327027	1.3
Rm 0005	188517	327032	1.3
Hall 0011	188524	327156	1.4
Rm 0006	188518	327074	1.1
Rm 0006 Dup	188518	327089	1.1
Rm 0007	188519	327062	1.3
Crawl 0003	188515	327154	NT
Crawl 0003 Blank	188515	327145	0.1
Crawl 0002	188512	327101	2.3
Crawl 0002 Dup	188512	327148	2.1
Crawl 0002A	188513	327011	2
Crawl 0002B	188514	327102	1.9
Crawl 0008	188520	327114	0.7
Crawl 0009	188521	327141	1.7
Crawl 0010	188522	327100	1.3
Crawl 0010 Dup	188522	327035	1.7
Crawl 0010A	188523	327146	1.3
Hall 0011A	188525	327131	1.7
Hall 0011A Blank	188525	327026	0
Notes: Rm = Room Crawl = Crawl Space NT = Not Tested, Sample Compromised Dup = Duplicate Sample Blank = Field Blank			

The laboratory analysis results from the Radon in Air samples and duplicates submitted did not reveal any elevated concentrations of Radon exceeding 4.0 pCi/L, the referenced guidance value established by the EPA.

Section No. 6.0: Quality Assurance and Quality Control (QA/QC) Procedures

To ensure that measurement results are reliable, JCB performed unexposed control detectors (blanks) side-by-side with the sampling device at each sampling location.

The field sampling team-maintained Radon sampling chain of custody records used to track samples from sampling point to analysis which summarized the following:

- Sample identification;
- Test Kit ID number;
- Device ID number;
- Sampling beginning date and time;
- Sampling ending date and time;
- Temperature, °F;
- Humidity, %;

Section No. 7.0: Recommendations

Based upon the sampling results reported, the USEPA decision matrix does not recommend any additional mitigation for Radon.

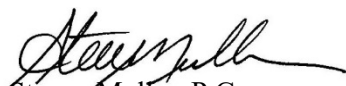
Due to the detection of Radium 226 and 228 in the local groundwater, JCB does recommend that continued monitoring for Radon in Air within the school building be performed to confirm the effectiveness of the installed isolation barrier.

Sincerely,

J.C. Broderick & Associates, Inc.



