

## 1 **Appendix A: ATSDR Glossary of Environmental Health Terms**

2 The Agency for Toxic Substances and Disease Registry (ATSDR) is a federal public health  
3 agency with headquarters in Atlanta, Georgia, and 10 regional offices in the United States.  
4 ATSDR's mission is to serve the public by using the best science, taking responsive public  
5 health actions, and providing trusted health information to prevent harmful exposures and  
6 diseases related to toxic substances. ATSDR is not a regulatory agency, unlike the U.S.  
7 Environmental Protection Agency (EPA), which is the federal agency that develops and enforces  
8 environmental laws to protect the environment and human health.

9 This glossary defines words used by ATSDR in communications with the public. It is not a  
10 complete dictionary of environmental health terms. If you have questions or comments, call  
11 ATSDR's toll-free telephone number, 1-888-42-ATSDR (1-888-422-8737).

### 12 **Absorption**

13 The process of taking in. For a person or animal, *absorption* is the process through which a  
14 substance gets into the body through the eyes, skin, stomach, intestines, or lungs.

### 15 **Activity**

16 The number of radioactive nuclear transformations occurring in a material per unit time. The  
17 term for *activity* per unit mass is specific activity.

### 18 **Acute**

19 Occurring over a short time [compare with **chronic**].

### 20 **Acute exposure**

21 Contact with a substance that occurs once or for only a short time (up to 14 days) [compare with  
22 **intermediate-duration exposure** and **chronic exposure**].

### 23 **Adverse health effect**

24 A change in body function or cell structure that might lead to disease or health problems.

### 25 **Ambient**

26 Surrounding (for example, *ambient* air).

### 27 **Analytic epidemiologic study**

28 A study that evaluates the association between exposure to hazardous substances and disease by  
29 testing scientific hypotheses.

### 30 **Background level**

31 An average or expected amount of a substance or radioactive material in a specific environment,  
32 or typical amounts of substances that occur naturally in an environment.

### 33 **Background radiation**

34 The amount of radiation to which a member of the general population is exposed from natural  
35 sources, such as terrestrial radiation from naturally occurring **radionuclides** in the soil, cosmic  
36 radiation originating from outer space, and naturally occurring radionuclides deposited in the  
37 human body.

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- 1 **Bedding planes**  
2 The division of *sediment* or *sedimentary rock* into parallel layers (beds) that can be distinguished  
3 from each other by such features as chemical composition and grain size.
- 4 **Biota**  
5 Plants and animals in an environment. Some of these plants and animals might be sources of  
6 food, clothing, or medicines for people.
- 7 **Body burden**  
8 The total amount of a substance in the body. Some substances build up in the body because they  
9 are stored in fat or bone or because they leave the body very slowly.
- 10 **Cancer**  
11 Any one of a group of diseases that occurs when cells in the body become abnormal and grow or  
12 multiply out of control.
- 13 **Cancer risk**  
14 A theoretical risk of getting cancer if exposed to a substance every day for 70 years (a lifetime  
15 exposure). The true risk might be lower.
- 16 **Carcinogen**  
17 A substance that causes cancer.
- 18 **Case-control study**  
19 A study that compares exposures of people who have a disease or condition (cases) with people  
20 who do not have the disease or condition (controls). Exposures that are more common among the  
21 cases may be considered as possible risk factors for the disease.
- 22 **Central nervous system**  
23 The part of the nervous system that consists of the brain and the spinal cord.
- 24 **CERCLA**  
25 [See **Comprehensive Environmental Response, Compensation, and Liability Act of 1980.**]
- 26 **Chronic**  
27 Occurring over a long time (more than 1 year) [compare with **acute**].
- 28 **Chronic exposure**  
29 Contact with a substance that occurs over a long time (more than 1 year) [compare with **acute**  
30 **exposure** and **intermediate-duration exposure**].
- 31 **Committed Effective Dose Equivalent (CEDE)**  
32 The sum of the products of the weighting factors applicable to each of the body organs or tissues  
33 that are irradiated and the committed dose equivalent to the organs or tissues. The *committed*  
34 *effective dose equivalent* is used in radiation safety because it implicitly includes the relative  
35 carcinogenic sensitivity of the various tissues. The unit of dose for the CEDE is the rem (or, in SI  
36 units, the sievert—1 sievert equals 100 rem.)
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1 **Comparison value (CV)**

2 Calculated concentration of a substance in air, water, food, or soil that is unlikely to cause  
3 harmful (adverse) health effects in exposed people. The CV is used as a screening level during  
4 the public health assessment process. Substances found in amounts greater than their CVs might  
5 be selected for further evaluation in the public health assessment process.

