

SHEBOYGAN WATER UTILITY

2024 Water Quality Analysis

Updated April 22, 2025

Explanation of units: since one gallon of water weighs 8.34 pounds, one million gallons of water weighs 8,340,000 pounds.
When 8.34 pounds of a pure substance is added to one million gallons of water the concentration would be one part per million.

parts per million (ppm) = milligrams per liter (mg/L) = 1 in 1,000,000
 parts per billion (ppb) = micrograms per liter (ug/L) = 1 in 1,000,000,000
 parts per trillion (ppt) = nanograms per liter (ng/L) = 1 in 1,000,000,000,000
 parts per quadrillion (ppq) = picograms per liter (pg/L) = 1 in 1,000,000,000,000,000

Just how small are these terms in other units?

Unit =	<u>1 part per million</u>	<u>1 part per billion</u>	<u>1 part per trillion</u>	<u>1 part per quadrillion</u>
Length =	1 inch in 16 miles	1 inch in 16,000 miles	1 inch in 16,000,000 miles	1 inch in 16,000,000,000 miles
Time =	1 minute in 2 years	1 minute in 2,000 years	1 min. in 2,000,000 years	1 min. in 2,000,000,000 years
Money =	1 cent in \$10,000	1 cent in \$10,000,000	1 cent in \$10,000,000,000	1 cent in \$10,000,000,000,000

Important Water Terms:

Maximum Contaminant Level (MCL): Highest level of a contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal (MCLG): Level of a contaminant in drinking water below which there is no known or expected risk to health.

Turbidity: A measure of the clarity of water reported in Neophelometric Turbidity Units (NTU's). Is just noticeable to the average person in excess of 5 NTU.

Non-Detects (ND): Laboratory analysis indicates that the constituent is not present.

No Standard (NS): The Environmental Protection Agency (EPA) has not determined standards for these substances.

Not Tested (NT): The constituent was not tested for.

Million Fibers per Liter (mfl): The measure of the presence of asbestos fibers that are longer than 10 micrometers.

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

MDL: Minimum detection level. Lowest amount that can be detected in the laboratory.

Not Applicable (NA): The test results vary with incoming water quality.

Results reported in less than (<) units indicate the amount of the chemical being tested for is "less than" the detection limit of the machines used to do the analysis.

I <u>Physical</u>	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Temperature	continuous	NS	NS	33 to 65 deg. F	33 to 65 deg. F
pH	daily	6.5 to 8.5	NS	average of 7.69	average of 8.30
Color	continuous	15 Units	NS	< 1 color unit	average of 5
Total Residue	Monthly	NS	NS	145 ppm	NA
Turbidity	continuous	0.30 ntu	NS	average of 0.040 NTU	average of 5.46 NTU
Conductivity	continuous	NS	NS	average of 83.67ns/cm @ 6.2 C°	NT

II Inorganic

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Alkalinity, total CaCO3	daily	NS	NS	average of 104 ppm	average of 114 ppm
Aluminum (Al)	2006	.05-.2 ppm	NS	.074 ppm	NT
Antimony (Sb)	2024	6ppb	6ppb	<1.0 ppb	NT
Arsenic (As)	2024	10 ppb	n/a	<1.0 ppb	NT
Asbestos, Total	2003	7 mfl > 10 microns	7 mfl > 10 microns	<0.085	NT
Barium (Ba)	2024	2 ppm	2 ppm	18 ppb	NT
Beryllium (Be)	2024	4 ppb	4 ppb	<0.30 ppb	<300 ppt
Cadmium (Cd)	2024	5 ppb	5 ppb	<0.50 ppb	<200 ppt
Calcium (Ca)	2010	NS	NS	34,000 ppb	NT
Chloride (Cl), Total	1999	250,000 ppb	NS	11,000 ppb	NT
Chlorine, free Cl2	continuous	4,000 ppb	NS	ave. of 0.890 ppm	ND
Chromium (Cr), Total	2024	100 ppb	100 ppb	.95 ppb	NT
Copper (Cu)	2023	1,300 ppb	1,300 ppb	26 ppb	NT
Cyanide, Total	1999	200 ppb	200 ppb	<10 ppb	NT
Fluoride (F)	continuous	4 ppm	4 ppm	0.60 ppm	0.15 ppm
Foaming Agents (MBAS)	2003	500 ppb	NS	<200 ppb	NT
Hardness, Total as CaCO3	monthly	NS	NS	146 ppm	NT
Iron (Fe)	2018	300 ppb	NS	0.025 ppb	NT
Lead (Pb)	2023	15 ppb	0	2.2 ppb	NT
Lithium	2024	NS	NS	<9.00ppb	NT
Magnesium (Mg), Total	1999	NS	NS	11,000 ppb	NT
Manganese (Mn)	2019	50,000 ppt	NS	.695 ppt	NT
Mercury (Hg)	2024	0.002 ppm	0.002 ppm	<0.10 ppb	<100 ppt
Nickel (Ni)	2024	0.01 ppm	0.01 ppm	<1.0 ppb	<1000 ppt
Nitrogen, NO3-N, Nitrate	2023	10 ppm	10 ppm	<0.010 ppm	NT
Nitrates, NO3 + NO2 (Total)	2024	10 ppm	10 ppm	.30 ppm	NT
Nitrogen, NO2-N, Nitrite	2017	1 ppm	1 ppm	<0.003 ppm	<10 ppb
Orthophosphate (as PO4)	Daily	NS	NS	1.45 ppm	NT
Selenium (Se)	2024	50 ppb	50 ppb	<2.0 ppb	<2 ppb
Silver (Ag)	1999	50 ppb	NS	<2.0 ppb	NT
Sodium (Na)	2024	500,000 ppb	NS	9.6 ppm	NT
Sulfate (SO4)	2024	250,000 ppb	NS	25 ppm	NT
Thallium (Tl)	2024	2 ppb	0.5 ppb	<0.30 ppb	<200 ppt
Zinc (Zn)	1999	5,000,000 ppt	NS	<5000 ppt	NT

