

2006 MONTANA RADON STUDY

A Survey of Radon in Air Test Results

**Compiled for the
Montana Department of Public Health and Human Resources**

by

**Dr. Michael P. Vogel,
Professor and Extension Service Housing and Environmental Health
Specialist**

**and
Lowell Goetting, Program Assistant**

**Montana State University
Extension Housing Program**

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Introduction

In September 1993, the United States Environmental Protection Agency (EPA) published a comprehensive report on radon in air and its concentration levels throughout the United States. Working with the U.S. Geological Survey, the EPA created a "U.S. Radon Hazards" map for each of the 3141 counties in the United States (Figure 1). Zone 1 counties have a predicted average indoor screening level greater than 4 pCi/L, Zone 2 counties have a predicted average indoor screening level between 2 and 4 pCi/L, and Zone 3 counties have a predicted average indoor screening level less than 2 pCi/L. The purpose of the map was to assist national, state, and local organizations to target their resources and to implement radon-resistant building codes. The potential radon hazard was estimated by observing each county's geological make up, aerial radiometric readings, soil characteristics (including soil moisture, permeability, and drainage), indoor radon data, and building architecture. The 1993 report should be referenced to obtain further information on those topics. Appendix A provides a copy of the *EPA's Map of Radon Zones - Montana*.

Montana's indoor radon data for the 1993 report was collected by the Montana Department of Environmental Quality (DEQ) during the spring of 1992. Testing for the Montana study consisted of using activated carbon monitors for 7-day screening measurements. Monitoring was conducted, following EPA placement protocols, for 833 homes located throughout the state. For reporting the results, the state was divided into two regions (see Figure 2). The results of the study indicated 42.2% of the tested homes had a radon concentration over 4 pCi/L and 4.7% had concentrations over 20 pCi/L. Compared to other states, Montana was found to be the third highest state in its percentage of homes with radon concentrations above 20 pCi/L and fifth highest state with radon concentration results above 4 pCi/L.

As a result of the 1993 EPA study and map, the EPA encouraged each state and county to conduct further research and data collection so that the Map of Radon Zones could be updated and improved. This report fulfills those aims and examines radon data specifically for Montana. Further, the 1993 EPA report did not contain all of the radon tests taken in Montana before the date of its completion. This report includes Montana radon data collected in the 1997 EPA study as well as radon test data that has accumulated from January 1, 1998 through September 30, 2005.

NOTE: Radon test data compiled for this study should not be used to assume the radon levels of buildings that have not been actually tested for radon. The data compiled for this study (summarized in Table 7) should serve as evidence that radon levels can vary greatly from building to building, within short distances. Following the recommendation of the U.S. EPA, **all homes and buildings should be tested to determine their actual radon level and health risk to occupants.**

Figure 1. EPA Map of Radon Zones

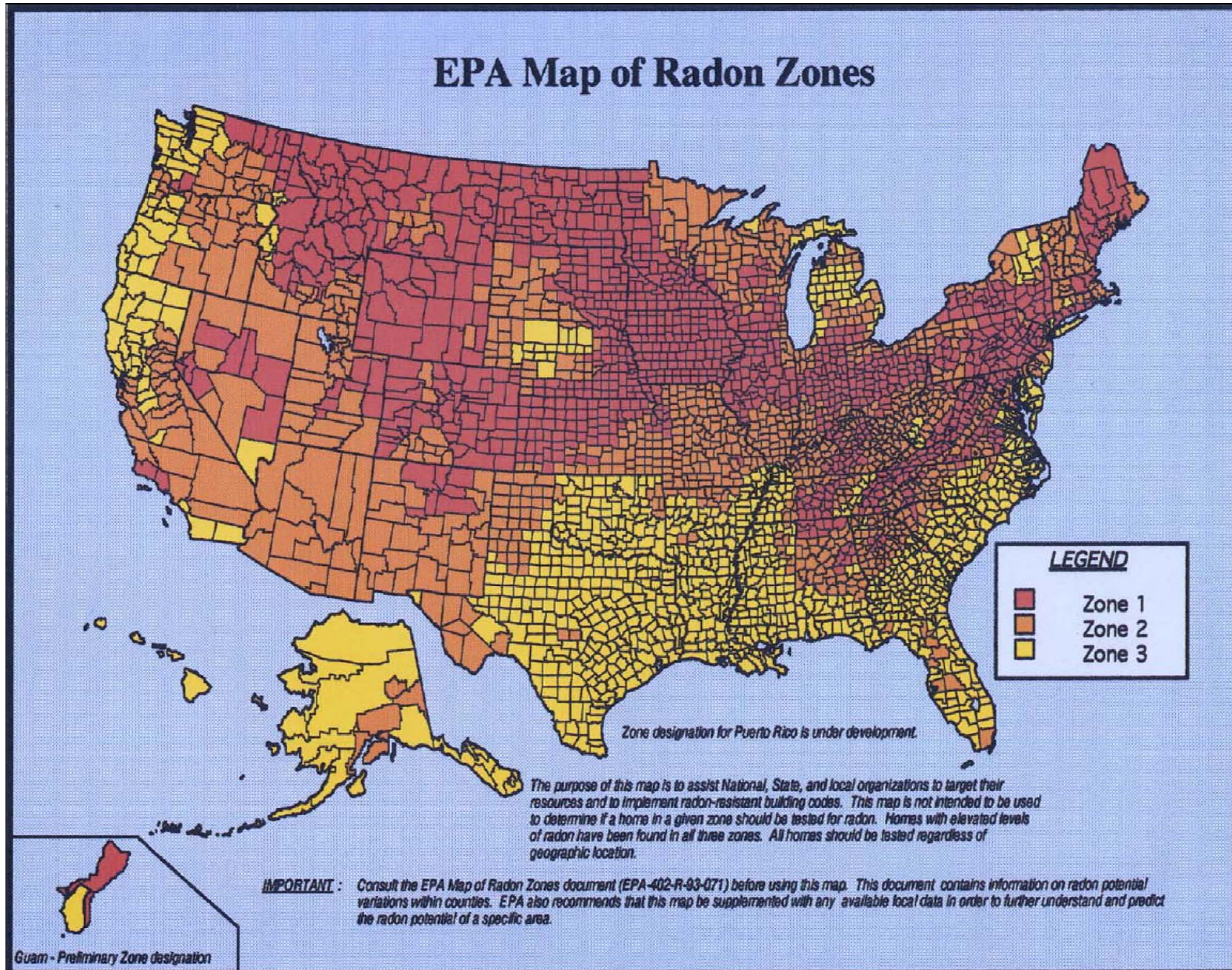
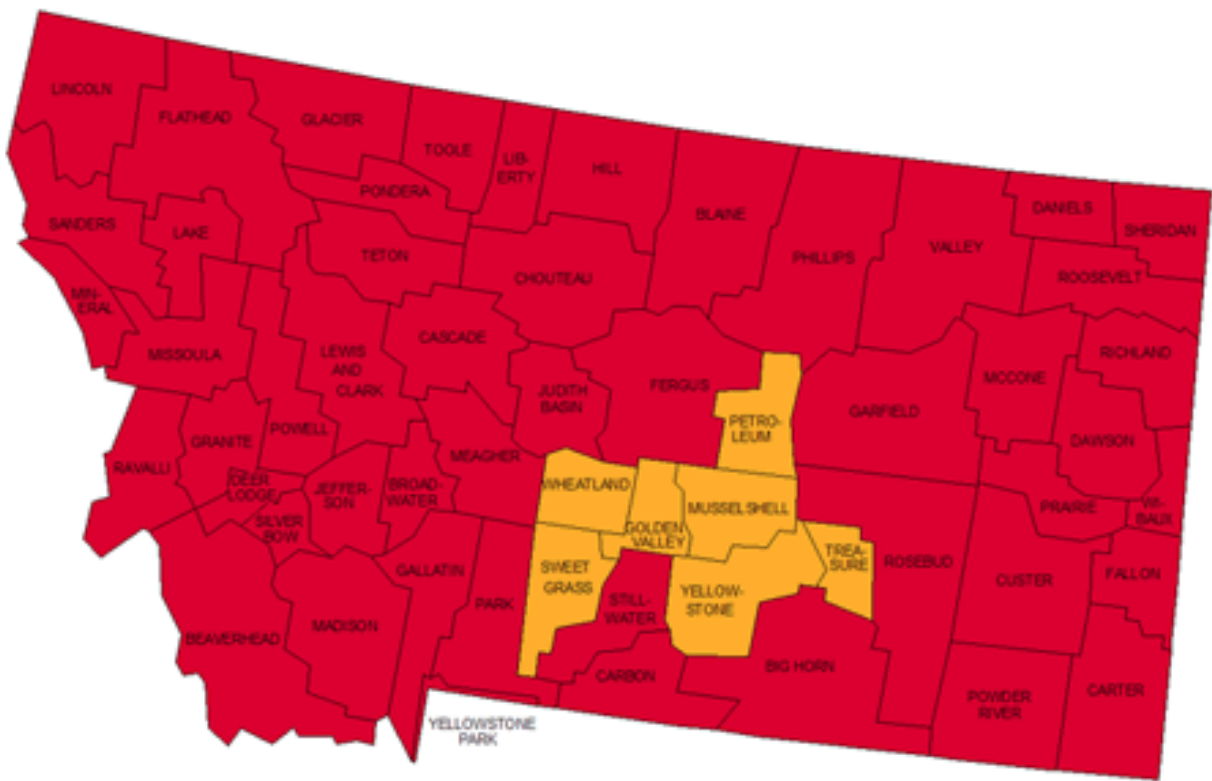


Figure 2. EPA Map of Radon Zones – Montana Summary



Methodology of Data Collection

Radon data for the 1997 study was obtained using the three methods described below. Since the goal of the 2005 report was to provide additional data to the 1997 data, only Method One, as described below, was used.

Data Collection Method One. The initial course of action was to compile radon test data solely from three agencies providing radon testing in Montana (the Montana State University Extension Service (MSU-ES), the American Lung Association (ALA) of Montana, and the Montana Department of Environmental Quality (DEQ)). However, when compiling data from these sources it was observed that all of the radon tests were purchased and analyzed by three predominant national laboratories - Air Chek Inc. of Fletcher, NC; Radon Testing Corporation of America (RTCA) of Elmsford, NY; and Landauer Inc. of Glenwood, IL. Communication with these laboratories revealed these laboratories also had thousands of other Montana radon test results that were not requested by the MSU-ES, the ALA, or the Montana DEQ. This finding prompted data collection efforts to concentrate on locating and requesting Montana radon test data from as many independent radon testing laboratories as possible.

The July 1997 issue of Consumer Reports listed six companies that provide radon monitors for do-it-yourself test analysis:

- Air Chek Inc. of Fletcher, NC
- Alpha Energy of Carrollton, TX
- Key Technologies of Jonestown, PA
- Landauer of Glenwood, IL
- Radon Testing Corporation of America (RTCA) of Elmsford, NY
- Teledyne of Westwood, NJ

In addition to those agencies listed above and companies listed in the July 1997 issue of Consumer Reports data in the 2005 report includes companies listed by the Western U.S. Radon Training Center, the National Association of Home Inspectors, the American Institute of Home Inspectors, the American Society of Home Inspectors, Montana County Health Departments, the Indoor Air Quality Association and the National Association of Certified Home Inspectors. The following is a list of those who contributed data to this study:

Landauer, Inc. of Glenwood, IL

RSSI of Morton Grove, IL

Energy Laboratories, Inc. of Billings, MT

Air Chek, Inc. of Fletcher, NC

Alpha Energy Laboratories, Inc. of Carrollton, TX
Radon Gone of Miles City, MT

Advantage of Missoula, MT

Gallatin County Health Department of Bozeman, MT

All of the above companies were contacted to request Montana radon data. They were asked to provide the data in zip code order, dates of the testing period, and the type of testing device used to determine the radon concentration level. The inquiries verified that all of these companies had provided (and continue to provide) monitoring services for Montana. Further, these companies indicated that they offered two types of time integrated radon monitors -- short-term activated carbon detectors and long-term alpha-track detectors. The six radon labs reporting in the 1997 study yielded over 10,000 data points. The number of test data points contributed by each company in the 1997 study are illustrated in Table 1a. The seven reporting organizations in the 2005 study yielded over 13000 data points. The number of test data points contributed by each company for the 2005 study are illustrated in Table 1b. Appendix B lists all radon testing companies including addresses, phone numbers and type of radon data provided for this study.

Table 1a: Independent Laboratory Radon Data Summary 1997 Report*

COMPANY	No. of charcoal monitor tests	No. of alpha Track tests	Date range of tests
AIR CHEK INC.	5917	0	1/85 - 7/97
ALPHA ENERGY	390	28	1/93 - 7/97
KEY TECHNOLOGY	1424	102	1/89 - 6/97
LANDAUER	77	1718	1/90 - 7/97
RTCA	694	0	1/90 - 7/97
TELEDYNE	287	0	1/88 - 11/94
TOTALS	8789	1848	1/85 - 7/97
Total of 10,637 test results			

* **Summary Notes.** 1. Radon data compiled from January 1985 through July 1997 using short-term activated carbon detectors and long-term alpha-track detectors. 2. **Consumer Reports** stated that the Alpha Energy (First Alert) long-term alpha track monitoring devices yielded results that were 166% higher, on average, than the other long-term alpha-track devices in their study. This study includes 28 long-term radon test results determined with Alpha Energy (First Alert) alpha-track monitors.

Table 1b: Independent Laboratory Radon Data Summary 2005 Report*

Company	No. of charcoal monitor tests	No. of alpha track tests	Date range of tests
Landauer, Inc.	0	1116	Jan 1, 98 - Jul 20, 05
RSSI	0	781	Jan 2, 99 - Jul 28, 05
Energy Laboratories, Inc.	2868	762	Jan 24, 02 - Jul 30, 05
Air Chek, Inc.	1623	3588	Jan 2, 98 - Jul 30, 05
Pro-Lab	463	0	Dec 30, 03 - Jan 1, 04
Alpha Energy Laboratories, Inc.	902	22	Nov 10, 01 - Jul 25, 05
Radon Gone of Miles City, MT	21	2	Oct 5, 02 - Jul 7, 05
Advantage	140	33	Jan 1, 03 - Apr 1, 05
Gallatin County Health Department	1038	26	Jan 14, 98 - Jul 30, 05
Total number of test results	7055	6330	13385

Data Collection Method Two. One goal of the 1997 study was to determine the primary sources of radon tests and data in Montana. While exploring Montana sources of radon data, the study revealed there are five primary sources for radon testing services: (NOTE: The majority of the data collected for the 2005 report came from testing laboratories.)

1. Universities

- a. Montana State University Extension Service -- Housing Program (Bozeman, MT) - providing air and water radon monitors statewide.
- b. Montana State University County Extension Offices (49 county offices and 4 tribal extension offices) - providing air and water radon monitors within counties.
- c. University of Montana - Montana Tech. (Butte, MT) - conducting water radon monitoring research program.

2. Health Organizations

- a. American Lung Association of Montana/Wyoming (Helena, MT) - providing air radon monitors statewide.
- b. County Health Departments (specific list of counties and services yet to be provided).
- c. Montana Association of Counties (Helena, MT) - providing air radon monitors to Gallatin and Glacier Counties for National Association of Counties radon study.
- d. Indian Health Services - (Billings, MT) - provides radon monitoring support to seven Montana Indian Reservations.

3. State Agencies

- a. Montana Department of Environmental Quality (DEQ)
- b. Montana Department of Natural Resources and Conservation (DNRC)

4. Home Inspections

5. Consumer Requests for radon detectors to...

- a. Retail Sales (hardware stores, building suppliers, etc.)
- b. Certified Environmental Laboratories
- c. Real Estate Agents
- d. Home Builders
- e. Also to primary sources 1, 2, 3, and 4.

Radon data for this report was obtained from these sources:

- American Lung Association of Montana/Wyoming
- Montana Department of Environmental Quality
- Montana State University Extension Service Housing Program
- Montana State University Extension Service County Offices
- Montana Department of Natural Resources and Conservation
- Montana Indian Health Services

For the 1997 study, Table 2 identifies the status of radon monitoring from the American Lung Association of MT/WY, the Montana Department of Environmental Quality, the Montana State University Extension Service Housing Program, and Montana State University Extension Service County offices. Radon data from DNRC and IHS is described later in this report. Since data was collected from the laboratories used by these agencies, the agencies were not directly contacted.

