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 #: 22-54420
MAY 2022

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

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

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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 the 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. Groundwater is estimated at approximately 40 feet below surface grade (bsg). 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.

JCB continued to perform annual basement/crawlspace radon in air sampling and testing. In April 2021 the testing indicated radon levels ranging in concentration from 4.2 pCi/L to 6.2 pCi/L in seven (7) of the basement storage spaces and crawlspaces tested. As a result of the concentrations detected and per USEPA guidance a follow-up short-term test was performed in August 2021. The additional testing indicated radon levels ranging in concentration from 4.1 pCi/L to 5.0 pCi/L in two (2) of the crawlspaces tested.

The American Association of Radon Scientists and Technologists (AARST) Consortium on National Radon Standards *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings, 2014* guidance document recommends that a long-term radon in air test be performed after a short-term test and a follow-up short-term test indicates radon concentrations equal to or greater than 4.0 pCi/L. A long-term test is considered over 90-days with preferred durations of a full year or significant occupancy (school year). JCB coordinated with the school district to conduct the sampling during the 2021-2022 school year. The results of the long-term test were reported in JCB's *Long-Term Radon Investigation Report* dated September 2022 (JCB Project #: 21-49986). The long-term testing confirmed the previous short-term testing with Radon concentrations slightly over 4.0 pCi/L. It should be noted that these spaces are not frequently occupied spaces as defined by the EPA and cannot be occupiable with little or no modification.

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 spring recess.

On April 10, 2023, JCB set up short-term Radon in Air test kits in seven (7) basement storage rooms and spaces and seven (7) crawlspaces within the basement of the elementary school building that were in contact with the ground. JCB also sampled eight (8) selected first floor spaces consistent with previous annual sampling events. The sampling devices were collected on April 13, 2023, after at least three days of exposure. In accordance with the EPA guidance document, in addition to the test kits, a total of two (3) duplicate (dup) samples and one (1) field blank samples were collected.

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

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

Sample Device Number	Location	Sample Start Date	Sample End Date	Description of Sample	Analysis Method
524399	Crawlspace – 0002	4/10/23	4/13/23	Crawlspace	Radon in Air
521399	Crawlspace – 0002A	4/10/23	4/13/23	Crawlspace	Radon in Air
521078	Crawlspace – 0002B	4/10/23	4/13/23	Crawlspace	Radon in Air
524408	Basement Storage Rm – 0003	4/10/23	4/13/23	Basement Storage Room	Radon in Air
521236	Basement Storage Rm - 0004	4/10/23	4/13/23	Basement Storage Room	Radon in Air
521378	Basement Storage Rm - 0005	4/10/23	4/13/23	Basement Storage Room	Radon in Air
524612	Basement Storage Rm - 0005	4/10/23	4/13/23	Basement Storage Room – Dup	Radon in Air
521175	Basement Storage Rm - 0006	4/10/23	4/13/23	Basement Storage Room	Radon in Air
524464	Basement Storage Rm - 0007	4/10/23	4/13/23	Basement Storage Room	Radon in Air
521555	Crawlspace – 0008	4/10/23	4/13/23	Crawlspace	Radon in Air
521397	Crawlspace – 0009	4/10/23	4/13/23	Crawlspace	Radon in Air
524427	Crawlspace – 0010	4/10/23	4/13/23	Crawlspace	Radon in Air
524417	Crawlspace – 0010	4/10/23	4/13/23	Crawlspace – Dup	Radon in Air
524440	Crawlspace – 0010A	4/10/23	4/13/23	Crawlspace	Radon in Air
524471	Basement Hallway – 0011	4/10/23	4/13/23	Basement Hallway	Radon in Air
521386	Basement Hallway – 0011A	4/10/23	4/13/23	Basement Hallway	Radon in Air
524458	Lounge Rm – 1000	4/10/23	4/13/23	Lounge Rm	Radon in Air
524384	First Floor Rm 109 – 1002	4/10/23	4/13/23	First Floor Rm 109	Radon in Air
521362	First Floor Rm 117 – 1006	4/10/23	4/13/23	First Floor Rm 117	Radon in Air
524624	First Floor Rm 117 – 1006	4/10/23	4/13/23	First Floor Rm 117 – Dup	Radon in Air
524370	First Floor Rm 119 – 1011	4/10/23	4/13/23	First Floor Rm 119	Radon in Air
524503	First Floor Hallway – 1015	4/10/23	4/13/23	First Floor Hallway	Radon in Air
524349	First Floor Hallway – 1018	4/10/23	4/13/23	First Floor Hallway	Radon in Air
524545	First Floor Hallway – 1029	4/10/23	4/13/23	First Floor Hallway	Radon in Air
521072	First Floor Hallway – 1046	4/10/23	4/13/23	First Floor Hallway	Radon in Air