III Disinfection By-Products

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Total Trihalomethanes (TTHMs) :					
		80,000 ppt		Average of 4 samples	No Standard
Bromodichloromethane	2023	NS	0 ppt	7,850 ppt	NT
Bromoform	2023	NS	0 ppt	364 ppt	NT
Chloroform	2023	NS	0 ppt	11,569 ppt	NT
Dibromochloromethane	2023	NS	0 ppt	3,938 ppt	NT
		80,000 ppt		Total 23,720 ppt	No Standard
Total Haloacetic Acids (THAAs) :					
		60,000 ppt		Average of 4 samples	No Standard
Dibromoacetic Acid	2023	NS	0 ppt	675 ppt	NT
Dichloroacetic Acid	2023	NS	0 ppt	5,950 ppt	NT
Monobromoacetic Acid	2023	NS	0 ppt	<500 ppt	NT
Monochloroacetic Acid	2023	NS	0 ppt	<1,500 ppt	NT
Trichloroacetic Acid	2023	NS	0 ppt	7,188 ppb	NT
		60,000 ppt		Total 13,813 ppt	No Standard

IV Radioactivity

				MDL		
Gross Alpha	2023	15 pCi/l	0 pCi/l	2.3	0.798 +/- 0.97 pCi/L	NT
Gross Beta	2023	50 pCi/l	0 pCi/l	1.9	1.2 +/- 1.3 pCi/L	NT
Radium 226	2023	20 pCi/l	0 pCi/l	0.53	0.00 +/- 0.290 pCi/L	NT
Radium 228	2023	20 pCi/l	0 pCi/l	0.93	0.00 +/- 0.350	NT
Uranium Total	2023	30 pCi/l	0 pCi/l	1.00	<1.0 ppb	NT

V Volatile Organic Compounds (VOCs)

Acetone	2019	NS	NS	<2.8 ppb	NT
Allyl Chloride	2019	NS	NS	<0.60 ppb	NT
Benzene	2024	5,000 ppt	1,000 ppt	<0.50 ppb	<500 ppt
Bromobenzene	2024	NS	NS	<0.50 ppb	<500 ppt
Bromochloromethane	2024	NS	NS	<0.50 ppb	<500 ppt
Bromodichloromethane	2024	NS	0 ppt	5.0ppb	NT
Bromoform	2024	NS	NS	<0.50 ppb	NT
Bromomethane	2024	NS	NS	<0.50 ppb	<500 ppt
Butanone	2019	NS	NS	<2.9 ppb	NT
n-Butylbenzene	2019	NS	NS	<500 ppt	<500 ppt
sec-Butylbenzene	2019	NS	NS	<500 ppt	<500 ppt
tert_Butylbenzene	2019	NS	NS	<500 ppt	<500 ppt
Carbon disulfide	2019	NS	NS	<.37 ppb	NT
Carbon Tetrachloride	2024	5,000 ppt	0 ppt	<0.50 ppb	<500 ppt
Chlorobenzene	2024	100,000 ppt	100,000 ppt	<0.50 ppb	<500 ppt
Chlorethane	2024	NS	NS	<0.50 ppb	<500 ppt

