

§ 141.15

filtration is required. The requirements in this section apply to filtered systems until June 29, 1993. The requirements in this section apply to unfiltered systems that the State has determined, in writing pursuant to § 1412(b)(7)(C)(iii), must install filtration, until June 29, 1993, or until filtration is installed, whichever is later.

(a) One turbidity unit (TU), as determined by a monthly average pursuant to § 141.22, except that five or fewer turbidity units may be allowed if the supplier of water can demonstrate to the State that the higher turbidity does not do any of the following:

- (1) Interfere with disinfection;
- (2) Prevent maintenance of an effective disinfectant agent throughout the distribution system; or
- (3) Interfere with microbiological determinations.

(b) Five turbidity units based on an average for two consecutive days pursuant to § 141.22.

[40 FR 59570, Dec. 24, 1975]

**§ 141.15 Maximum contaminant levels for radium-226, radium-228, and gross alpha particle radioactivity in community water systems.**

The following are the maximum contaminant levels for radium-226, radium-228, and gross alpha particle radioactivity:

- (a) Combined radium-226 and radium-228—5 pCi/l.
- (b) Gross alpha particle activity (including radium-226 but excluding radon and uranium)—15 pCi/l.

[41 FR 28404, July 9, 1976]

**§ 141.16 Maximum contaminant levels for beta particle and photon radioactivity from man-made radionuclides in community water systems.**

(a) The average annual concentration of beta particle and photon radioactivity from man-made radionuclides in drinking water shall not produce an annual dose equivalent to the total body or any internal organ greater than 4 millirem/year.

(b) Except for the radionuclides listed in Table A, the concentration of man-made radionuclides causing 4 mrem total body or organ dose equivalents shall be calculated on the basis of

40 CFR Ch. I (7-1-00 Edition)

a 2 liter per day drinking water intake using the 168 hour data listed in 'Maximum Permissible Body Burdens and Maximum Permissible Concentration of Radionuclides in Air or Water for Occupational Exposure,' NBS Handbook 69 as amended August 1963, U.S. Department of Commerce. If two or more radionuclides are present, the sum of their annual dose equivalent to the total body or to any organ shall not exceed 4 millirem/year.

TABLE A—AVERAGE ANNUAL CONCENTRATIONS ASSUMED TO PRODUCE A TOTAL BODY OR ORGAN DOSE OF 4 MREM/YR

Radionuclide	Critical organ	pCi per liter
Tritium .....	Total body .....	20,000
Strontium-90 .....	Bone marrow .....	8

[41 FR 28404, July 9, 1976]

**Subpart C—Monitoring and Analytical Requirements**

**§ 141.21 Coliform sampling.**

(a) *Routine monitoring.* (1) Public water systems must collect total coliform samples at sites which are representative of water throughout the distribution system according to a written sample siting plan. These plans are subject to State review and revision.

(2) The monitoring frequency for total coliforms for community water systems is based on the population served by the system, as follows:

TOTAL COLIFORM MONITORING FREQUENCY FOR COMMUNITY WATER SYSTEMS

Population served	Minimum number of samples per month
25 to 1,000 <sup>1</sup> .....	1
1,001 to 2,500 .....	2
2,501 to 3,300 .....	3
3,301 to 4,100 .....	4
4,101 to 4,900 .....	5
4,901 to 5,800 .....	6
5,801 to 6,700 .....	7
6,701 to 7,600 .....	8
7,601 to 8,500 .....	9
8,501 to 12,900 .....	10
12,901 to 17,200 .....	15
17,201 to 21,500 .....	20
21,501 to 25,000 .....	25
25,001 to 33,000 .....	30
33,001 to 41,000 .....	40