Table 2: Radon Data Information from the ALA, Montana DEQ, and MSU-ES. (1997)

Montana Agency	Total No. of Tests	No. of Charcoal Tests	No. of Alpha-Track Tests	Laboratories Used by Agency
ALA	3441	2675	766	Air Chek - Charcoal Landauer - Alpha Track
Montana DEQ	332	332	0	RTCA - Charcoal
MSU-ES and County Extension Offices*	5431*	3693*	1738*	Air Chek - Charcoal Landauer - Alpha-Track

*estimated number of tests

Data Collection Method Three (1997 study). While the 1997 radon data provided to MSU was being compiled, two EPA Internet sites listing radon measurement facilities were accessed. The EPA Internet sites included all “Analytical Service Providers” (at www.epa.gov/radonpro/mtiasp.html) and all “EPA Listed Residential Measurement Service Providers” (at www.epa.gov/radonpro/mtimes.html). The lists were dated July 22, 1997 and provided names and addresses for 213 companies and laboratories providing radon measurement services in Montana. Because much of the radon data from these sources has been obtained from professional monitoring devices (such as “Electret Passive Environment Radon Monitors” [E-Perms] and “Charcoal Liquid Scintillation Devices”), MSU believes the data is critical for compiling a more accurate summary of Montana radon test results. To collect data from these sources, a postcard was sent to all service providers requesting that they contact MSU and/or send any radon test results they had for Montana. At the time of this report’s publication MSU had received approximately 1600 radon test results; however, due to project time constraints data obtained could not be compiled and therefore have not been included in this report. MSU will continue to collect and compile the data which may be used for future reporting. A list of the companies contacted by postcard is provided in Appendices B and C of this study.¹

Radon Measurement Techniques

All radon data compiled for the 1997 and 2005 studies were taken from using one of two common time integrated radon measurement detectors: short-term charcoal detectors and long-term alpha-track detectors.

Short-term Charcoal Detectors. Charcoal detectors are the most common short-term do-it-yourself radon detection devices. The monitoring device remains in the home for two to seven days and then is sent to the lab to be analyzed. A charcoal detector can provide a quick screening estimate, is relatively inexpensive (usually about \$10), is very easy to handle and install by the consumer, and it measures with good accuracy. However, it is not always optimal to use a charcoal detector - sampling periods are limited to a few days (2-7 days) -- therefore fluctuations in concentration levels, which can occur daily, are not taken into account. The monitors may be affected by temperature, humidity, and airflow extremes; and measurements are biased toward the radon concentrations of the last 12-24 hours of exposure because radon’s half-life is 3.8 days.

The charcoal detectors use activated carbon which absorbs radon by diffusion. While entrapped in the carbon grains, the radon decays into its "Radon Decay Products" bismuth-214 and lead-214 which are both gamma-ray emitters. The radon concentration level is determined by counting the gamma-ray emissions of the two decay products.

¹ E.P.A. listed: Facilities or individuals “listed” with the U.S. E.P.A. following E.P.A. verification, approval, and testing of radon equipment, protocol, knowledge, and/or practices.

Alpha-track (Etched-track) Detectors. The alpha-track detector is a long-term testing device which usually remains in the home from 90 days up to one year. This device is inexpensive (about \$20), simple to use by the consumer, and measures with accuracy and precision. Unlike the charcoal monitor, the alpha-track detector measures a more accurate average of radon concentrations because it tests over a longer period. By being exposed for a longer duration, the fluctuations of radon concentration will be more accurately averaged. The alpha-track detector also has some disadvantages. It is unable to measure for short time periods (unless the concentration level is high) and it has a large precision error at low concentrations (if only a small detector area is counted).

The alpha-track method exploits the fact that heavy atomic particles (alpha particles) leave tracks when they hit certain types of plastics. Once sent to the lab, the tracks in the plastic are enlarged by chemical etching and counted using a microscope.

How to use a do-it-yourself test kit. It is important to follow the instructions that come with the test carefully. When conducting a short-term test, windows and outside doors of the home must be kept closed at least 12 hours before beginning the test and as much as possible during the test. It is not advised to perform short-term radon testing during severe storms or periods of high winds.

All radon detectors should be placed in the lowest livable level of the home (the basement if it is frequently used, otherwise the first floor). Radon detectors should be put in a regularly-used room (a living room, den, or bedroom). A radon detector should not be placed in a bathroom or kitchen because of elevated temperatures and moisture and the use of ventilation systems. The kit should be placed at least 20 inches above the floor in a location where it won't be disturbed-- away from drafts, high heat, high humidity, and exterior walls.

Unit of Radon Measurement. Radon levels recorded for this study were recorded in picoCuries per liter (pCi/L) which is a radioactivity unit of measure that describes the amount of radon present in a volume of air. One picoCurie (10⁻¹²Curies) is equal to about 2.2 disintegrations of radon atoms per minute. Four pCi/L is the action level of radon in air established by the U.S. Environmental Protection Agency.

Limitation of Study. This study was limited to data from measurements detected from radon in the air. The study does not include data from water source measurements.

Results of Study

The 1997 study includes 10,637 residential radon-in-air test results from 56 counties in Montana. A summary of the 1997 radon data is illustrated in Table 3a. Referring to Table 3a, column 1 lists all of the Montana counties in alphabetical order. Column 2 lists the total number of tests compiled in each county. Of the 10,637 total radon test results, 8789 were determined using charcoal detectors. The charcoal test results, recorded for each county, are listed in column 3. The remaining 1848 radon test results were determined using alpha-track detectors. The alpha-track test results, recorded for each county, are listed in column 4. Column 5 and column 6 list the average radon levels for each county in pCi/L for the charcoal tests and alpha-track tests respectively. The state average radon level from results using the charcoal devices was 7.4 pCi/L and from using the alpha-track devices was 7.0 pCi/L. The mean radon level (pCi/L) of the charcoal and alpha-track results for each county is listed in

column 7. The total state mean was 7.3 pCi/L. As a comparison, the U.S. EPA estimates that the average radon concentration for U.S. homes is 1.3 pCi/L. The lowest radon concentration level for each county is listed in column 8. The lowest concentration level in Montana was 0.0 pCi/L, which occurred in eleven different counties. Alpha Energy (First Alert) is the only company in our study which allocates a "0.0 pCi/L" test result. The results allocated 0.0 pCi/L are conclusive results. Alpha Energy states that even the most minute amount of radon in the air will show up on their monitors, therefore a 0.0 pCi/L result means that there was no radon detected by the monitor. The highest radon concentration level for each county is listed in column 9. The highest concentration level for the state of 1366.4 pCi/L was recorded in Jefferson County.

The U.S. EPA has set 4 pCi/L as the radon concentration action level. Any home with a concentration at or above that level should take action to reduce it. The percentage of the total number of tests recorded in each county that had a concentration level greater than 4 pCi/L is listed in column 10. In Montana, 47.5% of the radon test results were above the 4 pCi/L level. That means that almost one-half of the homes and buildings tested have radon levels above the EPA radon action level. Columns 11, 12, and 13 list the percentage of tests between 4 and 10 pCi/L, between 10 and 20 pCi/L, and greater than 20 pCi/L respectively.

The 2005 study includes 13,385 residential radon-in-air test results from 55 of the 56 counties in Montana. A summary of the radon data is illustrated in Table 3b. Referring to Table 3b, column 1 lists all of the Montana counties in alphabetical order. Column 2 lists the total number of tests compiled in each county. Of the 13,385 total radon test results, 7,055 were determined using charcoal detectors. The charcoal test results, recorded for each county, are listed in column 3. The remaining 6,330 radon test results were determined using alpha-track detectors. (Note: Four tests were conducted using CRM. These tests were included with the alpha-track results.) The alpha-track test results, recorded for each county, are listed in column 5. Column 4 and column 6 list the average radon levels for each county in pCi/L for the charcoal tests and alpha-track tests respectively. The state average radon level from results using the charcoal devices was 6.1 pCi/L and from using the alpha-track devices was 5.7 pCi/L. The mean radon level (pCi/L) of the charcoal and alpha-track results for each county is listed in column 7. The total state mean was 6.4 pCi/L. As a comparison, the U.S. EPA estimates that the average radon concentration for U.S. homes is 1.3 pCi/L. The lowest radon concentration level for each county is listed in column 8. The lowest concentration level in Montana was 0.0 pCi/L, which occurred in sixteen different counties. The highest radon concentration level for each county is listed in column 9. The highest concentration level for the state of 2574 pCi/L was recorded in Lewis and Clark County.

The U.S. EPA has set 4 pCi/L as the radon concentration action level. Any home with a concentration at or above that level should take action to reduce it. The percentage of the total number of tests recorded in each county that had a concentration level greater than 4 pCi/L is listed in column 10. In Montana, 55.0% of the radon test results were above the 4 pCi/L level. That means that more than one-half of the homes and buildings tested have radon levels above the EPA radon action level. Columns 11, 13, and 15 list the percentage of tests between 4 and 10 pCi/L, between 10 and 20 pCi/L, and greater than 20 pCi/L respectively.

Table 3a: Radon Data Results for All Montana Counties (1997 Study)

Column												
1	2	3	4	5	6	7	8	9	10	11	12	13
Montana Counties	Total No. of Tests	No. of Charcoal	No. of Alpha-track	Average Charcoal pCi/L	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% Above 4 pCi/L	% Between 4& 9.9 pCi/L	% Between 10 & 19.9 pCi/L	% Above 20 pCi/L
Beaverhead	62	54	8	10.8	4.4	9.9	0.9	155.2	38.7	11.3	16.1	11.3
Big Horn	144	71	73	6	8.3	7.2	0.2	146.2	42.3	27.1	6.9	8.3
Blaine	15	9	6	10	6.2	8.5	0.8	32.2	60	26.7	20	13.3
Broadwater	22	20	2	4.5	5.2	4.6	0.6	13	40.9	31.8	9.1	0
Carbon	31	12	19	5.3	9.2	7.7	0	55.4	35.6	19.4	9.7	6.5
Carter	4	4	0	3.9	0	3.9	0.9	7.7	50	50	0	0
Cascade	392	340	52	5.2	4.5	5.1	0	116.2	35	25	6.9	3.1
Chouteau	39	34	5	6	3.2	5.6	0.4	29.6	56.5	43.6	10.3	2.6
Custer	100	85	15	2.5	3.4	2.7	0.2	12	22	20	2	0
Daniels	34	28	6	4.9	7.5	5.4	0.7	18.3	55.8	38.2	17.6	0
Dawson	53	50	3	3	3.4	3.1	0.3	16.1	26.4	22.6	3.8	0
Deer Lodge	55	39	16	5.2	8.7	6.2	0.1	75.7	32.8	18.2	9.1	5.5
Fallon	16	15	1	6.8	3.7	6.6	3.7	21.6	56.4	43.8	6.3	6.3
Fergus	121	102	19	6.6	7.4	6.7	0.3	36.4	52	31.4	14	6.6
Flathead	1121	724	397	7.5	5.8	6.9	0	160.8	35.7	20.2	7.7	7.8
Gallatin	1134	878	256	8.4	6.2	7.9	0	138.5	56.3	32.7	16.1	7.5
Garfield	3	3	0	1.8	0	1.8	1.3	2.8	0	0	0	0
Glacier	75	69	6	5.2	2.2	5	0.9	24.4	37.4	24	10.7	2.7
Golden Valley	2	2	0	3.5	0	3.5	0.5	3.8	0	0	0	0
Granite	6	6	0	35.7	0	35.7	2.7	172.1	50.1	16.7	16.7	16.7
Hill	241	234	7	2.3	2.9	2.3	0.4	45.7	16.1	14.9	0.8	0.4
Jefferson	146	109	37	8.1	46.7	17.9	0.5	1366.4	58.8	30.1	17.1	11.6
Judith Basin	23	16	7	5.7	5.6	5.6	0.6	14.3	56.5	43.5	13	0
Lake	248	195	53	4.6	4.1	4.9	0	46.8	33.8	24.2	5.2	4.4
Lewis and Clark	1034	862	172	8.1	7.1	7.9	0	115.1	52.1	30.3	12.9	8.9
Liberty	1	1	0	3.6	0	3.6	3.6	3.6	0	0	0	0
Lincoln	234	181	53	6.6	7	6.7	0	73.3	38.8	22.6	9.4	6.8
Madison	17	9	8	8	9.5	8.7	1.7	48.2	70.6	58.8	0	11.8
McCone	29	28	1	5.2	3.8	5.1	2.2	24.3	37.9	31	0	6.9
Meagher	6	5	1	6.2	4.5	5.9	1.7	19.3	50	33.3	16.7	0
Mineral	54	45	9	5.8	2.9	5.4	0.8	21.3	44.5	22.2	20.4	1.9

Table 3a: Radon Data Results for All Montana Counties (1997 Study)

Column												
1	2	3	4	5	6	7	8	9	10	11	12	13
Montana Counties	Total No. of Tests	No. of Charcoal	No. of Alpha-track	Average Charcoal pCi/L	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% Above 4 pCi/L	% Between 4& 9.9 pCi/L	% Between 10 & 19.9 pCi/L	% Above 20 pCi/L
Missoula	2507	2340	167	7.5	5.9	7.4	0	520.4	56	35.2	14.5	6.3
Musselshell	10	7	3	2.7	2	2.5	0	11.7	20	10	10	0
Park	271	236	35	8.1	7.2	8	0.3	90	52.8	30.6	13.7	8.5
Petroleum	1	0	1	0	15.8	15.8	15.8	15.8	100	0	100	0
Phillips	20	16	4	3.9	4.1	4	0.5	22.9	30	25	0	5
Pondera	36	31	5	4.6	4.2	4.5	0.7	17	44.4	36.1	8.3	0
Powder River	20	19	1	6.4	3.8	6.3	0.2	20.7	70	60	10	0
Powell	45	40	5	11.3	5.2	10.7	0.7	80.3	53.3	26.7	13.3	13.3
Prairie	0	0	0	0	0	0	0	0	0	0	0	0
Ravalli	515	428	87	7.3	5.8	7	0.1	95.7	49.7	28.5	13.6	7.6
Richland	55	50	5	6.3	6.3	6.3	1.3	33	67.3	56.4	9.1	1.8
Roosevelt	56	37	19	4.4	6.6	5.2	0.5	12.3	55.3	48.2	7.1	0
Rosebud	52	43	9	2.6	2.9	2.7	1.1	9.7	15.4	15.4	0	0
Sanders	83	78	5	14.7	8.7	14.3	0.3	758	43.4	25.3	14.5	3.6
Sheridan	83	71	12	7.9	8.2	7.9	0.2	48.3	67.5	43.4	19.3	4.8
Silver Bow	368	314	54	7.8	8.7	8	0.3	82.2	61.4	38.6	15.5	7.3
Stillwater	39	28	11	4.9	3.2	4.4	0.6	20.5	43.6	35.9	5.1	2.6
Sweet Grass	24	17	7	10.8	32.7	17.2	1.1	62.7	58.3	25	8.3	25
Teton	60	40	20	10.8	1.4	7.7	0	95.5	38.3	23.3	6.7	8.3
Toole	36	31	5	4.3	2.6	4.1	0.2	22.1	33.4	30.6	2.8	0
Treasure	2	2	0	12.7	0	12.7	12.4	13	100	0	100	0
Valley	98	91	7	6.2	3.2	6	0.4	62.2	54.2	42.9	8.2	3.1
Wheatland	4	3	1	3.8	2.7	3.5	0.5	7.6	25	25	0	0
Wibaux	3	2	1	8.6	17.3	11.5	6.7	17.3	100	33.3	66.7	0
Yellowstone	787	635	152	4.1	4.3	4.1	0	39.2	35.5	30.7	3.8	1
TOTALS	10637	8789	1848	7.4	7	7.3	0	1366	47.5	30	11.4	6.1
	Total Tests	Total Charcoal Tests	Total Alpha-track Tests	Total Charcoal Mean	Total Alpha-track Mean	Total Combined Mean	Lowest Result	Highest Result	Total % Above 4 pCi/L	Total % Between 4 & 9.9 pCi/L	Total % Between 10 & 19.9 pCi/L	Total % Above 20 pCi/L

Table 3b: Radon Data Results for All Montana Counties (2005)