V Volatile Organic Compounds (VOCs) continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Chloroform	2024	NS	NS	3.9 ppb	NT
Chloromethane	2024	NS	NS	<0.50 ppb	<500 ppt
Chloroethylvinyl ether	2024	NS	NS	<0.50 ppb	NT
2-Chlorotoluene (o-)	2024	NS	NS	<0.50 ppb	<500 ppt
4-Chlorotoluene (p-)	2024	NS	NS	<0.50 ppb	<500 ppt
Dibromoethane	2024	5,000 ppt	NS	<0.010 ppb	<500 ppt
Dibromochloromethane	2024	NS	NS	3.2 ppb	NT
1,2- Dibromo-3-chloropropane	2024	NS	NS	<0.50 ppb	NT
Dichloromethane (DCM)	2024	5,000 ppt	0 ppt	<0.50 ppb	<500 ppt
1, 3-Dichlorobenzene (m-)	2024	NS	NS	<0.50 ppb	<500 ppt
1, 2-Dichlorobenzene (o-)	2024	600 ppb	600 ppb	<0.50 ppb	<500 ppt
1, 4-Dichlorobenzene (p-)	2024	75 ppb	75 ppb	<0.50 ppb	<500 ppt
Dichlorodifluoromethane	2024	NS	NS	<0.50 ppb	<500 ppt
1,1-Dichloroethane	2024	NS	NS	<0.50 ppb	<500 ppt
1,2-Dichloroethane	2024	5,000 ppt	0 ppt	<0.50 ppb	<500 ppt
1, 1-Dichloroethylene	2024	7,000 ppt	7,000 ppt	<0.50 ppb	<500 ppt
1, 2-Dichloroethylene, cis	2024	70,000 ppt	70,000 ppt	<0.50 ppb	<500 ppt
1, 2-Dichloroethylene, trans	2024	100,000 ppt	100,000 ppt	<0.50 ppb	<500 ppt
1, 2-Dichloropropane	2024	5,000 ppt	0 ppt	<0.25 ppb	<500 ppt
1, 3-Dichloropropane	2024	NS	NS	<0.50 ppb	<500 ppt
1, 1-Dichloropropene	2024	NS	NS	<0.50 ppb	<500 ppt
2, 2-Dichloropropane	2024	NS	NS	<0.50 ppb	<500 ppt
1,1-Dichloropropylene	2024	NS	NS	<0.50 ppb	<500 ppt
1,3-Dichloropropylene, cis	2024	NS	NS	<0.50 ppb	<500 ppt
1,3-Dichloropropylene trans	2024	NS	NS	<0.50 ppb	<500 ppt
1, 3-Dichloropropene	2024	NS	NS	<0.50 ppb	<500 ppt
Diethyl ether	2019	NS	NS	<1.5 ppb	NT
Diisopropyl ether	2019	NS	NS	<1.9 ppb	NT
Ethylbenzene	2024	700,000 ppt	700,000 ppt	<0.50 ppb	<500 ppt
Hexachlorobutadiene	2024	NS	NS	<100 ppt	<500 ppt
Hexane	2019	NS	NS	<1.7 ppb	NT
Hexanone	2019	NS	NS	<1.7 ppb	NT
Isopropylbenzene	2019	NS	NS	<100 ppt	<500 ppt
4-Isopropyltoluene	2019	NS	NS	<100 ppt	<500 ppt
Methyl-t-butyl ether (MTBE)	2024	NS	NS	<200 ppt	<500 ppt
Methylnaphthalene	2019	NS	NS	<3.6 ppb	NT
Methyl-2-pentanone	2019	NS	NS	<1.5 ppb	NT
Methylene Chloride	2019	NS	NS	<0.58 ppb	NT
Naphthalene	2019	NS	NS	<300 ppt	<500 ppt
Chlorobenzene	2019	100,000 ppt	100,000 ppt	<100 ppt	NT
n-Propylbenzene	2019	NS	NS	<100 ppt	<500 ppt
Styrene	2024	100,000 ppt	100,000 ppt	<0.50 ppb	<500 ppt
Tetrahydrofuran	2019	NS	NS	<2.3 ppb	NT
1,1,1, 2-Tetrachloroethane	2024	NS	NS	<0.50 ppb	<500 ppt

V Volatile Organic Compounds (VOCs) continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
1,1,2-Trichlorotrifluoroethane	2019	NS	NS	<.54 ppb	NT
1,1,2, 2-Tetrachloroethane	2024	NS	NS	<0.50 ppb	<500 ppt
Tetrachloroethylene (PCE)	2019	5,000 ppt	0 ppt	<300 ppt	<500 ppt
Toluene	2024	1,000,000 ppt	1,000,000 ppt	<0.50 ppb	<500 ppt
1,2, 3-Trichlorobenzene	2019	NS	NS	<300 ppt	<500 ppt
1,2, 4-Trichlorobenzene	2024	70,000 ppt	70,000 ppt	<0.50 ppb	<500 ppt
1,1, 1-Trichloroethane	2024	200,000 ppt	200,000 ppt	<0.50 ppb	<500 ppt
1,1, 2-Trichloroethane	2024	5,000 ppt	3,000 ppt	<0.50 ppb	<500 ppt
Trichloroethylene (TCE)	2024	5,000 ppt	0 ppt	<0.50 ppb	<500 ppt
Trichloroethene	2024	NS	NS	<0.50 ppb	NT
Trichlorofluoromethane	2024	NS	NS	<100 ppt	<500 ppt
1,2, 3-Trichloropropane	2024	NS	NS	<0.50 ppb	<500 ppt
1,2,4-Trimethylbenzene	2017	NS	NS	<100 ppt	<500 ppt
1,2,5-Trimethylbenzene	2017	NS	NS	<100 ppt	<500 ppt
1,3,5-Trimethylbenzene	2024	NS	NS	<100 ppt	NT
Vinyl Chloride	2024	200 ppt	0 ppt	<0.50 ppb	<200 ppt
Xylene, Total	2024	10,000,000 ppt	10,000,000 ppt	<0.50 ppb	<500 ppt
m(1,3) & p(1,4) Xylene	2024	NS	NS	<0.50 ppb	<500 ppt
o(1,2)-Xylene	2024	NS	NS	<0.50 ppb	<500 ppt