6 **Completed exposure pathway**

7 [See **exposure pathway**.]

8 **Comprehensive Environmental Response, Compensation, and Liability Act of 1980**  
9 **(CERCLA)**

10 *CERCLA*, also known as **Superfund**, is the federal law that concerns the removal or cleanup of  
11 hazardous substances in the environment and at hazardous waste sites. ATSDR, which was  
12 created by *CERCLA*, is responsible for assessing health issues and supporting public health  
13 activities related to hazardous waste sites or other environmental releases of hazardous  
14 substances.

15 **Concentration**

16 The amount of a substance present in a certain amount of soil, water, air, food, blood, hair, urine,  
17 breath, or any other medium.

18 **Contaminant**

19 A substance that is either present in an environment where it does not belong or is present at  
20 levels that might cause harmful (adverse) health effects.

21 **Curie (Ci)**

22 A unit of radioactivity. One *curie* equals that quantity of radioactive material in which there are  
23  $3.7 \times 10^{10}$  nuclear transformations per second. The activity of 1 gram of radium is approximately  
24 1 Ci; the activity of 1.46 million grams of natural uranium is approximately 1 Ci.

25 **Decay product/daughter product/progeny**

26 A new nuclide formed as a result of radioactive decay: from the radioactive transformation of a  
27 radionuclide, either directly or as the result of successive transformations in a radioactive series.  
28 A *decay product* can be either radioactive or stable.

29 **Depleted uranium (DU)**

30 Uranium having a percentage of U 235 smaller than the 0.7% found in natural uranium. It is  
31 obtained as a byproduct of U 235 enrichment.

32 **Dermal**

33 Referring to the skin. For example, *dermal* absorption means passing through the skin.

34 **Dermal contact**

35 Contact with (touching) the skin [see **route of exposure**].

36 **Descriptive epidemiology**

37 The study of the amount and distribution of a disease in a specified population by person, place,  
38 and time.

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1 **Detection limit**

2 The lowest concentration of a chemical that can reliably be distinguished from a zero  
3 concentration.

4 **Disease registry**

5 A system of ongoing registration of all cases of a particular disease or health condition in a  
6 defined population.

7 **DOE**

8 The United States Department of Energy.

9 **Dose (for chemicals that are not radioactive)**

10 The amount of a substance to which a person is exposed over some time period. *Dose* is a  
11 measurement of exposure. *Dose* is often expressed as milligrams (a measure of quantity) per  
12 kilogram (a measure of body weight) per day (a measure of time) when people eat or drink  
13 contaminated water, food, or soil. In general, the greater the *dose*, the greater the likelihood of an  
14 effect. An “exposure dose” is how much of a substance is encountered in the environment. An  
15 “absorbed dose” is the amount of a substance that actually gets into the body through the eyes,  
16 skin, stomach, intestines, or lungs.

17 **Dose (for radioactive chemicals)**

18 The radiation *dose* is the amount of energy from radiation that is actually absorbed by the body.  
19 This is not the same as measurements of the amount of radiation in the environment.

20 **Dose-response relationship**

21 The relationship between the amount of exposure [**dose**] to a substance and the resulting changes  
22 in body function or health (response).

23 **EMEG**

24 Environmental Media Evaluation Guide, a media-specific comparison value that is used to select  
25 contaminants of concern. Levels below the EMEG are not expected to cause adverse  
26 noncarcinogenic health effects.

27 **Enriched uranium**

28 Uranium in which the abundance of the U 235 isotope is increased above normal.

29 **Environmental media**

30 Soil, water, air, **biota** (plants and animals), or any other parts of the environment that can contain  
31 contaminants.

32 **Environmental media and transport mechanism**

33 *Environmental media* include water, air, soil, and **biota** (plants and animals). *Transport*  
34 *mechanisms* move contaminants from the source to points where human exposure can occur. The  
35 *environmental media and transport mechanism* is the second part of an **exposure pathway**.

36 **EPA**

37 The United States Environmental Protection Agency.

1 **Epidemiologic surveillance**

2 The ongoing, systematic collection, analysis, and interpretation of health data. This activity also  
3 involves timely dissemination of the data and use for public health programs.

4 **Epidemiology**

5 The study of the distribution and determinants of disease or health status in a population; the  
6 study of the occurrence and causes of health effects in humans.