Table No. 1: Summary of Radon Samples Submitted for Laboratory Analysis					
Sample Device Number	**Location**	**Sample Start Date**	**Sample End Date**	**Description of Sample**	**Analysis Method**
524311	First Floor Hallway – 1046	4/10/23	4/13/23	First Floor Hallway – Blank	Radon in Air

Notes:
Rm = Room
Dup = Duplicate Sample
Blank = Field Blank

Section No. 4.1: 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 – 04-13-23		
Sample Device Number	**Location**	**Radon Activity pCi/L**
524399	Crawlspace – 0002	**4.0**
521399	Crawlspace – 0002A	**4.6**
521078	Crawlspace – 0002B	**5.5**
524408	Basement Storage Rm – 0003	**4.9**
521236	Basement Storage Rm – 0004	**4.8**
521378	Basement Storage Rm – 0005	1.8
524612	Basement Storage Rm – 0005 – Dup	1.8
521175	Basement Storage Rm – 0006	2.2
524464	Basement Storage Rm – 0007	1.8
521555	Crawlspace – 0008	3.8
521397	Crawlspace – 0009	**4.0**
524427	Crawlspace – 0010	**4.7**
524417	Crawlspace – 0010 – Dup	**4.2**
524440	Crawlspace – 0010A	**4.4**
524471	Basement Hallway – 0011	3.9
521386	Basement Hallway – 0011A	3.1

Table No. 2: Summary of Radon Samples Analysis Results – 04-13-23		
Sample Device Number	**Location**	**Radon Activity pCi/L**
524458	Lounge Room – 1000	0.1
524384	First Floor Rm 109 – 1002	0.1
521362	First Floor Rm 117 – 1006	0.4
524624	First Floor Rm 117 – 1006 – Dup	-0.1
524370	First Floor Rm 119 – 1011	0.2
524503	First Floor Hallway – 1015	0.2
524349	First Floor Hallway – 1018	-0.1
524545	First Floor Hallway – 1029	0.1
521072	First Floor Hallway – 1046	0.2
524311	First Floor Hallway – 1046 – Blank	-0.1

The laboratory analysis results from the Radon in Air samples submitted did reveal detectable concentrations of Radon exceeding the guidance value established by the EPA in eight (8) of the 14 basement/crawlspace locations tested. It should be noted these spaces are not frequently occupied spaces as defined in the EPA referenced document. None of the first-floor spaces tested revealed detectable concentrations of Radon over 0.4 pCi/L.

Section No. 5.0: 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, ^{o}F;
- Humidity, %;

Section No. 6.0: Conclusions and Recommendations

The laboratory analysis results from the Radon in Air samples submitted did reveal detectable concentrations of Radon exceeding the guidance value established by the EPA in eight (8) of the 14 basement/crawlspace locations tested. It should be noted these spaces are not frequently occupied spaces as defined in the EPA referenced document. None of the first-floor spaces tested revealed detectable concentrations of Radon over 0.4 pCi/L.