VI Synthetic Organic Compounds (SOCs) and Pesticides, Herbicides and PCBs

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Alachlor (Lasso)	2024	2,000 ppt	0 ppt	<0.099 ppb	<200 ppt
Aldicarb, Total	2024	3,000 ppt	NS	<0.50 ppb	<500 ppt
Aldicarb Sulfone	2024	2,000 ppt	NS	<0.70 ppb	<400 ppt
Aldicarb Sulfoxide	2024	4,000 ppt	NS	<0.50 ppb	<500 ppt
Aldrin	2024	NS	NS	<0.099 ppb	<100 ppt
Atrazine	2024	3,000 ppt	3,000 ppt	<0.099 ppb	<100 ppt
Benzo(a)pyrene (PAHs)	2024	200 ppt	0 ppt	<0.020 ppb	NT
Butachlor	2024	NS	NS	<0.099 ppb	<100 ppt
Carbaryl	2024	NS	NS	<0.50 ppb	<100 ppt
Carbofuran	2024	40,000 ppt	40,000 ppt	<0.90 ppb	<900 ppt
Chlordane alpha	1994	NS	NS	<100 ppt	NT

VI Synthetic Organic Compounds (SOCs) and Pesticides, Herbicides and PCBs continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Chlordane gamma	1994	NS	NS	<100 ppt	NT
Chlordane	2023	2,000 ppt	0 ppt	<0.10 ppb	<100 ppt
2, 4-D	2023	70,000 ppt	70,000 ppt	<0.10 ppb	<100 ppt
Dalapon	2024	200 ppb	200 ppb	<1.0 ppb	<1.0 ppb
1, 2-Dibromo-3-chloropropane (DBCP)	2024	200 ppt	0 ppt	<0.10 ppb	NT
Dicamba	2024	NS	NS	<0.10 ppb	<100 ppt
Dieldrin	2024	NS	NS	<0.099 ppb	<100 ppt
Di (2-ethylhexyl) adipate	2024	400,000 ppt	400,000 ppt	<.59 ppb	NT
Di (2-ethylhexyl) phthalate	2024	6,000 ppt	0 ppt	<0.59 ppb	NT
2,3,7, 8-TCDD (Dioxin)	2023	30 ppq	0 ppq	<0.5 ppq	NT
Dinoseb	2023	7,000 ppt	7,000 ppt	<0.10 ppb	<100 ppt
Diquat	2024	20,000 ppt	20,000 ppt	<0.40 ppb	<400 ppt
Endothall	2024	100 ppb	100 ppb	<5.0 ppb	<9.0 ppb
Endrin	2024	2,000 ppt	2,000 ppt	<0.0099 ppb	<10 ppt
Ethylene dibromide (EDB)	2011	50 ppt	0 ppt	<20 ppt	NT
Glyphosate (Round-up)	2024	700 ppb	700 ppb	<6.0 ppb	<6.0 ppb
Heptachlor	2024	400 ppt	0 ppt	<0.039 ppb	<40 ppt
Heptachlor epoxide	2024	200 ppt	0 ppt	<.02 ppb	< 20 ppt
Hexachlorobenzene	2024	1,000 ppt	0 ppt	<0.099 ppb	<100 ppt
Hexachlorocyclopentadiene (HEX)	2024	50,000 ppt	50,000 ppt	<0.099 ppb	<100 ppt
3-Hydroxycarbofuran	2024	40 ppb	40 ppb	<0.50ppb	<1.0 ppb
BHC Gamma (Lindane)	2024	200 ppt	200 ppt	<0.020 ppb	<20 ppt
Methoxychlor	2024	40,000 ppt	40,000 ppt	<0.099 ppb	<100 ppt
Methomyl	2024	NS	NS	<0.50 ppb	<500 ppt
Metolachlor (Dual)	2024	NS	NS	<0.099 ppb	<100 ppt
Metribuzin (Sencor)	2024	NS	NS	<0.099 ppb	<100 ppt
1-Naphthol	2024	NS	NS	<1.0ppb	NT
Oxamyl (Vydate)	2024	200 ppb	200 ppb	<1.0 ppb	<1.0 ppb
Paraquat	2024	NS	NS	<0.40	NT
Pentachlorophenol	2024	1,000 ppt	0 ppt	<0.040 ppb	<40 ppt
Picloram (Tordon)	2024	500,000 ppt	500,000 ppt	<0.10 ppb	<100ppt
Propachlor	2024	NS	NS	<0.099 ppb	<100 ppt
2,4, 5-TP (Silvex)	2024	50,000 ppt	50,000 ppt	<70 ppt	<100 ppt
Simazine	2024	4,000 ppt	4,000 ppt	<.069 ppb	<70 ppt
Toxaphene	2024	3 ppb	0 ppb	<0.50 ppb	<1.0 ppb

