



**Radon Sampling Report  
5 Year Radon Re-Evaluation  
for  
Pomperaug High School  
234 Judd Road  
Southbury, Connecticut 06488**

Prepared  
for:  
Region 15 Public Schools  
Board of Education  
286 Whittemore Road  
Middlebury, Connecticut 06762

November 1-3, 2021

EnviroMed Project # IH-21-1084

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## **I. SUMMARY**

EnviroMed Services, Inc. was retained by Region 15 Public Schools to conduct a re-evaluation for airborne radon at the Pomperaug High School, 234 Judd Road in Southbury, Connecticut. The purpose of this monitoring was to determine if the airborne radon levels were below the U.S. Environmental Protection Agency (EPA) recommended action level of 4.0 picoCuries per liter of air (pCi/L). The monitoring was conducted November 1-3, 2021 by National Radon Proficiency Program (NRPP) accredited professional John Luby.

## **II. RADON FACTS AND HEALTH RISK INFORMATION**

Radon is the second leading cause of lung cancer. It is naturally occurring radioactive gas. It comes from the natural breakdown (decay) of uranium, which is found in soil and rock all over the United States. Radon travels through soil and enters buildings through cracks and other holes in the foundation. Eventually, it decays into radioactive particles that can become trapped in our lungs when we breathe. As these particles in turn decay, they release small bursts of radiation. This radiation can damage lung tissue and lead to lung cancer over the course of our lifetime.

Radon is colorless, odorless, and tasteless. The only way to know whether or not an elevated level of radon is present in any room of a school is to test.

## **III. SAMPLING METHODOLOGY**

### ***Radon in Air***

Monitoring was performed in 10% of occupied rooms that come in contact with the ground within the school. Eighteen (18) EPA approved monitoring devices were placed in designated sample locations at a minimum of 36 inches off the floor, more than one foot from exterior walls and more than three feet from windows. They were opened and allowed to be exposed to the indoor atmosphere for between forty-eight and seventy-two hours, which complies with the Connecticut Department of Public Health (CT DPH) School Radon Testing Guidance and United States Environmental Protection Agency (US EPA) sampling protocol. Upon completion of the monitoring, the canisters were sealed and transported to a State certified laboratory for analysis, Aquatek Labs in Woodbridge, Connecticut. Results can be found in Appendix A.

In order to provide assurance of the quality of the measurement, duplicate (10%) and blank (5%) samples accompanied all testing activities and were submitted to the

laboratory at the same time. Please note that the laboratory allows for a +/- 0.5pCi/L variation on blank samples.

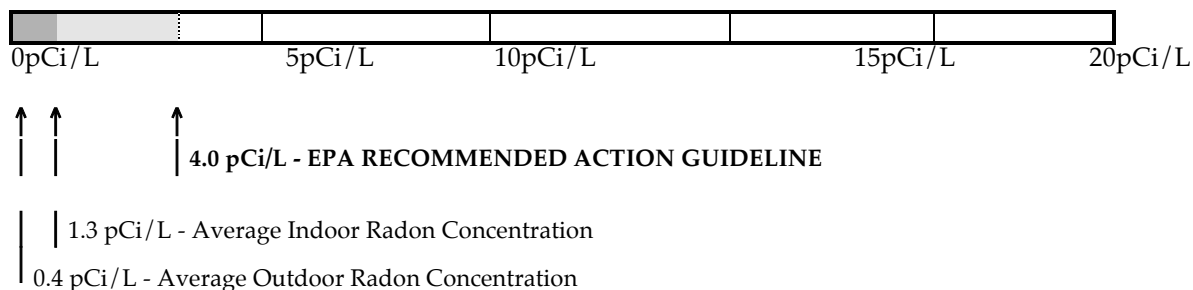
#### IV. RADON IN AIR TEST RESULTS

##### Pomperaug High School

<i>Sample ID</i>	<i>Canister</i>	<i>Floor Level</i>	<i>Sample Location</i>	<i>Radon Level in pCi/L</i>
R1	RAS6445	1st Floor	Cafeteria	< 0.5
R2	RAS6446	1st Floor	Room 210	< 0.5
R3	RAS6447	1st Floor	Cafeteria	< 0.5
R4	RAS6443	1st Floor	Media Room	< 0.5
R5	RAS6437	1st Floor	Weight Room	< 0.5
R6	RAS6438	1st Floor	Room 114	< 0.5
R7	RAS6439	1st Floor	Volleyball Office	< 0.5
R8	RAS6440	1st Floor	Room 305	< 0.5
R9	RAS6441	1st Floor	School Counselor	< 0.5
R10	RAS6442	1st Floor	Boys Locker Room	< 0.5
R11	RAS6444	1st Floor	Media Room - Blank	< 0.5
R12	RAS6448	1st Floor	Athletic Trainer	< 0.5
R13	RAS6449	1st Floor	Room 115	< 0.5
R14	RAS6450	1st Floor	Custodians Office	< 0.5
R15	RAS6451	1st Floor	Room 121	< 0.5
R16	RAS6452	1st Floor	Room 127	< 0.5
R17	RAD10509A	1st Floor	Room 104	<0.5
R18	RAD10509B	1st Floor	Room 104*	<0.5

\*indicates duplicate sample

Use the following chart to compare your radon test results, expressed in picoCuries of radon per liter of air (pCi/L), with the EPA guidelines.



