

§ 141.62 Maximum contaminant levels for inorganic contaminants.

Environmental Protection Agency

(a) [Reserved]

(b) The maximum contaminant level for inorganic contaminants specified paragraphs (b) (2)-(6), (b)(10), and (11) (16) of this section apply to community water systems and non-fransient, non-community water systems. The maximum contaminant leve specified in paragraph (b)(1) of this section only applies to community water systems. The maximum contaminant levels specified in (b)(7), (b)(8), and (b)(9) of this section apply to community water systems; non-transient, non-community water systems; and transcommunity water system vater systems; and trancommunity sient non-community water systems.

Contaminant	MCL (mg/l)
(1) Fluoride	4.0
(2) Asbestos	7 Million Fibers/liter (longer than 10 μm).
(3) Barium	виши то дину.
(4) Cadmium	0.005
(5) Chromium	.1
(6) Mercury	0 002
(7) Nitrate	10 (as Nitrogen)
(8) Nitrite	1 (a Nitrogen)
(9) Total Nitrate and Nit to	10 (as Nitrogen)
(10) Selenium	0.05
(11) Antimony	0.006
(12) Beryllium	0.004
(13) Cyanide (as free Cya- nide).	0.2
(14) [Reserved].	
(15) Thallium	0.002
(16) Arsenic	0.010
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e Administrator, pursuant to (c) T section 1412 of the Act, hereby identihe following as the best techy, treatment technique, or other nolo mea ns available for achieving complie with the maximum contaminant els for inorganic contaminants id fied in paragraph (b) of this section except fluoride:

BAT FOR INORGANIC COMPOUNDS LISTED SECTION 141.62(b)

Chemical Name	BA (s)
Antimity	2,7 1, 1,5, 6, 7, 9,
	125
Asbestos	2,3,8
Barium	5,6,7,9
Beryllium	1,2,5,6,7
Cadmium	2,5,6,7
Chromium	2,5,62,7
Cyanide	5,7,13
Mercury	21,4,61,71
Nickel	5,6,7
Nitrate	5,7,9
Nitrite	5,7
Selenium	1,23,6,7,9
Thallium	1,5

least 20:1.

¹ BAT only if influent Hg α nce trations ≤10μg/1.
² BAT for Chromium III only.
³ BAT for Selenium IV only.
⁴ BATs for Arsenic V. Pre-α nation may be requivert Arsenic III to Arsenic V.
⁵ To obtain high removaly, iron to arsenic ratio least 20:1. tion may be required to cono arsenic ratio must be at

BATS in Table $Key t_i$

- amina. 1 = Activated A
- BAT for sys-/Filtration (no 2 = Coagulatio tems < 500 s rvice connection
- 3 = Direct an Diatomite Filtrat
- Activated Carbon 4 = Granular
- 5 = Ion Exg lange
- Softening (not BAT for vice connections) 6 = Limesystems <500 se
- 7 = Revrse Osmosis
- osion Control 8 = Cor
- ctrodialysis 9 = E1
- 10 = hlorine
- 11 = Ultraviolet
- Oxidation/Filtration
- Alkaline Chlorination (pH ≥8.5)
- (d) The Administrator, pursuant to section 1412 of the Act, hereby identifies in the following table the affordable technology, treatment technique, or other means available to systems serving 10,000 persons or fewer for achieving compliance with the maximum contaminant level for arsenic:

SMALL SYSTEM COMPLIANCE TECHNOLOGIES (SSCTs) 1 FOR ARSENIC 2

Small system compliance technology	Affordable for listed small system categories ³
Activated Alumina (central- ized).	Ali size categories.
Activated Alumina (Point-of- Use) 4.	All size categories.
Coagulation/Filtration 5	501-3,300, 3,301-10,000.
Coagulation-assisted Micro- filtration.	501-3,300, 3,301-10,000.
Electrodíalysis reversal 6	501-3,300, 3,301-10,000.
Enhanced coagulation/filtra- tion.	All size categories
Enhanced lime softening (pH> 10.5).	All size categories.
lon Exchange	All size categories.
Lime Softening 5	501-3,300, 3,301-10,000.
Oxidation/Filtration 7	All size categories.
Reverse Osmosis (central- ized) ⁸ .	501–3,300, 3,301–10,000.
Reverse Osmosis (Point-of- Use) 4.	All size categories.

Use) 4.

1 Section 1412(b)(4)(E)(ii) of SDWA specifies that SSCTs must be affortable and technically feasible for small systems.
2 SSCTs for Arsenic V. Pre-oxidation may be required to convert Arsenic III to Arsenic V.
3 The Act (bibd.) secifies three categories of small systems:
(i) those serving 25 or more, but fewer than 501, (ii) those serving more than 500, but fewer than 13,001, and (iii) those serving more than 3,000, but fewer than 10,001.

4 When POU or POE devices are used for compliance, programs to ensure proper long-term operation, maintenance, and monitoring must be provided by the water system to ensure adequate performance.

5 Unlikely to be installed solely for arsenic removal. May require pH adjustment to optimal range if high removals are needed.

6 Technologies reject a large volume of water—may not be appropriate for areas where water quantity may be an issue.

7 To obtain high removals, iron to arsenic ratio must be at least 20:1.

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