VI Synthetic Organic Compounds (SOCs) and Pesticides, Herbicides and PCBs continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Polychlorinated Biphenyls (PCBs) :		500 ppt	0 ppt		
Aroclor 1016	2024	500 ppt	0 ppt	<0.080 ppb	NT
Aroclor 1232	2024	500 ppt	0 ppt	<0.10 ppb	NT
Aroclor 1248	2024	500 ppt	0 ppt	<0.10 ppb	NT
Aroclor 1260	2024	500 ppt	0 ppt	<0.10 ppb	NT
Aroclor 1221	2024	500 ppt	0 ppt	<0.10 ppb	NT
Aroclor 1242	2024	500 ppt	0 ppt	<0.10 ppb	NT
Aroclor 1254	2024	500 ppt	0 ppt	<0.10 ppb	NT

VII Microbiological Contaminants

MCL: No more than 5% of the 50 monthly Tap samples can be Total Coliform Positive.

Bacteria:

Total Coliform Positive

Escherichia Coliforms (E. coli.) Positive

MCLG

0.00%

0.00%

2024 Tap Water Results

0.0 in 966 tests

0.0 in 966 tests

2024 Raw Water Results

292 in 366 tests

55 in 366 tests

Pathogenic Protoza:

Crpytosporidium parvum

Giardia lambia

MCL

0

0

MCLG

0

0

2024 Tap Water Results

0 in 12 tests

0 in 12 tests

2024 Raw Water Results

0 in 12 tests

0 in 12 tests

VIII Unregulated Contaminants

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Acetochlor (herbicide)	2009	NS	NS	<1.0 ppb	<1.0 ppb
2,4-Dinitrotoluene (explosives)	2002	NS	NS	<2.0 ppb	<2.0 ppb
2,6-Dinitrotoluene (explosives)	2002	NS	NS	<2.0 ppb	<2.0 ppb
DCPA acid metaolites (herbicide)	2002	NS	NS	<1.0 ppb	<1.0 ppb
4,4'-DDE (insecticide)	2002	NS	NS	<0.8 ppb	<0.8 ppb
EPTC (herbicide)	2002	NS	NS	<1.0 ppb	<1.0 ppb
Molinate (herbicide)	2002	NS	NS	<0.9 ppb	<0.9 ppb
MTBE (gasoline additive)	2002	NS	NS	<5.0 ppb	<5.0 ppb
Nitrobenzene (dyes, drugs, herbi.)	2002	NS	NS	<10 ppb	<10 ppb
Terbacil (herbicide)	2002	NS	NS	<2.0 ppb	<2.0 ppb
Perchlorate (solid fuel rockets)	2002	NS	NS	<4.0 ppb	<4.0 ppb

IX UMCER2 Assessment Monitoring

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Dimethoate	2010	NS	NS	<0.7 ppb	NT
2,2',4,4',5,5'-Hexabromobipheny (HBB)	2010	NS	NS	<0.7 ppb	NT
2,2',4,4',5,5'-Hexabromobipheny ether (BDE-153) 2010		NS	NS	<0.8 ppb	NT
2,2',4,4',5-Pentabromobipheny ether (BDE-99) 2010		NS	NS	<0.9 ppb	NT
2,2',4,4',6-Pentabromobipheny ether (BDE-100) 2010		NS	NS	<0.5 ppb	NT
Terbufos-sulfone	2010	NS	NS	<0.4 ppb	NT
2,2',4,4'-Tetrabromodiphenyl ether (BDE-47) 2010		NS	NS	<0.3 ppb	NT
1,3-Dinitrobenzene	2010	NS	NS	<0.8 ppb	NT
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine) 2010		NS	NS	<1.0 ppb	NT
TNT (2,4,6-Trinitrotoluene)	2010	NS	NS	<0.8 ppb	NT

