

## Cavalier Corporation

Radon Services, since 1986. Bonded, Licensed, & Insured.

Cavalier Corporation is the Northwest's only full service radon company. From simple test kits to electronic testing, water tests, diagnostics, consulting, design and mitigation, Cavalier Corporation specializes in radon services.

WA Contractor License:  
CAVALC158JP

ID Contractor Registration: RCE-21634

National Environmental Health Association - Radon Proficiency # 100047  
RMT



### **Sources of information:**

[www.radon.com](http://www.radon.com)

[www.epa.gov/radon/pubs/consguid.html](http://www.epa.gov/radon/pubs/consguid.html)

### **Contact us at:**



## Cavalier Corporation

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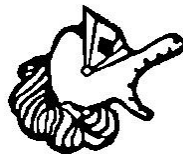
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### **What is:**

**Colorless,  
odorless,  
tasteless,  
naturally  
occurring,  
radio-active, and  
in your home?**



## **Radon**

**Exposure to  
Radon Causes  
Lung Cancer In  
Non-smokers  
and Smokers  
Alike (EPA)**

**Radon is a known Human  
Carcinogen, alpha  
particles from radon  
damage lung tissue.  
Lung Cancer is the main  
health effect.**

## Health Risks of Radon

### Exposure to Radon Causes Lung Cancer In Non-smokers and Smokers Alike

Lung cancer kills thousands of Americans every year. The untimely deaths of Peter Jennings and Dana Reeve have raised

public awareness about lung cancer, especially among people who have never smoked. Smoking, radon, and secondhand smoke are the leading causes of lung cancer. Although lung cancer can be treated, the survival rate is one of the lowest for those with cancer. From the time of diagnosis, between 11 and 15 percent of those afflicted will live beyond five years, depending upon demographic factors. In many cases lung cancer can be prevented; this is especially true for radon.

**Smoking** is the leading cause of lung cancer. Smoking causes an estimated 160,000 cancer deaths in the U.S. every year (American Cancer Society, 2004). And the rate among women is rising. On January 11, 1964, Dr. Luther L. Terry, then U.S. Surgeon General, issued the first warning on the link between smoking and lung cancer. Lung cancer now surpasses breast cancer as the number one cause of death among women. A smoker who is also exposed to radon has a much higher risk of lung cancer. (source [epa.gov/radon](http://epa.gov/radon))

**Radon** is the number one cause of lung cancer among non-smokers, according to EPA estimates. Overall, radon is the second leading cause of lung cancer. Radon is responsible for about 21,000 lung cancer deaths every year. About 2,900 of these deaths occur among people who have never smoked. On January 13, 2005, Dr. Richard H. Carmona, the U.S. Surgeon General, issued a national health advisory on radon.

**Secondhand smoke** is the third leading cause of lung cancer and responsible for an estimated 3,000 lung cancer deaths every year. Smoking affects non-smokers by exposing them to secondhand smoke. Exposure to secondhand smoke can have serious consequences for children's health, including asthma attacks, affecting the respiratory tract (bronchitis, pneumonia).



### Studies Find Direct Evidence Linking Radon in Homes to Lung Cancer

Two studies show definitive evidence of an association between residential radon exposure and lung cancer. A North American study and a European study, both combined data from several previous residential studies. These two studies go a step beyond earlier findings. They confirm the radon health risks

predicted by occupational studies of underground miner's who breathed radon for a period of years. Early in the debate about radon-related risks, some researchers questioned whether occupational studies could be used to calculate risks from exposure to radon in the home environment. "These findings effectively end any doubts about the risks to Americans of having radon in their homes," said Tom Kelly, Director of EPA's Indoor Environments Division. "We know that radon is a carcinogen. This research confirms that breathing low levels of radon can lead to lung cancer."

Read the University of Iowa press release about the North American study at [www.uihealthcare.com/news/news/2005/03/21/radon.html](http://www.uihealthcare.com/news/news/2005/03/21/radon.html)

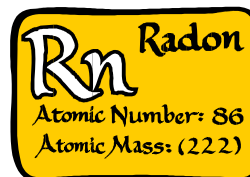
### Test Your Home for Radon - It's Easy and Inexpensive

*The U.S. Surgeon General and EPA recommend that all homes be tested.*

*Contact Cavalier and we can mail you out a do-it-yourself test kit! Lab fees and postage included for just \$15+Tax!*

*Just call Cavalier Corporation (509)926-6217 or email: [wriddle@cavalierradon.com](mailto:wriddle@cavalierradon.com)*

*We accept: Visa, MasterCard and checks (and cash too)*



## What Your Test Results Mean

The average indoor radon level is estimated to be about 1.3 pCi/L, and about 0.4 pCi/L of radon is normally found in the outside air. The U.S. Congress has set a long-term goal that indoor radon levels be no more than outdoor levels. While this goal is not yet technologically achievable in all cases, most homes today can be reduced to 2 pCi/L or below.

Sometimes short-term tests are less definitive about whether or not your home is above 4 pCi/L, the recommended action level. For example, if the average of your two short-term test results is 4.1 pCi/L, your year-round average could be lower or higher. However, EPA believes that any radon exposure carries some risk - no level of radon is safe. Even radon levels below 4 pCi/L pose some risk, and you can reduce your risk of lung cancer by lowering your radon level.

Even if your test result is below 4 pCi/L, you may want to test again sometime in the future. For example if you remodel or weatherize your home or if your living patterns change and you begin occupying a lower level of your home (such as a basement) you should retest your home. We recommend you install a Cavalier GUARANTEED radon system in your new home during construction.

## How to Lower the Radon Levels in Your Home

Since there is no known safe level of radon, there can always be some risk. But the risk can be reduced by lowering the radon level in your home.

There are several proven methods to reduce radon in your home, but the one primarily used is a vent pipe system and fan, which pulls soil air including radon from beneath the house and vents it to the outside. This system, known as a sub slab suction radon system, does not require major changes to your home. Sealing foundation cracks and other openings makes this kind of system more effective and cost-efficient. Similar systems can also be installed in houses with crawl spaces. Cavalier does not charge a fee to bid a guaranteed radon mitigation system.

