HEALTH METRIC
Making the complex simple

**HEALTH METRIC**
c/o Alpha Energy Labs
2501 Mayes Road, Ste 100
Carrollton. TX 75006
aelabs.com
(972) 242-2479



**Report & Sample Dates**

| | |
|---|---|
| DATE RECEIVED: | 7/26/2021 |
| REPORT DATE: | 7/27/2021 |

**Laboratory Certification Info**

NRPP ID#: 101132 AL
STATE ID#: RL029
ELAP ID#: 11430 NY

# RADON TEST REPORT

Jeffrey Smith
18520 Van Aken Blvd
Shaker Heights, OH 44122 USA

## YOUR RADON TEST RESULTS:

RADON LEVEL: **1.6 pCi/L**
TEST KIT SERIAL #: **HM142123**
LAB ID: 2370727

TEST TYPE: Activated Charcoal
SAMPLE TYPE: Short Term
TEST METHOD: EPA-402-R-92-004

TEST ADDRESS: 18520 Van Aken Blvd
Shaker Heights, OH 44122 USA

TEST FLOOR: Basement
TEST LOCATION: Laundry Room
CLOSED HOUSE: Yes

TEST START: 10:00 PM 07/13/2021
TEST END: 10:10 PM 07/17/2021
EXPOSURE: 96.17 Hours

## RADON HEALTH RISK INFORMATION:

Radon is the second leading cause of lung cancer, after smoking. The more elevated a home's radon level, the greater the health risk to you and your family. Smokers and former smokers are at especially high risk.

Radon concentration is measured in picocuries per liter of air (pCi/L). The US Environmental Protection Agency and the Surgeon General strongly recommend taking further action when the home's radon test results are 4 pCi/L or greater. Even homes with very high levels can be reduced below 4 pCi/L. The EPA recommends that you use a NRPP/NRSB or state-approved contractor to correct radon problems. Radon levels less than 4 pCi/L still pose some risk and in many cases may be reduced. If the radon level in your home is between 2 pCi/L and 4 pCi/L, The US Environmental Protection Agency and the Surgeon General recommend that you consider correcting the problem in your home.

QA/QC - Short Term Radon Tests have an estimated accuracy of ±5% when used according to directions.

DISCLAIMER: Test results are only indicative of the sample as received by the lab. Incorrect information or improper procedures will affect results. Alpha Energy Labs did not provide sampling services unless otherwise indicated. This measurement is not necessarily predictive or supportive of measurements conducted at different times or different locations. Alpha Energy Labs is not responsible for the consequences of any action you do or do not take based on the test results. One sampler can test up to 2,000 square feet.

CONFIDENTIALITY: This report is confidential. If you receive the report in error, please inform the lab and destroy all copies.

**Measurement Specialist / Laboratory Director**  **Date** 7/27/2021

## IF YOU HAVE QUESTIONS ABOUT WHAT YOUR RESULTS MEAN:

EPA National Hotline: (800) 557-2366, *epa.gov/radon*, or, call your State Radon Contact: (800) 523-4439

## IF YOU HAVE QUESTIONS ABOUT HOW TO FIX A RADON PROBLEM:

Radon Fix-it Hotline: (800) 644-6999, *epa.gov/radon*, or, call your State Radon Contact: (800) 523-4439

# WHAT DO MY TEST RESULTS MEAN?



If your test result is **below 2 pCi/L** you do not need to take further action at this time. The EPA recommends you retest every few years, and whenever you renovate the home.

If your test result is **between 2 pCi/L and 4 pCi/L** you should consider taking further action. If this is your first test, consider testing again to confirm your initial reading. The EPA recommends that you consider fixing your home if the average of multiples tests is above 2 pCi/L. If you do not fix the home, test every 2 years to confirm your radon levels are not rising.

If your radon level is **4 pCi/L or greater** you should take further action. If this is your first test, The EPA recommends you conduct another test to confirm your initial reading. If you have tested multiple times and the average of those tests is above 4 pCi/L, you should fix your home.