X UMCER2 Screening Survey

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Distribution System Results</u>
N-Nitrosodiethylamine (NDEA)	2010	NS	NS	<0.0050 ppb	<0.0050 ppb
N-Nitrosodimethylamine (NDMA)	2010	NS	NS	<0.0020 ppb	<0.0020 ppb
N-Nitrosodi-N-butylamine (NDBA)	2010	NS	NS	<0.0040 ppb	<0.0040 ppb
N-Nitrosodi-N-propylamine (NDPA)	2010	NS	NS	<0.0070 ppb	<0.0070 ppb
N-Nitrosomethylethylamine (NMEA)	2010	NS	NS	<0.0030 ppb	<0.0030 ppb
N-Nitrosopyrrolidine (NPYR)	2010	NS	NS	<0.0020 ppb	<0.0020 ppb
Acetochlor ESA	2010	NS	NS	<1.0 ppb	NT
Acetochlor OA	2010	NS	NS	<2.0 ppb	NT
Alachlor ESA	2010	NS	NS	<1.0 ppb	NT
Alachlor OA	2010	NS	NS	<2.0 ppb	NT
Metolalchlor ESA	2010	NS	NS	<1.0 ppb	NT
Metolalchlor OA	2010	NS	NS	<2.0 ppb	NT

XI Pharmaceutically Active Compounds

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Acetaminophen	2017	NS	NS	<0.005 ppb	NT
Acesulfame-K	2017	NS	NS	0.16 ppb	NT
Antipyrine	2017	NS	NS	<0.001 ppb	NT
Atenolol	2017	NS	NS	<0.001 ppb	NT
Azithromycin	2017	NS	NS	<0.005 ppb	NT
Bacitracin	2011	NS	NS	<1.0 ppb	NT
Bezafibrate	2017	NS	NS	<0.0005 ppb	NT
Caffeine	2017	NS	NS	<0.05 ppb	NT
Carbadox	2017	NS	NS	<0.005 ppb	NT
Carbamazepine	2017	NS	NS	<0.001 ppb	NT
Chloramphenicol	2017	NS	NS	<0.005 ppb	NT
Chlortetracycline	2017	NS	NS	<0.005 ppb	NT
Ciprofloxacin	2017	NS	NS	<0.05 ppb	NT
Clofibric acid	2017	NS	NS	<0.0005 ppb	NT
Cotinine	2017	NS	NS	0.002 ppb	NT
DEET	2017	NS	NS	0.008 ppb	NT
Dexamethasone	2017	NS	NS	<0.005 ppb	NT
Diazepam	2017	NS	NS	<0.001 ppb	NT
Diclofenac	2017	NS	NS	<0.0005 ppb	NT
Dilantin	2017	NS	NS	<0.002 ppb	NT
Diltiazem	2017	NS	NS	<0.0001 ppb	NT
Doxycycline	2017	NS	NS	<0.05 ppb	NT
Enrofloxacin	2017	NS	NS	<0.05 ppb	NT
Erythromycin	2017	NS	NS	<0.001 ppb	NT
Fluoxetine (Prozac)	2017	NS	NS	<0.001 ppb	NT
Gemfibrozil	2017	NS	NS	<0.0005 ppb	NT
Ibuprofen	2017	NS	NS	<0.05 ppb	NT
Iopromide	2017	NS	NS	<0.05 ppb	NT
Lasalocid	2017	NS	NS	<0.001 ppb	NT
Levothyroxine (Synthroid)	2017	NS	NS	<0.002 ppb	NT
Lincomycin	2017	NS	NS	<0.0001 ppb	NT
Meprobamate	2017	NS	NS	<0.001 ppb	NT

XI Pharmaceutically Active Compounds continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Monensin	2017	NS	NS	0.001ppb	NT
Naproxen	2017	NS	NS	<0.002 ppb	NT
Narasin	2017	NS	NS	<0.001 ppb	NT
Nicotine	2017	NS	NS	<0.005 ppb	NT
Norfloxacin	2017	NS	NS	<0.05 ppb	NT
Oleandomycin	2017	NS	NS	<0.001 ppb	NT
Oxytetracycline	2017	NS	NS	<0.05 ppb	NT
Paraxanthine	2017	NS	NS	<0.005 ppb	NT
Penicillin G	2017	NS	NS	<0.002 ppb	NT
Pencillin V	2017	NS	NS	<0.002 ppb	NT
Prednisone	2017	NS	NS	<0.002 ppb	NT
Primidone	2017	NS	NS	<0.005 ppb	NT
Roxithromycin	2017	NS	NS	<0.001 ppb	NT
Salicylic acid	2017	NS	NS	<0.05 ppb	NT
Salinomycin	2017	NS	NS	<0.0001 ppb	NT
Simvastatin	2017	NS	NS	<0.005 ppb	NT
Sulfachloropyridazine	2017	NS	NS	<0.005 ppb	NT
Sulfadiazine	2017	NS	NS	<0.001 ppb	NT
Sulfadimethoxine	2017	NS	NS	<0.0001 ppb	NT
Sulfamerazine	2017	NS	NS	<0.001 ppb	NT
Sulfamethazine	2017	NS	NS	<0.001 ppb	NT
Sulfamethizole	2017	NS	NS	<0.001 ppb	NT
Sulfamethoxazole	2017	NS	NS	<0.001 ppb	NT
Sulfasalazine	2017	NS	NS	<0.005 ppb	NT
Sulfathiazole	2017	NS	NS	<0.001 ppb	NT
Sucralose	2017	NS	NS	0.038 ppb	NT
Tetracycline	2017	NS	NS	<0.5 ppb	NT
Theobromine	2017	NS	NS	<0.05 ppb	NT
Theophylline	2017	NS	NS	<0.005 ppb	NT
Triclocarban	2017	NS	NS	<0.005 ppb	NT
Triclosan	2017	NS	NS	<0.05 ppb	NT
Trimethoprim	2017	NS	NS	<0.001 ppb	NT
Tylosin	2017	NS	NS	<0.001 ppb	NT
Tris(2-chloroethyl) phosphate	2017	NS	NS	<0.01 ppb	NT
Tris(chloroethyl) phosphate	2017	NS	NS	0.01 pbb	NT
Virginiamycin M1	2017	NS	NS	<0.001 ppb	NT