7 **Equilibrium, radioactive**

8 In a radioactive series, the state that prevails when the ratios between the activities of two or  
9 more successive members of the series remain constant.

10 **Exposure**

11 Contact with a substance by swallowing, breathing, or touching the skin or eyes. *Exposure* can  
12 be short-term [see **acute exposure**], of intermediate duration [see **intermediate-duration**  
13 **exposure**], or long-term [see **chronic exposure**].

14 **Exposure assessment**

15 The process of finding out how people come into contact with a hazardous substance, how often  
16 and for how long they are in contact with the substance, and how much of the substance they are  
17 in contact with.

18 **Exposure-dose reconstruction**

19 A method of estimating the amount of people's past exposure to hazardous substances. Computer  
20 and approximation methods are used when past information is limited, not available, or missing.

21 **Exposure investigation**

22 The collection and analysis of site-specific information and biological tests (when appropriate) to  
23 determine whether people have been exposed to hazardous substances.

24 **Exposure pathway**

25 The route a substance takes from its source (where it began) to its end point (where it ends), and  
26 how people can come into contact with (or get exposed to) it. An *exposure pathway* has five  
27 parts: a **source of contamination** (such as an abandoned business); an **environmental media**  
28 **and transport mechanism** (such as movement through **groundwater**); a **point of exposure**  
29 (such as a private well); a **route of exposure** (eating, drinking, breathing, or touching), and a  
30 **receptor population** (people potentially or actually exposed). When all five parts are present,  
31 the *exposure pathway* is termed a **completed exposure pathway**.

32 **Exposure registry**

33 A system of ongoing follow up of people who have had documented environmental exposures.

34 **Feasibility study**

35 A study by EPA to determine the best way to clean up environmental contamination. A number  
36 of factors are considered, including health risk, costs, and what methods will work well.

37 **Grand rounds**

38 Training sessions for physicians and other health care providers about health topics.

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1 **Groundwater**

2 Water beneath the earth's surface in the spaces between soil particles and between rock surfaces  
3 [compare with **surface water**].

4 **Half-life ( $t_{1/2}$ )**

5 The time it takes for half the original amount of a substance to disappear. In the environment, the  
6 *half-life* is the time it takes for half the original amount of a substance to disappear when it is  
7 changed to another chemical by bacteria, fungi, sunlight, or other chemical processes. In the  
8 human body, the *half-life* is the time it takes for half the original amount of the substance to  
9 disappear either by being changed to another substance or by leaving the body. In the case of  
10 radioactive material, the *half-life* is the amount of time necessary for one half the initial number  
11 of radioactive atoms to change or transform into other atoms (normally not radioactive). After  
12 two *half-lives*, 25% of the original number of radioactive atoms remain.

13 **Hazard**

14 A source of potential harm from past, current, or future exposures.

15 **Hazardous waste**

16 Potentially harmful substances that have been released or discarded into the environment.

17 **Health consultation**

18 A review of available information or collection of new data to respond to a specific health  
19 question or request for information about a potential environmental hazard. *Health consultations*  
20 are focused on a specific exposure issue. They are therefore more limited than public health  
21 assessments, which review the exposure potential of each pathway and chemical [compare with  
22 **public health assessment**].

23 **Health education**

24 Programs designed with a community to help it know about health risks and how to reduce these  
25 risks.

26 **Health investigation**

27 The collection and evaluation of information about the health of community residents. This  
28 information is used to describe or count the occurrence of a disease, symptom, or clinical  
29 measure and to estimate the possible association between the occurrence and exposure to  
30 hazardous substances.

31 **Health statistics review**

32 The analysis of existing health information (i.e., from death certificates, birth defects registries,  
33 and cancer registries) to determine if there is excess disease in a specific population, geographic  
34 area, and time period. A *health statistics review* is a descriptive epidemiologic study.

35 **Indeterminate public health hazard**

36 The category used in ATSDR's public health assessment documents when a professional  
37 judgment about the level of health hazard cannot be made because information critical to such a  
38 decision is lacking.

1 **Incidence**

2 The number of new cases of disease in a defined population over a specific time period [contrast  
3 with **prevalence**].

4 **Ingestion**

5 The act of swallowing something through eating, drinking, or mouthing objects. A hazardous  
6 substance can enter the body this way [see **route of exposure**].

7 **Inhalation**

8 The act of breathing. A hazardous substance can enter the body this way [see **route of**  
9 **exposure**].

10 **Intermediate-duration exposure**

11 Contact with a substance that occurs for more than 14 days and less than a year [compare with  
12 **acute exposure** and **chronic exposure**].