The EPA recommends that "If the testing indicates radon concentrations equal to or greater than 4 pCi/L in any office area, classroom, exercise facility, meeting room, dining area or other common area, reduce the radon to below 4 pCi/L." Although the detectable concentrations of Radon exceeding the guidance

value were identified in not frequently occupied spaces, it was recommended that a mitigation strategy be developed. Additional design testing was performed, and a subsurface depressurization system (SSDS) designed to effectively mitigate any soil vapors including Radon from beneath the plastic barrier. The mitigation system is expected to be installed during the summer of 2023.

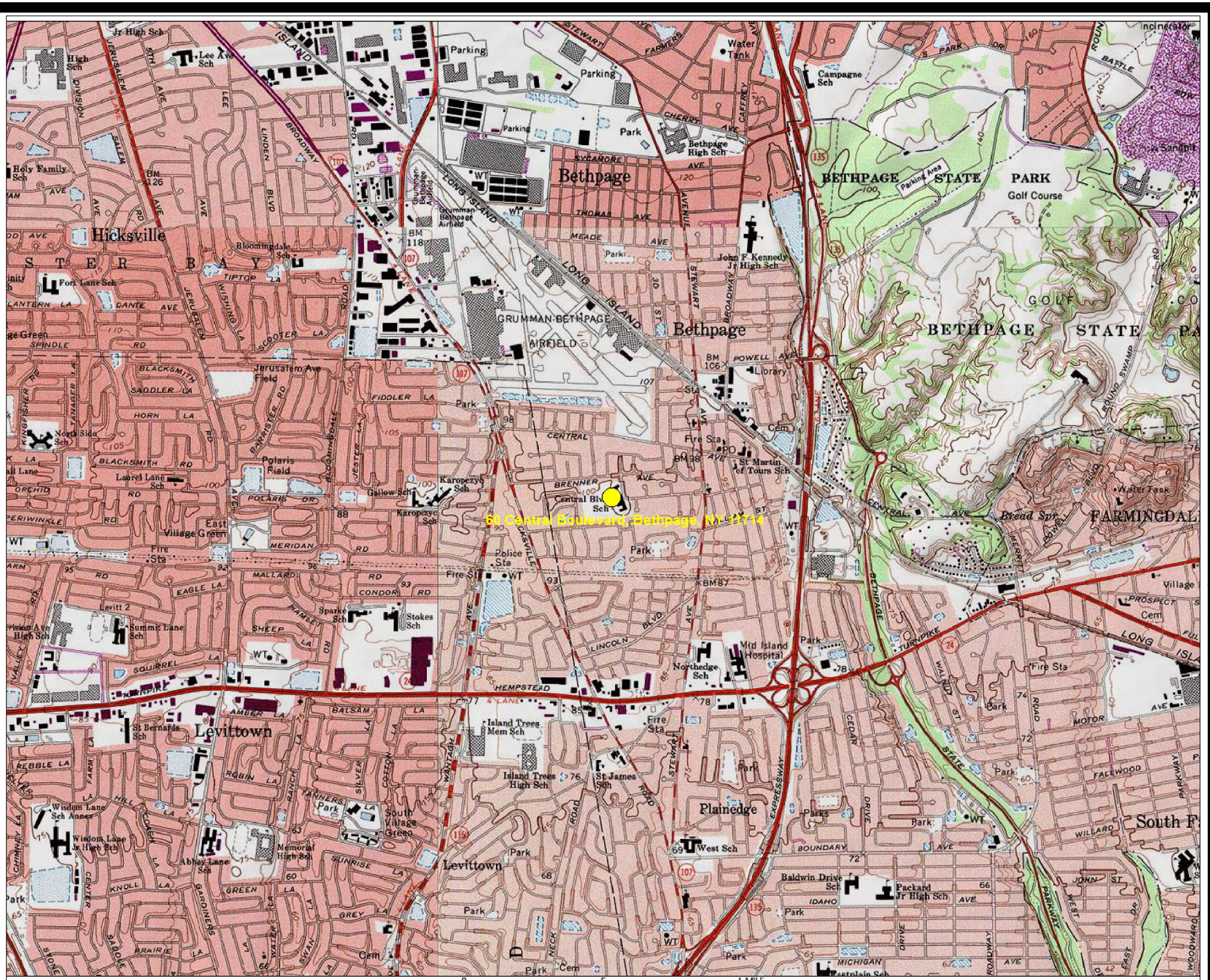
Due to the historic detection of Radium 226 and 228 in the local groundwater and Radon in the crawlspaces, JCB recommends that continued monitoring for Radon in Air within the school building be performed to confirm the effectiveness of the installed isolation barrier and future SSD system.