XII UMC R3 Assessment Monitoring

	Date of Last Test	MCL	MCLG	Range	Tap Water	Distribution System
					Results	Results
					Average of samples	Average of samples
Chromium	2014	100 ppb	100 ppb	<.2-.2 ppb	.25 ppb	.2 ppb
Cobalt	2014	NS	NS		< 1 ppb	< 1 ppb
Molybdenum	2014	NS	NS	<1-1 ppb	1 ppb	1 ppb
Strontium	2014	NS	NS	110-120 ppb	125 ppb	120 ppb
Vanadium	2014	NS	NS	.3 ppb	.3 ppb	.3 ppb
Chromium, Hexavalent	2014	NS	NS	.19-.20 ppb	.21 ppb	0.2 ppb
Chlorate	2014	NS	NS	65-140 ppb	46 ppb	54 ppb
1,4-Dioxane	2014	NS	NS		< .07 ppb	NT
Bromochloromethane	2014	NS	NS		< .06 ppb	NT
Bromomethane	2014	NS	NS		< .2 ppb	NT
1,3-Butadiene	2014	NS	NS		< .1 ppb	NT
Chlorodifluoromethane	2014	NS	NS		< .08 ppb	NT
Chloromethane	2014	NS	NS		< .2 ppb	NT
1,1-Dichloroethane	2014	NS	NS		< .03 ppb	NT
1,2,3-Trichloropropane	2014	NS	NS		< .03 ppb	NT
Perfluorobutanesulfonic acid (PFBS)	2014	NS	NS		< .09 ppb	NT
Perfluoroheptanoic acid (PFHpA)	2014	NS	NS		< .01 ppb	NT
Perfluorohexanesulfonic acid (PFHxS)	2014	NS	NS		< .03 ppb	NT
Perfluorononanoic acid (PFNA)	2014	NS	NS		< .02 ppb	NT
Perfluorooctanesulfonic acid (PFOS)	2014	NS	NS		< .04 ppb	NT
Perfluorooctanoic acid (PFOA)	2014	NS	NS		<.02 ppb	NT

XIII UMCRA Assessment Monitoring

	Date of Last Test	MCL	MCLG	MRL	Tap Water	Distribution System
					Results	Results
					Average of Samples	Average of Samples
Alpha-Hexachlorocyclohexane	2019	NS	NS	0.01 ppb	< 0.01 ppb	< 0.01 ppb
Anatoxin-a	2019	NS	NS	0.03 ppb	< 0.03 ppb	< 0.03 ppb
Bromide	2019	NS	NS	20 ppb	35.7 ppb	30.6 ppb
Butanol	2019	NS	NS	2 ppb	< 2.0 ppb	NT
Butylated hydroxyanisole	2019	NS	NS	0.03 ppb	< 0.03 ppb	NT
Chlorpyrifos	2019	NS	NS	0.03 ppb	< 0.03 ppb	NT
Cis-Permethrin	2019	NS	NS	0.019 ppb	< 0.019 ppb	NT
Cylindrospermopsin	2019	NS	NS	0.09 ppb	< 0.09 ppb	NT
Dimethipin	2019	NS	NS	0.2 ppb	< 0.2 ppb	NT
Ethoprop	2019	NS	NS	0.03 ppb	< 0.03 ppb	NT
Germanium	2019	NS	NS	0.3 ppb	< 0.3 ppb	NT
Manganese	2019	NS	NS	0.4 ppb	0.695 ppb	0.695 ppb
Methoxyethanol	2019	NS	NS	0.4 ppb	< 0.4 ppb	NT
Neodymium-143	2019	NS	NS	10000 cps	< 10000 cps	NT
O-Toluidine	2019	NS	NS	0.007 ppb	< 0.007 ppb	NT
Oxyfluorfen	2019	NS	NS	0.05 ppb	< 0.05 ppb	NT
Permethrin, cis & trans	2019	NS	NS	0.04 ppb	< 0.04 ppb	NT
Profenofos	2019	NS	NS	0.3 ppb	< 0.3 ppb	NT
Propen-1-ol	2019	NS	NS	0.5 ppb	< 0.5 ppb	NT
Quinoline	2019	NS	NS	0.02 ppb	< 0.02 ppb	NT
Samarium-147	2019	NS	NS	10000 cps	< 10000 cps	NT
Tebuconazole	2019	NS	NS	0.2 ppb	< 0.2 ppb	NT
Total Microcystins & Nodularins	2019	NS	NS	0.3 ppb	< 0.3 ppb	NT
Total Organic Carbon (TOC)	2021	NS	NS	1 mg/L	1.55 mg/L	1.75 mg/L
trans-Permethrin	2019	NS	NS	0.029 ppb	< 0.029 ppb	NT
Tribufos	2019	NS	NS	0.07 ppb	< 0.07 ppb	NT

