



## 2023 Distribution System Water Quality

Results below include additional monitoring beyond what is required, and therefore some summary statistics may differ from what must be reported in our Annual Water Quality Report (also known as a Consumer Confidence Report). These samples were analyzed by the Milwaukee Water Works and an external laboratory in 2023.

MRL = Minimum reporting limit (lowest concentration that a lab can accurately report for a method)

\*If more than one method/lab was used or the MRL changed during the year, the highest MRL is listed.

--- indicates the result was below the detection limit.

### General Chemistry

Analyte	Regulatory Limit	Detected Above MRL?	Min	Median	Max	MRL*	Units
Alkalinity	N/A	Yes	94.7	103	119	20	mg/L as CaCO <sub>3</sub>
Ammonia	N/A	Yes	0.03	0.26	0.38	0.10	mg/L
Bromide	N/A	Yes	12.7	18.4	25.0	10.0	µg/L
Chlorate	N/A	Yes	80.3	184	333	10	µg/L
Chloride	250	Yes	15.2	16.3	26.3	2.0	mg/L
Chlorite	1000	No	0.81	1.91	9.81	10	µg/L
Color (Apparent)	15	No	3	3	3	3	Pt/Co Units
Color (True)	15	No	3	3	3	3	Pt/Co Units
Conductivity	N/A	Yes	247	307	388	10	µS/cm
Cyanide, Total	0.2	No	---	---	---	0.005	mg/L
Dissolved oxygen	N/A	Yes	6.04	13.38	18.00	0	mg/L
Fluoride	4	Yes	0.08	0.61	0.69	0.14	mg/L
Hardness, calcium	N/A	Yes	83	91	109	0.25	mg/L
Hardness, magnesium	N/A	Yes	48.60	48.80	49.00	0.66	mg/L
Hardness, total	N/A	Yes	130	137	156	0.66	mg/L
Nitrate	10	Yes	0.25	0.32	0.48	0.10	mg/L
Nitrite	1	Yes	---	0.008	0.171	0.010	mg/L
Oxidation Reduction Potential	N/A	Yes	208	459	598	N/A	mV
Ortho-phosphate	N/A	Yes	1.20	1.76	2.92	0.48	mg/L
Perchlorate	N/A	Yes	0.14	0.15	0.15	0.05	µg/L
pH	6.5-8.5	Yes	7.36	7.64	7.96	0.10	SU
Solids, Suspended	N/A	No	---	---	---	10	mg/L
Solids, Total	N/A	Yes	191	195	198	10	mg/L
Sulfate	250	Yes	25.68	27.41	44.00	5.00	mg/L
Total Organic Carbon	N/A	Yes	1.33	1.46	1.73	0.50	mg/L
Turbidity	N/A	Yes	0.04	0.21	4.57	0.10	NTU

## 2023 Distribution System Water Quality

### Disinfection By-Products

Analyte	Regulatory Limit	Detected	Min	Median	Max	MRL*	Units
		Above MRL?					
1,1,1-Trichloro-2-propanone	N/A	Yes	---	0.35	0.70	0.51	µg/L
1,1-Dichloro-2-propanone	N/A	Yes	---	---	0.68	0.51	µg/L
Bromate	10**	Yes	---	4.57	11.50	5.00	µg/L
Bromochloroacetic acid	N/A	Yes	---	---	1.40	1.00	µg/L
Bromochloroacetonitrile	N/A	Yes	---	0.52	0.66	0.51	µg/L
Bromodichloroacetic acid	N/A	Yes	---	1.20	1.90	1.00	µg/L
Bromodichloromethane	N/A	Yes	1.90	3.00	4.90	0.50	µg/L
Bromoform	N/A	Yes	0.00	0.39	0.74	0.50	µg/L
Chlorodibromoacetic acid	N/A	No	---	---	1.40	2.00	µg/L
Chloroform	N/A	Yes	1.40	2.65	5.90	0.50	µg/L
Chloropicrin	N/A	Yes	0.00	0.00	0.67	0.51	µg/L
Dibromoacetic acid	N/A	No	---	---	0.86	1.00	µg/L
Dibromoacetonitrile	N/A	Yes	0.00	0.50	0.99	0.51	µg/L
Dibromochloromethane	N/A	Yes	0.54	2.20	3.50	0.50	µg/L
Dichloroacetic acid	N/A	Yes	0.00	1.10	2.40	1.00	µg/L
Dichloroacetonitrile	N/A	Yes	0.00	0.43	0.84	0.51	µg/L
Monobromoacetic acid	N/A	No	---	---	---	1.00	µg/L
Monochloroacetic Acid	N/A	No	---	---	---	2.00	µg/L
Total Haloacetic Acids 5	60	Yes	0.00	0.00	4.46	2.00	µg/L
Tribromoacetic acid	N/A	No	---	---	1.40	4.00	µg/L
Trichloroacetic Acid	N/A	Yes	0.00	0.00	1.20	1.00	µg/L
Trichloroacetonitrile	N/A	No	---	---	---	0.50	µg/L
Trihalomethanes, Total	80	Yes	4.90	8.11	13.95	0.50	µg/L

\*\*Regulated based on a running average, not individual results.