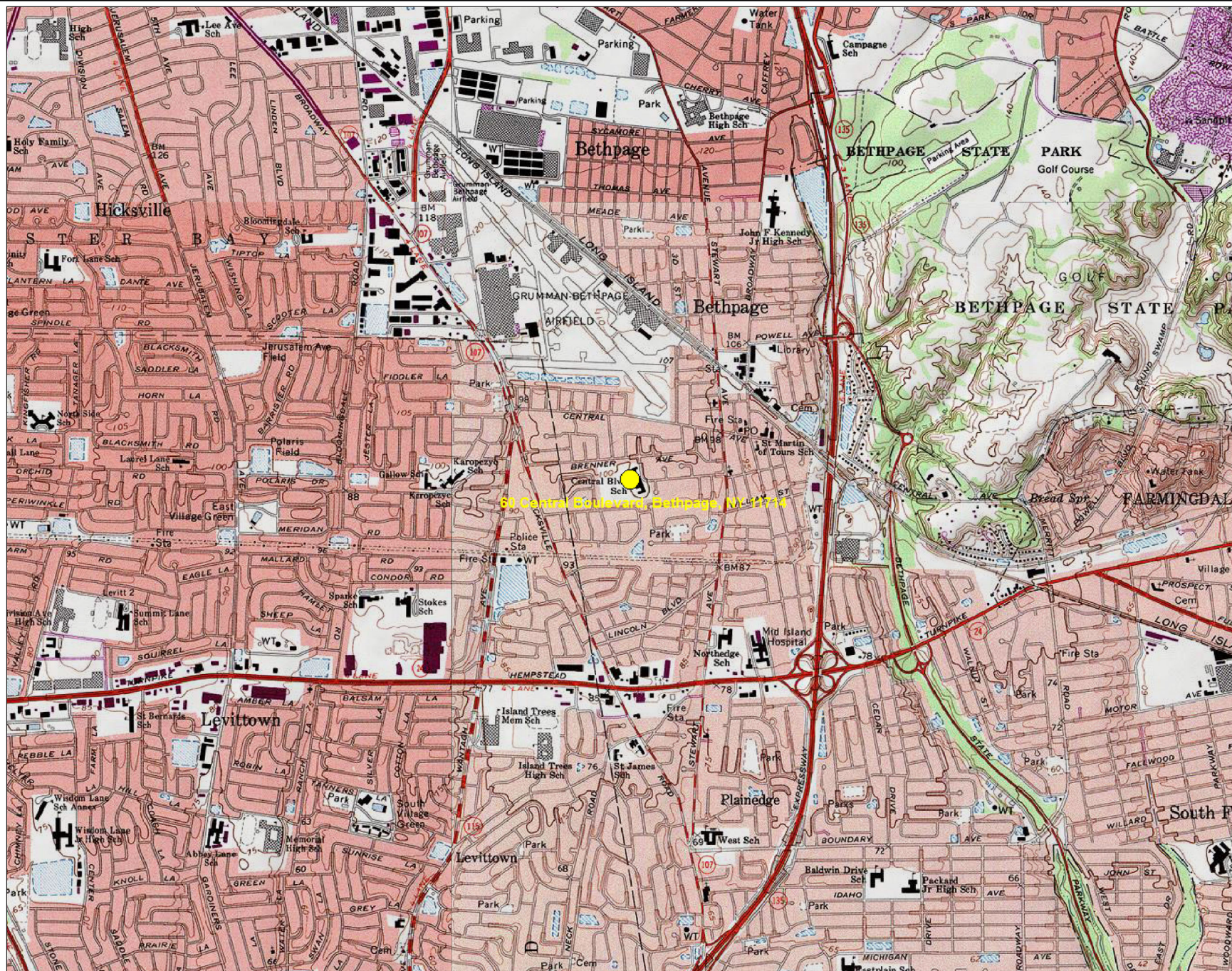
Jeffrey V. Nannini
Environmental Scientist



Steven Muller, P.G.
Project Manager

Appendix A

Figures



JCB LEGEND
 ● SUBJECT SITE

0 1000 FEET 0 500 1000 METERS
 Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)



J.C. BRODERICK

& Associates
 Environmental Consulting and
 Testing
 1775 Express Drive North
 Hauppauge, NY 11788
 Phone: (631).584.5492
 Fax: (631).584.3395

Notes:

Central Boulevard
 Elementary School
 60 Central Boulevard
 Bethpage, NY 11714

Drawing Title

Figure No. 1
 Site Location Map

Scale As Noted Project No. 19-42645 Date 02-19-19

Drawn By J.V.N. Checked By S.W.M. Page No. 1 of 2

Drawing No.

1



J.C. BRODERICK

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Notes:

Central Boulevard
Elementary School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title