Column															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
County	Total No. of tests	No. Charcoal Tests	Average Charcoal pCi/L	No. of Alpha-track tests	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% Above 4 pCi/L	% Between 4 & 9.9 pCi/L	# Between 4 & 9.9 pCi/L	% Between 10 & 19.9 pCi/L	# Between 10 & 19.9 pCi/L	% Above 20 pCi/L	# Above 20 pCi/L
Beaverhead	56	11	10.5	45	5.9	8.2	0.3	39.4	0.446	0.268	15	0.125	7	0.054	3
Big Horn	23	6	2.2	17	3	2.6	0.5	6.6	0.217	0.217	5	0.000	0	0.000	0
Blaine	41	41	12.2	0	0	12.2	0.3	290.5	0.220	0.146	6	0.024	1	0.049	2
Broadwater	9	6	1.9	3	5.3	3	0.6	7.1	0.333	0.333	3	0.000	0	0.000	0
Carbon	432	24	7	408	4.5	5.7	0	36.8	0.456	0.391	169	0.049	21	0.016	7
Carter	2	2	1.9	0	0	1.9	1.1	2.6	0.000	0.000	0	0.000	0	0.000	0
Cascade	276	157	6.8	119	5.3	6.1	0	60.4	0.442	0.308	85	0.091	25	0.043	12
Chouteau	9	7	5.9	2	1.3	4.8	1.3	18.6	0.333	0.222	2	0.111	1	0.000	0
Custer	421	80	4.8	341	4.5	4.5	0	40	0.423	0.342	144	0.071	30	0.010	4
Daniels	7	6	8.9	1	1.4	7.8	0.3	16.7	0.571	0.000	0	0.571	4	0.000	0
Dawson	59	56	4.4	3	5	4.4	0.3	25.9	0.322	0.237	14	0.068	4	0.017	1
Deer Lodge	25	19	4.3	6	6.5	4.8	0.5	16.3	0.520	0.440	11	0.080	2	0.000	0
Fallon	12	8	3.6	4	5.4	4.5	1.2	8.7	0.500	0.500	6	0.000	0	0.000	0
Fergus	118	98	8.5	20	10.8	8.9	0	75.2	0.636	0.347	41	0.195	23	0.093	11
Flathead	1501	931	9.3	570	5.5	7.4	0	188.4	0.413	0.224	336	0.094	141	0.095	143
Gallatin	2475	1096	7.9	1379	4.8	6.1	0	242	0.401	0.238	589	0.103	255	0.060	148
Garfield	4	4	1.7	0	0	1.7	1.2	2.2	0.000	0.000	0	0.000	0	0.000	0
Glacier	54	54	6.5		0	6.5	0.3	43.7	0.389	0.278	15	0.019	1	0.093	5
Golden Valley	0	0	0	0	0	0	0	0	0.000	0.000	0	0.000	0	0.000	0
Granite	14	12	4.5	2	3.1	4.3	0.1	15.7	0.714	0.571	8	0.143	2	0.000	0
Hill	16	15	2.4	1	2.9	2.4	0.3	9.9	0.188	0.188	3	0.000	0	0.000	0
Jefferson	50	35	5.7	15	3.1	4.9	0	20.4	0.540	0.460	23	0.060	3	0.020	1
Judith Basin	6	4.0	5.3	2	5.8	6.1	2	8.2	0.667	0.500	3	0.167	1	0.000	0
Lake	192	157	9	35	3.7	8	0	132.5	0.365	0.188	36	0.125	24	0.052	10
Lewis & Clark	836	457	20.8	379	99.9	56.6	0	2574	0.519	0.260	217	0.114	95	0.146	122
Liberty	6	6	1.2	0	0	1.2	0.1	5.1	0.167	0.167	1	0.000	0	0.000	0
Lincoln	157	117	4.9	40	9.1	7	0	57.7	0.363	0.166	26	0.140	22	0.057	9
Madison	53	32	5.3	21	2.8	4.3	0	26.8	0.302	0.189	10	0.094	5	0.019	1
McCone	8	7	4.6	1	1.7	4.2	1.5	10.6	0.375	0.250	2	0.125	1	0.000	0
Meagher	6	4	1.5	2	3.9	2.3	0.3	3.7	0.167	0.167	1	0.000	0	0.000	0
Mineral	26	24	9.8	2	2.2	9.2	0.3	28.2	0.615	0.192	5	0.269	7	0.154	4
Missoula	2272	1838	7.1	434	6.3	6.7	0	104.4	0.517	0.335	760	0.131	298	0.051	116

Column															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
County	Total No. of tests	No. Charcoal Tests	Average Charcoal pCi/L	No. of Alpha-track tests	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% Above 4 pCi/L	% Between 4 & 9.9 pCi/L	# Between 4 & 9.9 pCi/L	% Between 10 & 19.9 pCi/L	# Between 10 & 19.9 pCi/L	% Above 20 pCi/L	# Above 20 pCi/L
Musselshell	5	4	6.4	1	4	5.2	2.3	16.8	0.400	0.200	1	0.200	1	0.000	0
Park	137	98	9.1	39	4.5	6.8	0	46.9	0.540	0.270	37	0.182	25	0.088	12
Petroleum	1	1	1.7	0	0	1.7	1.7	1.7	0.000	0.000	0	0.000	0	0.000	0
Phillips	20	8	4.7	12	3.3	4	0.5	14.5	0.200	0.100	2	0.100	2	0.000	0
Pondera	17	17	3	0	0	3	0.3	7	0.412	0.412	7	0.000	0	0.000	0
Powder River	8	7	4.1	1	2.9	4	1.6	10.3	0.375	0.250	2	0.125	1	0.000	0
Powell	17	11	8.5	6	17.3	11.6	0.3	40.2	0.588	0.176	3	0.118	2	0.294	5
Prairie	5	4	3.6	1	3.8	3.6	2.2	5.9	0.200	0.200	1	0.000	0	0.000	0
Ravalli	883	771	6.3	112	5.1	5.7	0	84.5	0.428	0.257	227	0.112	99	0.059	52
Richland	47	42	5.5	5	5.8	5.5	0.5	18.9	0.596	0.489	23	0.106	5	0.000	0
Roosevelt	28	25	6.8	3	3.8	5.3	0.3	19.7	0.536	0.286	8	0.250	7	0.000	0
Rosebud	74	64	6	10	6.3	6	0.3	27.4	0.486	0.338	25	0.122	9	0.027	2
Sanders	145	124	17.2	21	9.9	16.1	0	169.9	0.517	0.241	35	0.097	14	0.179	26
Sheridan	25	19	10.1	6	3.3	6.7	1.1	29.6	0.720	0.400	10	0.240	6	0.080	2
Silver Bow	250	183	8.9	67	6.8	7.8	0.3	126.4	0.584	0.356	89	0.180	45	0.048	12
Stillwater	72	16	10	56	5.3	7.6	0.6	32.5	0.542	0.389	28	0.097	7	0.056	4
Sweet Grass	43	23	5.2	20	5.4	5.3	0.6	16.2	0.488	0.279	12	0.209	9	0.000	0
Teton	7	7	3.2	0	0	3.3	1.3	7.7	0.286	0.286	2	0.000	0	0.000	0
Toole	7	7	1.6	0	0	2.6	0.5	3.9	0.000	0.000	0	0.000	0	0.000	0
Treasure	7	0	0	7	3.7	3.7	1	9.5	0.286	0.286	2	0.000	0	0.000	0
Valley	60	47	7.3	13	3.9	5.6	0.3	99	0.300	0.217	13	0.050	3	0.033	2
Wheatland	5	2	9.3	3	3.4	5.8	0.3	18.3	0.400	0.200	1	0.200	1	0.000	0
Wibaux	4	4	5.1	0	0	5.1	4.9	5.3	1.000	1.000	4	0.000		0.000	0
Yellowstone	2352	257	6	2095	4.9	5.4	0	182.1	0.424	0.354	832	0.049	115	0.021	50
	Total No. of tests	Total No. Charcoal Tests	Total Average Charcoal pCi/L	Total No. of Alpha-track tests	Total Average Alpha-track pCi/L	Total Mean pCi/L	Total LOW pCi/L	Total HIGH pCi/L	Total % Above 4 pCi/L	Total % Between 4 & 9.9 pCi/L	Total # Between 4 & 9.9 pCi/L	Total % Between 10 & 19.9 pCi/L	Total # Between 10 & 19.9 pCi/L	Total % Above 20 pCi/L	Total # Above 20 pCi/L
	13385	7055	6.1	6330	5.7	6.4	0	2574	0.448	0.291	3900	0.099	1324	0.057	766

Note: Beaverhead1 CRM measurement of 11.9 was combined with the Alpha-track.

Note Flathead: 1 CRM measurement of 3.7 was combined with the Alpha-track.

Note: Silver Bow 2 CRM measurements of 6.8 & 1.8 were combined with the Alpha-track.

Table 3c offers a comparison of the results of both the 1997 and the 2005 studies. The results shown in bold type are from the 1997 study and the results in regular type are from the 2005 study.

Table 3c: Radon Data Results For All Montana Counties 1997 & 2005

(Bolted County Names: 1997)

Montana Counties	Total No. of Tests	No. of Charcoal	No. of Alpha-track	Average of Charcoal pCi/L	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% above 4 pCi/L	Mean % above 4 pCi/L	4<%<9.9 pCi/L	10<%>19.9 pCi/L	%>20 pCi/L
Beaverhead BEAVERHEAD	62 56	54 11	8 10.5	10.8 45	4.4 5.9	9.9 8.2	0.9 0.3	155.2 39.4	38.7 44.6	41.65	11.3 0.268	16.1 0.125	11.3 0.054
Big Horn BIG HORN	144 23	71 6	73 2.2	6 17	8.3 3	7.2 2.6	0.2 0.5	146.2 6.6	42.3 21.7	32	27.1 0.217	6.9 0.000	8.3 0.000
Blaine BLAINE	15 41	9 41	6 12.2	10 0	6.2 0	8.5 12.2	0.8 0.3	32.2 290.5	60 22	41	26.7 0.146	20 0.024	13.3 0.049
Broadwater BROADWATER	22 9	20 6	2 1.9	4.5 3	5.2 5.3	4.6 3	0.6 0.6	13 7.1	40.9 33.3	37.1	31.8 0.333	9.1 0.000	0 0.000
Carbon CARBON	31 432	12 24	19 7	5.3 408	9.2 4.5	7.7 5.7	0 0	55.4 36.8	35.6 45.6	40.6	19.4 0.391	9.7 0.049	6.5 0.016
Carter CARTER	4 2	4 2	0 1.9	3.9 0	0 0	3.9 1.9	0.9 1.1	7.7 2.6	50 0	25	50 0.000	0 0.000	0 0.000
Cascade CASCADE	392 276	340 157	52 6.8	5.2 119	4.5 5.3	5.1 6.1	0 0	116.2 60.4	35 44.2	39.6	25 0.308	6.9 0.091	3.1 0.043
Chouteau CHOUTEAU	39 9	34 7	5 5.9	6 2	3.2 1.3	5.6 4.8	0.4 1.3	29.6 18.6	56.5 33.3	44.9	43.6 0.222	10.3 0.111	2.6 0.000
Custer CUSTER	100 421	85 80	15 4.8	2.5 341	3.4 4.5	2.7 4.5	0.2 0	12 40	22 42.3	32.15	20 0.342	2 0.071	0 0.010
Daniels DANIELS	34 7	28 6	6 8.9	4.9 1	7.5 1.4	5.4 7.8	0.7 0.3	18.3 16.7	55.8 57.1	56.45	38.2 0.000	17.6 0.571	0 0.000
Dawson DAWSON	53 59	50 56	3 4.4	3 3	3.4 5	3.1 4.4	0.3 0.3	16.1 25.9	26.4 32.2	29.3	22.6 0.237	3.8 0.068	0 0.017
Deer Lodge DEER LODGE	55 25	39 19	16 4.3	5.2 6	8.7 6.5	6.2 4.8	0.1 0.5	75.7 16.3	32.8 52	42.4	18.2 0.440	9.1 0.080	5.5 0.000
Fallon FALLON	16 12	15 8	1 3.6	6.8 4	3.7 5.4	6.6 4.5	3.7 1.2	21.6 8.7	56.4 50	53.2	43.8 0.500	6.3 0.000	6.3 0.000
Fergus FERGUS	121 118	102 98	19 8.5	6.6 20	7.4 10.8	6.7 8.9	0.3 0	36.4 75.2	52 63.6	57.8	31.4 0.347	14 0.195	6.6 0.093

Montana Counties	Total No. of Tests	No. of Charcoal	No. of Alpha-track	Average of Charcoal pCi/L	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% above 4 pCi/L	Mean % above 4 pCi/L	4<%<9.9 pCi/L	10<%>19.9 pCi/L	%>20 pCi/L
Flathead	1121	724	397	7.5	5.8	6.9	0	160.8	35.7	38.5	20.2	7.7	7.8
FLATHEAD	1501	931	9.3	570	5.5	7.4	0	188.4	41.3		0.224	0.094	0.095
Gallatin	1134	878	256	8.4	6.2	7.9	0	138.5	56.3	48.2	32.7	16.1	7.5
GALLATIN	2475	1096	7.9	1379	4.8	6.1	0	242	40.1		0.238	0.103	0.060
Garfield	3	3	0	1.8	0	1.8	1.3	2.8	0	0	0	0	0
GARFIELD	4	4	1.7	0	0	1.7	1.2	2.2	0		0.000	0.000	0.000
Glacier	75	69	6	5.2	2.2	5	0.9	24.4	37.4	38.15	24	10.7	2.7
GLACIER	54	54	6.5		0	6.5	0.3	43.7	38.9		0.278	0.019	0.093
Golden Valley	2	2	0	3.5	0	3.5	0.5	3.8	0	0	0	0	0
GOLDEN VALLEY	0	0	0	0	0	0	0	0	0		0.000	0.000	0.000
Granite	6	6	0	35.7	0	35.7	2.7	172.1	50.1	60.75	16.7	16.7	16.7
GRANITE	14	12	4.5	2	3.1	4.3	0.1	15.7	71.4		0.571	0.143	0.000
Hill	241	234	7	2.3	2.9	2.3	0.4	45.7	16.1	17.45	14.9	0.8	0.4
HILL	16	15	2.4	1	2.9	2.4	0.3	9.9	18.8		0.188	0.000	0.000
Jefferson	146	109	37	8.1	46.7	17.9	0.5	1366	58.8	56.4	30.1	17.1	11.6
JEFFERSON	50	35	5.7	15	3.1	4.9	0	20.4	54		0.460	0.060	0.020
Judith Basin	23	16	7	5.7	5.6	5.6	0.6	14.3	56.5	61.6	43.5	13	0
JUDITH BASIN	6	4.0	5.3	2	5.8	6.1	2	8.2	66.7		0.500	0.167	0.000
Lake	248	195	53	4.6	4.1	4.9	0	46.8	33.8	35.15	24.2	5.2	4.4
LAKE	192	157	9	35	3.7	8	0	132.5	36.5		0.188	0.125	0.052
Lewis and Clark	1034	862	172	8.1	7.1	7.9	0	115.1	52.1	52	30.3	12.9	8.9
LEWIS & CLARK	836	457	20.8	379	99.9	56.6	0	2574	51.9		0.260	0.114	0.146
Liberty	1	1	0	3.6	0	3.6	3.6	3.6	0	8.35	0	0	0
LIBERTY	6	6	1.2	0	0	1.2	0.1	5.1	16.7		0.167	0.000	0.000
Lincoln	234	181	53	6.6	7	6.7	0	73.3	38.8	37.55	22.6	9.4	6.8
LINCOLN	157	117	4.9	40	9.1	7	0	57.7	36.3		0.166	0.140	0.057
Madison	17	9	8	8	9.5	8.7	1.7	48.2	70.6	50.4	58.8	0	11.8
MADISON	53	32	5.3	21	2.8	4.3	0	26.8	30.2		0.189	0.094	0.019
McCone	29	28	1	5.2	3.8	5.1	2.2	24.3	37.9	37.7	31	0	6.9
MCCONE	8	7	4.6	1	1.7	4.2	1.5	10.6	37.5		0.250	0.125	0.000
Meagher	6	5	1	6.2	4.5	5.9	1.7	19.3	50	33.35	33.3	16.7	0
MEAGHER	6	4	1.5	2	3.9	2.3	0.3	3.7	16.7		0.167	0.000	0.000