13 **Ionizing radiation**

14 Any radiation capable of knocking electrons out of atoms and producing ions. Examples: alpha,  
15 beta, gamma and x rays, and neutrons.

16 **Isotopes**

17 Nuclides having the same number of protons in their nuclei, and hence the same atomic number,  
18 but differing in the number of neutrons, and therefore in the mass number. Identical chemical  
19 properties exist in *isotopes* of a particular element. The term should not be used as a synonym for  
20 “nuclide,” because “isotopes” refers specifically to different nuclei of the same element.

21 **Lowest-observed-adverse-effect level (LOAEL)**

22 The lowest tested dose of a substance that has been reported to cause harmful (adverse) health  
23 effects in people or animals.

24 **Metabolism**

25 The conversion or breakdown of a substance from one form to another by a living organism.

26 **mg/kg**

27 **Milligrams per kilogram.**

28 **mg/m<sup>3</sup>**

29 Milligrams per cubic meter: a measure of the concentration of a chemical in a known volume (a  
30 cubic meter) of air, soil, or water.

31 **Migration**

32 Moving from one location to another.

33 **Minimal risk level (MRL)**

34 An ATSDR estimate of daily human exposure to a hazardous substance at or below which that  
35 substance is unlikely to pose a measurable risk of harmful (adverse), noncancerous effects. *MRLs*  
36 are calculated for a route of exposure (inhalation or oral) over a specified time period (acute,  
37 intermediate, or chronic). *MRLs* should not be used as predictors of harmful (adverse) health  
38 effects [see **reference dose**].

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- 1 **Mortality**  
2 Death. Usually the cause (a specific disease, condition, or injury) is stated.
- 3 **Mutagen**  
4 A substance that causes **mutations** (genetic damage).
- 5 **Mutation**  
6 A change (damage) to the DNA, genes, or chromosomes of living organisms.
- 7 **National Priorities List for Uncontrolled Hazardous Waste Sites (National Priorities List or**  
8 **NPL)**  
9 **EPA's** list of the most serious uncontrolled or abandoned hazardous waste sites in the United  
10 States. The *NPL* is updated on a regular basis.
- 11 **No apparent public health hazard**  
12 A category used in ATSDR's public health assessments for sites where human exposure to  
13 contaminated media might be occurring, might have occurred in the past, or might occur in the  
14 future, but is not expected to cause any harmful health effects.
- 15 **No-observed-adverse-effect level (NOAEL)**  
16 The highest tested dose of a substance that has been reported to have no harmful (adverse) health  
17 effects on people or animals.
- 18 **No public health hazard**  
19 A category used in ATSDR's public health assessment documents for sites where people have  
20 never and will never come into contact with harmful amounts of site-related substances.
- 21 **NPL**  
22 [See **National Priorities List for Uncontrolled Hazardous Waste Sites.**]
- 23 **Parent**  
24 A radionuclide which, upon disintegration, yields a new nuclide, either directly or as a later  
25 member of a radioactive series.
- 26 **Plume**  
27 A volume of a substance that moves from its source to places farther away from the source.  
28 *Plumes* can be described by the volume of air or water they occupy and the direction in which  
29 they move. For example, a *plume* can be a column of smoke from a chimney or a substance  
30 moving with groundwater.
- 31 **Point of exposure**  
32 The place where someone can come into contact with a substance present in the environment  
33 [see **exposure pathway**].
- 34 **Population**  
35 A group or number of people living within a specified area or sharing similar characteristics  
36 (such as occupation or age).
- 37 **ppb**  
38 Parts per billion.
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1 **ppm**

2 Parts per million.

3 **Prevalence**

4 The number of existing disease cases in a defined population during a specific time period  
5 [contrast with **incidence**].

6 **Prevention**

7 Actions that reduce exposure or other risks, keep people from getting sick, or keep disease from  
8 getting worse.

9 **Public comment period**

10 An opportunity for the public to comment on agency findings or proposed activities contained in  
11 draft reports or documents. The public comment period is a limited time period during which  
12 comments will be accepted.

13 **Public health action plan**

14 A list of steps to protect public health.

15 **Public health advisory**

16 A statement made by ATSDR to EPA or a state regulatory agency that a release of hazardous  
17 substances poses an immediate threat to human health. The advisory includes recommended  
18 measures to reduce exposure and reduce the threat to human health.