### Aldehydes

Analyte	Regulatory Limit	Detected	Min	Median	Max	MRL*	Units
		Above MRL?					
Acetaldehyde	N/A	Yes	---	---	11.00	5.10	µg/L
Benzaldehyde	N/A	No	---	---	---	5.10	µg/L
Butanal	N/A	No	---	---	---	5.10	µg/L
Crotonaldehyde	N/A	No	---	---	---	5.10	µg/L
Cyclohexanone	N/A	No	---	---	---	5.10	µg/L
Decanal	N/A	No	---	---	---	5.10	µg/L
Formaldehyde	N/A	No	---	---	2.40	5.10	µg/L
Glyoxal	N/A	Yes	---	---	6.50	5.10	µg/L

Heptanal	N/A	No	---	---	---	5.10	µg/L
Hexanal	N/A	No	---	---	---	5.10	µg/L
Methyl glyoxal	N/A	No	---	---	---	5.10	µg/L
Nonanal	N/A	No	---	---	---	5.10	µg/L
Octanal	N/A	No	---	---	---	5.10	µg/L
Pentanal	N/A	No	---	---	---	5.10	µg/L
Propanal	N/A	No	---	---	---	5.10	µg/L

## Metals

Analyte	Regulatory Limit	Detected Above MRL?	Min	Median	Max	MRL*	Units
Aluminum	50-200	Yes	87.50	94.25	101.00	2.00	µg/L
Antimony	6	No	0.16	0.17	0.17	1.00	µg/L
Arsenic	10	No	---	---	---	1.00	µg/L
Barium	2000	Yes	18.30	18.55	18.80	2.00	µg/L
Beryllium	4	No	---	---	---	0.30	µg/L
Boron	N/A	Yes	22.40	22.40	22.40	5.00	µg/L
Cadmium	5	No	---	---	---	0.50	µg/L
Calcium	N/A	Yes	33.20	33.35	33.50	0.10	mg/L
Cerium	N/A	No	---	---	---	1.00	µg/L
Cesium	N/A	No	---	---	---	1.00	µg/L
Chromium	100	Yes	0.90	0.93	0.95	0.90	µg/L
Chromium, Hexavalent	N/A	Yes	0.11	0.16	0.18	0.02	µg/L
Cobalt	N/A	No	---	---	---	2.00	µg/L
Copper	1300	Yes	1.10	1.15	1.20	1.00	µg/L
Dysprosium	N/A	No	---	---	---	1.00	µg/L
Erbium	N/A	No	---	---	---	1.00	µg/L
Europium	N/A	No	---	---	---	1.00	µg/L
Gadolinium	N/A	No	---	---	---	1.00	µg/L
Gallium	N/A	No	0.26	0.27	0.27	1.00	µg/L
Germanium	N/A	No	---	---	---	1.00	µg/L
Gold	N/A	No	---	---	---	1.00	µg/L
Hafnium	N/A	No	---	---	---	1.00	µg/L
Holmium	N/A	No	---	---	---	1.00	µg/L
Iron	300	No	---	---	---	0.01	mg/L
Lanthanum	N/A	No	---	---	---	1.00	µg/L
Lead	15	No	---	---	---	0.50	µg/L
Lithium	N/A	Yes	2.10	2.15	2.20	2.00	µg/L
Lutetium	N/A	No	---	---	---	1.00	µg/L
Magnesium	N/A	Yes	11.80	11.80	11.80	0.10	mg/L
Manganese	50	No	---	---	---	2.00	µg/L
Mercury	2	No	---	---	---	0.10	µg/L
Molybdenum	N/A	No	0.96	0.97	0.98	2.00	µg/L
Neodymium	N/A	No	---	---	---	1.00	µg/L
Nickel	N/A	No	---	---	---	1.00	µg/L

Niobium	N/A	No	---	---	---	1.00	µg/L
Osmium	N/A	No	---	---	---	1.00	µg/L
Palladium	N/A	No	---	---	---	1.00	µg/L
Phosphorus	N/A	Yes	520.00	540.00	560.00	50.00	µg/L
Platinum	N/A	No	---	---	---	1.00	µg/L
Potassium	N/A	Yes	1.50	1.50	1.50	0.20	mg/L
Praseodymium	N/A	No	---	---	---	1.00	µg/L
Rhenium	N/A	No	---	---	---	1.00	µg/L
Rhodium	N/A	No	---	---	---	1.00	µg/L
Rubidium	N/A	Yes	1.10	1.15	1.20	1.00	µg/L
Ruthenium	N/A	No	---	---	---	1.00	µg/L
Samarium	N/A	No	---	---	---	1.00	µg/L
Selenium	50	No	---	---	---	2.00	µg/L
Silica, Total	N/A	Yes	1.70	1.90	2.10	0.04	mg/L
Silver	100	No	---	---	---	0.50	µg/L
Sodium	N/A	Yes	9.80	9.85	9.90	0.10	mg/L
Strontium	N/A	Yes	117.00	117.00	117.00	2.00	µg/L
Tantalum	N/A	No	---	---	---	1.00	µg/L
Tellurium	2	No	---	---	---	1.00	µg/L
Thallium	N/A	No	---	---	---	0.30	µg/L
Thorium	N/A	No	---	---	---	1.00	µg/L
Thulium	N/A	No	---	---	---	1.00	µg/L
Tin	N/A	No	---	---	---	1.00	µg/L
Titanium	N/A	No	---	---	---	5.00	µg/L
Tungsten	N/A	No	---	---	---	1.00	µg/L
Uranium	30	No	0.30	0.31	0.31	1.00	µg/L
Vanadium	N/A	No	---	---	---	2.00	µg/L
Ytterbium	N/A	No	---	---	---	1.00	µg/L
Zinc	5000	No	---	---	---	5.00	µg/L
Zirconium	N/A	No	---	---	---	1.00	µg/L