Montana Counties	Total No. of Tests	No. of Charcoal	No. of Alpha-track	Average of Charcoal pCi/L	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% above 4 pCi/L	Mean % above 4 pCi/L	4<%<9.9 pCi/L	10<%>19.9 pCi/L	%>20 pCi/L
Mineral MINERAL	54 26	45 24	9 9.8	5.8 2	2.9 2.2	5.4 9.2	0.8 0.3	21.3 28.2	44.5 61.5	53	22.2 0.192	20.4 0.269	1.9 0.154
Missoula MISSOULA	2507 2272	2340 1838	167 7.1	7.5 434	5.9 6.3	7.4 6.7	0 0	520.4 104.4	56 51.7	53.85	35.2 0.335	14.5 0.131	6.3 0.051
Musselshell MUSSELSHELL	10 5	7 4	3 6.4	2.7 1	2 4	2.5 5.2	0 2.3	11.7 16.8	20 40	30	10 0.200	10 0.200	0 0.000
Park PARK	271 137	236 98	35 9.1	8.1 39	7.2 4.5	8 6.8	0.3 0	90 46.9	52.8 54	53.4	30.6 0.270	13.7 0.182	8.5 0.088
Petroleum PETROLEUM	1 1	0 1	1 1.7	0 0	15.8 0	15.8 1.7	15.8 1.7	15.8 1.7	100 0	50	0 0.000	100 0.000	0 0.000
Phillips PHILLIPS	20 20	16 8	4 4.7	3.9 12	4.1 3.3	4 4	0.5 0.5	22.9 14.5	30 20	25	25 0.100	0 0.100	5 0.000
Pondera PONDERA	36 17	31 17	5 3	4.6 0	4.2 0	4.5 3	0.7 0.3	17 7	44.4 41.2	42.8	36.1 0.412	8.3 0.000	0 0.000
Powder River POWDER RIVER	20 8	19 7	1 4.1	6.4 1	3.8 2.9	6.3 4	0.2 1.6	20.7 10.3	70 37.5	53.75	60 0.250	10 0.125	0 0.000
Powell POWELL	45 17	40 11	5 8.5	11.3 6	5.2 17.3	10.7 11.6	0.7 0.3	80.3 40.2	53.3 58.8	56.05	26.7 0.176	13.3 0.118	13.3 0.294
Prairie PRAIRE	0 5	0 4	0 3.6	0 1	0 3.8	0 3.6	0 2.2	0 5.9	0 20	10	0 0.200	0 0.000	0 0.000
Ravalli RAVALLI	515 883	428 771	87 6.3	7.3 112	5.8 5.1	7 5.7	0.1 0	95.7 84.5	49.7 84.5	67.1	28.5 0.257	13.6 0.112	7.6 0.059
Richland RICHLAND	55 47	50 42	5 5.5	6.3 5	6.3 5.8	6.3 5.5	1.3 0.5	33 18.9	67.3 59.6	63.45	56.4 0.489	9.1 0.106	1.8 0.000
Roosevelt ROOSEVELT	56 28	37 25	19 6.8	4.4 3	6.6 3.8	5.2 5.3	0.5 0.3	12.3 19.7	55.3 53.6	54.45	48.2 0.286	7.1 0.250	0 0.000
Rosebud ROSEBUD	52 74	43 64	9 6	2.6 10	2.9 6.3	2.7 6	1.1 0.3	9.7 27.4	15.4 48.6	32	15.4 0.338	0 0.122	0 0.027
Sanders SANDERS	83 145	78 124	5 17.2	14.7 21	8.7 9.9	14.3 16.1	0.3 0	758 169.9	43.4 51.7	47.55	25.3 0.241	14.5 0.097	3.6 0.179
Sheridan SHERIDAN	83 25	71 19	12 10.1	7.9 6	8.2 3.3	7.9 6.7	0.2 1.1	48.3 29.6	67.5 72	69.75	43.4 0.400	19.3 0.240	4.8 0.080
Silver Bow SILVER BOW	368 250	314 183	54 8.9	7.8 67	8.7 6.8	8 7.8	0.3 0.3	82.2 126.4	61.4 58.4	59.9	38.6 0.356	15.5 0.180	7.3 0.048

Montana Counties	Total No. of Tests	No. of Charcoal	No. of Alpha-track	Average of Charcoal pCi/L	Average Alpha-track pCi/L	Mean pCi/L	LOW pCi/L	HIGH pCi/L	% above 4 pCi/L	Mean % above 4 pCi/L	4<%<9.9 pCi/L	10<%>19.9 pCi/L	%>20 pCi/L
Stillwater	39	28	11	4.9	3.2	4.4	0.6	20.5	43.6	48.9	35.9	5.1	2.6
STILLWATER	72	16	10	56	5.3	7.6	0.6	32.5	54.2		0.389	0.097	0.056
Sweet Grass	24	17	7	10.8	32.7	17.2	1.1	62.7	58.3	53.55	25	8.3	25
SWEET GRASS	43	23	5.2	20	5.4	5.3	0.6	16.2	48.8		0.279	0.209	0.000
Teton	60	40	20	10.8	1.4	7.7	0	95.5	38.3	33.45	23.3	6.7	8.3
TETON	7	7	3.2	0	0	3.3	1.3	7.7	28.6		0.286	0.000	0.000
Toole	36	31	5	4.3	2.6	4.1	0.2	22.1	33.4	16.7	30.6	2.8	0
TOOLE	7	7	1.6	0	0	2.6	0.5	3.9	0		0.000	0.000	0.000
Treasure	2	2	0	12.7	0	12.7	12.4	13	100	64.3	0	100	0
TREASURE	7	0	0	7	3.7	3.7	1	9.5	28.6		0.286	0.000	0.000
Valley	98	91	7	6.2	3.2	6	0.4	62.2	54.2	42.1	42.9	8.2	3.1
VALLEY	60	47	7.3	13	3.9	5.6	0.3	99	30		0.217	0.050	0.033
Wheatland	4	3	1	3.8	2.7	3.5	0.5	7.6	25	32.5	25	0	0
WHEATLAND	5	2	9.3	3	3.4	5.8	0.3	18.3	40		0.200	0.200	0.000
Wibaux	3	2	1	8.6	17.3	11.5	6.7	17.3	100	100	33.3	66.7	0
WIBAUX	4	4	5.1	0	0	5.1	4.9	5.3	100		1.000	0.000	0.000
Yellowstone	787	635	152	4.1	4.3	4.1	0	39.2	35.5	38.95	30.7	3.8	1
YELLOWSTONE	2352	257	6	2095	4.9	5.4	0	182.1	42.4		0.354	0.049	0.021
Totals	24022	15844	39866	60.34865	5.92232143	6.745536	0	2574	0.5	42.13	0.31	0.14	0.05
									Total % Above 4 pCi/L	Total Combined Mean	Total % Between 4 & 9.9 pCi/L	Total % Between 10 & 19.9 pCi/L	Total % Above 20 pCi/L

Montana Indian Reservation Radon Levels

For the 1997 study attempts were made to obtain radon results from the Montana Indian Reservations. Radon test results were requested, with little success, from each of the seven reservations by contacting the Indian Health Services and the Indian Housing Authority office. Since much of the reservation radon monitoring has been coordinated by Bureau of Indian Affairs Tribal Health Services, the Billings Area Indian Health Service (BAIHS) was contacted. According to the BAIHS, radon data is available and has been requested for the study. However, the records are being stored at a federal facility in New Mexico. The records were not available at the time of publishing the 1997 report.

Through several radon studies conducted by the MSU Extension Housing Program some reservation data was obtained from the BAIHS in October 1990. See Table 4. Data was requested from the Billings Area Indian Health Services but none was available for the 2005 report.

Table 4. Mean Radon Levels for Montana Reservations (1997)

MONTANA RESERVATION	MEAN RADON LEVEL (pCi/L)	MONTANA COUNTY(IES)
BLACKFEET*	2.9	GLACIER
CROW*	2.6	BIG HORN
FLATHEAD*	3.2	LAKE, SANDERS
FT. PECK*	2.2	ROOSEVELT , VALLEY
NORTHERN CHEYENNE*	5.2	ROSEBUD, BIG HORN
ROCKY BOY*	1.8	HILL, CHOTEAU
FORT BELKNAP**	2.2	BLAINE, PHILLIPS

* Source Billings Area Indian Health Services (October 1990).

** The 133 radon test results from the Fort Belknap reservation were all measured using alpha-track detectors. The average of the tests was 2.2 pCi/L. The highest result was 23.8 pCi/L and the lowest was 0.2 pCi/L. Of the 133 tests, 88% were below the 4 pCi/L level, 8.2% were between 4 and 9.9 pCi/L, 3.0% were between 10 and 19.9 pCi/L, and 0.8 % were above 20 pCi/L. In total, 12% of the tests were above 4 pCi/L.

Montana DNRC Radon Monitoring Study

The Montana Department of Natural Resources and Conservation (DNRC) performed a radon monitoring study in 1984 that compared the radon levels of energy-efficient homes² to the radon levels of conventionally built homes. The DNRC divided western Montana into four different regions: the Flathead Lake area (Northwest), the Missoula area (Southwest), the Helena area (Central), and the Bozeman-Butte area (South-central). Alpha-track detectors were used for a one-year testing period. The results of this study are illustrated in Table 5.

Table 5. Montana DNRC Radon Monitoring Study Results

Montana Region	Total No. of Homes Tested	No. of Energy Efficient Homes Tested	No. of Conventional Homes Tested	% > 4 pCi/L of Energy Efficient Homes Tested	% > 4 pCi/L of Conventional Homes Tested
NORTHWEST ¹	22	9	13	11.1	15.4
SOUTHWEST ²	20	10	10	30	10
CENTRAL ³	37	18	19	33.3	47.4
SOUTH CENTRAL ⁴	34	17	17	47.1	35.3
TOTALS	113	54	59	33.3	30.5

1. Northwest region includes Kalispell, Whitefish, Big Fork, Polson, Ronan, Thompson Falls, and Cut Bank.

2. Southwest region includes Missoula, Lolo, Frenchtown, Stevensville, and Florence.

3. Central region includes Helena, East Helena, Montana City, and Clancy.

4. South central region includes Bozeman, Gallatin Gateway, Belgrade, Manhattan, Silver Bow, Pony and Dillon.

² The Residential Standards Demonstration Program (sponsored by the Bonneville Power Administration) gave builders monetary incentives to build approximately 70 energy-efficient homes during the 1984 building season.

Tables 6a and 6b show the top 10 counties in Montana with the highest reported radon concentrations for the 1997 and 2005 reports respectively.

Table 6a. Top 10 Highest Radon Readings in Montana
(1997 survey)

MONTANA COUNTIES	RADON CONCENTRATION (pCi/L)
JEFFERSON	1366.4
SANDERS	758
MISSOULA	520.4
GRANITE	172.1
FLATHEAD	160.8
BEAVERHEAD	155.2
BIG HORN	146.2
GALLATIN	138.5
CASCADE	116.2
LEWIS & CLARK	115.1

Table 6b. Top 10 Highest Radon Readings In Montana (2005 survey)

Montana Counties	RADON CONCENTRATION (pCi/L)
LEWIS & CLARK	2574.3*
BLAINE	290.5
GALLATIN	242
FLATHEAD	188.4
YELLOWSTONE	182.1
SANDERS	169.9
LAKE	132.5
SILVER BOW	126.4
MISSOULA	104.4
VALLEY	99

*Assumed to be sampling error.

Tables 7a and 7b show the percent and frequency of radon testing in Montana counties with a radon reading greater than 4 pCi/L for the 1997 and 2005 studies respectively. The counties are in rank ordered.

Table 7a. Percent and Frequency of Radon Testing in Montana Counties With Radon Reading Greater than 4 pCi/L (rank ordered)
(1997 survey)

MONTANA COUNTIES	% above 4 pCi/L	No. of Tests
WIBAUX	100	3
TREASURE	100	2
PETROLEUM	100	1
MADISON	70.6	17
POWDER RIVER	70	20
SHERIDAN	67.5	83
RICHLAND	67.3	55
SILVER BOW	61.4	368
BLAINE	60	15
JEFFERSON	58.9	146
SWEET GRASS	58.3	24
JUDITH BASIN	56.5	23
CHOUTEAU	56.4	39
GALLATIN	56.2	1134
FALLON	56.2	16
MISSOULA	56.1	2507
DANIELS	55.9	34
ROOSEVELT	55.4	56
VALLEY	54.1	98
POWELL	53.3	45
LAKE	53.2	248
PARK	52.8	271
LEWIS AND CLARK	52.1	1034
FERGUS	52.1	121
MEAGHER	50	6
GRANITE	50	6
CARTER	50	4
RAVALLI	49.7	515

MONTANA COUNTIES	% above 4 pCi/L	No. of Tests
CARBON	44.6	31
MINERAL	44.4	54
PONDERA	44.4	36
STILLWATER	43.6	39
SANDERS	43.4	83
BIG HORN	42.4	144
BROADWATER	40.9	22
LINCOLN	38.9	234
BEAVERHEAD	38.7	62
TETON	38.3	60
MCCONE	37.9	29
GLACIER	37.3	75
FLATHEAD	35.6	1121
YELLOWSTONE	35.6	803
CASCADE	34.9	392
TOOLE	33.3	36
DEER LODGE	32.7	55
PHILLIPS	30	20
DAWSON	26.4	53
WHEATLAND	25	4
CUSTER	22	100
MUSSELSHELL	20	10
HILL	16.2	241
ROSEBUD	15.4	52
GARFIELD	0	3
GOLDEN VALLEY	0	2
LIBERTY	0	1
PRAIRIE	0	0

Table 7b. Percent and Frequency of Radon Testing in Montana Counties With Radon Reading Greater than 4 pCi/L (rank ordered)
(2005 survey)

Montana County	Total Number of Tests	Percent above 4 pCi/L	Number of Tests above 4 pCi/L
WIBAUX	4	1.000	4
SHERIDAN	25	0.720	18
GRANITE	14	0.714	10
JUDITH BASIN	6	0.667	4
FERGUS	118	0.636	75
MINERAL	26	0.615	16
RICHLAND	47	0.596	28
POWELL	17	0.588	10
SILVER BOW	250	0.584	146
DANIELS	7	0.571	4
STILLWATER	72	0.542	39
PARK	137	0.540	74
JEFFERSON	50	0.540	27
ROOSEVELT	28	0.536	15
DEER LODGE	25	0.520	13
LEWIS & CLARK	836	0.519	434
SANDERS	145	0.517	75
MISSOULA	2272	0.517	1174
FALLON	12	0.500	6
SWEET GRASS	43	0.488	21
ROSEBUD	74	0.486	36
CARBON	432	0.456	197
BEAVERHEAD	56	0.446	25
CASCADE	276	0.442	122
RAVALLI	883	0.428	378
YELLOWSTONE	2352	0.424	997
CUSTER	421	0.423	178
FLATHEAD	1501	0.413	620




Montana County	Total Number of Tests	Per cent above 4 pCi/L	Number of Tests above 4 pCi/L
PONDERA	17	0.412	7
GALLATIN	2475	0.401	992
MUSSELSHELL	5	0.400	2
WHEATLAND	5	0.400	2
GLACIER	54	0.389	21
MCCONE	8	0.375	3
POWDER RIVER	8	0.375	3
LAKE	192	0.365	70
LINCOLN	157	0.363	57
BROADWATER	9	0.333	3
CHOUTEAU	9	0.333	3
DAWSON	59	0.322	19
MADISON	53	0.302	16
VALLEY	60	0.300	18
TETON	7	0.286	2
TREASURE	7	0.286	2
BLAINE	41	0.220	9
BIG HORN	23	0.217	5
PHILLIPS	20	0.200	4
PRAIRIE	5	0.200	1
HILL	16	0.188	3
LIBERTY	6	0.167	1
MEAGHER	6	0.167	1
TOOLE	7	0.000	0
GARFIELD	4	0.000	0
CARTER	2	0.000	0
PETROLEUM	1	0.000	0
GOLDEN VALLEY	0	0.000	0

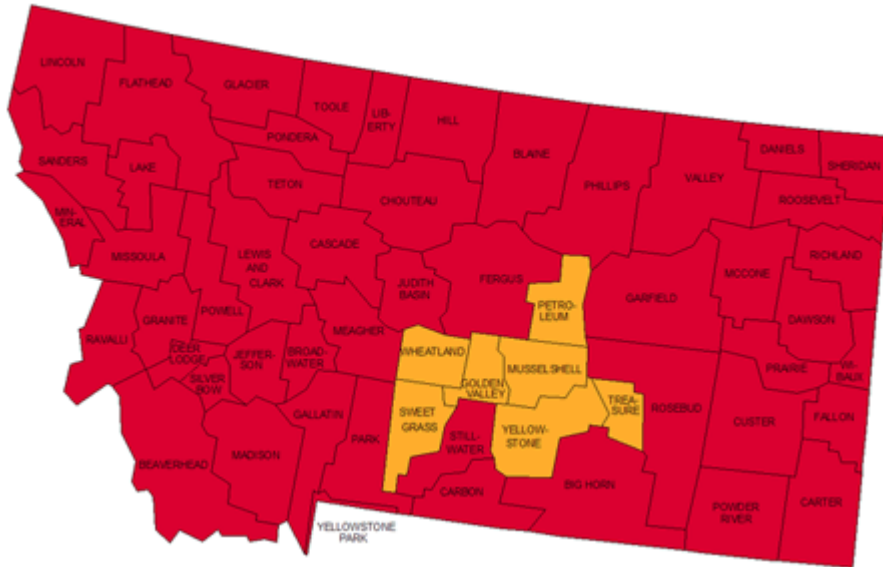
Radon Study Recommendations

To further the accuracy and completeness of this study, the following recommendations are made:

1. Radon concentration data in ground water was not compiled for this study. Since radon in water influences the level of radon in the air, and since much data specific to Montana is available, it is recommended that a study be conducted on radon concentration levels in water.
2. Implement a sampling program for those counties with less than 10 radon tests.
3. Work closely with individual tribes or the Indian Health Service to include tribal/reservation test results.

