

EPA RadNet Air Filter and Air Cartridge Results

Last updated on April 6, 2011

STATEMENT ON THE RESULTS

During detailed filter analyses from several RadNet air monitor locations across the nation, the U.S. Environmental Protection Agency (EPA) identified trace amounts of radioactive isotopes consistent with the Japanese nuclear incident. Some of the filter results show levels slightly higher than those found previously by EPA monitors and a Department of Energy monitor. These types of findings are to be expected in the coming days and are far below levels of public health concern.

Update on April 6 data posting:

EPA continues to conduct additional in depth analysis to identify specific isotopes present in the filters. Analyses of this batch of filter data identified low levels of uranium consistent with natural levels typically seen in the US.

ABOUT THE DATA

The detailed filter analysis allows us to see the trace amounts of radioactive material that our sensitive near-real-time air monitors don't pick up. The filter analysis identifies the specific radioactive material and its amount.

The detailed filter and cartridge analysis presents air sampling data for detected radioactive material associated with nuclear power incidents. The results show the average concentration of radioactive material in the measurement: picocuries per cubic meter (pCi/m³) over the sampling period.

Results are presented from two types of air sampling: air cartridge and air filters.

- **Air Cartridge Sampling:** RadNet deployable monitors pass air through a cartridge that contains charcoal. The cartridges collect radioactive particles and gases in much the same way that a home charcoal air filter traps cooking odors. The cartridges are sent to an EPA laboratory for a sensitive laboratory analysis which can detect gaseous radioactive material in the sample. The date on the data table is the day that the canister was taken off the sampler.
- **Filter Sampling:** RadNet fixed or deployable monitors pass air through a filter which traps particulates. The filter is sent to an EPA laboratory for a sensitive laboratory analysis which can detect radionuclides present. The date on the data table is the day that the filter was taken off the sampler for analysis.

EPA RadNet Air Concentration Measurement Data - Uranium, Plutonium, Strontium

Issued: 4/6/2011

State	Location	Date Collected	Radionuclide (pCi/m3)				
			Pu-238	Pu-239	U-234	U-235	U-238
AK	Dutch Harbor	3/19/2011	ND	ND	ND	ND	ND
AK	Nome	3/20/2011	ND	ND	ND	ND	ND
CA	Anaheim	3/15/2011	ND	ND	0.000044	ND	ND
CA	Anaheim	3/20/2011	ND	ND	ND	ND	ND
CA	Riverside	3/15/2011	ND	ND	0.000036	ND	0.000019
CA	San Francisco	3/18/2011	ND	ND	ND	ND	0.000014
CNMI ¹	Saipan	3/21/2011	ND	ND	0.00013	ND	0.00028
CNMI ¹	Saipan	3/24/2011	ND	ND	0.00019	ND	0.00021
Guam	Guam	3/19/2011	ND	ND	ND	ND	ND
Guam	Guam	3/23/2011	ND	ND	0.00030	ND	0.00020
HI	Oahu	3/23/2011	ND	ND	0.00016	ND	0.00013
HI	Kauai	3/21/2011	ND	ND	0.00019	ND	0.00022
WA	Seattle	3/18/2011	ND	ND	0.000020	ND	ND

State	Location	Date Collected	Radionuclide (pCi/m3)	
			Sr-89	Sr-90
CA	Anaheim	3/11/2011	ND	ND
CA	Anaheim	3/18/2011	ND	ND
CA	Riverside	3/18/2011	ND	ND

¹CNMI stands for Commonwealth of the Northern Mariana Islands.