The CT DPH School Radon Testing Guidance and the US EPA strongly recommend taking further action when the radon test results are 4.0 picoCuries per liter of air (pCi/L) or greater.

The national average indoor radon level is about 1.3 pCi/L. The higher the radon levels the greater the health risk to occupants. Even high levels can be reduced to below 4.0 pCi/L. EPA recommends that you use an EPA or State-approved contractor trained to fix radon problems.

## **V. WHAT DO THE RADON TEST RESULTS MEAN?**

If the radon level is **below 4.0 pCi/L**, you do not need to take action.

If the radon level is **4.0 pCi/L or greater**, use the following chart to determine what should be done next. Depending upon the type of test taken, you will have to either test again or take corrective actions to reduce the radon level.

Note: All tests should meet EPA technical protocols.

<i>Type of Test(s)</i>	<i>If Radon Level Is 4.0 pCi/L or Greater</i>
Single Short-Term Test	Test Again*
Average of Short-Term Tests	Fix The Problem
One Long-Term Test	Fix The Problem

\*If your first short-term test is several times greater than 4.0 pCi/L - for example, about 10 pCi/L or higher - you should take a second short-term test immediately.

## **VI. CONCLUSIONS AND RECOMMENDATIONS**

Based on the results obtained from the radon monitoring at Pomperaug High School located at 234 Judd Road in Southbury, Connecticut, EnviroMed Services, Inc. makes the following conclusions and recommendations:

- Testing indicates that radon levels are below the EPA Action Level in the school. No further action is required. Radon re-testing is recommended at 5 year intervals.

## *Appendix A*

### *Laboratory Results*



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAD10509

SAMPLE POINT: 1ST FL, RM 104

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:50 PM

SETUP: 11/04/2021 02:07 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

## RESULTS

---

EXPOSURE START: 11/01/2021 11:45 AM

EXPOSURE STOP: 11/03/2021 02:04 PM

RADON CONCENTRATION (A): <0.5 pCi/L

RADON CONCENTRATION (B): <0.5 pCi/L

RADON CONCENTRATION (AVG): <0.5 pCi/L

RELATIVE % DIFFERENCE: NOT APPLICABLE

The EPA provides guidance for how well dual measurements should agree. The two results reported above fall within those guidelines.

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

A handwritten signature in black ink, appearing to read "Jeffrey Graham".

Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6452

SAMPLE POINT: 1ST FL ROOM 127

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:04 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:15 PM

EXPOSURE STOP: 11/03/2021 02:21 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169





3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6451

SAMPLE POINT: ROOM 121

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:03 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:20 PM

EXPOSURE STOP: 11/03/2021 02:23 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

FIRST FLOOR

A handwritten signature in black ink, appearing to read "Jeffrey Graham".

Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6450

SAMPLE POINT: CUSTODIAN OFFICE

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:03 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:37 PM

EXPOSURE STOP: 11/03/2021 02:40 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

FIRST FLOOR

A handwritten signature in black ink, appearing to read "Jeffrey Graham".

Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



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## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6449

SAMPLE POINT: 1ST FLOOR - ROOM 115

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:03 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

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## RESULTS

EXPOSURE START: 11/01/2021 02:05 PM

EXPOSURE STOP: 11/03/2021 02:18 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



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Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6448

SAMPLE POINT: ATHLETIC TRAINER

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:03 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

RESULTS

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EXPOSURE START: 11/01/2021 02:33 PM

EXPOSURE STOP: 11/03/2021 02:36 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Jeffrey Graham

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NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6447

SAMPLE POINT: 1st FI - CAFE

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:00 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

## RESULTS

---

EXPOSURE START: 11/01/2021 01:47 PM

EXPOSURE STOP: 11/03/2021 02:06 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6446

SAMPLE POINT: 1ST FL - ROOM 210

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:02 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:27 PM

EXPOSURE STOP: 11/03/2021 02:30 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6445

SAMPLE POINT: 1st FI - CAFE

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:02 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

## RESULTS

---

EXPOSURE START: 11/01/2021 01:49 PM

EXPOSURE STOP: 11/03/2021 02:06 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6444

SAMPLE POINT: MEDIA ROOM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:01 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

RESULTS

EXPOSURE START: 11/01/2021 01:54 PM

EXPOSURE STOP: 11/03/2021 02:15 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

FIRST FLOOR

A handwritten signature in black ink, appearing to read "Jeffrey Graham".

Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169





3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6442

SAMPLE POINT: BOYS LOCKER ROOM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:01 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:31 PM

EXPOSURE STOP: 11/03/2021 02:33 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

FIRST FLOOR

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Jeffrey Graham

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NRSB ID: ARL169



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## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6441

SAMPLE POINT: SCHOOL COUNSELOR

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:01 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:35 PM

EXPOSURE STOP: 11/03/2021 02:38 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6440

SAMPLE POINT: 1ST FL ROOM 305

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:40 PM

SETUP: 11/04/2021 02:00 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:25 PM

EXPOSURE STOP: 11/03/2021 02:26 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6439

SAMPLE POINT: VOLLEYBALL OFFICE

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:40 PM

SETUP: 11/04/2021 02:00 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

RESULTS

---

EXPOSURE START: 11/01/2021 02:29 PM

EXPOSURE STOP: 11/03/2021 02:33 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6438

SAMPLE POINT: 1ST FL - ROOM 114

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:40 PM

SETUP: 11/04/2021 02:00 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 02:10 PM

EXPOSURE STOP: 11/03/2021 02:19 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

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Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6443

SAMPLE POINT: MEDIA ROOM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:45 PM

SETUP: 11/04/2021 02:01 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

## RESULTS

---

EXPOSURE START: 11/01/2021 01:54 PM

EXPOSURE STOP: 11/03/2021 02:15 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

FIRST FLOOR

A handwritten signature in black ink, appearing to read "Jeffrey Graham".

Jeffrey Graham

Radon Measurement Specialist

NRSB ID: ARL169



3 Research Drive - Woodbridge, CT 06525

## Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6437

SAMPLE POINT: 1ST FL - WEIGHT ROOM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/04/2021 12:40 PM

SETUP: 11/04/2021 02:00 PM

PROPERTY LOCATION: 234 JUDD ROAD (POMPERAUG HIGH SCHOOL) - SOUTHURY , CT

---

## RESULTS

EXPOSURE START: 11/01/2021 01:51 PM

EXPOSURE STOP: 11/03/2021 02:10 PM

RADON CONCENTRATION: < 0.5 pCi/L

The abbreviation pCi/L means picoCurie per liter of air, the most common method of expressing radon in air concentrations. The United States Environmental Protection Agency and the Centers for Disease Control have used a CONTINUOUS EXPOSURE level of 4.0 pCi/L for the cut-off level at which further testing and / or remedial action are indicated.

A handwritten signature in black ink, appearing to read "Jeffrey Graham".

Jeffrey Graham

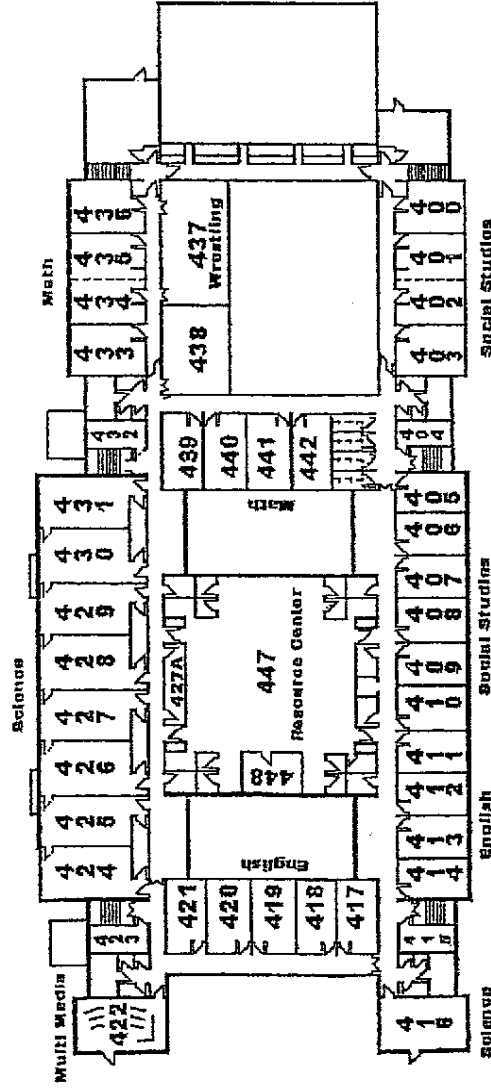
Radon Measurement Specialist

NRSB ID: ARL169

## ***Appendix B***

### ***Floor Plan With Sample Locations***





- 2nd Floor Additional Rooms**
- 404 Resource
  - 415 Resource
  - 423 Resource
  - 427A Science Aquarium
  - 432 Resource
  - 443 Office
  - 444 Yearbook
  - 445 ESL/Conference
  - 446 Bookkeeper
  - 448 Copy Room

## 2nd FLOOR

R2

R8

R14

R3

R4

R11

R1

R5

R7

R16

R15

R6

R13

R9

R17, R18

R10

R12

R13

R14

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