Figure No. 2

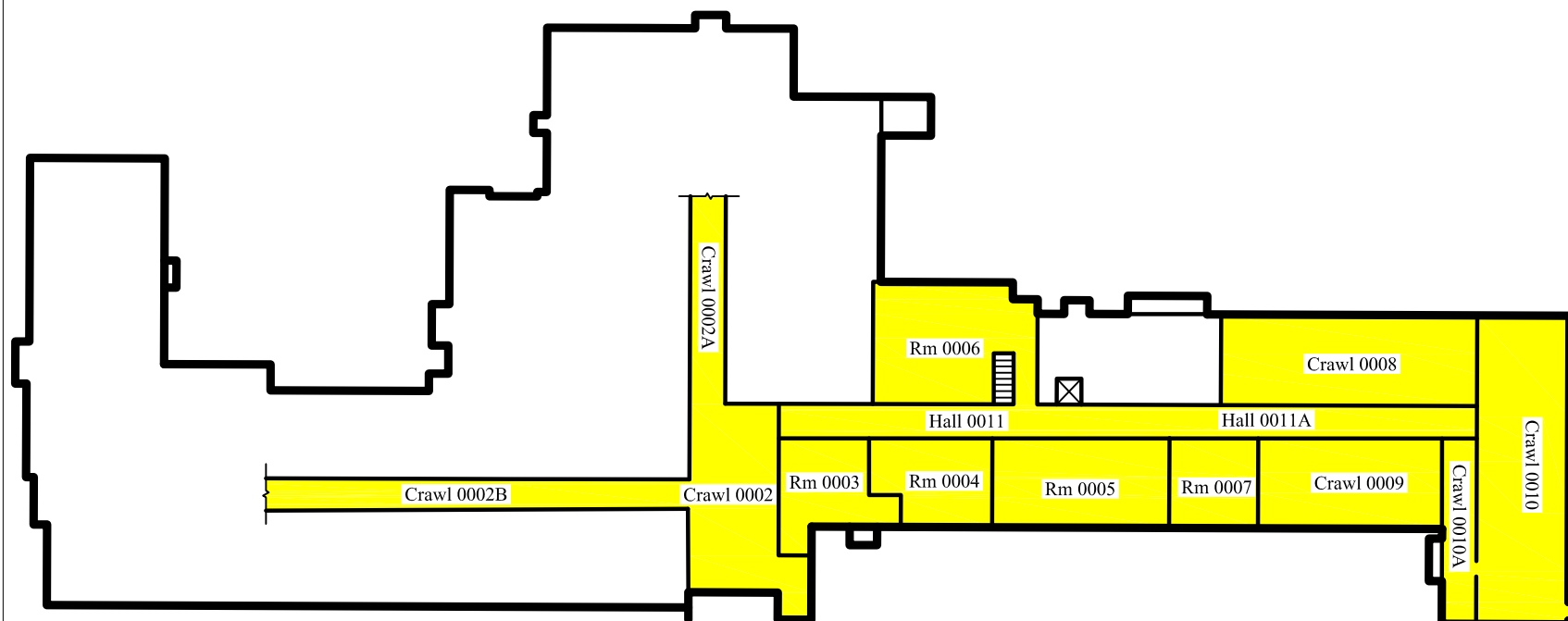
Crawlspace
and
Basement
Sampling
Locations

Scale	Project No.	Date
N.T.S.	19-42645	02-19-19

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	2 of 2

Drawing No.

2



PROJECT



NORTH

JCB LEGEND
■ RADON SAMPLE LOCATION

Appendix B

Field Photograph Logs

Radon Sampling Location Within Storage Room in Basement



Field Photograph Log

Radon Investigation Report

Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714

Photo No. 01

JCB#: 19-42645

Radon Sampling Location Within Hallway in Basement



Field Photograph Log

Radon Investigation Report

**Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714**

Photo No. 02

JCB#: 19-42645

Radon Sampling Location Within Crawlspace



Field Photograph Log

Radon Investigation Report

**Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714**

Photo No. 03

JCB#: 19-42645

Radon Sampling Location Within Basement Office



Field Photograph Log

Radon Investigation Report

Central Boulevard Elementary School
60 Central Boulevard
Bethpage, New York 11714

Photo No. 04

JCB#: 19-42645

Appendix C

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

EMSL Order: 381901783

CustomerID: JCBR50

CustomerPO: 19-42654

ProjectID:

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

Phone: (631) 584-5492
Fax:
Received: 02/21/19 3:15 PM
Analysis Date: 2/22/2019
Collected: 2/15/2019