19 **Public health assessment (PHA)**

20 An ATSDR document that examines hazardous substances, health outcomes, and community  
21 concerns at a hazardous waste site to determine whether people could be harmed by coming into  
22 contact with those substances. The PHA also lists actions that need to be taken to protect public  
23 health [compare with **health consultation**].

24 **Public health hazard**

25 A category used in ATSDR's public health assessments for sites that pose a public health hazard  
26 because of long-term exposures (greater than 1 year) to sufficiently high levels of hazardous  
27 substances or **radionuclides** that could result in harmful health effects.

28 **Public health hazard categories**

29 Statements about whether people could be harmed by conditions present at the site in the past,  
30 present, or future. One or more hazard categories might be appropriate for each site. The five  
31 *public health hazard categories* are **no public health hazard, no apparent public health**  
32 **hazard, indeterminate public health hazard, public health hazard, and urgent public health**  
33 **hazard.**

34 **Public health statement**

35 The first chapter of an ATSDR **toxicological profile**. The *public health statement* is a summary  
36 written in words that are easy to understand. It explains how people might be exposed to a  
37 specific substance and describes the known health effects of that substance.

38 **Public meeting**

39 A public forum with community members for communication about a site.

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1 **Quality factor (radiation weighting factor)**

2 The linear-energy-transfer-dependent factor by which absorbed doses are multiplied to obtain  
3 (for radiation protection purposes) a quantity that expresses - on a common scale for all ionizing  
4 radiation - the approximate biological effectiveness of the absorbed dose.

5 **Rad**

6 The unit of absorbed dose equal to 100 ergs per gram, or 0.01 joules per kilogram (0.01 gray) in  
7 any medium [see **dose**].

8 **Radiation**

9 The emission and propagation of energy through space or through a material medium in the form  
10 of waves (e.g., the emission and propagation of electromagnetic waves, or of sound and elastic  
11 waves). The term “radiation” (or “radiant energy”), when unqualified, usually refers to  
12 electromagnetic *radiation*. Such *radiation* commonly is classified according to frequency, as  
13 microwaves, infrared, visible (light), ultraviolet, and x and gamma rays and, by extension,  
14 corpuscular emission, such as alpha and beta *radiation*, neutrons, or rays of mixed or unknown  
15 type, such as cosmic *radiation*.

16 **Radioactive material**

17 Material containing radioactive atoms.

18 **Radioactivity**

19 Spontaneous nuclear transformations that result in the formation of new elements. These  
20 transformations are accomplished by emission of alpha or beta particles from the nucleus or by  
21 the capture of an orbital electron. Each of these reactions may or may not be accompanied by a  
22 gamma photon.

23 **Radioisotope**

24 An unstable or radioactive isotope (form) of an element that can change into another element by  
25 giving off radiation.

26 **Radionuclide**

27 Any radioactive isotope (form) of any element.

28 **RBC**

29 Risk-based Concentration, a contaminant concentration that is not expected to cause adverse  
30 health effects over long-term exposure.

31 **RCRA**

32 [See **Resource Conservation and Recovery Act (1976, 1984)**.]

33 **Receptor population**

34 People who could come into contact with hazardous substances [see **exposure pathway**].

35 **Reference dose (RfD)**

36 An EPA estimate, with uncertainty or safety factors built in, of the daily lifetime dose of a  
37 substance that is unlikely to cause harm in humans.

1 **Rem**

2 A unit of dose equivalent that is used in the regulatory, administrative, and engineering design  
3 aspects of radiation safety practice. The dose equivalent in *rem* is numerically equal to the  
4 absorbed dose in rad multiplied by the quality factor (1 *rem* is equal to 0.01 sievert).

5 **Remedial investigation**

6 The CERCLA process of determining the type and extent of hazardous material contamination at  
7 a site.

8 **Resource Conservation and Recovery Act (1976, 1984) (RCRA)**

9 This act regulates management and disposal of hazardous wastes currently generated, treated,  
10 stored, disposed of, or distributed.

11 **RfD**

12 [See **reference dose**.]

13 **Risk**

14 The probability that something will cause injury or harm.

15 **Route of exposure**

16 The way people come into contact with a hazardous substance. Three *routes of exposure* are  
17 breathing [**inhalation**], eating or drinking [**ingestion**], and contact with the skin [**dermal**  
18 **contact**].

19 **Safety factor**

20 [See **uncertainty factor**.]

21 **Sample**

22 A portion or piece of a whole; a selected subset of a population or subset of whatever is being  
23 studied. For example, in a study of people the *sample* is a number of people chosen from a larger  
24 population [see **population**]. An environmental *sample* (for example, a small amount of soil or  
25 water) might be collected to measure contamination in the environment at a specific location.

