

Uranium

- Legal Limit (MCL):^a
 - EPA: 30 µg/L
 - DHP: 20 pCi/L
- Public Health Goal (PHG): 0.5 ppb

Common sources of the contaminant in the Central Valley^b

Uranium is naturally occurring in some rocks and soil and is weakly radioactive. Uranium can also enter the environment in the production and use of phosphate fertilizers, or from mining and industrial processing activities.

Possible health effects of short-term exposure^c

- Nausea, vomiting, diarrhea
- Liver and kidney damage

Possible health effects of long-term exposure^d

- Kidney damage
- Liver damage
- Cancer (particularly of the bone and liver)

Sensitive populations^e

Children and pregnant women may be more at risk.

Pathways of exposure^f

The primary pathway of exposure is drinking water with high levels of uranium. You also may be exposed by inhaling uranium-contaminated vapor or absorbing uranium-contaminated water through your skin.

Tips for reducing exposure at home

- Avoid showering or washing dishes or food, particularly with hot water.
- Drink bottled water or use an certified treatment device. Pitcher filters, such as Brita, do not remove uranium. For more information on certified treatment devices, contact the California Dept. of Public Health at (916) 449-5600.



This information was originally published in the Community Water Center's ***Guide to Community Drinking Water Advocacy.***

311 W. Murray Ave. Visalia, CA 93291
Tel. (559) 733-0219 Fax. (559) 733-8219
www.communitywatercenter.org

Uranium References

- a. The state DPH MCL is measured in a unit called a “Curie,” which is a measurement of radioactivity. The federal EPA MCL is shown in a unit of mass. The same mass of Uranium may vary in its radioactivity, depending on the isotopes of Uranium.
- b. OEHHA (2001), “Public Health Goals for Chemicals in Drinking Water, Uranium,” available at <http://www.oehha.ca.gov/water/phg/pdf/uranium801.pdf> (last visited Nov. 29, 2008); WHO (2005) “Uranium in Drinking Water,” available at http://www.who.int/water_sanitation_health/dwq/chemicals/uranium290605.pdf (last visited Nov. 29, 2008).
- c. ATSDR (1999), “Toxicological Profile for Uranium, Health Effects,” available at <http://www.atsdr.cdc.gov/toxprofiles/tp150-c2.pdf> (last visited Nov. 29, 2008); OEHHA (2001), “Public Health Goals for Chemicals in Drinking Water, Uranium,” available at <http://www.oehha.ca.gov/water/phg/pdf/uranium801.pdf> (last visited Nov. 29, 2008); WHO (2005) “Uranium in Drinking Water,” available at http://www.who.int/water_sanitation_health/dwq/chemicals/uranium290605.pdf (last visited Nov. 29, 2008).
- d. OEHHA (2001), “Public Health Goals for Chemicals in Drinking Water, Uranium,” available at <http://www.oehha.ca.gov/water/phg/pdf/uranium801.pdf> (last visited Nov. 29, 2008); ATSDR (1999), “Toxicological Profile for Uranium, Health Effects,” available at <http://www.atsdr.cdc.gov/toxprofiles/tp150-c2.pdf> (last visited Nov. 29, 2008); WHO (2005) “Uranium in Drinking Water,” available at http://www.who.int/water_sanitation_health/dwq/chemicals/uranium290605.pdf (last visited Nov. 29, 2008).
- e. ATSDR (1999), “Toxicological Profile for Uranium, Public Health Statement,” available at <http://www.atsdr.cdc.gov/toxprofiles/phs150.html> (last visited Nov. 29, 2008).
- f. OEHHA (2001), “Public Health Goals for Chemicals in Drinking Water, Uranium,” available at <http://www.oehha.ca.gov/water/phg/pdf/uranium801.pdf> (last visited Nov. 29, 2008); ATSDR (1999), “Toxicological Profile for Uranium, Public Health Statement,” available at <http://www.atsdr.cdc.gov/toxprofiles/phs150.html> (last visited Nov. 29, 2008); WHO (2005) “Uranium in Drinking Water,” available at http://www.who.int/water_sanitation_health/dwq/chemicals/uranium290605.pdf (last visited Nov. 29, 2008).



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