

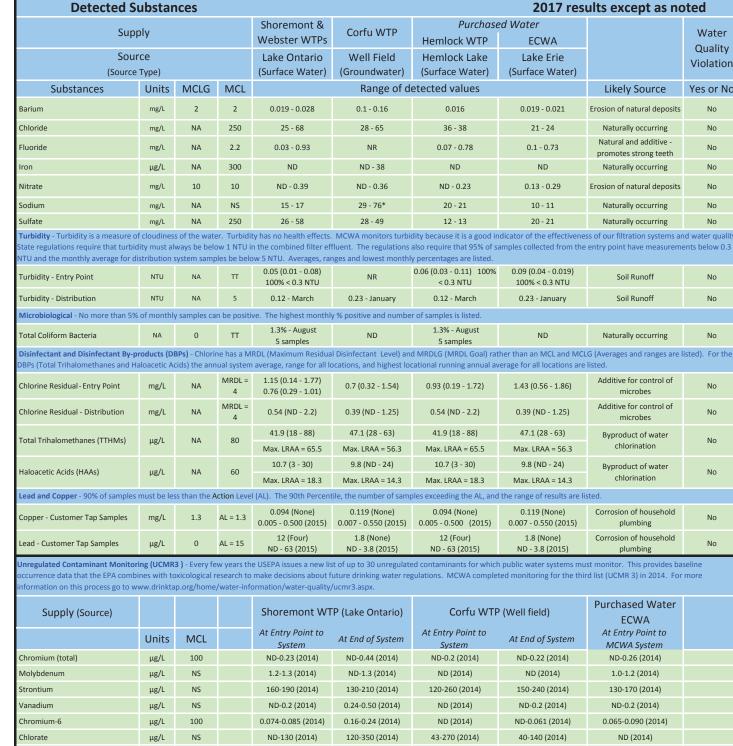
Quality Report nnua Water

3401158 PWSID# RICHMOND

The Monroe County Water Authority is pleased to provide you this report on the quality of your drinking water which describes its sources, treatment and test results.

Monroe County **Water Authority**

2017 Annual **Water Quality Report**



ND (2014)

There is no MCL set for sodium in water. However, EPA has recommended that water containing more than 20 mg/I of sodium should not be used for drinking by people on severely restricted sodium diets.

ND (2014)

Vater containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

μg/L 5 (NYS)

ND-0.023 (2014)

ND (2014)

MCWA - Water Quality Table

Key Terms Used In Water Quality Table

Water

Quality

Violation

Yes or No

No

MCL = Maximum Contaminant Level, the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as possible.

MCLG = Maximum Contaminant Level Goal, the level of a contaminant below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL = Maximum Residual Disinfectant Level, the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG = Maximum Residual Disinfectant Level Goal, the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

LRAA= Locational Running Annual Average - The average annual contaminant concentration at a monitoring site.

pCi/L = picoCuries per liter

TI = Treatment Technique, a required process intended to reduce the level of a contaminant in drinking water.

AL = Action Level, the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

ND = Not Detected, absent or present at less than testing method detection level. All testing methods are EPA approved with detection limits much less than the MCL.

NA = Not applicable

NR = Not Required

NS = No standard

mq/L = milligram (1/1,000 of a gram) per liter = ppm = parts per million

ug/L = microgram (1/1,000,000 of a gram) per liter = ppb = parts per billion

ng/L = nanogram (1/1,000,000,000 of a gram) per liter = ppt = parts per trillion

NTU = Nephelometric Turbidity Unit, a measure of water clarity.

Note: The following contaminants were tested for but not found: 1,1 Dichloroethane, 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene; 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,3-trichloropropane, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-Chloropropane, 1,2-Dibromoethane (EDB), 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 1,3-butadiene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,3-Dichloropropene(Cis), 1,3-Dichloropropene(Trans), 1,4-Dichlorobenzene, 1,4-dioxane, 2, 4, 5-TP (Silvex), 2, 4-D, 2,2-Dichloropropane, 2-Chlorotoluene, 3-Hydroxycarbofuran, 4-Chlorotoluene, Alachlor, Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldrin, Androstene, Antimony, Arsenic, Atrazine, Benzene, Benzo(a) pyrene, Beryllium, Bis(2-Ethylhexyl)Phthalate, Bromobenzene, Bromochloromethane, Bromomethane, Butachlor, Cadmium, Carbaryl, Carbofuran, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloromethane, cis-1,2-Dichlo-

