



**Radon Sampling Report
Radon Initial Evaluation
for
Alternative Education Program
1287 Strongtown Road
Southbury, Connecticut 06488**

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

November 3-5, 2021

EnviroMed Project # IH-21-1084

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I. SUMMARY

EnviroMed Services, Inc. was retained by Region 15 Public Schools to conduct an initial assessment for airborne radon at the Alternative Education Program, 1287 Strongtown 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 3-5, 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 100% of occupied rooms that come in contact with the ground within the school. Six (6) 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.

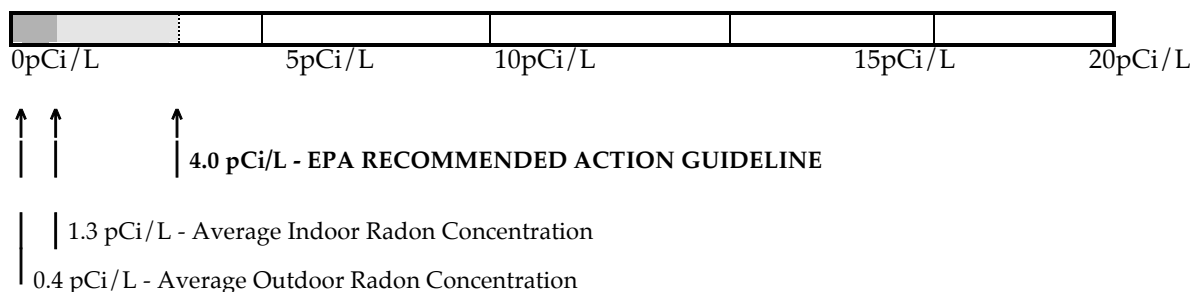
IV. RADON IN AIR TEST RESULTS

Alternative Education Program

<i>Sample ID</i>	<i>Canister</i>	<i>Floor Level</i>	<i>Sample Location</i>	<i>Radon Level in pCi/L</i>
R1	RAS6561	1st Floor	Copier Room	0.7
R2	RAS6562	1st Floor	Common Area	0.6
R3	RAS6563	1st Floor	Brian's Room	0.6
R4	RAS6564	1st Floor	Computer Room	0.4
R5	RAS6571	1st Floor	Kim's Room	0.5
R6	RAS6573	1st Floor	Copier Room Blank Sample	< 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 the Alternative Education Program located at 1287 Strongtown 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: RAS6561

SAMPLE POINT: 1ST FL, COPIER RM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/05/2021 12:25 PM

SETUP: 11/05/2021 12:45 PM

PROPERTY LOCATION: 1287 STRONGTOWN ROAD - SOUTHURY , CT

RESULTS

EXPOSURE START: 11/03/2021 10:47 AM

EXPOSURE STOP: 11/05/2021 10:48 AM

RADON CONCENTRATION: 0.7 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



3 Research Drive - Woodbridge, CT 06525

Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6573

SAMPLE POINT: 1ST FL, COPIER RM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/05/2021 12:35 PM

SETUP: 11/05/2021 12:48 PM

PROPERTY LOCATION: 1287 STRONGTOWN ROAD - SOUTHURY , CT

RESULTS

EXPOSURE START: 11/03/2021 10:50 AM

EXPOSURE STOP: 11/05/2021 10:55 AM

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



3 Research Drive - Woodbridge, CT 06525

Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6571

SAMPLE POINT: 1ST FL, KIM'S RM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/05/2021 12:35 PM

SETUP: 11/05/2021 12:47 PM

PROPERTY LOCATION: 1287 STRONGTOWN ROAD - SOUTHURY , CT

RESULTS

EXPOSURE START: 11/03/2021 10:49 AM

EXPOSURE STOP: 11/05/2021 10:52 AM

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



3 Research Drive - Woodbridge, CT 06525

Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6564

SAMPLE POINT: 1ST FL, COMPUTER RM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/05/2021 12:25 PM