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

Jeffrey V. Nannini
Environmental Scientist

Steven Muller, P.G.
Project Manager

Appendix A
Figures



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Notes:

Central Boulevard
Elementary School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title

Figure No. 1

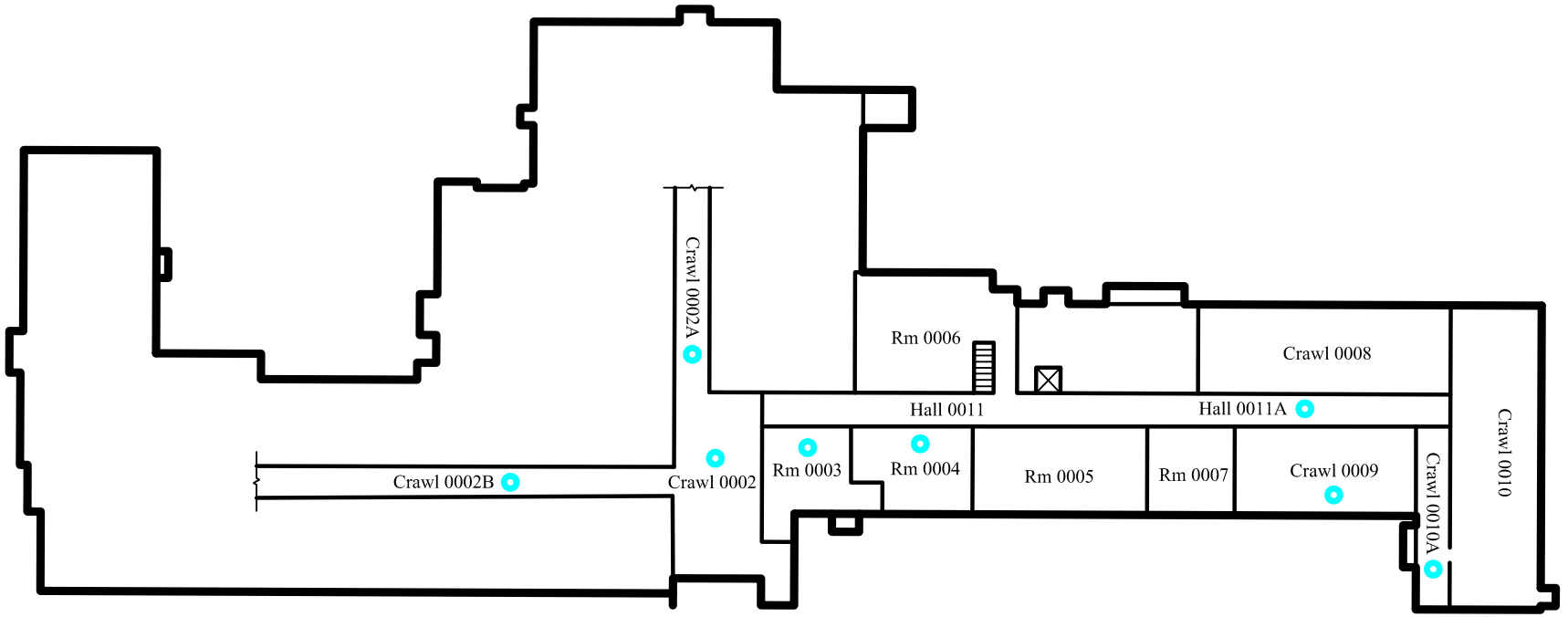
Site Location Map

Scale	Project No.	Date
As Noted	23-54420	04-13-23

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	1 of 3

Drawing No.