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Cartridges

Issued: 4/4/11

State	Location	Date Collected	Radionuclide (pCi/m ³)												
			Cs-134	Cs-136	Cs-137	I-131	I-132	I-133	Te-129	Te-129m	Te-132				
AK	Dutch Harbor	3/19/2011	ND	ND	ND	2.42	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Dutch Harbor	3/20/2011	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Dutch Harbor	3/21/2011	ND	ND	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Dutch Harbor	3/22/2011	ND	ND	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Dutch Harbor	3/23/2011	ND	ND	ND	0.069	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Dutch Harbor	3/24/2011	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Juneau	3/21/2011	ND	ND	ND	0.037	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Juneau	3/22/2011	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Juneau	3/23/2011	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Juneau	3/24/2011	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Juneau	3/25/2011	ND	ND	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/20/2011	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/21/2011	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/22/2011	ND	ND	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/23/2011	ND	ND	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/24/2011	ND	ND	ND	1.46	ND	ND	ND	ND	ND	ND	ND	ND	ND
AL	Montgomery	3/24/2011	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND
AL	Montgomery	3/28/2011	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/20/2011	ND	ND	ND	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/21/2011	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/22/2011	ND	ND	ND	0.53	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/23/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/23/2011	ND	ND	ND	0.30	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	San Bernardino	3/20/2011	ND	ND	ND	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	San Bernardino	3/22/2011	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	San Bernardino	3/23/2011	ND	ND	ND	0.45	ND	ND	ND	ND	ND	ND	ND	ND	ND

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Cartridges

Issued: 4/4/11

State	Location	Date Collected	Radionuclide (pCi/m ³)											
			Cs-134	Cs-136	Cs-137	I-131	I-132	I-133	Te-129	Te-129m	Te-132			
CNMI ¹	Saipan	3/21/2011	ND	ND	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND
CNMI ¹	Saipan	3/22/2011	ND	ND	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND
CNMI ¹	Saipan	3/23/2011	ND	ND	ND	0.072	ND	ND	ND	ND	ND	ND	ND	ND
CNMI ¹	Saipan	3/24/2011	ND	ND	ND	0.057	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/19/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/22/2011	ND	ND	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/23/2011	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/23/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/24/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HI	Kauai	3/21/2011	ND	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND
HI	Kauai	3/22/2011	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND
HI	Kauai	3/23/2011	ND	ND	ND	0.30	ND	ND	ND	ND	ND	ND	ND	ND
HI	Kauai	3/24/2011	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/20/2011	ND	ND	ND	0.76	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/21/2011	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/23/2011	ND	ND	ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/24/2011	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/25/2011	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/21/2011	ND	ND	ND	0.50	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/22/2011	ND	ND	ND	0.66	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/23/2011	ND	ND	ND	0.49	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/23/2011	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/24/2011	ND	ND	ND	0.77	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/25/2011	ND	ND	ND	0.75	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/26/2011	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND

¹ CNMI stands for Commonwealth of the Northern Mariana Islands.

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Cartridges

Issued: 4/4/11

State	Location	Date Collected	Radionuclide (pCi/m ³)											
			Cs-134	Cs-136	Cs-137	I-131	I-132	I-133	Te-129	Te-129m	Te-132			
NV	Las Vegas	3/18/2011	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/21/2011	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/22/2011	ND	ND	ND	0.64	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/23/2011	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/24/2011	ND	ND	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/25/2011	ND	ND	ND	0.80	ND	ND	ND	ND	ND	ND	ND	ND

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Filters

Issued: 4/4/11

State	Location	Date Collected	Radionuclide (pCi/m ³)										
			Cs-134	Cs-136	Cs-137	I-131	I-132	I-133	Te-129	Te-129m	Te-132		
AK	Dutch Harbor	3/19/2011	0.037 ¹	ND	0.053	0.66	0.17	ND	ND	ND	ND	ND	0.19
AK	Dutch Harbor	3/19/2011	0.043 ¹	ND	0.063	0.69	0.29	ND	ND	ND	ND	ND	0.4
AK	Dutch Harbor	3/20/2011	0.0098	ND	0.014	0.20	0.034	ND	ND	ND	ND	ND	0.028
AK	Dutch Harbor	3/22/2011	0.072	ND	0.053	0.077	ND	ND	ND	ND	ND	ND	0.10
AK	Dutch Harbor	3/22/2011	0.069 ¹	ND	0.088	0.078	0.079	ND	ND	ND	ND	ND	0.12
AK	Dutch Harbor	3/23/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AK	Dutch Harbor	3/23/2011	0.012 ¹	ND	0.012	0.036	0.011	ND	ND	ND	ND	ND	0.018
AK	Juneau	3/22/2011	ND	ND	ND	0.064	ND	ND	ND	ND	ND	ND	ND
AK	Juneau	3/22/2011	0.0036 ¹	ND	0.0040	0.056	ND	ND	ND	ND	ND	ND	0.0037
AK	Juneau	3/23/2011	ND	ND	ND	0.079	ND	ND	ND	ND	ND	ND	ND
AK	Juneau	3/23/2011	0.0057 ¹	ND	0.0074	0.067	ND	ND	ND	ND	ND	ND	0.0043
AK	Juneau	3/24/2011	ND	ND	ND	0.035	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/21/2011	ND	ND	0.015	0.069	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/22/2011	ND	ND	ND	0.068	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/22/2011	ND	ND	ND	0.096	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/23/2011	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND
AK	Nome	3/23/2011	0.016 ¹	ND	0.023	0.20	0.019	ND	ND	ND	ND	ND	0.027
AK	Nome	3/24/2011	0.14	ND	0.12	0.43	0.094	ND	ND	ND	ND	ND	0.14
AK	Nome	3/24/2011	0.10 ¹	0.012	0.13	0.39	0.076	ND	0.12	ND	0.061	ND	0.12
AL	Montgomery	3/24/2011	ND	ND	ND	0.031	ND	ND	ND	ND	ND	ND	0.0094
AL	Montgomery	3/24/2011	ND	ND	0.0018	0.012	ND	ND	ND	ND	ND	ND	ND