## Nitrosamines

Analyte	Regulatory Limit	Detected Above MRL?	Min	Median	Max	MRL*	Units
N-Nitrosodiethylamine (NDEA)	N/A	Yes	---	---	0.0021	0.0020	µg/L
N-Nitrosodimethylamine (NDMA)	N/A	No	---	---	0.0094	0.0020	µg/L
N-Nitrosodi-N-butylamine (NDBA)	N/A	Yes	---	---	0.0045	0.0020	µg/L
N-Nitrosodi-N-propylamine (NDPA)	N/A	No	---	---	---	0.0020	µg/L
N-Nitrosodiphenylamine (NDPhA)	N/A	No	---	---	0.0027	0.0200	µg/L
N-Nitrosomethylethylamine (NMEA)	N/A	No	---	---	---	0.002	µg/L
N-Nitrosomorpholine (NMOR)	N/A	No	---	---	0.0004	0.0020	µg/L

N-Nitrosopiperidine (NPIP)	N/A	No	---	---	---	0.0020	µg/L
N-Nitrosopyrrolidine (NPYR)	N/A	No	---	---	---	0.0020	µg/L

### Per & Polyfluorinated Alkyl Substances (PFAS)

Analyte	Regulatory Limit	Detected Above MRL?	Min	Median	Max	MRL*	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	N/A	No	---	---	---	2.00	ng/L
4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N/A	No	---	---	---	2.00	ng/L
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N/A	No	---	---	---	2.00	ng/L
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N/A	No	---	---	---	2.00	ng/L
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N/A	No	---	---	---	2.00	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	N/A	No	---	---	---	2.00	ng/L
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10/HI***	No	---	---	---	2.00	ng/L
N-ethylperfluorooctanesulfonamidoacetic acid	N/A	No	---	---	---	2.00	ng/L
N-methylperfluorooctanesulfonamidoacetic acid	N/A	No	---	---	---	2.00	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N/A	No	---	---	---	2.00	ng/L
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	N/A	No	---	---	---	2.00	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	N/A	No	---	---	---	2.00	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	N/A	No	---	---	---	2.00	ng/L
Perfluorobutanesulfonic acid (PFBS)	HI***	No	---	---	0.43	2.00	ng/L
Perfluorobutanoic acid (PFBA)	N/A	Yes	1.80	1.95	2.10	2.00	ng/L
Perfluorodecanoic acid (PFDA)	N/A	No	---	---	---	2.00	ng/L
Perfluorododecanoic acid (PFDoA)	N/A	No	---	---	---	2.00	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	N/A	No	---	---	---	2.00	ng/L
Perfluoroheptanoic acid (PFHpA)	N/A	No	1.00	1.10	1.20	2.00	ng/L
Perfluorohexanesulfonic acid (PFHxS)	10/HI***	No	0.70	0.75	0.80	2.00	ng/L
Perfluorohexanoic acid (PFHxA)	N/A	No	1.40	1.45	1.60	2.00	ng/L
Perfluorononanoic acid (PFNA)	10/HI***	No	---	---	0.38	2.00	ng/L
Perfluorooctanesulfonic acid (PFOS)	4*** (70)	Yes	2.00	2.25	2.50	2.00	ng/L
Perfluorooctanoic acid (PFOA)	4*** (70)	Yes	2.20	2.35	2.40	2.00	ng/L
Perfluoropentanesulfonic acid (PFPeS)	N/A	No	---	---	---	2.00	ng/L
Perfluoropentanoic acid (PFPeA)	N/A	No	1.30	1.35	1.40	2.00	ng/L
Perfluorotetradecanoic acid (PFTeDA)	N/A	No	---	---	---	2.00	ng/L

Perfluorotridecanoic acid (PFTrDA or PFTRIa)	N/A	No	---	---	---	2.00	ng/L
Perfluoroundecanoic acid (PFUnA)	N/A	No	---	---	---	2.00	ng/L
4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N/A	No	---	---	---	2.00	ng/L

\*\*\*New regulation announced in 2024 (not in effect yet). HI refers to regulation of a mixture of compounds using a hazard index. (70) is Wisconsin regulation applying in 2023.

### Pharmaceuticals and Personal Care Products

Analyte	Regulatory Limit	Detected				MRL*	Units
		Above MRL?	Min	Median	Max		
17a-Estradiol	N/A	No	---	---	---	0.005	µg/L
17a-Ethynyl estradiol	N/A	No	---	---	---	0.010	µg/L
4-Nonylphenol	N/A	No	---	---	---	0.200	µg/L
4-Phenylphenol	N/A	No	---	---	---	0.050	µg/L
4-tert-Octylphenol	N/A	No	---	---	---	0.020	µg/L
Acesulfame-K	N/A	No	0.005	0.006	0.008	0.020	µg/L
Acetaminophen	N/A	No	---	---	---	0.02	µg/L
Amoxicillin	N/A	No	---	---	---	1.00	µg/L
Androstenedione	N/A	No	---	---	---	0.005	µg/L
Antipyrine	N/A	No	---	---	---	0.005	µg/L
Atenolol	N/A	No	---	---	---	0.005	µg/L
Azithromycin	N/A	No	---	---	---	0.010	µg/L
Bezafibrate	N/A	No	---	---	---	0.005	µg/L
Bisphenol A	N/A	No	0.007	0.008	0.009	0.020	µg/L
Caffeine	N/A	No	---	---	---	0.010	µg/L
Carbadox	N/A	No	---	---	---	0.005	µg/L
Carbamazepine	N/A	No	---	---	---	0.005	µg/L
Chloramphenicol	N/A	No	---	---	---	0.005	µg/L
Cimetidine	N/A	No	---	---	---	0.005	µg/L
Clofibric acid	N/A	No	---	---	---	0.005	µg/L
Codeine	N/A	No	---	---	---	0.005	µg/L
Cotinine	N/A	No	---	---	---	0.005	µg/L
DEET	N/A	No	---	---	---	0.010	µg/L
Dexamethasone	N/A	No	---	---	---	0.005	µg/L
Diazepam	N/A	No	---	---	---	0.005	µg/L
Diclofenac acid	N/A	No	---	---	---	0.005	µg/L
Diethylstilbestrol (DES)	N/A	No	---	---	---	0.010	µg/L
Dilantin	N/A	No	---	---	---	0.010	µg/L
Diltiazem	N/A	No	---	---	---	0.010	µg/L
Diphenhydramine	N/A	No	---	---	---	0.005	µg/L
Epitestosterone	N/A	No	---	---	---	0.005	µg/L
Equilin	N/A	No	---	---	---	0.010	µg/L
Erythromycin	N/A	No	---	---	---	0.020	µg/L
Estradiol	N/A	No	---	---	---	0.010	µg/L