roethene, Cobalt, Radium 226/228, Cryptosporidium, Cyanide, Di(2-Ethylhexyl)Adipate, Dibromomethane, Dicamba, Dichlorodifluoromethane, Dichloromethane, Dieldrin, Dinoseb, Dioxin, Diguat, Endothall, Endrin, Equilin, Estradiol, Estriol, Estrone, Ethylbenzene, Ethynylestradiol, Giardia, Glyphosate, Gross Alpha, Gross Beta, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Iron, Isophorone, Isopropylbenzene, Lead, Lindane (gamma-BHC), Mercury, Methomyl, Methoxychlor, MTBE, Metolachlor, Metribuzin, n-Butylbenzene, Nickel, Nitrite, n-Propylbenzene, Oxamyl, p,p'DDD, p,p' DDE, p,p'DDT, PCB's, Pentachlorophenol, Perchlorate, PFBS, PFHpA, PFHxS, PFNA, PFOA, PFOS, Pichloram, p-Isopropyltoluene, Propachlor, sec-Butylbenzene, Selenium, Silver, Simazine, Styrene, Surfactants, tert-Butylbenzene, Testosterone, Tetrachloroethene, Thallium, Toluene, Total Chlordane, Toxaphene, trans-1,2-Dichloroethene, Trichloroethene, Trichlorofluoromethane, Uranium, Vinyl Chloride, Xylenes, Zinc

For more information on MCWA's monitoring program call Customer Service at 585-442-7200.

MONROE COUNTY WATER AUTHORITY



Abundant. Inexpensive. Pure.

The Monroe County Water Authority is the third largest water supplier in New York State, producing and delivering an average of 20 billion gallons of drinking water every year. As a public benefit corporation organized in 1950 under the New York State Public Authorities Law, our sole purpose is to

provide you with quality water and reliable service at an affordable price.

Many communities have been unable or unwilling to make the investments necessary to maintain their water systems. That's not the case with the Monroe County Water Authority. In 2017 we invested 14 million dollars in infrastructure improvements. Our commitment to efficiency and cost control is shown in our water rate history. Our rates are below the national average and the lowest 25% for northeast suppliers. It costs an average Authority residential customer about \$26 a month for all the water they need.

The Monroe County Water Authority's 202 employees are dedicated to providing you all the clean, safe drinking water you need, whenever you need it.

This annual water quality report is being provided to all of our customers in

Lake Ontario & Hemlock Lake

Lake Ontario & Batavia

Kendall

Clarendon

Elba

Batavia

Bethany

Middlebury

Clarkson

Chili

Hemlock A

Sweder

Lake Ontario

Hemlock Lake

ECWA & Corfu

Alabama

Pembroke

Corfu WTP

Bennington

▲ Water Treatment Plant

Batavia



compliance with U.S. Environmental Protection Agency (USEPA) and New York State Department of Health regulations. For more news check our website at www.MCWA.com.

Source and Treatment

Our primary water source is Lake Ontario which is treated at

our Shoremont Plant in Greece and our Webster Plant in Webster. We also operate the Corfu Plant, a small groundwater supply in the Village of Corfu, and purchase water from the City of Rochester and the Erie County Water Authority (ECWA). The Distribution System Map in this report shows the typical service area for each of the treatment plants. The boundaries between the service areas change day to day as we manage the sources to optimize water delivery to our customers.

The New York State Health Department has evaluated the susceptibility of water supplies statewide to potential contamination under the Source Water Assessment Program (SWAP). In general, the Great Lakes sources used by MCWA and ECWA are not very susceptible because of the size and quality of the Great Lakes. Hemlock and Canadice Lakes, used by the Hemlock Plant, are also not very susceptible because of their size and controlled watersheds. The well water used by the Corfu Plant is more susceptible

MCWA SERVICE AREA

BY SUPPLY

Penfield

Bristol

Manchester

Ontario

Walworth

Canandaigua

Canandaigua

but the confined nature of the aguifer provides protection against the few nearby potential contaminant sources. Because storm and waste water contamination are potential threats to any source water, the water provided to our customers undergoes rigorous treatment and testing prior to its delivery.

Our Lake Ontario plants and the purchased water producers all use a similar treatment process: coagulation, filtration and disinfection. Coagulants are added to clump together suspended particles, enhancing their removal during filtration. Chlorine is used to disinfect the water and to provide the residual disinfectant that preserves the sanitary quality of the water as it travels from each plant to your home. Fluoride is also added to help prevent tooth decay. The treatment process at the Corfu Water Plant consists of filtration, softening and disinfection with chlorine.