26 **Sievert (Sv)**

27 The SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sieverts  
28 is equal to the absorbed dose, in gray, multiplied by the quality factor (1 sievert equals 100 rem).

29 **Solvent**

30 A liquid capable of dissolving or dispersing another substance (for example, acetone or mineral  
31 spirits).

32 **Source of contamination**

33 The place where a hazardous substance comes from, such as a landfill, waste pond, incinerator,  
34 storage tank, or drum. A *source of contamination* is the first part of an **exposure pathway**.

35 **Special populations**

36 People who might be more sensitive or susceptible to exposure to hazardous substances because  
37 of factors such as age, occupation, gender, or behaviors (for example, cigarette smoking).  
38 Children, pregnant women, and older people are often considered *special populations*.

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- 1 **Specific activity**  
2 Radioactivity per unit mass of material containing a radionuclide, expressed, for example, as  
3 Ci/gram or Bq/gram.
- 4 **Stakeholder**  
5 A person, group, or community who has an interest in activities at a hazardous waste site.
- 6 **Statistics**  
7 A branch of mathematics that deals with collecting, reviewing, summarizing, and interpreting  
8 data or information. Statistics are used to determine whether differences between study groups  
9 are meaningful.
- 10 **Strike**  
11 The horizontal line marking the intersection between the inclined plane of a solid geological  
12 structure and the Earth's surface.
- 13 **Substance**  
14 A chemical.
- 15 **Surface water**  
16 Water on the surface of the earth, such as in lakes, rivers, streams, ponds, and springs [compare  
17 with **groundwater**].
- 18 **Surveillance**  
19 [see **epidemiologic surveillance**]
- 20 **Survey**  
21 A systematic collection of information or data. A *survey* can be conducted to collect information  
22 from a group of people or from the environment. *Surveys* of a group of people can be conducted  
23 by telephone, by mail, or in person. Some *surveys* are done by interviewing a group of people.
- 24 **Toxicological profile**  
25 An ATSDR document that examines, summarizes, and interprets information about a hazardous  
26 substance to determine harmful levels of exposure and associated health effects. A *toxicological*  
27 *profile* also identifies significant gaps in knowledge on the substance and describes areas where  
28 further research is needed.
- 29 **Toxicology**  
30 The study of the harmful effects of substances on humans or animals.
- 31 **Uncertainty factor**  
32 A mathematical adjustment for reasons of safety when knowledge is incomplete—for example, a  
33 factor used in the calculation of doses that are not harmful (adverse) to people. These factors are  
34 applied to the lowest-observed-adverse-effect-level (LOAEL) or the no-observed-adverse-effect-  
35 level (NOAEL) to derive a minimal risk level (MRL). *Uncertainty factors* are used to account for  
36 variations in people's sensitivity, for differences between animals and humans, and for  
37 differences between a LOAEL and a NOAEL. Scientists use *uncertainty factors* when they have  
38 some, but not all, the information from animal or human studies to decide whether an exposure  
39 will cause harm to people [also sometimes called a **safety factor**].
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1 **Units, radiological**

<i>Units</i>	<i>Equivalents</i>
Becquerel* (Bq)	1 disintegration per second = $2.7 \times 10^{-11}$ Ci
Curie (Ci)	$3.7 \times 10^{10}$ disintegrations per second = $3.7 \times 10^{10}$ Bq
Gray* (Gy)	1 J/kg = 100 rad
Rad (rad)	100 erg/g = 0.01 Gy
Rem (rem)	0.01 sievert
Sievert* (Sv)	100 rem

\*International Units, designated (SI)

2 **Urgent public health hazard**

3 A category used in ATSDR's public health assessments for sites where short-term exposures  
4 (less than 1 year) to hazardous substances or conditions could result in harmful health effects that  
5 require rapid intervention.

6 **Watershed**

7 A watershed is a region of land that is crisscrossed by smaller waterways that drain into a larger  
8 body of water.

9 **Water table**

10 The surface that lies between the *unsaturated zone* and the underlying *saturated zone* of the soil.

11 **Other Glossaries and Dictionaries**

12 Environmental Protection Agency <http://www.epa.gov/OCEPATERMS/>

13 National Center for Environmental Health (CDC) <http://www.cdc.gov/nceh/dls/report/glossary.htm>

14 National Library of Medicine <http://www.nlm.nih.gov/medlineplus/mplusdictionary.htm>