1



PROJECT

NORTH

JCB LEGEND

APRIL 13, 2023 SAMPLE LOCATION

J.C. BRODERICK
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1775 Express Drive North
Hauppauge, NY 11788
Phone: (631).584.5492
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Notes:

Central Boulevard
Elementary School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title

Figure No. 2

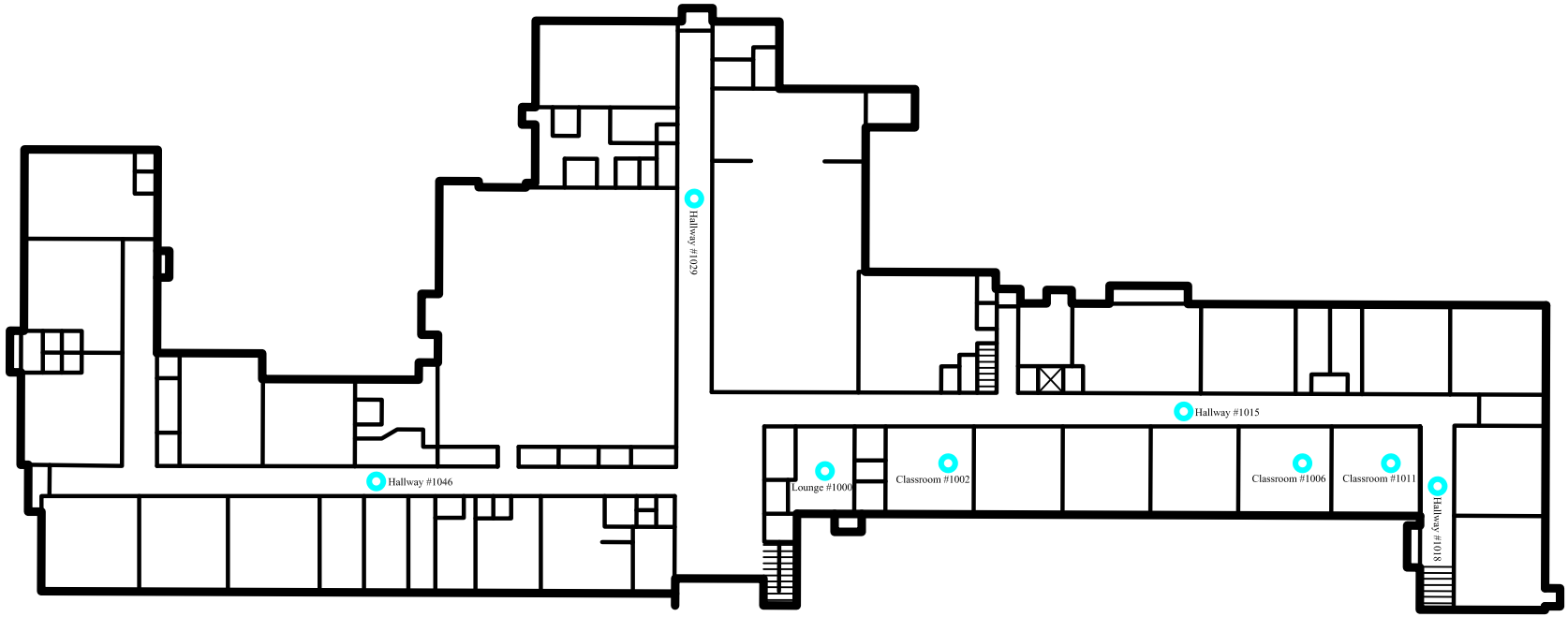
Crawlspace and Basement Sampling Locations

Scale	Project No.	Date
N.T.S.	23-54420	04-13-23

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	2 of 3

Drawing No.