Estriol	N/A	No	---	---	---	0.010	µg/L
Estrone	N/A	No	---	---	---	0.005	µg/L
Fluoxetine (Prozac)	N/A	No	---	---	---	0.005	µg/L
Gemfibrozil	N/A	No	---	---	---	0.005	µg/L
Ibuprofen	N/A	No	---	---	---	0.020	µg/L
Iohexol	N/A	No	0.024	0.029	0.033	0.050	µg/L
Iopromide	N/A	No	0.005	0.006	0.008	0.010	µg/L
Levothyroxine (Synthroid)	N/A	No	---	---	---	0.020	µg/L
Lincomycin	N/A	No	---	---	---	0.005	µg/L
Meprobamate	N/A	No	---	---	---	0.005	µg/L
Metformin	N/A	No	---	---	---	0.020	µg/L
Monensin	N/A	No	---	---	---	0.005	µg/L
Naproxen	N/A	No	---	---	---	0.020	µg/L
Narasin	N/A	No	---	---	---	0.020	µg/L
Nicotine	N/A	No	---	---	---	0.400	µg/L
Oleandomycin	N/A	No	---	---	---	0.005	µg/L
Paraxanthine	N/A	No	---	---	---	0.020	µg/L
Penicillin G	N/A	No	---	---	---	0.010	µg/L
Penicillin V	N/A	No	---	---	---	0.010	µg/L
Pentachlorophenol	N/A	No	---	---	---	0.050	µg/L
Prednisone	N/A	No	---	---	---	0.005	µg/L
Primidone	N/A	No	---	---	---	0.005	µg/L
Progesterone	N/A	No	---	---	---	0.005	µg/L
Quinoline	N/A	No	---	---	---	0.050	µg/L
Roxithromycin	N/A	No	---	---	---	0.005	µg/L
Salicylic acid	N/A	No	---	---	---	0.200	µg/L
Salinomycin	N/A	No	---	---	---	0.020	µg/L
Sucralose	N/A	No	0.055	0.067	0.079	0.100	µg/L
Sulfadiazine	N/A	No	---	---	---	0.005	µg/L
Sulfadimethoxine	N/A	No	---	---	---	0.005	µg/L
Sulfamerazine	N/A	No	---	---	---	0.010	µg/L
Sulfamethazine	N/A	No	---	---	---	0.005	µg/L
Sulfamethizole	N/A	No	---	---	---	0.010	µg/L
Sulfamethoxazole	N/A	No	---	---	---	0.010	µg/L
Sulfasalazine	N/A	No	---	---	---	0.050	µg/L
Sulfathiazole	N/A	No	---	---	---	0.005	µg/L
TCDPP	N/A	No	---	---	---	0.400	µg/L
TCEP (Tris(chloropropyl) phosphate)	N/A	No	---	---	---	0.010	µg/L
TCPP (Tris(2-chloroisopropyl)phosphate)	N/A	No	---	---	---	0.400	µg/L
Testosterone	N/A	No	---	---	---	0.005	µg/L
Tetrabromobisphenol A	N/A	No	---	---	---	0.050	µg/L
Theobromine	N/A	No	---	---	---	0.400	µg/L
Theophylline	N/A	No	---	---	---	0.020	µg/L
Trichlorophenols, Total	N/A	No	---	---	---	0.100	µg/L
Triclocarban	N/A	No	---	---	---	0.050	µg/L

Triclosan	N/A	No	---	---	---	0.050	µg/L
Trimethoprim	N/A	No	---	---	---	0.005	µg/L
Tylosin	N/A	No	---	---	---	0.005	µg/L
Virginiamycin M1	N/A	No	---	---	---	0.005	µg/L