APPENDIX A

-  **Zone 1** Highest Potential (greater than 4 pCi/L)
-  **Zone 2** Moderate Potential (from 2 to 4 pCi/L)
-  **Zone 3** Low Potential (less than 2 pCi/L)



EPA's Map of Radon Zones - Montana Summary
September 1993

APPENDIX B

Radon Companies/Laboratories providing radon monitoring data for the 1997 study

Air Chek Inc.

570 Butler Bridge Road, Fletcher, NC 28732

(800) 247-2435

Total number of charcoal monitor tests provided for study: 5917

The tests were taken between January, 1985 and July, 1997.

Alpha Energy (First Alert)

1555 Valwood Parkway #100, Carrollton, TX 75006

(800) 323-9005

Total number of charcoal monitor tests provided for study: 390

Total number of alpha-track tests provided for study: 28

The tests were taken between January, 1993 and July, 1997

Key Technology

P.O. Box 562, Jonestown, PA 17038

(800) 523-4964

Total number of charcoal monitor tests provided for study: 1424

Total number of alpha-track tests for study: 102

The tests were taken between January, 1989 and June, 1997.

Landauer

2 Science Road, Glenwood, IL 60425-1586

(708) 755-7000

Total number of charcoal monitor tests provided for study: 77

Total number of alpha-track tests provided for study: 1718

The tests were taken between January, 1990 and July, 1997.

Radon Testing Corporation of America

2 Hayes Street, Elmsford, NY 10523-2502

(800) 457-2366

Total number of charcoal monitor tests provided for study: 694

The tests were taken between January, 1990 and July, 1997

Teledyne

Brown Engineering - Environmental Services

50 Van Buren Avenue, P.O. Box 1235, Westwood, NJ 07675-1235

(800) 666-0222

Total number of charcoal monitor tests provided for study: 287

The tests were taken between November, 1988 and November, 1994.

**Radon Companies, Laboratories and Agencies providing radon monitoring data
for the 2005 study.**

Landauer, Inc.

2 Science Road, Glenwood, IL 60425-1586
708-755-0329

Total number of test provided for study:

The tests were taken between January, 1998 and August 2005.

RSSI

6312 West Oakton t, Morton Grove, IL 60053-2723
847-965-1999

Total number of test provided for study:

The tests were taken between January, 1998 and August 2005.

Energy Laboratories, Inc.

PO Box 30916, Billings, MT 59107
406-252-6325

Total number of test provided for study:

The tests were taken between January, 1998 and August 2005.

Air Chek, Inc.

1936 Butler Bridge Rd, Fletcher, NC 28732
800-247-2435

Total number of test provided for study:

The tests were taken between January, 1998 and August 2005.

Pro-Lab

3300 Corporate Ave #112, Weston, FL 33331
800-427-0550

Total number of test provided for study:

The tests were taken between January, 1998 and August 2005.

Alpha Energy Laboratories, Inc.

2501 Mayes Rd, Carrollton, TX 75006
972-242-7750

Total number of test provided for study:

The tests were taken between January, 1998 and August 2005.

Radon Gone

823 Yellowstone, Miles City, MT 59301
406-234-1531

Total number of test provided for study: 25

The tests were taken between January, 1998 and August 2005.

Advantage

Need address – it has been requested

Total number of test provided for study: 177

The tests were taken between January, 2003 and December, 2005.

Gallatin County

12 North Third

Bozeman, MT 59715

406-582-3100

Total number of test provided for study: 1064

The tests were taken between March, 1998 and June, 2005.

APPENDIX C

EPA Listed Analytical Service Providers Serving Montana as of 1997

1021000	GCI Environmental Advisory John L. Jenkins 165 Darling Street Wilkes Barre, PA 18701 USA	717-455-5115 717-455-5051 (fax)
	CW-00064 Continuous Working Level Monitor Eberline WLM-1A Working Level Monitor	
1022000	Advanced Radiation Monitoring Service Philip B. Noack 48705 Hickory Lane Mattawan, MI 49071 USA	616-668-5246 616-668-5353 (fax)
	AC-06110 Activated Charcoal Adsorption A.R.M.S. ARMS-1 Diffus. Barrier (2 3/4" can	
1024500	Aegis Radon Services, Inc. Jay B. Brown 1378 South Fifth Street St. Charles, MO 63301-2444 USA	314-947-0040 314-947-6829 (fax)
	CR-00444 Continuous Radon Monitor Femto-Tech CRM-510 Continuous Radon Monitor	
	ES-BJ083 Electret Ion Chamber (Short-Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
1029000	Air Chek, Inc. B.V. Alvarez 570 Butler Bridge Road Fletcher, NC 28732 USA	800-247-2435
	CR-00463 Continuous Radon Monitor Femto-Tech CRM-510M "blind" Continuous Monitor	
	AC-AA001 Activated Charcoal Adsorption Air Chek Foil Bag Test Kit	
	AC-AB002 Activated Charcoal Adsorption Pro Chek Foil Bag Test Kit	

1147000	<p>D&D Radon Tech Daniel R. Heilmann 4490 Goss Road Ann Arbor, MI 48105 USA</p>	<p>313-761-8378</p>
	<p>CR-00103 Continuous Radon Monitor Femto-Tech R210F Radon Monitor</p>	
1162000	<p>Eastern Analytical Services, Inc. Paul Stascavage 4 Westchester Plaza Elmsford, NY 10523-1601 USA</p>	<p>800-327-0121</p>
	<p>AC-02011 Activated Charcoal Adsorption F&J R40VCD 4" Open Face D.B. (Calgon) can</p>	
1174000	<p>Energy Laboratories Inc. David Blaida 254 North Center, Suite 100 Casper, WY 82601 USA</p>	<p>307-235-0515 301-234-1639 (fax)</p>
	<p>AC-01047 Activated Charcoal Adsorption Ramses II, Ltd. Ram 4 of 4" open face canister</p>	
1175000	<p>Energy Laboratories Bruce D. Williams PO Box 30916 Billings, MT 59107 USA</p>	<p>406-252-6325</p>
	<p>AC-01047 Activated Charcoal Adsorption Ramses II, Ltd. Ram 4 of 4" open face canister</p>	
1178000	<p>Radon Testing Laboratory Jim Sigel 352-R Hungerford Drive Rockville, MD 20850 USA</p>	<p>301-929-1024 301-929-1117 (fax)</p>
	<p>AC-AL039 Activated Charcoal Adsorption Radon Test. & Eng. 3 ½" Charcoal Canister</p>	
1195000	<p>Kearney & Associates Philip D. Kearney 305 W. Magnolia, Suite 237 Ft. Collins, CO 80521 USA</p>	<p>970-482-1108</p>
	<p>AC-BW115 Activated Charcoal Adsorption Environmental Radiation Services ERS Model 1 (3" di)</p>	

1219000 **Franklin Environmental Analysis** 215-744-9212
Cynthia Lawn 215-744-9214 (fax)
2334 Orthodox Street
Philadelphia, PA 19137-1127 USA

AC-02014 Activated Charcoal Adsorption
F&J R40VDB 4" Open Face Dif. Bar. can

1220500 **Gallipot, Inc.** 612-681-9517
Michael J. Jones 612-681-9001 (fax)
2020 Silver Bell Road
St. Paul, MN 55122 USA

AC-01020 Activated Charcoal Adsorption
Gallipot Charcoal Canister (4" open face)

1229000 **Godbeer, Godbeer & Associates** 603-632-5508
Barrie C. Godbeer 603-632-4000 (fax)
PO Box 190, Route 4A
Enfield Center, NH 03749-0190 USA

CR-00103 Continuous Radon Monitor
Femto-Tech R210F Radon Monitor

11244000 **C-Flow Radon Screening System** 301-589-8800
Edgar Williams 301-589-4162 (fax)
10 Post Office Road
Silver Springs, MD 20910 USA

AC-01019 Activated Charcoal Adsorption
F&J RA40VCS 4" O.F. (Calgon, SS scrn) can

1248000 **Homes Plus Radon Services, Inc.** 203-887-5128
Scott M. Harrington
490 Main Street
Norwich, CT 06360 USA

LS-08091 Charcoal Liquid Scintillation
Packard Pico Rad Liquid Scintillation Vial

1273000 **Key Technology, Inc.** 800-523-4964
Raymond H. Johnson 717-274-5662 (fax)
PO Box 562
Jonestown, PA 17038 USA

AC-05027 Activated Charcoal Adsorption
Key Rad Kit Metal Open Face (2 3/4." dia.) can

AC-06028 Activated Charcoal Adsorption
Key Rad Kit Metal Dif. Bar. (2 3/4" dia.) can

1287000 **Maryland Radon Laboratory, Inc.** 301-997-2366
Paul V. Jennemann
3220 Corporate Ct, Suite E
Ellicott City, MD 21042 USA

AC-01023 Activated Charcoal Adsorption
Ink Filtering RC-41 4" open face (Calgon) can

1291000 **McFarland Associates, Inc.** 207-892-4485
James P. Bragdon 207-892-2559 (fax)
PO Box 400
N. Windham, NE 04062 USA

LS-08091 Charcoal Liquid Scintillation
Packard Pico Rad Liquid Scintillation Vial

1298000 **Microbac Laboratories, Inc.** 800-836-3881
Jeffrey P. Porte 814-825-9254 (fax)
Erie Testing Laboratory Division
1962 Wager Road
Erie, PA 16509 USA

AC-01017 Activated Charcoal Adsorption
F&J RA40V 4" open face canister

1299000 **Mid America Radon Testing Inc.** 913-469-1997
William A. Slentz
PO Box 25643
10802 W. 116th Terrace
Overland Park, KS 66210 USA

AC-01023 Activated Charcoal Adsorption
Ink Filtering RC-41 4" open face (Calgon) can

1310500 **National Radon Laboratory Inc.** 303-699-7378
Loel E Passe, Jr.
PO Box 3948
Englewood, CA 80112 USA

LS-07086 Charcoal Liquid Scintillation
EKS RadTech LS/RT 2 Pro Model Liq. Scint. Vial

1319000	Niton Corporation Anne B. McGuineas 74 Loomis Street, PO Box 368 Bedford, MA 01730-0368 USA	617-275-9275 617-275-2397 (fax)
	CR-00164 Continuous Radon Monitor Niton Rad 7 Professional Survey Monitor	
	LS-08088 Charcoal Liquid Scintillation Niton CLS-2 Liquid Scintillation Vial	
	LS-08089 Charcoal Liquid Scintillation Niton CLS-2D Liquid Scintillation Vial	
	LS-08091 Charcoal Liquid Scintillation Packard Pico Rad Liquid Scintillation Vial	
1323000	Northeast Environmental Services, Inc. David C. Grammer 95 Route 24 Chester, NJ 07930 USA	908-879-8799 908-879-8069 (fax)
	ES-BJ083 Electret Ion Chamber (Short-Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
1326000	N.I. Radon Detection Service Myron G. Sonkin 402 E. Roosevelt Road, Suite 102 Wheaton, IL 60187 USA	800-542-0329 708-690-5370 (fax)
	CR-00444 Continuous Radon Monitor Femto-Tech CRM-510 Continuous Radon Monitor	
1343000	Pembroke Laboratories, Inc. Debra Scott 528 Gooch Road Ft. Meade, FL 33841 USA	813-285-8145 813-285-7030 (fax)
	AC-01017 Activated Charcoal Adsorption F&J RA40V 4" open face canister	
1358000	Professional House Doctors, Inc. Dane J. Shearer 1406 E. 14 th Street Des Moines, IA 50316 USA	515-265-6667
	CR-00126 Continuous Radon Monitor Honeywell A9000A Professional Radon Monitor	

1362000	Prosser Laboratories George W. Prosser, Jr. PO Box 118 Effort, PA 18330-0118 USA	717-629-2981 717-620-0695 (fax)
	AC-06038 Activated Charcoal Adsorption RSI Diffusion Barrier (2 3/4" dia.) can	
1375000	R.A.D. Service & Instruments Ltd. Hsiang Lin Pai 14 Alicewood Ct. Rexdale, ON M9V-3 Y2 Canada	416-749-3181 416-749-3398 (fax)
	RP-BP095 Radon Progeny Integrated Sampling Unit R.A.D. Model M-1 Radon/Thoron Daughter Monitor	
1378000	RTS Environmental Services, Inc. Paul R. Ramsey 12620 West Oak Drive Mt. Airy, MD 21771 USA	301-607-6276 301-831-6235 (fax)
	ES-BJ083 Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
1382000	Rad-Elec Inc. Payasada Kotrappa 5714-C Industry Lane Frederick, MD 21703 USA	301-694-0011 301-694-0013 (fax)
	EL-BI082 Electret Ion Chamber (Long Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
	ES-BJ083 Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
1384000	Radiation Data Joseph A. Baicker PO Box 900 Rocky Hill, NJ 08553 USA	609-921-7061 609-921-7132 (fax)
	AC-06016 Activated Charcoal Adsorption F&J RA30VH 2 3/4" Dif. Bar. (U. Pitt) can	
1389000	Radiation Safety Engineering, Inc. Robert L. Metzger 3245 N. Washington Street Chandler, AZ 85225-1121 USA	602-897-9459 602-892-5446 (fax)
	AC-02014 Activated Charcoal Adsorption F&J R40VDB 4" Open Face Dif. Bar. can	

1400000 **Radon Analytical Laboratories, Inc.** 317-843-0788
Richard A. Jordan 317-573-9964 (fax)
801 Congressional Blvd., Suite 200
Carmel, IN 46032 USA

CR-00444 Continuous Radon Monitor
Femto-Tech CRM-510 Continuous Radon Monitor

AC-01017 Activated Charcoal Adsorption
F&J RA40V 4" open face canister

AC-02014 Activated Charcoal Adsorption
F&J R40VDB 4" Open Face Dif. Bar. can

1428000 **Radon Detection Systems** 800-627-2366
Michael A. Ferraro 303-444-1331 (fax)
2450 Central Ave, Suite A-1
Boulder, CO 80301 USA

CR-00444 Continuous Radon Monitor
Femto-Tech CRM-510 Continuous Radon Monitor

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SSt (S-Chamber w/ST elec.)