Note: Some locations have two results on the same date because two filters were analyzed: a 4-inch filter and a 2-inch filter.

¹Cs-134 analysis is subject to greater uncertainty due to spectral interferences, so the Cs-134 results here should be used only as a qualitative means of indicating the presence of this radionuclide, and not as a quantitative measure of its concentration.

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Filters

Issued: 4/4/11

State	Location	Date Collected	Radionuclide (pCi/m ³)												
			Cs-134	Cs-136	Cs-137	I-131	I-132	I-133	Te-129	Te-129m	Te-132				
AZ	Phoenix	3/22/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/11/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/15/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/18/2011	0.0012 ¹	ND	0.0017	0.046	0.0095	ND	ND	ND	ND	ND	ND	ND	0.012
CA	Anaheim	3/20/2011	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	0.019
CA	Anaheim	3/20/2011	0.0076 ¹	ND	0.008	0.13	0.018	ND	ND	ND	ND	ND	ND	ND	0.022
CA	Anaheim	3/21/2011	ND	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	0.031
CA	Anaheim	3/21/2011	0.017 ¹	ND	0.021	0.15	0.022	ND	ND	ND	ND	ND	ND	ND	0.031
CA	Anaheim	3/22/2011	ND	ND	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/22/2011	ND	ND	0.0015	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Anaheim	3/25/2011	0.26 ¹	ND	0.031	0.22	0.020	ND	ND	ND	ND	ND	0.011	ND	0.023
CA	Riverside	3/15/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Riverside	3/18/2011	0.00024	ND	0.00024	0.011	0.0011	ND	ND	ND	ND	ND	ND	ND	0.0014
CA	San Bernardino	3/20/2011	0.0088 ¹	ND	0.017	0.14	ND	ND	ND	ND	ND	ND	ND	ND	0.027
CA	San Bernardino	3/20/2011	0.012 ¹	ND	0.014	0.17	0.027	ND	ND	ND	ND	ND	ND	ND	0.031
CA	San Bernardino	3/22/2011	ND	ND	0.018	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	San Bernardino	3/22/2011	0.013 ¹	ND	0.018	0.11	0.018	ND	ND	ND	ND	ND	ND	ND	0.027
CA	San Bernardino	3/23/2011	ND	ND	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	San Bernardino	3/23/2011	ND	ND	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	San Francisco	3/18/2011	0.00092 ¹	ND	0.0013	0.068	0.0066	0.0020	ND	ND	ND	ND	ND	ND	0.0075

Note: Some locations have two results on the same date because two filters were analyzed: a 4-inch filter and a 2-inch filter.

¹ Cs-134 analysis is subject to greater uncertainty due to spectral interferences, so the Cs-134 results here should be used only as a qualitative means of indicating the presence of this radionuclide, and not as a quantitative measure of its concentration.