### Semi-Volatile Organic Compounds

Analyte	Regulatory Limit	Detected Above MRL?	Min	Median	Max	MRL*	Units
1,2,4,5-Tetrachlorobenzene	N/A	No	---	---	---	0.99	µg/L
1-Methylnaphthalene	N/A	No	---	---	---	0.10	µg/L
1-Napththol	N/A	No	---	---	---	1.00	µg/L
2,2',3,3',4,4',6-Heptachlorobiphenyl	N/A	No	---	---	---	0.49	µg/L
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	N/A	No	---	---	---	0.49	µg/L
2,2',3',4,6-Pentachlorobiphenyl	N/A	No	---	---	---	0.10	µg/L
2,2',4,4',5,6'-Hexachlorobiphenyl	N/A	No	---	---	---	0.10	µg/L
2,2',4,4'-Tetrachlorobiphenyl	N/A	No	---	---	---	0.10	µg/L
2,3-Dichlorobiphenyl	N/A	No	---	---	---	0.10	µg/L
2,4,5-TP (Silvex)	50	No	---	---	---	0.10	µg/L
2,4,5-Trichlorobiphenyl	N/A	No	---	---	---	0.01	µg/L
2,4-D	70	No	---	---	---	0.10	µg/L
2,4-Dinitrotoluene	N/A	No	---	---	---	0.49	µg/L
2,6-Dinitrotoluene	N/A	No	---	---	---	0.49	µg/L
2-Chlorobiphenyl	N/A	No	---	---	---	0.10	µg/L
2-Methylnaphthalene	N/A	No	---	---	---	0.10	µg/L
3-Hydroxycarbofuran	N/A	No	---	---	---	0.50	µg/L
4,4'-DDD	N/A	No	---	---	---	0.10	µg/L
4,4'-DDE	N/A	No	---	---	---	0.10	µg/L
4,4'-DDT	N/A	No	---	---	---	0.10	µg/L
Acenaphthene	N/A	No	---	---	---	0.10	µg/L
Acenaphthylene	N/A	No	---	---	---	0.10	µg/L
Acetochlor	N/A	No	---	---	---	0.10	µg/L
Alachlor	2	No	---	---	---	0.10	µg/L
Aldicarb	N/A	No	---	---	---	0.50	µg/L
Aldicarb sulfone	N/A	No	---	---	---	0.70	µg/L
Aldicarb sulfoxide	N/A	No	---	---	---	0.50	µg/L
Aldrin	N/A	No	---	---	---	0.10	µg/L
alpha-BHC	N/A	No	---	---	---	0.10	µg/L
alpha-Chlordane	N/A	No	---	---	---	0.10	µg/L
Ametryn	N/A	No	---	---	---	0.10	µg/L
Anilazine	N/A	No	---	---	---	0.99	µg/L
Anthracene	N/A	No	---	---	---	0.10	µg/L
Aspon	N/A	No	---	---	---	0.10	µg/L



Atraton	N/A	No	---	---	---	0.10	µg/L
Atrazine	3	No	0.01	0.02	0.02	0.10	µg/L
Azinphos-ethyl	N/A	No	---	---	---	0.49	µg/L
Azinphos-methyl	N/A	No	---	---	---	0.49	µg/L
Bendiocarb	N/A	No	---	---	---	0.49	µg/L
Benfluralin	N/A	No	---	---	---	0.10	µg/L
Benzo(a)anthracene	N/A	No	---	---	---	0.10	µg/L
Benzo(a)pyrene	0.2	No	---	---	---	0.02	µg/L
Benzo(b)fluoranthene	N/A	No	---	---	---	0.10	µg/L
Benzo(g,h,i)perylene	N/A	No	---	---	---	0.10	µg/L
Benzo(k)fluoranthene	N/A	No	---	---	---	0.10	µg/L
beta-BHC	N/A	No	---	---	---	0.10	µg/L
Bolstar	N/A	No	---	---	---	0.10	µg/L
Bromacil	N/A	No	---	---	---	0.10	µg/L
Butachlor	N/A	No	---	---	---	0.10	µg/L
Butylate	N/A	No	---	---	---	0.10	µg/L
Butylbenzylphthalate	N/A	No	---	---	---	0.99	µg/L
Carbaryl	N/A	No	---	---	---	0.50	µg/L
Carbofuran	40	No	---	---	---	0.90	µg/L
Carbophenothion	N/A	No	---	---	---	0.49	µg/L
Carboxin	N/A	No	---	---	---	0.10	µg/L
Chlordane	2	No	---	---	---	0.10	µg/L
Chlorfenvinphos	N/A	No	---	---	---	4.90	µg/L
Chlorobenzilate	N/A	No	---	---	---	0.10	µg/L
Chloroneb	N/A	No	---	---	---	0.10	µg/L
Chloropropylate	N/A	No	---	---	---	0.10	µg/L
Chlorothalonil	N/A	No	---	---	---	0.10	µg/L
Chlorpropham	N/A	No	---	---	---	0.10	µg/L
Chlorpyrifos	N/A	No	---	---	---	0.10	µg/L
Chlorpyrifos methyl	N/A	No	---	---	---	0.49	µg/L
Chrysene	N/A	No	---	---	---	0.10	µg/L
cis-Nonachlor	N/A	No	---	---	---	0.10	µg/L
cis-Permethrin	N/A	No	---	---	---	0.10	µg/L
Clomazone	N/A	No	---	---	---	0.10	µg/L
Coumaphos	N/A	No	---	---	---	0.10	µg/L
Crotoxyphos	N/A	No	---	---	---	0.49	µg/L
Cyanazine	N/A	No	---	---	---	0.10	µg/L
Cycloate	N/A	No	---	---	---	0.10	µg/L
Dalapon	200	No	---	---	---	1.00	µg/L
DCPA	N/A	No	---	---	---	0.10	µg/L
delta-BHC	N/A	No	---	---	---	0.10	µg/L
Demeton-O	N/A	No	---	---	---	0.49	µg/L
Demeton-S	N/A	No	---	---	---	0.49	µg/L
Desethylatrazine	N/A	No	0.03	0.03	0.03	0.99	µg/L
Desisopropylatrazine	N/A	No	---	---	---	0.99	µg/L
Di(2-ethylhexyl)adipate	6	No	---	---	---	0.59	µg/L
Di(2-ethylhexyl)phthalate	400	No	---	---	---	0.59	µg/L