# HOW DANGEROUS IS MY RADON LEVEL?

## RADON RISK IF YOU SMOKE

| Radon Level | If 1,000 people were exposed to this level over a lifetime | The risk of radon induced lung cancer compares to | What To Do Next? |
|---|---|---|---|
| 100 pCi/L | About 770 people could get lung cancer | 110 times the risk of dying in a car crash | Fix your home |
| 40 pCi/L | About 380 people could get lung cancer | 95 times the risk of dying from poison | Fix your home |
| 20 pCi/L | About 260 people could get lung cancer | 250 times the risk of drowning | Fix your home |
| 10 pCi/L | About 150 people could get lung cancer | 200 times the risk of dying in a fire | Fix your home |
| 4 pCi/L | About 62 people could get lung cancer | 5 times the risk of dying in a car crash | Fix your home |
| 2 pCi/L | About 32 people could get lung cancer | 6 times the risk of dying from poison | Consider fixing between 2 & 4 pCi/L |
| 1.3 pCi/L | About 20 people could get lung cancer | (Average indoor radon level) | (Reducing below 1 pCi/L is difficult) |
| 0.4 pCi/L | About 3 people could get lung cancer | (Average outdoor radon level) | (Reducing below 1 pCi/L is difficult) |

Note: If you are a former smoker your risk may be lower
Estimates are lifetime risk of lung cancer deaths from EPA Assessment of Risks from Radon in Homes (EPA 402-R-03-003)

## RADON RISK IF YOU HAVE NEVER SMOKED

| Radon Level | If 1,000 people were exposed to this level over a lifetime | The risk of radon induced lung cancer compares to | What To Do Next? |
|---|---|---|---|
| 100 pCi/L | About 440 people could get lung cancer | 63 times the risk of dying in a car crash | Fix your home |
| 40 pCi/L | About 120 people could get lung cancer | 30 times the risk of dying from poison | Fix your home |
| 20 pCi/L | About 36 people could get lung cancer | 35 times the risk of drowning | Fix your home |
| 10 pCi/L | About 18 people could get lung cancer | 20 times the risk of dying in a fire | Fix your home |
| 4 pCi/L | About 7 people could get lung cancer | The risk of dying in a car crash | Fix your home |
| 2 pCi/L | About 4 people could get lung cancer | The risk of dying from poison | Consider fixing between 2 & 4 pCi/L |
| 1.3 pCi/L | About 2 people could get lung cancer | (Average indoor radon level) | (Reducing below 1 pCi/L is difficult) |
| 0.4 pCi/L | | (Average outdoor radon level) | (Reducing below 1 pCi/L is difficult) |

Note: If you are a former smoker your risk may be higher
Estimates are lifetime risk of lung cancer deaths from EPA Assessment of Risks from Radon in Homes (EPA 402-R-03-003)

# WHAT DO I DO NEXT?



| Type of Test | # of Times Tested | Test Result | What do I do next? | What test do I use? (If retesting) |
|---|---|---|---|---|
| Short Term | 1 | <2 pCi/L | Retest every 2-3 years | Short Term |
| (2-4 days) | 1 | 2-4 pCi/L | Consider Retesting Now | Long Term or Short Term |
| | 1 | 4-8 pCi/L | Retest Now | Long Term or Short Term |
| | 1 | >8 pCi/L | Retest Now | Short Term |
| | | | | |
| Short Term | 2 or More | <2 pCi/L | Test every 2-3 years | Short Term |
| (2-4 days) | | 2-4 pCi/L | Consider Fixing the Home | |
| | | >4 pCi/L | Fix the Home | |
| | | | | |
| Long Term | 1 or More | <2 pCi/L | Test every 2-3 years | Short Term |
| (90-365 days) | | 2-4 pCi/L | Consider Fixing the Home | |
| | | >4 pCi/L | Fix the Home | |

# HOW CAN I FIX A RADON PROBLEM?

If your radon level is at or above 4 pCi/L, you should fix your home. If your radon level is between 2 pCi/L and 4 pCi/L, you may wish to fix your home. For most homes, radon levels can be lowered to 2 pCi/L or lower.

We recommend only hiring contractors who are certified and trained in radon mitigation. To find a certified contractor you can:

- Call your State Radon Contact at **(800) 523-4439** or go to ***DrHomeAir.com/States***
- Go to ***DrHomeAir.com/Mitigation*** for a list of NRPP/NRSB certified contractors