



## October 2013 - December 2013

### Gamma Spectroscopy Analysis, Portland Station

Due to radiation levels not being greater than normal background radiation levels, the posting of results has been discontinued. Instead, detailed results can be found on EPA's website (see link below).

The estimated overall maximum biological effect from the trace amounts of radiation currently detected in Oregon from the events in Japan is about 0.000160 mrem per day. **To put this into perspective, a person would need to be exposed to this level all day, everyday for over 100 years to equal the exposure from ONE chest X-ray.**

Date	Cesium - 137	Iodine - 131
	Activity pCi/m <sup>3</sup>	Activity pCi/m <sup>3</sup>
10/24/2013	<MDA*	<MDA*
10/28/2013	<MDA*	<MDA*
10/31/2013	<MDA*	<MDA*

\*Minimum Detectable Activity

### Units

Picocurie (pCi): A unit of measurement that tells your the rate of decay of a sample of radioactive material.

1 pCi = 0.037 Becquerel (Bq) = 2.22 radioactive decays per minute

### EPA's website:

<http://www.epa.gov/radnet/radnet-data/index.html#oregon>



PUBLIC HEALTH DIVISION  
Radiation Protection Services  
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**July 2013 - September 2013**  
**Gamma Spectroscopy Analysis, Portland Station**

The estimated overall maximum biological effect from the trace amounts of radiation currently detected in Oregon from the events in Japan is about 0.000160 mrem per day. **To put this into perspective, a person would need to be exposed to this level all day, everyday for over 100 years to equal the exposure from ONE chest X-ray.**

Sample	Cesium - 137	Iodine - 131
End Date	Activity pCi/m <sup>3</sup>	Activity pCi/m <sup>3</sup>
07/05/2013	<MDA*	<MDA*
07/01/2013	<MDA*	<MDA*

\*Minimum

**Units**

Picocurie (pCi): Measures the rate of decay of a sample of radioactive material.

1 pCi =



## April 2013 - June 2013

### Gamma Spectroscopy Analysis, Portland Station

The estimated overall maximum biological effect from the trace amounts of radiation currently detected in Oregon from the events in Japan is about 0.000160 mrem per day. **To put this into perspective, a person would need to be exposed to this level all day, everyday for over 100 years to equal the exposure from ONE chest X-ray.**

Sample End Date	Cesium - 137 Activity pCi/m <sup>3</sup>	Iodine - 131 Activity pCi/m <sup>3</sup>
06/03/2013	<MDA*	<MDA*
05/30/2013	<MDA*	<MDA*
05/27/2013	<MDA*	<MDA*
05/23/2013	<MDA*	<MDA*
05/20/2013	<MDA*	<MDA*
05/09/2013	<MDA*	<MDA*
05/06/2013	<MDA*	<MDA*
05/02/2013	<MDA*	<MDA*
04/25/2013	<MDA*	<MDA*
04/23/2013	<MDA*	<MDA*
04/04/2013	<MDA*	<MDA*
04/01/2013	<MDA*	<MDA*

\*Minimum

#### Units

Picocurie (pCi): Measures the rate of decay of a sample of radioactive material.

1 pCi =



**January 2013 - March 2013  
 Gamma Spectroscopy Analysis, Portland Station**

Samples are taken and analyzed twice a week. Data is updated on the web, once a month.

The estimated overall maximum biological effect from the trace amounts of radiation currently detected in Oregon from the events in Japan is about 0.000160 mrem per day. **To put this into perspective, a person would need to be exposed to this level all day, everyday for over 100 years to equal the exposure from ONE chest X-ray.**

Sample End Date	Cesium - 137	Iodine - 131
	Activity pCi/m <sup>3</sup>	Activity pCi/m <sup>3</sup>
03/28/2013	<MDA*	<MDA*
03/25/2013	<MDA*	<MDA*
03/21/2013	<MDA*	<MDA*
03/18/2013	<MDA*	<MDA*
03/07/2013	<MDA*	<MDA*
03/04/2013	<MDA*	<MDA*
02/21/2013	<MDA*	<MDA*
02/19/2013	<MDA*	<MDA*
02/15/2013	<MDA*	<MDA*
02/12/2013	<MDA*	<MDA*
02/07/2013	<MDA*	<MDA*
02/04/2013	<MDA*	<MDA*
01/31/2013	<MDA*	<MDA*
01/28/2013	<MDA*	<MDA*
01/25/2013	<MDA*	<MDA*
01/22/2013	<MDA*	<MDA*
01/17/2013	<MDA*	<MDA*
01/14/2013	<MDA*	<MDA*
01/10/2013	<MDA*	<MDA*
01/07/2013	<MDA*	<MDA*
01/03/2013	<MDA*	<MDA*

\*Minimum Detectable Activity

**Units**

Picocurie (pCi): Measures the rate of decay of a sample of radioactive material.  
 1 pCi = 0.037 Becquerel (Bq) = 2.22 radioactive decays per minute