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Filters

Issued: 4/4/11

State	Location	Date Collected	Radionuclide (pCi/m ³)											
			Cs-134	Cs-136	Cs-137	I-131	I-132	I-133	Te-129	Te-129m	Te-132			
CNMI ²	Saipan	3/21/2011	0.068	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	0.10
CNMI ²	Saipan	3/21/2011	0.033 ¹	ND	0.040	0.24	0.036	ND	ND	ND	ND	ND	ND	0.056
CNMI ²	Saipan	3/22/2011	ND	ND	ND	0.095	ND	ND	ND	ND	ND	ND	ND	ND
CNMI ²	Saipan	3/22/2011	0.0058 ¹	ND	0.0042	0.088	ND	ND	ND	ND	ND	ND	ND	0.0083
FL	Jacksonville	3/24/2011	0.0073 ¹	ND	0.0082	0.14	0.011	0.011	ND	ND	ND	ND	ND	0.016
FL	Orlando	3/24/2011	0.015 ¹	0.0014	0.019	0.20	0.018	0.018	ND	ND	ND	ND	0.13	0.024
FL	Tampa	3/24/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/22/2011	0.018 ¹	ND	0.022	0.12	0.016	0.016	ND	ND	ND	ND	ND	0.028
Guam	Guam	3/23/2011	ND	ND	ND	0.066	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/23/2011	0.0034 ¹	ND	0.0047	0.052	ND	ND	ND	ND	ND	ND	ND	0.0076
HI	Honolulu	3/21/2011	0.0051	ND	0.0070	0.23	0.0060	0.0060	ND	ND	ND	ND	ND	0.0061
HI	Kauai	3/21/2011	0.079	ND	0.086	0.52	0.060	0.060	ND	ND	ND	ND	ND	0.064
HI	Kauai	3/21/2011	0.061 ¹	ND	0.075	0.39	0.042	0.042	ND	ND	ND	ND	ND	0.052
HI	Kauai	3/22/2011	ND	ND	ND	0.089	ND	ND	ND	ND	ND	ND	ND	ND
HI	Kauai	3/22/2011	0.014 ¹	ND	0.020	0.070	ND	ND	ND	ND	ND	ND	ND	0.017
HI	Oahu	3/20/2011	0.034	ND	0.021	0.20	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/20/2011	0.028 ¹	ND	0.036	0.14	0.020	0.020	ND	ND	ND	ND	ND	0.029
HI	Oahu	3/21/2011	0.076 ¹	ND	0.092	0.64	0.052	0.052	ND	ND	ND	ND	ND	0.063
HI	Oahu	3/21/2011	0.093	ND	0.12	0.66	ND	ND	ND	ND	ND	ND	ND	0.051
HI	Oahu	3/23/2011	ND	ND	ND	0.059	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/23/2011	0.013 ¹	ND	0.016	0.053	ND	ND	ND	ND	ND	ND	ND	0.0087
HI	Oahu	3/23/2011	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND
HI	Oahu	3/23/2011	0.0064 ¹	ND	0.010	0.11	0.017	0.017	ND	ND	ND	ND	ND	0.026

Note: Some locations have two results on the same date because two filters were analyzed: a 4-inch filter and a 2-inch filter.

¹ Cs-134 analysis is subject to greater uncertainty due to spectral interferences, so the Cs-134 results here should be used only as a qualitative means of indicating the presence of this radionuclide, and not as a quantitative measure of its concentration.

² CNMI stands for Commonwealth of the Northern Mariana Islands.

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Filters

Issued: 4/4/11

State	Location	Date Collected	Radionuclide (pCi/m ³)											
			Cs-134	Cs-136	Cs-137	I-131	I-132	I-133	Te-129	Te-129m	Te-132			
ID	Boise	3/21/2011	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/21/2011	0.012 ¹	ND	0.017	0.11	ND	ND	ND	ND	ND	ND	ND	0.01
ID	Boise	3/22/2011	0.0084 ¹	ND	0.0096	0.098	ND	ND	ND	ND	ND	ND	ND	0.0052
ID	Boise	3/23/2011	ND	ND	ND	0.088	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/23/2011	ND	ND	ND	0.055	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/23/2011	ND	ND	ND	0.068	ND	ND	ND	ND	ND	ND	ND	ND
ID	Boise	3/23/2011	0.047 ¹	0.0071	0.062	0.84	0.028	ND	ND	ND	ND	ND	ND	0.051
NV	Las Vegas	3/18/2011	ND	ND	ND	0.096	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/21/2011	0.052	ND	0.048	0.21	0.039	ND	ND	ND	ND	ND	ND	0.041
NV	Las Vegas	3/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/22/2011	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/23/2011	ND	ND	ND	0.053	ND	ND	ND	ND	ND	ND	ND	ND
NV	Las Vegas	3/24/2011	0.032	ND	0.058	0.20	ND	ND	ND	ND	ND	ND	ND	0.027
UT	Salt Lake City	3/21/2011	0.014 ¹	0.0029	0.018	0.35	0.019	ND	ND	ND	ND	ND	ND	0.025
UT	Salt Lake City	3/24/2011	ND	ND	ND	0.079	ND	ND	ND	ND	ND	ND	ND	ND
WA	Seattle	3/18/2011	0.00052 ¹	ND	0.00045	0.013	0.0029	ND	ND	ND	ND	ND	ND	0.0034