These plants are in full compliance with all New York State and USEPA operational and monitoring requirements.

For more information on the State's Source Water Assessment plan and how you can help protect the source of your drinking water, contact MCWA Customer Service at (585) 442–7200 or visit our website at www.MCWA.com.

MCWA STATISTICS	
WATER WITHDRAWN FROM LAKE ONTARIO	50.0 Million Gallons Per Day
AVERAGE SYSTEM USE	55.5 Million Gallons Per Day
NON-BILLABLE WATER (MAINTENANCE, FLUSHING, FIREFIGHTING, LEAKS)	7.16 Million Gallons Per Day
ANNUAL COST FOR AVERAGE RESIDENTIAL CUSTOMER	\$313 Per Year
POPULATION SERVED	747,000 Wholesale and Retail
NUMBER OF ACCOUNTS	184,777
MILES OF WATER MAINS	3,320
NUMBER OF FIRE HYDRANTS	26,300

Water Quality

Drinking water sources (both tap and bottled water) include lakes, reservoirs, rivers and streams, springs and wells. As water travels over land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from animal or

human activity. Contaminants that may be present in untreated water include inorganic and organic chemicals, pesticides and herbicides, and radioactive and microbiological contaminants. In order to ensure that your tap water is safe to drink, the State and the USEPA established regulations that set limits on contaminant levels in water provided by public water systems. These limits are known as Maximum Contaminant Levels (MCLs). The regulations also specify testing, reporting, and public notification requirements for each contaminant. MCWA's monitoring program substantially exceeds USEPA and State Health Department requirements. The Health Department also reviews our operating and monitoring data for compliance and independently monitors our distribution system.

Some constituents we tested for were detected, but at levels well below the allowable MCL. A table of these detected contaminants is provided on the next page. It's important to remember all drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. Additional information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Some people may be more vulnerable to disease-causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as chemotherapy patients, organ transplant recipients, people with HIV/AIDS or other

immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about drinking water. EPA/CDC (Centers for Disease Control) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia, and other microbiological contaminants are available from the Safe Drinking Water Hotline (800) 426-4791 or the Monroe County Department of Public Health, 111 Westfall Road, Rochester, NY 14620, (585) 753-5057.

Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. There is no detectable lead in the water we deliver to your home. Lead in drinking water is primarily from lead-bearing materials and components associated with service lines and home plumbing. Although our testing indicates this is not a problem for our customers, it is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. The Monroe County Water Authority is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components.

When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at www.mcwa.com/MyWater/LeadInDrinkingWater.aspx or from the USEPA's Safedrinking Water Hotline (800-426-4791) and website (www.epa.gov/ safewater/lead).

Conservation

Lake Ontario provides an abundance of water to the communities we serve, and our customers greatly benefit by having this natural resource close to home. However, it takes power to treat and move the water to your houses. Therefore, conserving energy is helpful to providing clean, safe water to you.

Although our water rates are below the national average, no one wants to pay for water that is wasted whether by accident or on purpose. To save water, fix leaky faucets and toilets promptly, replace washers when garden hoses start to drip, and water your lawn in the early morning. After 10 a.m. the sun's heat draws water from the lawn through evaporation. When you water early, you can water less because more of the water is absorbed into the lawn. To find more water saving tips, visit us online at www.MCWA.com.

FOR MORE INFORMATION

If you have questions about this report, your bill, or Monroe County Water Authority operations, call Customer Service at (585) 442-7200. To view the MCWA Board of Directors meeting schedule, visit us online at www.MCWA.com.

MCWA is one of the many New York water utilities providing drinking water with a controlled, low level of fluoride for consumer dental health protection. According to the U.S. Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal level of 0.7 mg/L. To ensure optimal dental protection, the State Department of Health requires that we monitor fluoride levels on a daily basis. In 2017 the fluoride levels in your water were within 0.2 mg/L of the CDC's recommended optimal level 99% of the time. The highest monitoring result was 0.93 mg/L, below the 2.2 mg/L MCL for fluoride.

Taste and Odor

Sometimes you may find your water tastes or smells like chlorine. The water is safe to drink. We are required to maintain a chlorine residual in the distribution system to prevent the growth of bacteria. To eliminate or reduce the taste of chlorine in your water, simply store tap water in a container overnight in your refrigerator. An inexpensive carbon filter can be used for this also.

Home Treatment Units

There are businesses that sell home treatment units by telling you water supplied by the Monroe County Water Authority is not safe. Save your money. The water we provide is consistently better than the drinking water regulations require and we can prove it.