1431000 **Radon Detection, Inc.** 603-424-2022
Lucian Borduz 603-429-8496 (fax)
111 Herrick Street
Merrimack, NH 03054 USA

CR-00194 Continuous Radon Monitor
Pylon AB-5 Portable Radiation Monitor

1437000 **Radon Environmental Monitoring, Inc.** 847-205-0110
Michael J. Myers
3334 Commercial Avenue
Northbrook, IL 60062 USA

CR-00103 Continuous Radon Monitor
Femto-Tech R210F Radon Monitor

CR-00465 Continuous Radon Monitor
Pylon AB-4 Radon Measurement System

AT-AW070 Alpha Track Detection
REM AT-100 Alpha Track Detector

AT-AY072 Alpha Track Detection
REM AT-400 Alpha Track Detector

AT-CB121 Alpha Track Detection
REM AT-100F Alpha Track Detector

EL-BI082 Electret Ion Chamber (Long Term)
Rad Elec E-Perm SLT (S-Chamber w/LT elec.)

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

LS-08135 Charcoal Liquid Scintillation
REM ST-100 Nodar Liq. Scint. Detector

1440000 **Radon Environmental Testing Corp.** 305-255-8700
Jan L. Campo 305-252-3143 (fax)
12982 SW 132 Avenue
Miami, FL 33186 USA

CR-00223 Continuous Radon Monitor
Sun Nuclear 1023/1026 At Ease Digital Data Logger

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

1462000 **Radon Measurements Laboratory** 719-593-3584
James F. Burkhart
1420 Austin Bluffs Parkway
Colorado Springs, CO 80933-7150 USA

AC-01023 Activated Charcoal Adsorption
Ink Filtering RC-41 4" open face (Calgon) can

1477000 **Radon Reduction and Testing, Inc.** 770-458-6446
Dallas L. Jones 770-457-2105 (fax)
5601 Peachtree Road
Atlanta, GA 30341-2311 USA

CR-00061 Continuous Radon Monitor
Eberline RGM-3 Radon Gas Monitor

1478000 **Americlean Services Corporation** 703-281-7865
Charles H. De Azagra
310 Dominion Road
Vienna, VA 22180 USA

CW-00280 Continuous Working Level Monitor
Thomson & Nielsen TN-WL-02 Radon W.L. Meter

AC-01017 Activated Charcoal Adsorption
F&J RA40V 4" open face canister

1497000	<p>Radon Survey Systems, Inc. Darioush T. Ghahremani 10357 Liberty Road Twinsburg, OH 44087 USA</p>	<p>216-963-6633 216-963-6767 (fax)</p>
	<p>AC-01017 Activated Charcoal Adsorption F&J RA40V 4" open face canister</p>	
1499000	<p>Radon Tech, Inc. Birger B. Back 2929 Northcreek Court Woodridge, IL 60517 USA</p>	<p>630-910-4616 630-910-4616 (fax)</p>
	<p>AC-01018 Activated Charcoal Adsorption F&J RA40VC 4" open face (Calgon) can</p>	
1510000	<p>RTCA – Radon Testing Corp. of America, I Nancy A. Bredhoff 2 Hayes Street Elmsford, NY 10523 USA</p>	<p>800-457-2366 914-345-8546 (fax)</p>
	<p>GC-00214 Grab Radon/Activated Charcoal RTCA Pro-Scan Grab Sampling Kit</p>	
	<p>AC-04040 Activated Charcoal Adsorption RTCA 3" passive diffusion canister</p>	
	<p>AC-CA120 Activated Charcoal Adsorption RTCA 4" Superpass Diffusion Barrier Can</p>	
	<p>EL-BI082 Electret Ion Chamber (Long Term) Rad Elec E-Perm SLT (S-Chamber w/LT elec.)</p>	
	<p>ES-BJ083 Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)</p>	
	<p>LS-BM092 Charcoal Liquid Scintillation RTCA – Liquid Scintillation Radon Test Kit</p>	
1512000	<p>Radon Testing, Inc. Jerry E. Gieseke PO Box 7304 Fairfax Station, VA 22039 USA</p>	<p>703-591-1111</p>
	<p>CR-00103 Continuous Radon Monitor Femto-Tech R210F Radon Monitor</p>	
	<p>ES-BJ083 Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)</p>	

1515000	Radon Testing Service, Inc. David L. Egleston, Jr. PO Box 1130 Englewood, CO 80110-1130 USA	303-797-3243
	AC-01017 Activated Charcoal Adsorption F&J RA40V 4" open face canister	
1539000	Radonics, Inc. James G. Dyer 3975 Fair Ridge Drive, Suite 250, North Tower Fairfax, VA 22033 USA	703-506-3606
	CR-00215 Continuous Radon Monitor Gemini Research GRI-1000	
	CR-00421 Continuous Radon Monitor Gemini Research GRI-1100	
	CR-00458 Continuous Radon Monitor Gemini Research GRI-222	
	CW-00215 Continuous Working Level Monitor Gemini Research GRI-1000	
	CW-00421 Continuous Working Level Monitor Gemini Research GRI-1100	
1545000	Ramses II, A Division of RAM/GAM Eng. Ser. George A. Michael, P.E. 2200 Chambers Rd, Unit K Aurora, CO 80011 USA	303-340-2001 303-340-2007 (fax)
	AC-01047 Activated Charcoal Adsorption Ramses II, Ltd. RAM 4 of 4" open face canister	
1552000	Real Estate Support Services, Inc. Kenneth M. Sedor 8200 Humboldt Avenue S., Suite 101 Minneapolis, MN 55431 USA	612-881-4551 612-885-9092 (fax)
	ES-BJ083 Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
1571000	RSSI Eli A. Port 6312 W. Oakton Street Morton Grove, IL 60053-2723 USA	708-965-1999 708-965-1991 (fax)
	AT-BA074 Alpha Track Detection RSSI AT-101 Alpha Track Detector	

1609000 **Teledyne Brown Engineering-Environmental** 800-666-0222
Beverly Rowland 201-664-5586 (fax)
50 Van Buren Avenue, PO Box 1235
Westwood, NJ 07675-1235 USA

AC-AR058 Activated Charcoal Adsorption
Teledyne Isotopes RTK-1 (3" dia.) canister

1631000 **TRC-Environmental Consultants, Inc.** 203-289-8631
Lance Cotton
5 Waterside Crossing
Windsor, CT 06095 USA

AC-01018 Activated Charcoal Adsorption
F&J RA40VC 4" open face (Calgon) can

1635000 **U.S. Toxic Substance Testing/Inspection** 215-953-9200
Perry S. Esksel 215-953-8837 (fax)
804 Second Street Pike
South Hampton, PA 18966 USA

CR-00126 Continuous Radon Monitor
Honeywell A9000A Professional Radon Monitor

1636000 **United Inspections Services** 703-845-1324
William W. Tu
4900 Leesburg Pike, Suite 210
Alexandria, VA 22302 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

1647000 **Up-Country Home Insp. DBA Envirocheck** 207-883-9876
Stephen A. O'Connor 207-885-0852 (fax)
21 Oak Hill Terrace, PO Box 1568
Scarborough, ME 04070-1568 USA

LS-08091 Charcoal Liquid Scintillation
Packard Pico Rad Liquid Scintillation Vial

1651000 **UST Labs** 215-953-9200
Perry S. Esksel 215-953-8837 (fax)
804 Second Street Pike
South Hampton, PA 18966 USA

AC-02011 Activated Charcoal Adsorption
F&J R40VCD 4" Open Face D.B. (Calgon) can

1665500 **Wisconsin State Laboratory of Hygiene** 608-263-4766
David M. Schleis 608-262-5494 (fax)
Radiochemistry Unit, 465 Henry Mall
Madison, WI 53706 USA

LS-08091 Charcoal Liquid Scintillation
Packard Pico Rad Liquid Scintillation Vial

1666000 **World Wide Radon Testing Inc.** 305-942-5555
Margaret M. Semenuk
1001 E. Sample Road, Suite 8-W
Pompano Beach, FL 33064 USA

AC-02011 Activated Charcoal Adsorption
F&J R40VCD 4" Open Face D.B. (Calgon) can

2000600 **House Detective Inc.** 309-829-4663
Fred R. Noyes
RR3 Box 49
Bloomington, IL 61704 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2009700 **Space Raters Environmental Audits, Inc.** 314-878-8907
Gerald W. Loesch 314-878-0174 (fax)
#4 The Pines Court, Suite C
Creve Coeur, MO 63141 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2011400 **Radon Environmental Monitoring, Inc.** 708-205-0110
Michael J. Myers
Eastern Regional Laboratory
3334 Commercial Avenue
Northbrook, IL 60062 USA

AT-AW070 Alpha Track Detection
REM AT-100 Alpha Track Detector

2011600 **Resitech** 317-466-5412
Chris W. Schnepf 317-873-1862 (fax)
2870 S. 1200 East
Zionsville, IN 46077 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2013200 **Micro Air, Inc.** 317-293-1533
Stacey L. McDaniel 317-290-3566 (fax)
7132 Lakeview Parkway West Drive
Indianapolis, IN 46268 USA

	AC-01017	Activated Charcoal Adsorption F&J RA40V 4" open face canister	
2017600	EE&G Science and Management, Inc.		305-856-7458 305-856-3529 (fax)
	Daniel J. Cottrell 99 Southeast Fifth Street Miami, FL 33131 USA		
	AC-01017	Activated Charcoal Adsorption F&J RA40V 4" open face canister	
2024000	Pro-Test, Inc.		513-438-5686
	Gail M. Manning PO Box 277, 2663 Orchard Run Road Dayton, OH 45449 USA		
	CR-00444	Continuous Radon Monitor Femto-Tech CRM-510 Continuous Radon Monitor	
2034900	Radon Testing Labs, Inc.		919-876-1876 919-878-0516 (fax)
	Zygmunt C. Gromadzki 6851 Greystone Drive Raleigh, NC 27615 USA		
	AC-06054	Activated Charcoal Adsorption Sunn DBCA 2 3/4" dif. bar. (U. Pitt) can	
2041300	TMS Environmental Services		203-925-0541 203-925-0370 (fax)
	Randall Pierson 427 Bridgeport Avenue, Suite D Shelton, CT 06484 USA		
	ES-BJ083	Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
2069500	Dosirad Sarl		331-601-9213 331-601-9196 (fax)
	Charles F. Stafford Southern Radon Services, Inc. 1000 Johnson Ferry Road, Suite B-145 Marietta, GA 30068 USA		
	UT-CM132	Unfiltered Track Detection Kodak Pathe Kodalpha Radon Detector	
2070100	Catoctin Labs, Inc.		301-663-5323
	H. Allen Haines 8609 Apples Church Road Thurmont, MD 21788 USA		

EL-BI082 Electret Ion Chamber (Long Term)
Rad Elec E-Perm SLT (S-Chamber w/LT elec.)

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2072400 **Radiation Safety & Control Services, Inc.** 800-525-8339
James P. Tarzia
91E Portsmouth Avenue
Stratham, NH 03885-9986 USA

AC-01017 Activated Charcoal Adsorption
F&J RA40V 4" open face canister

2080100 **AMC/Housemaster** 800-553-4677
John J. Hendricks
354 West Maple Avenue
Bound Brook, NJ 08805 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2081100 **Froehling and Robertson, Inc.** 804-264-2701
Stephen E. Chippendale 804-264-1202 (fax)
3015 Dumbarton Road, PO Box 27524
Richmond, VA 23261 USA

EL-BI082 Electret Ion Chamber (Long Term)
Rad Elec E-Perm SLT (S-Chamber w/LT elec.)

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2083000 **Aqua Environmental Lab** 203-270-9973
Thomas J. Braun
56 Church Hill Road
Newton, CT 06470 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2096900 **A&E Home Inspection Co. Inc.** 301-256-6795
William Dinuoscio
9526 Belair Road
Baltimore, MD 21236 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2107200 **United Radon Sciences, Inc.** 301-738-9289
 Scott Parry
 611 Rockville Pike, Suite 17
 Rockville, MD 20852 USA

CR-00444 Continuous Radon Monitor
 Femto-Tech CRM-510 Continuous Radon Monitor

ES-BJ083 Electret Ion Chamber (Short Term)
 Rad Elec E-Perm SST (S-Chamber w/ST elec.)

21195000 **Environmental Testing Corporation** 703-777-8300
 Frederick R. Stieff
 5714-B Industry Lane
 Frederick, MD 21704 USA

ES-BJ083 Electret Ion Chamber (Short Term)
 Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2122600 **Whole House Inspection** 406-449-3939
 Chris Dorsi 406-449-4242 (fax)
 44 N. Last Chance Gulch
 Helena, MT 59601 USA

ES-BJ083 Electret Ion Chamber (Short Term)
 Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2132400 **Vermont Department of Health Lab** 802-863-7336
 Carla A. White 802-863-7632 (fax)
 195 Colchester Avenue
 Burlington, VT 05402-1125 USA

EL-BI082 Electret Ion Chamber (Long Term)
 Rad Elec E-Perm SLT (S-Chamber w/LT elec.)

ES-BJ083 Electret Ion Chamber (Short Term)
 Rad Elec E-Perm SST (S-Chamber w/ST elec.)

LS-08091 Charcoal Liquid Scintillation
 Packard Pico Rad Liquid Scintillation Vial

2133100 **Envirometric Laboratories, Inc.** 301-838-3091
 Paul Merolla 301-838-3094 (fax)
 354 Hungerford Drive, Suite 100
 Rockville MD, 20850 USA

AT-DA156 Alpha Track Detection
 Environmental Dynametrics Alpha Track Radon Detector

2135800 **Enveco** 615-922-1677
Franklin d. Stidham
8105 Walker Road
Knoxville, TN 37938-3828 USA

CR-00126 Continuous Radon Monitor
Honeywell A9000A Professional Radon Monitor

2154700 **Codden & Sons** 406-265-6538
Clayton Codden
1603 Third Street
Havre, MT 59501 USA

CR-00126 Continuous Radon Monitor
Honeywell A9000A Professional Radon Monitor

2157100 **Gemini Research, Inc.** 703-444-6229
Martin Smith 703-444-6471 (fax)
22560 Glenn Drive, #116
Sterling, VA 20164 USA

AT-CT148 Alpha Track Detection
Gemini Research/NYU Ultra Track Radon Detector

2160200 **U of ND Radon Monitoring Facility** 701-777-2911
Glenn I. Lykken 701-777-3560 (fax)
Physics – University of North Dakota
PO Box 7129
Grand Forks, ND 58202-7129 USA

AC-01023 Activated Charcoal Adsorption
Ink Filtering RC-41 4” open face (Calgon) can

2160700 **The E-Quest Corporation** 719-473-3385
Howard E. Hallman, Jr. 719-473-3310 (fax)
26 South Tejon Street, Suite 208
Colorado Springs, CO 80903 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2167900 **Certified Inspections, Inc.** 402-677-7437
Derek D. Lawrie 712-322-1669 (fax)
816 Ironwood Court
Council Bluffs, IA 51503-6725 USA

CR-00126 CR-00126 Continuous Radon Monitor
Honeywell A9000A Professional Radon Monitor

2169300	Inspecta-Homes of America, Inc. Charles A. Blixt 2469 University Avenue St. Paul, MN 55114 USA	612-641-0641
	CR-00126 CR-00126 Continuous Radon Monitor Honeywell A9000A Professional Radon Monitor	
2195100	AART, Inc. Christine M. Sleigh 9224 Lake Braddock Drive Burke, VA 22015 USA	703-425-2822
	ES-BJ083 Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
2209300	Inspector Homes William P. Gunning 2040 Regency Road, Suite H Lexington, KY 40503-2331 USA	606-277-8333 606-277-8811 (fax)
	ES-BJ083 Electret Ion Chamber (Short Term) Rad Elec E-Perm SST (S-Chamber w/ST elec.)	
2217500	The Minnesota Radon Project Daniel J. Steck 31148 County Road 50 Avon, MN 56310 USA	320-363-3186 320-363-3202 (fax)
	AT-CY153 Alpha Track Detection Minnesota Radon Project Model R ATD	
2233300	Lee Scientific Inc. Anthony G. Lee 2924 Mary Avenue St. Louis, MO 63144 USA	314-968-5093 314-968-9851 (fax)
	LS-08135 Charcoal Liquid Scintillation REM ST-100 Nodar Liq. Scint. Detector	
2257300	Radalink, Inc. Terry E. Howell 5599 Peachtree Road Atlanta, GA 30341-2309 USA	800-295-4655 770-457-2105 (fax)
	CR-00461 Continuous Radon Monitor RADALINK Radon Telemonitor	

2266500 **Pro Check** 800-338-5050
Lori Carty
53 Lake Avenue Ext.
Danbury, CT 06811 USA