2



PROJECT NORTH

JCB LEGEND

APRIL 13, 2023 SAMPLING LOCATION

J.C. BRODERICK & Associates
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Notes:

Central Boulevard
Elementary School
60 Central Boulevard
Bethpage, NY 11714

Drawing Title

Figure No. 3

First Floor
Sampling Locations

Scale	Project No.	Date
As Noted	23-54420	04-13-23

Drawn By	Checked By	Page No.
J.V.N.	S.W.M.	3 of 3

Drawing No.

3

Appendix B
Field Photograph Logs

Radon Sampling
Crawlspace

Field Photograph Log

Radon Investigation Report

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

Photo No. 01

JCB#: 23-54420

Radon Sampling
Basement Storage Room

Field Photograph Log

Radon Investigation Report

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

Photo No. 02

JCB#: 23-54420

Radon Sampling
Classroom

Field Photograph Log

Radon Investigation Report

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

Photo No. 03

JCB#: 23-54420

Radon Sampling
Hallway

Field Photograph Log

Radon Investigation Report

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

Photo No. 04

JCB#: 23-54420

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:	382302253
CustomerID:	JCBR50
CustomerPO:	23-54420
ProjectID:	

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

Phone:	(631) 584-5492
Fax:	
Received:	4/17/2023 11:25 AM
Analysis Date:	4/18/2023
Collected:	4/10/2023

Project: **Central Blvd. ES/ 23-54420**

Test Site: **Central Blvd. ES / 23-54420**
60 Central Boulevard
Bethpage, NY 11714