Note: Some locations have two results at the same time and date because two filters were analyzed: a 4-inch filter and a 2-inch filter.

¹Cs-134 analysis is subject to greater uncertainty due to spectral interferences, so the Cs-134 results here should be used only as a qualitative means of indicating the presence of this radionuclide, and not as a qualitative measure of its concentration.

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Cartridges

Issued: 3/30/11

State	Location	Date Collected	Radionuclide (pCi/m3)								
			Ba-140	Co-60	Cs-134	Cs-137	I-131	I-132	I-133	Te-132	
AK	Dutch Harbor	3/19/2011	ND	ND	ND	ND	ND	2.42	ND	ND	ND
AK	Dutch Harbor	3/20/2011	ND	ND	ND	ND	ND	2.8	ND	ND	ND
AK	Dutch Harbor	3/21/2011	ND	ND	ND	ND	ND	0.52	ND	ND	ND
AK	Dutch Harbor	3/22/2011	ND	ND	ND	ND	ND	0.78	ND	ND	ND
AK	Juneau	3/21/2011	ND	ND	ND	ND	ND	0.037	ND	ND	ND
AK	Juneau	3/22/2011	ND	ND	ND	ND	ND	0.18	ND	ND	ND
AK	Juneau	3/23/2011	ND	ND	ND	ND	ND	0.25	ND	ND	ND
AK	Nome	3/20/2011	ND	ND	ND	ND	ND	0.11	ND	ND	ND
AK	Nome	3/21/2011	ND	ND	ND	ND	ND	0.41	ND	ND	ND
AK	Nome	3/22/2011	ND	ND	ND	ND	ND	0.34	ND	ND	ND
AK	Nome	3/23/2011	ND	ND	ND	ND	ND	0.78	ND	ND	ND
AL	Montgomery	3/24/2011	ND	ND	ND	ND	ND	0.15	ND	ND	ND
CA	Anaheim	3/20/2011	ND	ND	ND	ND	ND	0.87	ND	ND	ND
CA	Anaheim	3/21/2011	ND	ND	ND	ND	ND	1.9	ND	ND	ND
CA	Anaheim	3/22/2011	ND	ND	ND	ND	ND	0.53	ND	ND	ND
CA	San Bernardino	3/23/2011	ND	ND	ND	ND	ND	0.45	ND	ND	ND
CA	San Bernardino	3/20/2011	ND	ND	ND	ND	ND	0.69	ND	ND	ND
CA	San Bernardino	3/22/2011	ND	ND	ND	ND	ND	1.1	ND	ND	ND
Guam	Guam	3/19/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND
Guam	Guam	3/22/2011	ND	ND	ND	ND	ND	0.58	ND	ND	ND
Guam	Guam	3/23/2011	ND	ND	ND	ND	ND	0.19	ND	ND	ND

