Primary Contaminants

Method 524.2-Volatile Organic Compounds

Analyte	Detection Limit > mg/L	Maximum Contaminant Level mg/L	Maximum Contaminant Level µg/L
Vinyl Chloride	0.0005	0.002	2
Benzene	0.0005	0.005	5
Carbon Tetrachloride	0.0005	0.005	5
1,4-Dichloroethane	0.0005*	0.005	5
Trichloroethylene	0.0005*	0.005	5
para-Dichlorobenzene/1,4-Dichlorobenzene	0.0005	0.075	75
1,1-Dichloroethylene/1,1-Dichloroethene	0.0005*	0.007	7
1,1,1-Trichloroethane	0.0005*	0.2	200
cis-1,2-Dichloroethylene	0.0005*	0.07	70
1,2-Dichloropropane	0.0005	0.005	5
Ethyl Benzene	0.0005	0.7	700
(Mono) Chlorobenzene	0.0005	0.1	100
ortho-Dichlorobenzene/1,2-Dichlorobenzene	0.0005	0.6	600
Styrene	0.0005	0.1	100
Tetrachloroethene	0.0005*	0.005	5
Toluene	0.0005	1	1000
trans-1,2-Dichloroethylene	0.0005*	0.1	100
Xylene (Total)	0.0005	10	10000
Dichloromethane	0.0005	0.005	5
1,2,4-Trichlorobenzene	0.0005	0.07	70
1,1,2-Trichloroethane	0.0005	0.005	5

(*) Detection requires Vinyl Chloride sampling
Sampling Results (>) Requires quarterly sampling

Inorganics

Analyte	Detection Limit ≥ mg/L	Maximum Contaminant Level mg/L	Maximum Contaminant Level µg/L
Antimony	0.003	0.006	6
Arsenic	0.001	0.01	10
Asbestos	0.01 MFL	7 MFL	
Barium	0.002	2	2000
Beryllium	0.0002	0.004	4
Cadmium	0.0001	0.005	5
Chromium (total)	0.001	0.1	100
Copper	1.3	1.3	1300
Cyanide (as free)	0.05	0.2	200
Fluoride	2	4	4000
Lead	0.015	0.015	15
Mercury (inorganic)	0.0002	0.002	2
Nitrate(as Nitrogen)	0.004	10	10000
Nitrite(as Nitrogen)	0.004	1	1000
Selenium	0.002	0.05	50
Thallium	0.0005	0.002	2

Results ≥ requires confirmation sample within 14 days

RADs

Analyte	Detection Limit pCi/L	Maximum Contaminant Level pCi/L
Gross Alpha particles	3	15
Radium 226	1	
Radium 228	1	
Combined Radium (226+228)	0.002	5
Uranium	0.0002	30 µg/L

Method 525.2-Semivolatile Organic Compounds

Analyte	Detection Limit ≥ mg/L	Maximum Contaminant Level mg/L	Maximum Contaminant Level µg/L
Alchlor	0.0002	0.002	2
Aldicarb	0.0005	0.003	3
Aldicarb Sulfoxide	0.0005	0.004	4
Aldicarb Sulfone	0.0008	0.002	2
Atrazine	0.0001	0.003	3
Carbofuran	0.0009	0.04	40
Chlordane	0.0002	0.002	2
1,2-Dibromo-3-chloropropane (DBCP)	0.00002	0.0002	0.2
2,4-D	0.0001	0.07	70
Ethylene Dibromide (EDB)	0.00001	0.00005	0.05
Heptachlor	0.00004	0.0004	0.4
Heptachlor Epoxide	0.00002	0.0002	0.2
Lindane	0.00002	0.0002	0.2
Methoxychlor	0.0001	0.04	40
Polychlorinated biphenyls (PCBs)	0.0001	0.0005	0.5
Pentachlorophenol	0.00004	0.001	1
Toxaphene	0.001	0.003	3
2,4,5-TP (Silvex)	0.0002	0.05	50
Benzo(a)pyrene (PAHs)	0.00002	0.0002	0.2
Dalaphon	0.001	0.2	200
Di(2-ethylhexyl)adipate	0.0006	0.4	400
Di(2-ethylhexyl)phthalate	0.0006	0.006	6
Dinoseb	0.0002	0.007	7
Diquat	0.0004	0.02	20
Endothall	0.009	0.1	100
Endrin	0.00001	0.002	2
Glyphosate	0.006	0.7	700
Hexachlorobenzene	0.0001	0.001	1
Hexachlorocyclopentadiene	0.0001	0.05	50
Oxamyl (Vydate)	0.002	0.2	200
Picloram	0.0001	0.5	500
Simazine	0.00007	0.004	4
Dioxin (2,3,7,8-TCDD)	5e-9	$3X10^{-8}$	0.00003

Results (≥) requires quarterly sampling

Disinfections By-Products (DBPs)

Analyte	MCL mg/L
Chlorine	4
Total Trihalomethanes (TTHMs)	0.08
Chloroform	
Bromodichloromethane	
Dibromochloromethane	
Bromoform	
Haloacetic Acids (HAA5)	0.06
Monochloroacetic Acid	
Dichloroacetic Acid	
Trichloroacetic Acid	
Bromoacetic Acid	
Dibromoacetic Acid	

Secondary Contaminants

Contaminant	2° MCL (mg/L)	Noticeable effects above the 2° MCL
Aluminum	0.05 to 0.2	Colored water
Chloride	250	Salty taste
Color	15 color units	Visible tint
Copper	1	Metallic taste; blue-green staining
Corrosivity	Non-corrosive	Metallic taste; corroded pipes/fixture staining
Fluoride	2	Tooth discoloration
Foaming agents	0.5	Frothy, cloudy, bitter taste, odor
Iron	0.3	Rusty color, sediment, metallic taste, reddish/orange staining
Manganese	0.05	Black to brown color, black staining, bitter metallic taste
Odor	3 TON (threshold odor number)	"rotten-egg", musty or chemical smell
pH	6.5-8.5	Low pH: bitter metallic taste; corrosion High pH: slippery feel, soda taste, deposits
Silver	0.1	Skin discoloration; graying of the white part of the eye
Sulfate	250	Salty taste
Total Dissolved Solids (TDS)	500	Hardness; deposits; colored water; staining; salty taste
Zinc	5	Metallic taste