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
524399	Room # 0002 - Pipe	4	4/10/2023 9:47:00 AM	4/13/2023 12:58:00 PM	79	61	Customer
382302253-0001							
Sample Notes:							
521399	Room # 0002 A - Pipe	4.6	4/10/2023 9:48:00 AM	4/13/2023 12:59:00 PM	78	61	Customer
382302253-0002							
Sample Notes:							
521078	Room # 0002 B - Pipe	5.4	4/10/2023 9:49:00 AM	4/13/2023 1:00:00 PM	76	70	Customer
382302253-0003							
Sample Notes:							
524408	Room # 0003 - Pipe	4.9	4/10/2023 9:50:00 AM	4/13/2023 1:02:00 PM	75	64	Customer
382302253-0004							
Sample Notes:							
521236	Room # 0004 - Cart	4.8	4/10/2023 9:51:00 AM	4/13/2023 1:03:00 PM	75	61	Customer
382302253-0005							
Sample Notes:							
521378	Room # 0005 - Box	1.8	4/10/2023 9:52:00 AM	4/13/2023 1:04:00 PM	75	48	Customer
382302253-0006							
Sample Notes:							
524612	Room # 0005 - Box	1.8	4/10/2023 9:52:00 AM	4/13/2023 1:04:00 PM	75	48	Duplicate
382302253-0007					**Duplicate RPD = 0.0%**		
Sample Notes:	Duplicate's Customer Sample:382302253-0006						
524475	Room # 0006 - Cart	2.2	4/10/2023 9:55:00 AM	4/13/2023 1:05:00 PM	76	36	Customer
382302253-0008							
Sample Notes:							
524464	Room # 0007 - Cart	1.8	4/10/2023 9:57:00 AM	4/13/2023 1:06:00 PM	76	40	Customer
382302253-0009							
Sample Notes:							
521555	Room # 0008 - Pipe	3.8	4/10/2023 9:58:00 AM	4/13/2023 1:06:00 PM	74	35	Customer
382302253-0010							
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:	382302253
CustomerID:	JCBR50
CustomerPO:	23-54420
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
521397	Room # 0009 - Pipe	4	4/10/2023 9:59:00 AM	4/13/2023 1:07:00 PM	73	41	Customer
382302253-0011							
Sample Notes:							
524427	Room # 0010 - Pipe	4.7	4/10/2023 10:00:00 AM	4/13/2023 1:08:00 PM	71	40	Customer
382302253-0012							
Sample Notes:							
524417	Room # 0010 - Pipe	4.2	4/10/2023 10:00:00 AM	4/13/2023 1:08:00 PM	73	40	Duplicate
382302253-0013						**Duplicate RPD = 11.2%**	
Sample Notes:	Duplicate's Customer Sample:382302253-0012						
524440	Room # 0010 A - Pipe	4.4	4/10/2023 10:01:00 AM	4/13/2023 1:08:00 PM	76	40	Customer
382302253-0014							
Sample Notes:							
524471	Room # 0011 - Desk	3.9	4/10/2023 10:03:00 AM	4/13/2023 1:23:00 PM	76	53	Customer
382302253-0015							
Sample Notes:							
521386	Room # 0011 A - Cart	3.1	4/10/2023 10:04:00 AM	4/13/2023 1:22:00 PM	77	39	Customer
382302253-0016							
Sample Notes:							
524458	Room # 1000 - Table	0.1	4/10/2023 10:09:00 AM	4/13/2023 1:11:00 PM	77	35	Customer
382302253-0017							
Sample Notes:							
524384	Room # 1002 - Desk	0.1	4/10/2023 10:17:00 AM	4/13/2023 1:15:00 PM	77	35	Customer
382302253-0018							
Sample Notes:							
524362	Room # 1006 - Desk	0.4	4/10/2023 10:15:00 AM	4/13/2023 1:16:00 PM	77	35	Customer
382302253-0019							
Sample Notes:							
524624	Room # 1006 - Desk	-0.1	4/10/2023 10:15:00 AM	4/13/2023 1:16:00 PM	77	35	Duplicate
382302253-0020						**Duplicate RPD = 200.0%**	
Sample Notes:	Duplicate's Customer Sample:382302253-0019 Duplicate RPD >67%						
524370	Room # 1011 - Desk	0.2	4/10/2023 10:13:00 AM	4/13/2023 1:16:00 PM	77	36	Customer
382302253-0021							
Sample Notes:							
524503	Room # 1015 - Fountain	0.2	4/10/2023 10:12:00 AM	4/13/2023 1:17:00 PM	77	35	Customer
382302253-0022							
Sample Notes:							
524349	Room # 1018 - Desk	-0.1	4/10/2023 10:12:00 AM	4/13/2023 1:18:00 PM	76	36	Customer
382302253-0023							
Sample Notes:							

EMSL Analytical, Inc.
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Phone/Fax: (800) 220-3675 / (856) 786-0327
http://www.EMSL.com cinnaminsonradonlab@emsl.com

EMSL Order:	382302253
CustomerID:	JCBR50
CustomerPO:	23-54420
ProjectID:	

Test Report: Radon in Air Test Results

Liquid Scintillation ID	Location	Radon Activity (pCi/L)	Start	Stop	Temperature F	Humidity %	Sample Type
524545	Room # 1029 - Fountain	0.1	4/10/2023	4/13/2023	75	35	Customer
382302253-0024			10:19:00 AM	1:20:00 PM			
Sample Notes:							
521072	Room # 1046 - Desk	0.2	4/10/2023	4/13/2023	75	35	Customer
382302253-0025			10:20:00 AM	1:12:00 PM			
Sample Notes:							
524311	Room # 1046 - Desk	-0.1	4/10/2023	4/13/2023	75	35	Blank
382302253-0026			10:20:00 AM	1:12:00 PM			
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)

Jeanel Zoll (26)

Dominic Gehret, Radiochemistry Laboratory Manager, 10872

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 04/19/2023 13:40:39

OrderID: 382302253

RECEIVED
EMSL
CINNAMINSON, NJ
23 APR 17 AM 11:25

EMSL ANALYTICAL, INC.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL Job #: 382302253