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Cartridges

Issued: 3/30/11

State	Location	Date Collected	Radionuclide (pCi/m3)							
			Ba-140	Co-60	Cs-134	Cs-137	I-131	I-132	I-133	Te-132
HI	Oahu	3/20/2011	ND	ND	ND	ND	0.76	ND	ND	ND
HI	Oahu	3/21/2011	ND	ND	ND	1.4	ND	ND	ND	ND
HI	Oahu	3/23/2011	ND	ND	ND	0.18	ND	ND	ND	ND
ID	Boise	3/21/2011	ND	ND	ND	0.50	ND	ND	ND	ND
ID	Boise	3/22/2011	ND	ND	ND	0.66	ND	ND	ND	ND
ID	Boise	3/23/2011	ND	ND	ND	0.49	ND	ND	ND	ND
NV	Las Vegas	3/18/2011	ND	ND	ND	0.18	ND	ND	ND	ND
NV	Las Vegas	3/21/2011	ND	ND	ND	1.1	ND	ND	ND	ND
NV	Las Vegas	3/22/2011	ND	ND	ND	0.64	ND	ND	ND	ND
NV	Las Vegas	3/23/2011	ND	ND	ND	0.35	ND	ND	ND	ND
Saipan	Saipan	3/21/2011	ND	ND	ND	0.78	ND	ND	ND	ND

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Filters

Issued: 3/30/11

State	Location	Date Collected	Radionuclide (pCi/m ³)									
			Ba-140	Co-60	Cs-134	Cs-137	I-131	I-132	I-133	Te-132		
AK	Dutch Harbor	3/19/2011	ND	ND	0.037 ¹	0.053	0.66	0.17	ND	0.19		
AK	Dutch Harbor	3/19/2011	ND	ND	0.043 ¹	0.063	0.69	0.29	ND	0.4		
AK	Dutch Harbor	3/20/2011	ND	ND	0.0098	0.014	0.20	0.034	ND	0.028		
AK	Dutch Harbor	3/22/2011	ND	ND	0.072	0.053	0.077	ND	ND	0.10		
AK	Dutch Harbor	3/22/2011	ND	ND	0.069 ¹	0.088	0.078	0.079	ND	0.12		
AK	Juneau	3/22/2011	ND	ND	ND	ND	0.064	ND	ND	ND		
AK	Juneau	3/22/2011	ND	ND	0.0036 ¹	0.0040	0.056	ND	ND	0.0037		
AK	Juneau	3/23/2011	ND	ND	ND	ND	0.079	ND	ND	ND		
AK	Juneau	3/23/2011	ND	ND	0.0057 ¹	0.0074	0.067	ND	ND	0.0043		
AK	Nome	3/21/2011	ND	ND	ND	0.015	0.069	ND	ND	ND		
AK	Nome	3/22/2011	ND	ND	ND	ND	0.068	ND	ND	ND		
AK	Nome	3/22/2011	ND	ND	ND	ND	0.096	ND	ND	ND		
AK	Nome	3/23/2011	ND	ND	ND	ND	0.22	ND	ND	ND		
AK	Nome	3/23/2011	ND	ND	0.016 ¹	0.023	0.20	0.019	ND	0.027		
CA	Anaheim	3/11/2011	ND	ND	ND	ND	ND	ND	ND	ND		
CA	Anaheim	3/15/2011	ND	ND	ND	ND	ND	ND	ND	ND		
CA	Anaheim	3/18/2011	ND	ND	0.0012 ¹	0.0017	0.046	0.0095	ND	0.012		
CA	Anaheim	3/20/2011	ND	ND	ND	ND	0.13	ND	ND	0.019		
CA	Anaheim	3/20/2011	ND	ND	0.0076 ¹	0.008	0.13	0.018	ND	0.022		
CA	Anaheim	3/21/2011	ND	ND	ND	ND	0.17	ND	ND	0.031		
CA	Anaheim	3/21/2011	ND	ND	0.017 ¹	0.021	0.15	0.022	ND	0.031		
CA	Anaheim	3/22/2011	ND	ND	ND	ND	0.093	ND	ND	ND		
CA	Anaheim	3/22/2011	ND	ND	ND	0.0015	0.08	ND	ND	ND		

Note: Some locations have two results at the same time and date because two filters were analyzed: a 4-inch filter and a 2-inch filter.