Project: **Central Blvd ES**

Test Site: **Central Blvd ES**
60 Central Blvd.
Bethpage, NY 11714

Test Report: Radon in Air Test Results**Samples for EMSL Kit 188512**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327101 381901783-0001	Crawl 0002	2.3	2/15/2019 6:35:00 PM	2/19/2019 8:50:00 AM	76	20	Customer

Sample Notes:

327148 381901783-0002	Crawl 0002	2.1	2/15/2019 6:35:00 PM	2/19/2019 8:50:00 AM	76	20	Duplicate
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Sample Notes:**Duplicate RPD = 9.1%****Samples for EMSL Kit 188513**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327011 381901783-0003	Crawl 0002A	2	2/15/2019 6:36:00 PM	2/19/2019 8:51:00 AM	78	20	Customer

Sample Notes:**Samples for EMSL Kit 188514**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327102 381901783-0004	Crawl 0002B	1.9	2/15/2019 6:37:00 PM	2/19/2019 8:52:00 AM	76	30	Customer

Sample Notes:**Samples for EMSL Kit 188515**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327154 381901783-0005	Crawl 0003		2/15/2019 6:41:00 PM	2/19/2019 8:55:00 AM	76	30	Customer

Sample Notes: Not Analyzed
Received open; unable to analyze.

327145 381901783-0006	Crawl 0003 Blank	0.1	2/15/2019 6:41:00 PM	2/19/2019 8:55:00 AM	0	0	Blank
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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: 381901783

CustomerID: JCBR50

CustomerPO: 19-42654

ProjectID:

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

Phone: (631) 584-5492
Fax:
Received: 02/21/19 3:15 PM
Analysis Date: 2/22/2019
Collected: 2/15/2019

Project: **Central Blvd ES**

Test Site: **Central Blvd ES**
60 Central Blvd.
Bethpage, NY 11714

Test Report: Radon in Air Test Results**Samples for EMSL Kit 188516**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327027	Rm 0004	1.3	2/15/2019	2/19/2019	70	20	Customer
381901783-0007			6:43:00 PM	9:07:00 AM			

Sample Notes:**Samples for EMSL Kit 188517**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327032	Rm 0005	1.3	2/15/2019	2/19/2019	72	20	Customer
381901783-0008			6:45:00 PM	8:56:00 AM			

Sample Notes:**Samples for EMSL Kit 188518**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327074	Rm 0006	1.1	2/15/2019	2/19/2019	76	20	Customer
381901783-0009			6:46:00 PM	8:57:00 AM			

Sample Notes:

327089	Rm 0006 Dup	1.1	2/15/2019	2/19/2019	76	20	Duplicate
381901783-0010			6:46:00 PM	8:57:00 AM			

Sample Notes:**Duplicate RPD = 0%****Samples for EMSL Kit 188519**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327062	Rm 0007	1.3	2/15/2019	2/19/2019	72	20	Customer
381901783-0011			6:47:00 PM	8:58:00 AM			

Sample Notes:**Samples for EMSL Kit 188520**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327114	Crawl 0008	0.7	2/15/2019	2/19/2019	66	20	Customer
381901783-0012			6:51:00 PM	9:02:00 AM			

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: 381901783

CustomerID: JCBR50

CustomerPO: 19-42654

ProjectID:

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

Phone: (631) 584-5492
Fax:
Received: 02/21/19 3:15 PM
Analysis Date: 2/22/2019
Collected: 2/15/2019

Project: **Central Blvd ES**

Test Site: **Central Blvd ES**
60 Central Blvd.
Bethpage, NY 11714

Test Report: Radon in Air Test Results**Samples for EMSL Kit 188521**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327141	Crawl 0009	1.7	2/15/2019	2/19/2019	70	20	Customer
381901783-0013			6:49:00 PM	9:05:00 AM			

Sample Notes:**Samples for EMSL Kit 188522**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327100	Crawl 0010	1.3	2/15/2019	2/19/2019	64	30	Customer
381901783-0014			6:50:00 PM	9:03:00 AM			

Sample Notes:

327035	Crawl 0010	1.7	2/15/2019	2/19/2019	64	30	Duplicate
381901783-0015			6:52:00 PM	9:03:00 AM			

Sample Notes:**Duplicate RPD = 26.7%****Samples for EMSL Kit 188523**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327146	Crawl 0010A	1.3	2/15/2019	2/19/2019	64	20	Customer
381901783-0016			6:59:00 PM	9:04:00 AM			

Sample Notes:**Samples for EMSL Kit 188524**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327156	Hall 0011	1.4	2/15/2019	2/19/2019	76	20	Customer
381901783-0017			7:01:00 PM	8:54:00 AM			

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

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Phone: (631) 584-5492
Fax:
Received: 02/21/19 3:15 PM
Analysis Date: 2/22/2019
Collected: 2/15/2019

Project: **Central Blvd ES**

Test Site: **Central Blvd ES**
60 Central Blvd.
Bethpage, NY 11714

Test Report: Radon in Air Test Results**Samples for EMSL Kit 188525**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
327131	Hall 0011A	1.7	2/15/2019	2/19/2019	70	20	Customer
381901783-0018			7:03:00 PM	9:00:00 AM			
Sample Notes:							
327026	Hall 0011A	0	2/15/2019	2/19/2019	0	0	Blank
381901783-0019			7:03:00 PM	9:00:00 AM			
Sample Notes:							

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The EPA recommends retesting your home 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.

Report Note

Analyst(s)

Drew Bush (18)

Laura Freeman, 10872 & Michael Menz, CIH

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 Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #109000AL, KS-LB-0005, IL RNL2008202.

Initial report from 02/27/2019 13:33:12

Please visit www.radontestinglab.com



EMSL ANALYTICAL, INC.

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

EMSL Job #: 381901783

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

PHONE: 800-220-3675
FAX: 856-786-0327

Company Information

Company Name: JCBRODERICK & ASSOC
 EMSL Account #: JCBR50 2 day
 Contact: STEVEN MULLER
 Address: 1775 EXPRESSWAY DR. N
 City: HADDONSBURG
 State: NY Zip Code: 11788
 Phone: 631-584-5492
 Fax: 631-584-5895
 Email: SMULLER@JCBRODERICK.COM

Project / Property Information:

Name: CENTRAL BLVD ES
 Address: 60 CENTRAL BLVD
 City: BETHPAGE
 Municipality: _____ County: NASSAU
 State: NEW YORK Zip Code: 11714
 PO# / Project #: 19-42654
☐ Please check box if this is a Post Mitigation Test
 Technician Name: STEVEN MULLER
 Technician Certification #: _____
 Technician Signature: [Signature]

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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.

Box Number	Device Number	Location	Exposure Period Beginning Date and Time	Exposure Period Ending Date and Time	Temperature, °F	Humidity, %
188512	327101	CRAWL 0002	2/15/19 1835	2/19/19 850	76	20
188512	327148	CRAWL 0002 (DUP)	2/15/19 1835	2/19/19 850	76	20
188513	327011	CRAWL 0002A	2/15/19 1836	2/19/19 851	78	20
188514	327102	CRAWL 0002B	2/15/19 1837	2/19/19 852	76	30
188515	327154	CRAWL 0003	2/15/19 1841	2/19/19 855	76	30
188515	Blank 327145	CRAWL 0003 BLANK				
188516	327027	Rm 0004	2/15/19 1843	2/19/19 907	70	20
188517	327032	Rm 0005	2/15/19 1845	2/19/19 856	72	20
188518	327074	Rm 0006	2/15/19 1846	2/19/19 857	76	20
188518	DUP 327089	Rm 0006 DUP	2/15/19 1846	2/19/19 857	76	20
188519	327062	Rm 0007	2/15/19 1847	2/19/19 858	72	20
188520	327114	CRAWL 0008	2/15/19 1851	2/19/19 902	65	20

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