Diazinon	N/A	No	---	---	---	0.10	µg/L
Dibenzo(a,h)anthracene	N/A	No	---	---	---	0.10	µg/L
Dicamba	N/A	No	---	---	---	0.10	µg/L
Dichlobenil	N/A	No	---	---	---	0.10	µg/L
Dichlofenthion	N/A	No	---	---	---	0.10	µg/L
Dichloran	N/A	No	---	---	---	0.49	µg/L
Dichlorvos	N/A	No	---	---	---	0.10	µg/L
Dicrotophos	N/A	No	---	---	---	0.49	µg/L
Dieldrin	N/A	No	---	---	---	0.10	µg/L
Diethylphthalate	N/A	No	---	---	---	0.99	µg/L
Dimethoate	N/A	No	---	---	---	0.49	µg/L
Dimethylphthalate	N/A	No	---	---	---	0.99	µg/L
Di-n-butyl phthalate	N/A	No	---	---	---	2.00	µg/L
Di-n-octyl phthalate	N/A	No	---	---	---	2.00	µg/L
Dinoseb	7	No	---	---	---	0.10	µg/L
Dioxathion	N/A	No	---	---	---	0.49	µg/L
Diphenamid	N/A	No	---	---	---	0.10	µg/L
Diquat	20	No	---	---	---	0.40	µg/L
Disulfoton	N/A	No	---	---	---	0.10	µg/L
Disulfoton sulfone	N/A	No	---	---	---	0.10	µg/L
Disulfoton sulfoxide	N/A	No	---	---	---	9.90	µg/L
Dyfonate (Fonofos)	N/A	No	---	---	---	0.10	µg/L
Endosulfan I	N/A	No	---	---	---	0.10	µg/L
Endosulfan II	N/A	No	---	---	---	0.10	µg/L
Endosulfan sulfate	N/A	No	---	---	---	0.10	µg/L
Endothall	100	No	---	---	---	5.00	µg/L
Endrin	2	No	---	---	---	0.01	µg/L
Endrin aldehyde	N/A	No	---	---	---	0.49	µg/L
E-Phosphamidon	N/A	No	---	---	---	0.49	µg/L
EPN	N/A	No	---	---	---	0.49	µg/L
EPTC	N/A	No	---	---	---	0.10	µg/L
Erucylamide	N/A	No	---	---	---	4.90	µg/L
Esfenvalerate	N/A	No	---	---	---	0.49	µg/L
Ethalfuralin	N/A	No	---	---	---	0.10	µg/L
Ethion	N/A	No	---	---	---	4.90	µg/L
Ethofumesate	N/A	No	---	---	---	0.49	µg/L
Ethoprop	N/A	No	---	---	---	0.10	µg/L
Etridiazole	N/A	No	---	---	---	0.10	µg/L
Famphur	N/A	No	---	---	---	0.10	µg/L
Fenamiphos	N/A	No	---	---	---	0.10	µg/L
Fenarimol	N/A	No	---	---	---	0.99	µg/L
Fenitrothion	N/A	No	---	---	---	0.49	µg/L
Fenoxaprop-ethyl	N/A	No	---	---	---	0.99	µg/L
Fensulfothion	N/A	No	---	---	---	0.49	µg/L
Fenthion	N/A	No	---	---	---	0.10	µg/L
Fluazifop-butyl	N/A	No	---	---	---	0.10	µg/L
Fluchloralin	N/A	No	---	---	---	0.10	µg/L

Fluometuron	N/A	No	---	---	---	0.49	µg/L
Fluoranthene	N/A	No	---	---	---	0.10	µg/L
Fluorene	N/A	No	---	---	---	0.10	µg/L
Fluridone	N/A	No	---	---	---	0.99	µg/L
gamma-BHC (Lindane)	0.2	No	---	---	---	0.02	µg/L
gamma-Chlordane	N/A	No	---	---	---	0.10	µg/L
Glyphosate	700	No	---	---	---	6.00	µg/L
Heptachlor	0.4	No	---	---	---	0.04	µg/L
Heptachlor epoxide	0.2	No	---	---	---	0.02	µg/L
Hexachlorobenzene	1	No	---	---	---	0.10	µg/L
Hexachlorocyclopentadiene	50	No	---	---	---	0.10	µg/L
Hexazinone	N/A	No	---	---	---	0.10	µg/L
Indeno(1,2,3-cd)pyrene	N/A	No	---	---	---	0.10	µg/L
Iprodione	N/A	No	---	---	---	0.49	µg/L
Isophenophos	N/A	No	---	---	---	0.49	µg/L
Isophorone	N/A	No	---	---	---	0.10	µg/L
Leptophos	N/A	No	---	---	---	0.49	µg/L
Malathion	N/A	No	---	---	---	0.10	µg/L
Metalaxyl	N/A	No	---	---	---	0.49	µg/L
Methomyl	N/A	No	---	---	---	0.50	µg/L
Methoxychlor	40	No	---	---	---	0.10	µg/L
Methyl paraoxon	N/A	No	---	---	---	0.49	µg/L
Methyl parathion	N/A	No	---	---	---	0.49	µg/L
Metolachlor	N/A	No	---	---	---	0.10	µg/L
Metribuzin	N/A	No	---	---	---	0.10	µg/L
Metsulfuron-methyl	N/A	No	---	---	---	9.90	µg/L
Mevinphos	N/A	No	---	---	---	0.10	µg/L
MGK 264 isomer a	N/A	No	---	---	---	0.10	µg/L
MGK 264 isomer b	N/A	No	---	---	---	0.10	µg/L
MGK 326	N/A	No	---	---	---	0.10	µg/L
Mirex	N/A	No	---	---	---	0.49	µg/L
Molinate	N/A	No	---	---	---	0.10	µg/L
Monocrotophos	N/A	No	---	---	---	0.49	µg/L
Naled	N/A	No	---	---	---	0.49	µg/L
Naphthalene	N/A	No	---	---	---	0.05	µg/L
Napropamide	N/A	No	---	---	---	0.10	µg/L
Norflurazon	N/A	No	---	---	---	0.99	µg/L
Oryzalin	N/A	No	---	---	---	9.90	µg/L
Oxadiazon	N/A	No	---	---	---	0.10	µg/L
Oxamyl	200	No	---	---	---	1.00	µg/L
Oxychlordane	N/A	No	---	---	---	0.10	µg/L
Oxyfluorfen	N/A	No	---	---	---	0.49	µg/L
Paraquat	N/A	No	---	---	---	0.40	µg/L
Parathion	N/A	No	---	---	---	0.49	µg/L
PCB-1016	N/A	No	---	---	---	0.08	µg/L
PCB-1221	N/A	No	---	---	---	0.10	µg/L
PCB-1232	N/A	No	---	---	---	0.10	µg/L