CR-00126 Continuous Radon Monitor
Honeywell A9000A Professional Radon Monitor

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2270800 **America Futuretech Inc.** 919-876-1614
Robert D. Pogue, II 919-876-0376 (fax)
PO Box 97233
Raleigh, NC 27624-7233 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2276200 **Seacoast Analytical Services** 603-868-1457
Melissa S. Mosley 603-868-1457 (fax)
2 Woodside Road
Durham, NH 03824-2116 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2279600 **Radonalysis** 815-398-5110
Elmer W. Kent, Jr.
2304 Evanston Drive
Rockford, IL 61108 USA

CR-00126 Continuous Radon Monitor
Honeywell A9000A Professional Radon Monitor

2283100 **MTMM, Inc.** 305-349-9742
Mark I. Tafeen 305-583-4094 (fax)
1087 Deerwood Lane
Fort Lauderdale, FL 33326 USA

LS-07084 Charcoal Liquid Scintillation
Beckman Ready Rad Liquid Scintillation Vial

2284400 **Radata, Inc.** 908-879-5983
David C. Grammer
95 Route 24
Chester, NJ 07930 USA

AC-01018 Activated Charcoal Adsorption
F&J RA40VC 4" open face (Calgon) can

AC-06013 Activated Charcoal Adsorption
F&J R30VDB 2 3/4" Open Face dif. bar. can

LS-07086 Charcoal Liquid Scintillation
EKS RadTech LS/RT 2 Pro Model Liq. Scint. Vial

2284800 **Parsons Engineering Science** 510-422-9890
Steven W. Woolfolk 303-831-8208 (fax)
1700 Broadway, Suite 900
Denver, CO 80290 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2285600 **Planning Design & Research Engineers, I** 615-298-2065
Ajeya K. Upadhyaya 615-269-4119 (fax)
2000 Lindell Avenue
Nashville, TN 37203 USA

CR-00347 Continuous Radon Monitor
Femto-Tech RS410F Radon Survey Instrument

2286100 **Criterion-Johnson Engineers** 219-276-0506
Kevin K. Johnson 219-273-0598 (fax)
17482 Cleveland Road
South Bend, IN 46635-1344 USA

CR-002223 Continuous Radon Monitor
Sun Nuclear 1023/1026 At Ease Digital Data Logger

2286200 **Opportunities Incorporated** 406-761-0310
Robert E. Jewell 406-761-0363 (fax)
905 1st Avenue North
Great Falls, MT 59401 USA

CR-00444 Continuous Radon Monitor
Femto-Tech CRM-510 Continuous Radon Monitor

2287100 **Core Laboratories, Inc.** 307-238-5741
Don W. Ukele 307-266-1676 (fax)
420 West First Street
Casper, WY 82601 USA

LS-08091 Charcoal Liquid Scintillation
Packard Pico Rad Liquid Scintillation Vial

2287800 **BDN Industrial Hygiene Consultants, Inc.** 800-968-0123
Brent A. Bassett 616-329-7446 (fax)
8105 Valleywood Lane
Portage, MI 49024-5251 USA

EL-BI082 Electret Ion Chamber (Long Term)
Rad Elec E-Perm SLT (S-Chamber w/LT elec.)

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2287900 **Diversified Research, Inc.** 407-453-6496
Peter J. Diamondis 407-453-6496 (fax)
1155 Redwood Road
Merritt Island, FL 32952-5027 USA

CR-00471 Continuous Radon Monitor
Diversified Research ALPHA – II Radon Detector/Mon

2289000 **Leslie & Associates, Inc.** 800-954-8458
Susanne L. Fortney 423-239-8458 (fax)
PO Box 5121
Kingsport, TN 37663 USA

CR-00444 Continuous Radon Monitor
Femto-Tech CRM-510 Continuous Radon Monitor

2289400 **Woodward-Clyde** 303-694-2770
Marc E. Jacobson 303-740-2705 (fax)
18 AMDS/SGPB
PSC #80, Box 12661
Apo Ap, 96367-2661 Japan

EL-BH081 Electret Ion Chamber (Long Term)
Rad Elec E-Perm LLT (L-Chamber w/LT elec.)

EL-BI082 Electret Ion Chamber (Long Term)
Rad Elec E-Perm SLT (S-Chamber w/LT elec.)

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

2289500 **Advanced Home Inspectors, L.C.** 703-941-8360
David H. Dastvar 703-941-8366 (fax)
5350 Shawnee Road, Suite 350
Alexandria, VA 22312 USA

ES-BJ083 Electret Ion Chamber (Short Term)
Rad Elec E-Perm SST (S-Chamber w/ST elec.)

APPENDIX D

EPA Listed Residential Measurement Service Providers Serving Montana as of 1997

100440T	Warren J. Riddle Cavalier Corporation E. 11210 Dishman-Mica Road Spokane, WA 99206 USA	509-926-6217 509-928-8689 (fax)
101180T	David C. Grammer Northeast Environmental Services, Inc. 95 Route 24 Chester, NJ 07930 USA	908-879-8799 908-879-8727 (fax)
102540T	Dane J. Shearer Professional House Doctors, Inc. 1406 E. 14 th Street Des Moines, IA 50316-2406 USA	515-265-6667 515-265-7032 (fax)
102620T	Dallas L. Jones Radon Reduction and Testing, Inc. 5601 Peachtree Road Atlanta, GA 30341-2311 USA	770-458-6446 770-457-2105 (fax)
105110T	David D. Hill Radon and Water Control Systems 18 Annie Place Stamford, CT 06902 USA	203-356-1458 203-356-1025 (fax)
105430T	Marc Messing Infiltec Radon Control PO Box 1096 Falls Church, VA 22041 USA	703-820-9775 703-671-9350 (fax)
105860T	Richard A. Jordan Radon Analytical Laboratories, Inc. 801 Congressional Blvd., Suite 200 Carmel, IN 46032 USA	317-843-0788
106200T	Donald T. Martin Connecticut Radon 14 Cobblestone Drive Groton, CT 06340 USA	860-448-6780 860-448-6780 (fax)
106440T	John J. Hendricks AMC/Housemaster 354 West Maple Avenue Bound Brook, NJ 08805 USA	800-553-4677 908-469-2227 (fax)

106550T	Michael J. Myers Radon Environmental Monitoring, Inc. 3334 Commercial Avenue Northbrook, IL 60062-1909 USA	708-205-0110 708-205-0114 (fax)
106910T	Jerry E. Gieseke Radon Testing, Inc. PO Box 7304 Fairfax Station, VA 22039-7304 USA	703-591-1111
108250T	Kenneth M. Sedor Real Estate Support Services, Inc. 8200 Humboldt Avenue S., Suite 101 Minneapolis, MN 55431-1433 USA	612-881-4551 612-885-9092 (fax)
109810T	James P. Schroff Radon Testing, Inc. PO Box 7304 Fairfax Station, VA 22039-7304 USA	703-591-1111
120600T	Richard J. Manning Pro-Test, Inc. PO Box 277, 2663 Orchard Run Road Dayton, OH 45449 USA	513-438-5686 513-439-5057 (fax)
120620T	Wallace O. Dorsey Radon-Ease Inc. PO Box 6325 Richmond, VA 23230 USA	804-598-5267 804-273-9375 (fax)
121370T	Michael E. Germain Security Home Inspections, Inc. PO Box 728 Carmel, IN 46032 USA	317-848-1744 317-573-2089 (fax)
122540T	Wayne C. Koteles Radonics, Inc. 3975 Fair Ridge Drive, Suite 250, North Tower Fairfax, VA 22033 USA	703-293-1556 703-293-1569 (fax)
123030T	Daniel W. Baltzell C-Flow Radon Screening Systems 10 Post Office Road Silver Spring, MD 20910 USA	301-589-8800
123260T	Gustavo A. Delgado Hygeia Laboratories, Inc. 82 W. Sierra Madre Blvd. Sierra Madre, CA 91024-2434 USA	818-355-4711 818-355-4497 (fax)

123480T	M.H. Schroff Radon Testing, Inc. PO Box 7304 Fairfax Station, VA 22039-7304 USA	703-591-1111
123570T	Joanne H. Grammer Northeast Environmental Services, Inc. 95 Route 24 Chester, NJ 07930 USA	908-879-8799 908-879-8727 (fax)
126300T	Larry D. Patterson Radon Environmental Investigations 1601 Monte Vista Gillette, WY 82716 USA	800-288-7475
126440T	Susan Wainwright-Braico N.I. Radon Detection Services 402 E. Roosevelt Road Wheaton, IL 60187 USA	800-542-0329
126460T	Iris J. Sonkin N.I. Radon Detection Services 402 E. Roosevelt Road Wheaton, IL 60187 USA	708-690-5363
127040T	Charles F. Stafford Southern Radon Services, Inc. 1000 Johnson Ferry Road, Suite B-145 Marietta, GA 30068 USA	404-565-3886
127470T	Paul H. MacDonald Radon Resources, Inc. PO Box 177 Goffstown, NH 03045 USA	603-487-3771
128350T	Sylvia J. Riddle Cavalier Corporation E. 11210 Dishman Mica Road Spokane, WA 92206 USA	509-926-6217 509-928-8689 (fax)
129170T	Christopher J. Dorsi Whole House Inspection 44 N. Last Chance Gulch Helena, MT 59601 USA	406-449-3939 406-449-4242 (fax)
129940T	Terrance A. Haverlandt Professional Property Inspection Services PO Box 6508 Great Falls, MT 59406 USA	406-452-4141

130410T	A.J. "Nick" Nickitas Radon Mitigation Services & Radon Evaluation 1414 E. Carolina Avenue Deland, FL 32724 USA	904-943-9355 904-943-8445 (fax)
132510T	Michael B. Lemieux Idaho Radon Trackers 615 S. Adams Avenue Blackfoot, ID 83221-3405 USA	208-785-5375 208-785-4793 (fax)
133350T	Michael A. Peris Construction Management Services 3336 Harrison Avenue Butte, MT 59701 USA	406-494-1711 406-494-1998 (fax)
133490T	David L. Egleston Jr. Radon Testing Service, Inc. PO Box 1130 Englewood, CA 80110-1130 USA	303-797-3243
136440T	Chris J. Manning Radon Analytical Laboratories, Inc. 801 Congressional Blvd., Suite 200 Carmel, IN 46032-5650 USA	317-843-0788
137110T	Robert W. Pollock Radon Environmental Monitoring, Inc. 3334 Commercial Avenue Northbrook, IL 60062 USA	708-205-0110 708-205-0114 (fax)
137230T	Benjamin S. Essien EBS Engineering, Inc. 6216 NW 170 th Terrace Miami, FL 33015 USA	305-822-6754
138240T	Carl H. Distenfeld TCS Industries Inc. 4326 Crestview Road Harrisburg, PA 17112 USA	717-657-7032 717-657-7032 (fax)
139700T	Mark R. Salasky Landauer, Inc. 2 Science Road Glenwood, IL 60425 USA	708-755-7000 708-755-7035 (fax)
139790T	James K. Goss Tri-State Radon/T.S.R. Inspection 7874 Millcreek Circle West Chester, OH 45069 USA	516-860-1583

144020T	Roger R. Hankey Hankey & Brown 11833 Thornhill Road Eden Prairie, MN 55344 USA	612-829-0044 612-941-8023 (fax)
147280T	Halden T. Aasen Montana Building Consultants PO Box 5381 Helena, MT 59604 USA	406-449-3755 406-449-3755 (fax)
147780T	Derek D. Lawrie Certified Inspections, Inc. 816 Ironwood Court Council Bluffs, IA 51503-6725 USA	402-677-7437
148000T	Robert P. Swanson PCA Engineering, Inc. 4506 Wigwam Boulevard Gillette, WY 82716 USA	307-687-0600
148070T	Howard E. Hallman, Jr. The E-Quest Corporation 26 South Tejon, Suite 208 Colorado Springs, CO 80903 USA	719-473-3385 719-473-3310 (fax)
151210T	James E. Brown Radonics, Inc. 3975 Fair Ridge Drive, Suite 250, North Tower Fairfax, VA 22033 USA	703-293-1556 703-293-1569 (fax)
152660T	Daniel J. Steck The Minnesota Radon Project 31148 Cord 50 Avon, MN 56310 USA	612-363-3186 612-363-3202 (fax)
152870T	David E. Cook America's Home Inspection Service 1536 Cook Avenue Billings, MT 59102-5118 USA	406-248-5800 406-248-5889 (fax)
154880T	Christopher D. Caputi Dames & Moore 2807 N. Parham Road #114 Richmond, VA 23294 USA	804-965-9000
155270T	Bill Morgan N.I. Radon Detection Service PO Box 3177 Mission Viejo, CA 92690 USA	714-495-3185 714-495-8182 (fax)

156480T	Peter S. Piller, Jr. American Home & Building Inspection 2 Hidden Brook Drive Brookfield, CT 06804 USA	203-775-1887
158790T	Larry W. Ferguson Housemaster of Montana 3923 Pine Cove Road Billings, MT 59102 USA	406-652-6400
159990T	Warren W. Webster Prof. Home Insp. Services Inc. 573 Acorn Place Billings, MT 59102 USA	406-656-2994 406-656-7899 (fax)
164630T	Charles R. Lamb Scientific Testing Co. 2929 Ironwood Drive Endwell, NY 13760 USA	607-785-6924
165190T	Kenneth R. Crook KRC Enterprises, Inc. PO Box 426 Bozeman, MT 59771-0426 USA	406-586-0660
165590T	Robert E. Jewell Opportunities, Inc. 905 1 st Avenue North Great Falls, MT 59401 USA	406-761-0310
165730T	Nai-Syun Roy Chuang Sinomerica 907 Enclave Circle Nashville, TN 37211 USA	615-331-5889 615-833-7444 (fax)
165910T	James B. Fortney Leslie & Associates, Inc. 608 Whispering Way Kingsport, TN 37663 USA	800-954-8458
167240T	Payasada Kotrappa Rad-Elec Inc. 5714C Industry Lane Frederick, MD 21703 USA	301-694-0011 301-694-0013 (fax)
167870T	David Manente Aquatek Lab, Inc. 131 Bradley Road Woodbrigde, CT 06525 USA	203-389-1824

169240T	Robert Pogue America Futuretech Inc. PO Box 97233 Raleigh, NC 27624 USA	919-876-1614
174520T	James A. McBane US Army Corps of Engineers PO Box 3755 Seattle, WA 98124 USA	206-764-3712 206-764-6795 (fax)
180150T	Eileen A. Barrett Rise Engineering 1341 Elmwood Ave. Cranston, RI 02910 USA	401-784-3700 401-784-3710 (fax)
180530T	Jeffrey K. Anlauf Envirobate 401 N. 3 rd Street, Suite 200 Minneapolis, MN 55401-1300 USA	612-349-9211 612-349-9167 (fax)
180650T	Douglas S. Pencille DSP, Inc. 5731 Shetland Drive NW Rochester, MN 55901 USA	507-288-2622 507-281-2378 (fax)
180710T	John A. Lewis Lewco Environmental Services 1400 Michael Hughes Albuquerque, NM 87112 USA	505-299-6460 505-299-6460 (fax)
180780T	Jodi L. Vanneman KTR Environmental Services, Inc. 1900 Avenue of the Stars, Suite 610 Los Angeles, CA 90067-4301 USA	310-284-6041 310-284-5745 (fax)
180870T	Julie L. Coleman Armstrong Laboratory, US Air Force AL/OEBZ, 2402 E. Drive Brooks AFB, TX 78235-5114 USA	210-536-2288
181100T	Timothy L. Collier PSI, Inc. 2917 Douglas Street Omaha, NE 68131-2900 USA	402-341-5181 402-341-1526 (fax)
181150T	Alvaro Magana Armstrong Laboratory, US Air Force AL/OEBZ, 2402 E. Drive Brooks AFB, TX 78235-5114 USA	210-536-3486 210-536-2288 (fax)