¹Cs-134 analysis is subject to greater uncertainty due to spectral interferences, so the Cs-134 results here should be used only as a qualitative means of indicating the

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Filters

Issued: 3/30/11

State	Location	Date Collected	Radionuclide (pCi/m3)										
			Ba-140	Co-60	Cs-134	Cs-137	I-131	I-132	I-133	Te-132			
CA	Riverside	3/15/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CA	Riverside	3/18/2011	ND	ND	0.00024	0.00024	0.011	0.011	0.0011	0.0011	ND	ND	0.0014
CA	San Bernadino	3/20/2011	ND	ND	0.0088 ¹	0.017	0.14	0.17	0.027	0.027	ND	ND	0.027
CA	San Bernadino	3/20/2011	ND	ND	0.012 ¹	0.014	0.11	0.11	0.027	0.027	ND	ND	0.031
CA	San Bernadino	3/22/2011	ND	ND	ND	0.018	0.11	0.11	ND	ND	ND	ND	ND
CA	San Bernadino	3/22/2011	ND	ND	0.013 ¹	0.018	0.11	0.11	0.018	0.018	ND	ND	0.027
CA	San Bernadino	3/23/2011	ND	ND	ND	ND	0.093	0.093	ND	ND	ND	ND	ND
CA	San Bernadino	3/23/2011	ND	ND	ND	ND	0.093	0.093	ND	ND	ND	ND	ND
CA	San Francisco	3/18/2011	ND	ND	0.0092 ¹	0.0013	0.068	0.068	0.0066	0.0066	0.0020	0.0075	0.0075
CNMI ²	Saipan	3/21/2011	ND	ND	0.068	ND	0.27	0.27	ND	ND	ND	ND	0.10
CNMI ²	Saipan	3/21/2011	ND	ND	0.033 ¹	0.040	0.24	0.24	0.036	0.036	ND	ND	0.056
Guam	Guam	3/22/2011	ND	ND	0.018 ¹	0.022	0.12	0.12	0.016	0.016	ND	ND	0.028
Guam	Guam	3/23/2011	ND	ND	ND	ND	0.066	0.066	ND	ND	ND	ND	ND
Guam	Guam	3/23/2011	ND	ND	0.0034 ¹	0.0047	0.052	0.052	ND	ND	ND	ND	0.0076
HI	Honolulu	3/21/2011	ND	ND	0.0051	0.0070	0.23	0.23	0.0060	0.0060	ND	ND	0.0061
HI	Oahu	3/20/2011	ND	ND	0.034	0.021	0.20	0.20	ND	ND	ND	ND	ND
HI	Oahu	3/20/2011	ND	ND	0.028 ¹	0.036	0.14	0.14	0.020	0.020	ND	ND	0.029
HI	Oahu	3/21/2011	ND	ND	0.076 ¹	0.092	0.64	0.64	0.052	0.052	ND	ND	0.063
HI	Oahu	3/23/2011	ND	ND	ND	ND	0.059	0.059	ND	ND	ND	ND	ND
HI	Oahu	3/23/2011	ND	ND	0.013 ¹	0.016	0.053	0.053	ND	ND	ND	ND	0.0087

Note: Some locations have two results at the same time and date because two filters were analyzed: a 4-inch filter and a 2-inch filter.

¹Cs-134 analysis is subject to greater uncertainty due to spectral interferences, so the Cs-134 results here should be used only as a qualitative means of indicating the presence of this radionuclide, and not as a qualitative measure of its concentration.

² CNMI stands for Commonwealth of the Northern Mariana Islands.

KEY: "ND" - radionuclide not detected.

EPA RadNet Air Concentration Measurement Data - Air Filters

Issued: 3/30/11

State	Location	Date Collected	Radionuclide (pCi/m3)									
			Ba-140	Co-60	Cs-134	Cs-137	I-131	I-132	I-133	Te-132		
ID	Boise	3/21/2011	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND
ID	Boise	3/21/2011	ND	ND	0.012 ¹	0.017	0.11	ND	ND	ND	ND	0.01
ID	Boise	3/22/2011	ND	ND	0.0084 ¹	0.0096	0.098	ND	ND	ND	ND	0.0052
ID	Boise	3/23/2011	ND	ND	ND	ND	0.088	ND	ND	ND	ND	ND
ID	Boise	3/23/2011	ND	ND	ND	ND	0.055	ND	ND	ND	ND	ND
WA	Seattle	3/18/2011	ND	ND	0.00052 ¹	0.00045	0.013	0.0029	ND	ND	ND	0.0034

Note: Some locations have two results at the same time and date because two filters were analyzed: a 4-inch filter and a 2-inch filter.

¹Cs-134 analysis is subject to greater uncertainty due to spectral interferences, so the Cs-134 results here should be used only as a qualitative means of indicating the

KEY: "ND" - radionuclide not detected.