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

Company Information: EMSL Acct #: JOBR 50

Company Name: JCBroderick & Associates, Inc
Contact: Steven Muller
Address: 1775 Expressway Drive North
City: Hauppauge
State: NY Zip: 11788
Phone: 631-584-5492 Fax: 631-584-5497
Email: SMuller@JCBroderick.com

Technician Certification #:
Tech Name: Steven Muller
Tech Signature:

Project/Site Information: *Required

Project Name: CENTRAL BLVD. ES
Project # / PO: 23-54420
*Address: 60 Central Boulevard
*City: Bethpage *State: NY *Zip: 11714
*Building type? ☐ Residential ☐ Non-Residential
☒ School ☐ Other:
*Building foundation type? ☒ Basement ☒ Crawlspace
☐ Slab on Grade ☐ Other
Special Notes / Instructions:
26 samples

RECEIVED EMSL ANALYTICAL, INC. CARLE PLACE, NY 23 APR 14 PM 12:06

*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	524399	PIPE	0002	4/10/23	9:47	4/13/23	1258	78.9	61.0
S	521399	PIPE	0002A	4/10/23	9:48	4/13/23	1259	78.6	60.9
S	521078	PIPE	0002B	4/10/23	9:49	4/13/23	1300	75.9	70.3
S	524408	PIPE	0003	4/10/23	9:50	4/13/23	1302	75.0	64.2
S	521236	CART	0004	4/10/23	9:51	4/13/23	1303	74.6	61.3
S	521378	BOX	0005	4/10/23	9:52	4/13/23	1304	75.0	48.3
D	524612								
S	524475	CART	0006	4/10/23	9:55	4/13/23	1305	76.1	35.8

Relinquished by (Sign): Date: Time:

Received by EMSL (Sign): Jeanel G Zall Date: 4/17/23 Time: 11:25AM

Jeanel G Zall "14 2 days TAT

OrderID: 382302253

EMSL ANALYTICAL, INC.

CHAIN OF CUSTODY
RADON LABORATORY SERVICES
(COMMERCIAL USE)

EMSL Job #:

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

(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	524464	CART	0007	4/10/23	9:57	4/13/23	1306	76.1	34.8
S	521555	PIPE	0008	4/10/23	9:58	4/13/23	1306	73.9	34.6
S	521397	PIPE	0009	4/10/23	9:59	4/13/23	1307	73.4	40.6
S	524427	PIPE	0010	4/10/23	10:00	4/13/23	1308	70.8	40.4
D	524417								
S	524440	PIPE	0010A	4/10/23	10:01	4/13/23	1308	72.6	39.6
S	524471	DESK	0011	4/10/23	10:03	4/13/23	1323	76.1	52.8
S	521386	CART	0011A	4/10/23	10:04	4/13/23	1322	76.4	38.8
S	524458	TABLE	1000	4/10/23	10:09	4/13/23	1311	77.0	34.9
S	524384	DESK	1002	4/10/23	10:17	4/13/23	1315	76.8	34.8
S	524362	DESK	1006	4/10/23	10:15	4/13/23	1316	77.3	34.9
D	524624								
S	524370	DESK	1011	4/10/23	10:13	4/13/23	1316	76.8	35.8
S	524503	FOUNTAIN	1015	4/10/23	10:12	4/13/23	1317	76.8	34.8
S	524349	DESK	1018	4/10/23	10:12	4/13/23	1318	75.7	35.8
S	524545	FOUNTAIN	1029	4/10/23	10:19	4/13/23	1320	75.3	34.8
S	521072	DESK	1046	4/10/23	10:20	4/13/23	1312	75.3	34.9
B	524311								

Relinquished by (Sign): Date: 4/13/23 Time: 1420

Received by EMSL (Sign): Date: Time:

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