181640T	Peter G. Ryerson Poteet Construction, Inc. 1314 River Street Missoula, MT 59801 USA	406-728-9370 406-721-4165 (fax)
181660T	James R. Sipe Hometeam Inspection Service 5266 Wetherby Court Indianapolis, IN 46254-1797 USA	317-328-9583 317-291-2262 (fax)
181730T	Robert A. Bonacci Environmental Compliance Testing, Inc. 565 Rounseville Road Rochester, MA 02770 USA	800-982-1112 508-763-4115 (fax)
181760T	Christina D. Earl Espey, Huston & Associates, Inc. 11838 Rock Landing Drive, Suite 250 Newport News, VA 23606 USA	804-596-8267 804-596-8660 (fax)
181960T	Frederick R. Stieff Rad Elec, Inc. 5714-C Industry Lane Frederick, MD 21704 USA	301-694-0011
182000T	Alan W. Harlan Omaha Tribe of Nebraska Box #368, Omaha Tribe Macy, NE 68039 USA	402-837-5291 402-837-5308 (fax)
182080T	John J. Roberts Mission Geoscience, Inc. 1000 Quail Street, Suite 200 Newport Beach, CA 92660 USA	714-955-9086 714-955-9088 (fax)
182160T	Alan W. Day Foremost Home Inspections PO Box 5219 Vienna, WV 26105-5219 USA	304-295-0143
182360T	Mary J. Fisher Fisher Property Inspection Services PO Box 3625, 431 Della Vista Drive Hailey, ID 83333-3625 USA	208-788-7517 208-788-2147 (fax)
182460T	David E. Chawes Hart Crowser 1910 Fairview Avenue E. Seattle, WA 98102-3699 USA	206-324-9530 206-328-5581 (fax)

182470T	Brian E. Sullivan Hart Crowser 1910 Fairview Avenue E. Seattle, WA 98102-3699 USA	206-324-9530 206-328-5581 (fax)
182480T	Tina M. Stotz Hart Crowser 1910 Fairview Avenue E. Seattle, WA 98102-3699 USA	206-324-9530 206-328-5581 (fax)
182490T	John P. Bromley Hart Crowser 1910 Fairview Avenue E. Seattle, WA 98102-3699 USA	206-324-9530 206-328-5581 (fax)
182530T	George E. Wissel 724 Lafayette Avenue, Unit #3 Cincinnati, OH 45220 USA	513-221-5339 513-221-5339 (fax)
182580T	John S. Armstrong Armstrong Inspection Services, Inc. 203 Avenue B Billings, MT 59101 USA	406-245-9884 406-245-0932 (fax)
182660T	Gregory J. Walmann Woodward Clyde 17109 Campion Way Parker, CO 80134 USA	303-740-3856 303-740-2705 (fax)
182790T	Michael Q. Lewis BDN Industrial Hygiene Consultants, Inc. 8105 Valleywood Lane Portage, MI 49024 USA	616-329-1237 616-329-7446 (fax)
182890T	Scott D. MacFarlane BDN Industrial Hygiene Consultants, Inc. 8105 Valleywood Lane Portage, MI 49024 USA	616-329-1237 616-329-7446 (fax)
183030T	Larry Pinnick C.W. Schnepf & Associates 2870 S. 1200 East Zionsville, IN 46077 USA	317-873-5412
183040T	Jimmie R. Williams, R.E.M. 3887 Elliston Road Memphis, TN 38111-6341 USA	901-744-4496
183050T	David L. Powell 7608 Antionette Drive Richmond, VA 23227-2002 USA	804-262-5748

183150T	Marc E. Jacobson Woodward-Clyde 18 th AMDS/SGPB PSC 80, Box 12661 Apo Ap, 96367-2661 USA	303-694-2770 303-740-2705 (fax)
183950T	Kristin A. Carl The Environmental Company, Inc. 1230 Cedars Ct, Suite 100 Charlottesville, VA 22905 USA	804-295-4446 804-295-5535 (fax)
184000T	Mosby G. Boor New River Radon Services 6046 Dudley Ferry Road Radford, VA 24141 USA	540-639-2159
184070T	Terry A. Root Radon Detection & Control "RDC" 3730 Cooper Lane Cody, WY 82414 USA	307-587-4838 307-527-7116 (fax)
184200T	Shawn Patrick Daugherty Woodward-Clyde/NFT 1724 Alpine Dr. Aiken, SC 29803 USA	803-649-7245
184210T	Ismail M. Obeidallah US Postal Service 8213 Triple Crown Road Bowie, MD 20715-4538 USA	301-925-1741 301-925-1750 (fax)
184250T	James L. Hopper 4600 Marie Street Beltsville, MD 20705-2916	301-925-1740 301-925-1750 (fax)
184270T	Randy A. Pirie Procheck Home Inspections 53 Lake Avenue Ext. Danbury, CT 06811 USA	800-338-5050 800-338-4040 (fax)
184450T	C. Ken Lewis Lewco Environmental Services 1400 Michael Hughes Drive, NE Albuquerque, NM 87112 USA	505-299-6460 505-237-1208 (fax)
184520T	Kelly W. Winslow US Environmental Group, Inc. 2301 NW 33 rd Court, Suite 115 Pompano Beach, FL 33069 USA	954-979-3400 954-979-2111 (fax)

APPENDIX E

Mailing list of those from whom information was requested for the 2005 survey:

Hal Aasen
Montana Building Consultants, LLC
PO Box 5381
Helena, MT 59604

James P. Abraham
Colorado State University
133 General Services Blvd
Fort Collins, CO 80523-6021

Keith Alltucker
Pillar to Post Home Inspection
1421 Boulder Ave
Helena, MT 59601

B.V. Alvarez
Air Check
1936 Butler Rd
Fletcher, NC 28732

Therese Ashman
Accurate Radon Testing Company
P.O. Box 1940
Vienna, VA 22183

Antonio P. Avellana
Cornerstone Inspection Services
443 N Rangeline Rd
Carmel, IN 46032

Joseph A. Baicker
Radiation Data
P.O. Box 900
Rocky Hill, NJ 8553

Richard S. Bainbridge
Aarden Testing & Evaluation
3569 Webber St.
Sarasota, FL 34239

Thomas Baldwin
Pro Check
53 Lake Ave. Extension
Danbury, CT 6811

Gary Bark
Bark Inspection Service
1705 Willow Way
Bozeman, MT 59715

Thomas Barkley
American Home Services
PO Box 17242
Missoula, MT 59808

Paul Beck
Mountain Home Inspections
PO Box 2310
Red Lodge, MT 59068

Thomas Billman
Home Inspection Service
1101 US Hwy 287 N
Cameron, MT 59720

David Blaida
Energy Laboratories
2393 Salt Creek Highway
Casper, WY 82602

Nicole Bolin
Aerotech Laboratories
1501 W. Knudsen Drive
Phoenix, AZ 85027

Larry A. Bordner
Driggers Engineering
2703 Forest Knoll Dr.
Sarasota, FL 34232

Nancy Bredhoff
RTCA
2 Hayes Court
Elmsford, NY 10523

Don J. Bronson
Rocky Mountain Radon Control
8409 S Quail Ct
Littleton, CO 80127

Jay Brown
1535 Foys Lake Road
Kalispell, MT 59901

Jay B. Brown
ABA Inspections & Consulting
10024 Office Center Ave Ste 200
Saint Louis, MO 63128

Arthur Buckley
Properties by Art, LLC
P.O. B ox 761
Lakeside, MT 59922

Bill Burnett
Burnett Home Inspection Service
1753 So. 13th St. West
Missoula, MT 59801

Troy Davenport
Radon Professional Services
336 Fourteenth Ave N
Jacksonville Beach, FL 32250

Daniel Delano
Olmsted Co Public Health Services
2100 Campus Dr SE
Rochester, MN 55904

Rodger Duncan
Advantage Inspection Services
P.O. Box 16482
Missoula, MT 59808

Tariq A. Farooqi
Pro-Lab
3300 Corpportate Ave. #112
Weston, FL 33331

Daniel Flack
Micro Air
6320 La Pas Trail
Indianapolis, IN 46268

Darioush T. Ghahremani
Radon Survey Systems
10357 Liberty Rd
Twinsburg, OH 44087

Vincent R. Graziano
Rise Engineering, A Div. of Thielsch
1341 Elmwood Ave
Cranston, RI 2910

Howard E. Hallman
The E-Quest Corporation
26 South Tejon Street
Colorado Springs, CO 80903

Mike Campbell
Mike Campbell Inspections, LLC
302 Donegal Drive
Bozeman, MT 59715

Clint Davis
Davis Radon
9312 S. W. 182nd St.
Miami, FL 33157

Michael A. Delugan
Countrywide Home & Prop Inspect
P.O. Box 685
Vernon, CT 6066

Bernard D. Dusenbury
NC Division of Radiation Protection
3825 Barrett Dr
Raleigh, NC 27609-7221

Larry Ferguson
Advanced Radon Systems
4623 N. Woodhaven Way
Billings, MT 59106

Paul Fletcher
Alpha Energy Laboratories
2501 Mayes Rd
Carrollton, TX 75006

Richard Graf
Eagle Home Inspection
332 Blanchard Hollow
White Fish, MT 59937

Zygmunt C. Gromadzki
Radon Testing Labs
6851 Greystone Dr
Raleigh, NC 27615

Scott M. Harrington
Homes Plus Radon Services
219 Rockwell St.
Norwich, CT 6360

David Cook
America's Home Inspection Service
1733 Parkhill Drive
Billings, MT 59102

Patrick Dean
Valueguard USA
123 Coulter Ave
Ardmore, PA 19003

Patricia Dooley
RDS Environmental
1365 Forest Park Circle Suite 203
Lafayette, CO 80026

Daniel Espinal
New England Radon
50 Northwestern Dr
Salem, NH 3079

Jeb Fischer
Inspect-It-1st Property Inspections
903 Golden West Drive
Belgrade, MT 59714

Norman H. Gaulin
Radiation Safety & Control Services
91 E. Portsmouth
Stratham, NH 3885-9986

David C. Grammer
Radata
27 Ironia Rd
Flanders, NJ 7836

Robert Gwaltney
Old Dominion Home Inspection
344 Maple Ave W #296
Vienna, VA 22180

Federick D. Heskett
Home Check-Up
106 E Rd
Mount Airy, MD 21771

Jim Hinman
Radon Bee Gone
823 Yellowstone
Miles City, MT 59301

Terry E. Howell
Radalink
5599 Peachtree Rd.
Atlanta, GA 30341-2309

David P. Kapturowski
AccuStar Labs
11 Awl St
Madway, MA 2053

Douglas L. Kladder
Progeny Group
525 E. Fountain Blvd. Suite 201
Colorado Springs, CO 80903

Robert Longnecker
Triple R Mitigation & Construction, Inc.
8402 Little Gully Run
Bozeman, MT 59715

Danny Maynard
Inspect
P.O. Box 701
Greenwood, IN 46142

William T. McNally
Polk County Public Health Unit
Radiological Health Section
Winter Haven, FL 33881

Pat Mitchell
World Inspection Network- Gassmere
1204 Holt Hills Ct.
Nashville, TN 37211

Tracy Murphy
National Property Inspections
1600 5th Ave SW
Great Falls, MT 59404

James Hollifield
Prairie Home Inspection
2135 Bond Road
Dillon, MT 59725

Terry E. Howell
Radon Reduction & Testing
5601 Peachtree Rd.
Atlanta, GA 30341

Philip Kedrowski
Redleaf Consulting, PLLC
1116 S. Cedarview Drive
Bozeman, MT 59715

Lisa Laflamme
AccuStar Labs
3 Saber Way
Ward Hill, MA 1835

Pauline Mannino
Radon Evaluations
2055 Tall Pine Trail
Geneva, FL 32732

Lawrence J. McDonnell
Wisconsin Radiological Laboratories
1902 Tennyson Ln
Madison, WI 53704

Pauline Merolla
Envirometric Laboratories
19500 Amaranth Dr Ste D
Germantown, MD 20874

Jerry A. Morrison
Morrison Home Inspection Service
7000 Fox Hill Drive
Longmont, CO 80501

James Nielsen
Kearney & Associates
2249 Iroquois Dr.
Fort Collins, CO 80525

Penny Hotaling
Saint Louis Co Department of Health
111 South Meramec Ave
Clayton, MO 63105-1711

David P. Kapturowski
AccuStar Labs
3334 Commercial Ave
Northbrook, IL 60062

John Kerrigan
RHIS
100 Old Kennett Rd.
Wilmington, DE 19807

H. William Levy
Associated Radon Services
5136 SE Orange St
Stuart, FL 34997

Joel Martin
Radiological Laboratory SC DHEC
2600 Bull St
Columbia, SC 29201

Archie McMillan
McMillan Home Inspection, LLC
1428 Harrison
Missoula, MT 59802

George Michael
RAM/GAM Engineering Services
2200 Chambers Road
Aurora, CO 80011

Mary Pat Moulder
Connor Environmental Services
1421 Clarkview Rd
Baltimore, MD 21209-2188

Philip B. Noack
Advanced Radiation Monitoring Services
43443 27th St
Mattawan, MI 49071

Julia A. Norris
Norris Radon Testing Service
8655 West 194 Terrace
Stilwell, KS 66085-8204

G. Scott Parry
Alpha Control
20200 Zion Rd
Gaithersburg, MD 20882

Scott Parry
United Radon Sciences
20200 Zion Rd
Gaithersburg, MD 20882

Brian Perin
Rocky Mountain Radon
38 Bent Wing Road
Bozeman, MT 59718

Dennis C. Peterson
Residential Radon Analysis
22 Wessex Court
Pittsford, NY 14534-2811

Randall L. Pierson
TMS Environmental Services
427 Bridgeport Ave.
Shelton, CT 6484

Erik R. Plimpton
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 6095

Eli A. Port
RSSI
6312 West Oakton St
Morton Grove, IL 60053-2723

David Russell
AMK, Inc.
471 Drifter Drive
Bozeman, MT 59718

Stuart E. Salot
CTL Environmental Services
24404 South Vermont Ave.
Harbor City, CA 90710

Cara R. Santus
Micro Air
6320 La Pas Trail
Indianapolis, IN 46268

Chris Schnepf
Resitech
12045 North Michigan Rd
Zionsville, IN 46077

William Schwahn
Bridger View Inspection
503 Spooner Road
Belgrade, MT 59714

Michael Schwendinger
Montana Professional Enterprises
119 Harry Ct
Hamilton, MT 59840

Robert N. Schwindt
Takoma Park Environmental
7714 Carroll Ave
Takoma Park, MD 20912

William A. Slentz
Mid America Radon Testing
12920 Broadmoor St
Overland Park, KS 66209-4016

Myron G. Sonkin
GlobeSpec
218 West Willow Ave
Wheaton, IL 60187

Daniel Stanley
Mountain Property Inspections
PO Box 1133
Cooke City, MT 59020

Pauline Stascavage
Eastern Analytical Services
4 Wetchester Plaza
Elmsford, NY 10523-1610

Kevin Steckler
Mountain View Inspections
PO Box 1754
Cody, WY 82414

Oran C. Taylor
Mark Oliver & Associates
7233 North Frontage Rd
Fairland, IN 46126

Thomas Tillett
Radon Analytical Laboratories
16848 Southpark Dr. #100
Westfield, IN 46074

Nicholas Tomasetti
Advantage Property Inspections
P.O. Box 10746
Bozeman, MT 59719

Frank Tremper
Eagle Eye Home Inspections
2628 S. 3rd St. W
Missoula, MT 59804

Matt Warner
WTR/Environmental Radon Systems
210 Lyndale
Helena, MT 59601

Warren Webster
Professional Inspection Services
3036 Rimrock Road
Billings, MT 59102

Larry E. Webster
Webster and Associates
2437 Glenview Dr
Land O'Lakes, FL 34639

Conrad Weiffenbach
WI Division of Health, Radon Protection
P.O. Box 2659
Madison, WI 53701-2659

Lynn West
WI State Laboratory of Hygiene
2601 Agriculture Dr
Madison, WI 53707-7996

Edward B. Wilkes
Sentinel Environmental Radiation Monitoring
9845 W. Danzig Pl.
Littleton, CO 80127

Edgar Williams
C-Flow Radon Screening System
3720 Farragut Ave
Kensington, MD 20895

Bruce D. Williams
Energy Laboratories
P.O. Box 30916
Billings, MT 59107

Benton Wilmoth
88 ABW/EMB
5490 Pearson Rd
Wright Patterson AFB, OH 45433-5332

Craig Yoder
Landauer
2 Science Rd
Glenwood, IL 60425-1586

Brian Yount
Advanced Radon Technology
1816 E Ave
Akron, OH 44314

Doug Zimmerman
Independent Inspection Service, LLC
PO Box 17574
Missoula, MT 59808

Cross Roads Inspections
1509 Chouteau
Fort Benton, MT 59442