PCB-1242	N/A	No	---	---	---	0.10	µg/L
PCB-1248	N/A	No	---	---	---	0.10	µg/L
PCB-1254	N/A	No	---	---	---	0.10	µg/L
PCB-1260	N/A	No	---	---	---	0.10	µg/L
Pebulate	N/A	No	---	---	---	0.10	µg/L
Pendimethalin	N/A	No	---	---	---	0.10	µg/L
Pentachlorobenzene	N/A	No	---	---	---	0.49	µg/L
Pentachloronitrobenzene	N/A	No	---	---	---	0.49	µg/L
Pentachlorophenol	N/A	No	---	---	---	0.99	µg/L
Phenanthrene	N/A	No	---	0.006	0.012	0.10	µg/L
Phorate	N/A	No	---	---	---	0.10	µg/L
Phosmet	N/A	No	---	---	---	0.49	µg/L
Picloram	500	No	---	---	---	0.10	µg/L
Profluralin	N/A	No	---	---	---	0.10	µg/L
Prometon	N/A	No	---	---	---	0.99	µg/L
Prometryn	N/A	No	---	---	---	0.10	µg/L
Pronamide	N/A	No	---	---	---	0.10	µg/L
Propachlor	N/A	No	---	---	---	0.10	µg/L
Propanil	N/A	No	---	---	---	0.49	µg/L
Propazine	N/A	No	---	---	---	0.10	µg/L
Propiconazole a	N/A	No	---	---	---	4.90	µg/L
Propiconazole b	N/A	No	---	---	---	4.90	µg/L
Pyrene	N/A	No	---	---	---	0.10	µg/L
Simazine	4	No	---	---	---	0.07	µg/L
Simetryn	N/A	No	---	---	---	0.10	µg/L
Stirophos	N/A	No	---	---	---	0.10	µg/L
Sulfotepp	N/A	No	---	---	---	0.49	µg/L
Tebuthiuron	N/A	No	---	---	---	9.90	µg/L
TEPP	N/A	No	---	---	---	0.99	µg/L
Terbacil	N/A	No	---	---	---	0.10	µg/L
Terbufos	N/A	No	---	---	---	0.49	µg/L
Terbutryn	N/A	No	---	---	---	0.10	µg/L
Thiabendazole	N/A	No	---	---	---	9.90	µg/L
Thiobencarb	N/A	No	---	---	---	0.10	µg/L
Thionazin	N/A	No	---	---	---	0.49	µg/L
Tokuthion (Prothiofos)	3	No	---	---	---	0.49	µg/L
Total PCBs as DCB	N/A	No	---	---	---	0.10	µg/L
Toxaphene	N/A	No	---	---	---	0.50	µg/L
trans-Nonachlor	N/A	No	---	---	---	0.10	µg/L
trans-Permethrin	N/A	No	---	---	---	0.10	µg/L
Triadimefon	N/A	No	---	---	---	0.49	µg/L
Trichloronate	N/A	No	---	---	---	0.49	µg/L
Tricyclazole	N/A	No	---	---	---	0.99	µg/L
Trifluralin	N/A	No	---	---	---	0.10	µg/L
Vernolate	N/A	No	---	---	---	0.10	µg/L
Vinclozolin	N/A	No	---	---	---	0.49	µg/L
Z-Phosphamidon	N/A	No	---	---	---	0.49	µg/L

## Volatile Organic Compounds

Analyte	Regulatory Limit	Detected	Min	Median	Max	MRL*	Units
		Above MRL?					
1,1,1,2-Tetrachloroethane	N/A	No				0.50	µg/L
1,1,1-Trichloroethane	200	No	---	---	---	0.50	µg/L
1,1,2,2-Tetrachloroethane	N/A	No	---	---	---	0.50	µg/L
1,1,2-Trichloro-1,2,2-trifluoroethane	N/A	No	---	---	---	0.50	µg/L
1,1,2-Trichloroethane	5	No	---	---	---	0.50	µg/L
1,1-Dichloroethane	N/A	No	---	---	---	0.50	µg/L
1,1-Dichloropropanone	N/A	No	---	---	---	5.00	µg/L
1,1-Dichloropropene	N/A	No	---	---	---	0.50	µg/L
1,2,3-Trichlorobenzene	N/A	No	---	---	---	0.50	µg/L
1,2,3-Trichloropropane	N/A	No	---	---	---	0.50	µg/L
1,2,3-Trimethylbenzene	N/A	No	---	---	---	0.50	µg/L
1,2,4-Trichlorobenzene	70	No	---	---	---	0.50	µg/L
1,2,4-Trimethylbenzene	N/A	No	---	---	---	0.50	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	0.2	No	---	---	---	0.20	µg/L
1,2-Dibromoethane (EDB)	0.05	No	---	---	---	0.20	µg/L
1,2-Dichlorobenzene	N/A	No	---	---	---	0.50	µg/L
1,2-Dichloroethane	5	No	---	---	---	0.50	µg/L
1,2-Dichloropropane	5	No	---	---	---	0.25	µg/L
1,3,5-Trimethylbenzene	N/A	No	---	---	---	0.50	µg/L
1,3-Butadiene	N/A	No	---	---	---	5.00	µg/L
1,3-Dichlorobenzene	N/A	No	---	---	---	0.50	µg/L
1,3-Dichloropropane	N/A	No	---	---	---	0.50	µg/L
1,4-Dichlorobenzene	75	No	---	---	---	0.50	µg/L
1,4-Dioxane	N/A	No	---	---	---	5.00	µg/L
1-Chlorobutane	N/A	No	---	---	---	5.00	µg/L
2,2-Dichloropropane	N/A	No	---	---	---	0.50	µg/L
2-Butanone (MEK)	N/A	No	---	---	---	5.00	µg/L
2-Chlorotoluene	N/A	No	---	---	---	0.50	µg/L
2-Hexanone	N/A	No	---	---	---	5.00	µg/L
2-Nitropropane	N/A	No	---	---	---	2.00	µg/L
4-Chlorotoluene	N/A	No	---	---	---	0.50	µg/L
4-Isopropyltoluene	N/A	No	---	---	---	0.50	µg/L
4-Methyl-2-pentanone (MIBK)	N/A	No	---	---	---	2.00	µg/L
Acetone	N/A	No	---	---	---	5.00	µg/L
Acrylonitrile	N/A	No	---	---	---	1.00	µg/L
Allyl chloride	N/A	No	---	---	---	5.00	µg/L
Benzene	5	No	---	---	---	0.50	µg/L
Benzyl chloride	N/A	No	---	---	---	0.50	µg/L
Bis(2-chloroethyl)ether	N/A	No	---	---	---	2.00	µg/L