XIV PFAS Compounds (UCMR5)

	Date of Last Test	MCL	MCLG	Tap Water	Raw Water
				Results	Results
Perfluorooctanoic acid (PFOA)	2023	4 ppt	0 ppt	1.9 ppt	<2.0 ppt
Perfluorooctanesulfonic acid (PFOS)	2023	4 ppt	0 ppt	1.9 ppt	2.0 ppt
Perfluorobutanoic acid (PFBA)	2024	NS	NS	<0.0050 ppb	NT
Perfluoropentanoic acid (PFPeA)	2024	NS	NS	<0.0030 ppb	NT
Perfluorohexanoic acid (PFHxA)	2024	NS	NS	<0.0030 ppb	NT
Perfluoroheptanoic acid (PFHpA)	2024	NS	NS	<0.0030 ppb	NT
Perfluorononanoic acid (PFNA)	2024	NS	NS	<0.0040 ppb	NT
Perfluorodecanoic acid (PFDA)	2024	NS	NS	<0.0030 ppb	NT
Perfluoroundecanoic acid (PFUnA)	2024	NS	NS	<0.0020 ppb	NT
Perfluorododecanoic acid (PFDoA)	2024	NS	NS	<0.0030 ppb	NT
4,8-Dioxa-3H-perfluorononanoic acid	2024	NS	NS	<0.0030 ppb	NT
Perfluorobutanesulfonic acid (PFBS)	2024	NS	NS	<0.0030 ppb	NT
Perfluorohexanesulfonic acid (PFHxS)	2024	NS	NS	<0.0030 ppb	NT
Perfluoroheptanesulfonic acid (PFHpS)	2024	NS	NS	<0.0030 ppb	NT
Perfluoropentanesulfonic acid (PFPeS)	2024	NS	NS	<0.0040 ppb	NT
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2024	NS	NS	<0.0050 ppb	NT
9-Chlorohexadecafluoro-3-oxanonan sulfonic acid	2024	NS	NS	<0.0020 ppb	NT
11-Chloroicosadecafluoro-3-oxadecan sulfonic acid	2024	NS	NS	<0.0050 ppb	NT
1H,1H,2H,2H-Perfluorohexane sulfonic acid	2024	NS	NS	<0.0030 ppb	NT

XIV PFAS Compounds (UCMR5) Cont.

1H,1H,2H,2H-Perfluorooctane sulfonic acid	2024	NS	NS	<0.0050 ppb	NT
1H,1H,2H,2H-Perfluorodecane sulfonic acid	2024	NS	NS	<0.0050 ppb	NT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2024	NS	NS	<0.0020 ppb	NT
Perfluoro-3-methoxypropanoic acid (PFMPA)	2024	NS	NS	<0.0040 ppb	NT
Perfluoro-4-methoxybutanoic acid (PFMBA)	2024	NS	NS	<0.0030 ppb	NT
Perfluoro (2-ethoxyethane) sulfonic (PFEEESA)	2024	NS	NS	<0.0030 ppb	NT
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2024	NS	NS	<0.0050 ppb	NT
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSA)	2024	NS	NS	<0.0060 ppb	NT
Perfluorotetradecanoic acid (PFTA)	2024	NS	NS	<0.0080 ppb	NT
Perfluorotridecanoic acid (PFTTrDA)	2024	NS	NS	<0.0070 ppb	NT
Lithium	2024	NS	NS	<9.00ppb	NT

XV Lead and Copper

	Date of Last Test	MCL (Action Level)	MCLG	Distribution System 90th Percentile Results
Lead	2023	15 ppb	0	2.2 ppb
Copper	2023	1300 ppb	1300 ppb	26 ppb