SETUP: 11/05/2021 12:46 PM

PROPERTY LOCATION: 1287 STRONGTOWN ROAD - SOUTHURY , CT

RESULTS

EXPOSURE START: 11/03/2021 10:48 AM

EXPOSURE STOP: 11/05/2021 10:50 AM

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



3 Research Drive - Woodbridge, CT 06525

Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6563

SAMPLE POINT: 1ST FL, BRIAN'S RM

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/05/2021 12:25 PM

SETUP: 11/05/2021 12:45 PM

PROPERTY LOCATION: 1287 STRONGTOWN ROAD - SOUTHURY , CT

RESULTS

EXPOSURE START: 11/03/2021 10:45 AM

EXPOSURE STOP: 11/05/2021 10:47 AM

RADON CONCENTRATION: 0.6 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



3 Research Drive - Woodbridge, CT 06525

Radon In Air Report

TO: ENVIROMED SERVICES 409

TEST ID: RAS6562

SAMPLE POINT: 1ST FL, COMMON AREA

SAMPLED BY: ENVIROMED SERVICES

RECEIVED: 11/05/2021 12:25 PM

SETUP: 11/05/2021 12:45 PM

PROPERTY LOCATION: 1287 STRONGTOWN ROAD - SOUTHURY , CT

RESULTS

EXPOSURE START: 11/03/2021 10:44 AM

EXPOSURE STOP: 11/05/2021 10:46 AM

RADON CONCENTRATION: 0.6 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

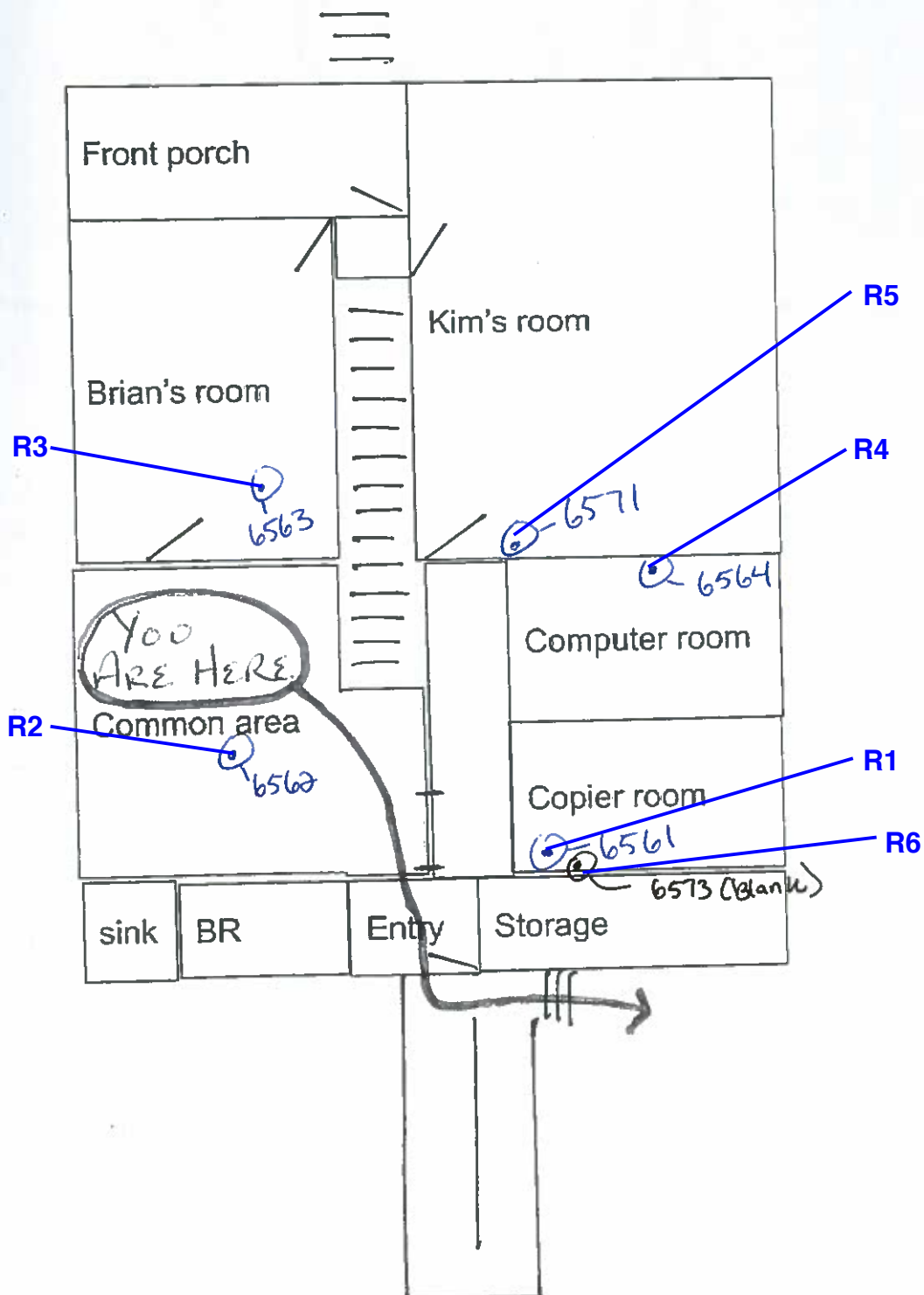
NRSB ID: ARL169

Appendix B

Floor Plan With Sample Locations

Strongtown House Alternative Education

RADON SAMPLE LOCATIONS - 2021



FIRST FLOOR