Bromobenzene	N/A	No	---	---	---	0.50	µg/L
Bromochloromethane	N/A	No	---	---	---	0.50	µg/L
Bromomethane	N/A	No	---	---	---	0.50	µg/L
Carbon disulfide	N/A	No	---	---	---	0.50	µg/L
Carbon tetrachloride	5	No	---	---	---	0.50	µg/L
Chloroacetonitrile	N/A	No	---	---	---	5.00	µg/L
Chlorobenzene	100	No	---	---	---	0.50	µg/L
Chloroethane	N/A	No	---	---	---	0.50	µg/L
Chloromethane	N/A	No	---	---	---	0.50	µg/L
Chloroprene	N/A	No	---	---	---	5.00	µg/L
cis-1,2-Dichloroethylene	70	No	---	---	---	0.50	µg/L
cis-1,3-Dichloropropylene	N/A	No	---	---	---	0.50	µg/L
Cyclohexanone - 524.2	N/A	No	---	---	---	5.00	µg/L
Dibromomethane	N/A	No	---	---	---	0.50	µg/L
Dichlorodifluoromethane	N/A	No	---	---	---	0.50	µg/L
Dichloromethane	5	No	---	---	---	0.50	µg/L
Epichlorohydrin	N/A	No	---	---	---	1.00	µg/L
Ethyl acrylate	N/A	No	---	---	---	1.00	µg/L
Ethyl ether	N/A	No	---	---	---	2.00	µg/L
Ethyl methacrylate	N/A	No	---	---	---	1.00	µg/L
Ethyl tert-butyl ether	N/A	No	---	---	---	2.00	µg/L
Ethylbenzene	700	No	---	---	---	0.50	µg/L
Hexachlorobutadiene	N/A	No	---	---	---	0.25	µg/L
Hexachloroethane	N/A	No	---	---	---	2.00	µg/L
Isopropyl ether	N/A	No	---	---	---	0.50	µg/L
Isopropylbenzene	N/A	No	---	---	---	0.25	µg/L
Methacrylonitrile	N/A	No	---	---	---	5.00	µg/L
Methyl acrylate	N/A	No	---	---	---	1.00	µg/L
Methyl iodide	N/A	No	---	---	---	2.00	µg/L
Methyl methacrylate	N/A	No	---	---	---	1.00	µg/L
Methyl tert-butyl ether (MTBE)	N/A	No	---	---	---	0.50	µg/L
m-Xylene & p-Xylene	N/A	No	---	---	---	0.50	µg/L
Naphthalene	N/A	No	---	---	---	0.10	µg/L
n-Butyl acrylate	N/A	No	---	---	---	1.00	µg/L
n-Butylbenzene	N/A	No	---	---	---	0.50	µg/L
Nitrobenzene	N/A	No	---	---	---	5.00	µg/L
n-Propylbenzene	N/A	No	---	---	---	0.50	µg/L
o-Xylene	N/A	No	---	---	---	0.50	µg/L
Pentachloroethane	N/A	No	---	---	---	2.00	µg/L
Propionitrile	N/A	No	---	---	---	5.00	µg/L
sec-Butylbenzene	N/A	No	---	---	---	0.50	µg/L
Styrene	100	No	---	---	---	0.50	µg/L
tert-Amyl methyl ether	N/A	No	---	---	---	3.00	µg/L
tert-Butyl alcohol	N/A	No	---	---	---	2.00	µg/L
tert-Butylbenzene	N/A	No	---	---	---	0.50	µg/L
Tetrachloroethene	5	No	---	---	---	0.50	µg/L
Tetrahydrofuran	N/A	No	---	---	---	5.00	µg/L

Toluene	1000	No	---	---	---	0.50	µg/L
trans-1,2-Dichloroethylene	100	No	---	---	---	0.50	µg/L
trans-1,3-Dichloropropylene	N/A	No	---	---	---	0.50	µg/L
trans-1,4-Dichloro-2-butylene	N/A	No	---	---	---	5.00	µg/L
Trichloroethylene	5	No	---	---	---	0.50	µg/L
Trichlorofluoromethane	N/A	No	---	---	---	0.50	µg/L
Vinyl acetate	N/A	No	---	---	---	5.00	µg/L
Vinyl chloride	2	No	---	---	---	0.20	µg/L