MCWA Water Quality Summary Table	
2024 Calendar Year Results -	

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	Supply Source -			MCWA Production Water:		MCWA Purchased Water:			347.1
				SWTP & WWTP -	CWTP -	Rochester -	ECWA -		Water Quality Violation:
Detected Substances:	Source -			Lake Ontario	Well Field	Hemlock Lake	Lake Erie	Likely Sources in Drinking Water:	
Detected Jubitanees.	(Source Type)			(Surface Water)	(Groundwater)	(Surface Water)	(Surface Water)		
	Units	MCLG	Regulatory Limit		Range of det	ected values:		Yes or No	
Barium	ma/1	2		0.019 - 0.024	0.08 - 0.1	0.015	0.02	Exercise of natural denosits	
	mg/L	2	2					Erosion of natural deposits	No
Chloride	mg/L	NA	250	26 - 31	49 - 76	32 - 41	20 - 25	Naturally occurring	No
Chromium	μg/L	100	100	ND - 1.1	ND - 1.2	ND	ND - 1.1	Erosion of natural deposits	No
Color	Color Units	NA	15	ND - 2	ND - 3	ND - 2	ND - 2	Naturally occurring	No
Fluoride	mg/L	NA	2.2	0.3 - 0.95	0.14 - 0.51	0.4 - 0.8	0.58 - 0.76	Naturally occuring & additive for dental health	No
Manganese	μg/L	NA	300	ND	5.2 - 6.3	ND	ND	Naturally occurring	No
Nitrate	mg/L	10	10	0.17 - 0.47	ND - 0.18	0.16	0.19	Erosion of natural deposits	No
Perfluorooctanesulfonic acid (PFOS)	ng/L	NS	10	ND - 2.2	ND	ND	ND	Environmental releases from textile sources	No
Perfluorobutanoic acid (PFBA)	ng/L	NS	10	ND - 2.9	ND	ND	ND - 2	Environmental releases from textile sources	No
Selenium	μg/L	50	50	ND - 3.6	ND	ND	ND	Erosion of natural deposits	No
Sodium	mg/L	NA	NS	15 - 19	92 - 97 *	20 - 21 *	12 - 15	Naturally occurring	No
Sulfate	mg/L	NA	250	25 - 27	46 - 51	11 - 20	19	Naturally occurring	No
Turbidity - Turbidity is a measure of cloudiness or clarity of the water. Turbidity has no health effects. MCWA monitors turbidity because it is a good indicator of the effectiveness of our filtration systems and									

water quality. State regulations require that turbidity must always be below 1 NTU in the combined filter effluent. The regulations also require that 95% of samples collected from the entry point have measurements below 0.3 NTU and the highest monthly average for distribution system samples be below 5 NTU. Averages, annual ranges and lowest monthly percentages are listed.

Turbidity - Entry Point	NTU	NA	тт	0.04 (0.01 - 0.09) 100% < 0.3 NTU	NR	0.06 (0.01 - 0.17) 100% < 0.3 NTU	0.07 (0.04 - 0.26) 100% < 0.3 NTU	Soil Runoff	No	
Turbidity - Distribution	NTU	NA	5	2.62 - 5/21/2024	2.05 - 9/24/2024	2.62 - 5/21/2024	2.05 - 9/24/2024	Soil Runoff	No	
Microbial Pararmeters - For total coliform bacteria, a Treatment Technique violation occures when more than 5% of monthly samples are positive. The highest monthly % positive and number of positive samples is listed.										
Total Coliform Bacteria	NA	0	TT	0.3% - December	0%	0.3% - December	0%	Naturally present in the environment	No	
Total Comorni Bacteria	INA.	Ů		1 sample	None Detected.	1 sample	None Detected.	Naturally present in the environment	140	
Source Water Microbial Pathogens - The highest positive month and number of samples is listed. In our treatment processes, Cryptosporidium is removed / inactivated through a combination of filtration and										

NR

ND (2017)

Animal fecal waste

No

disinfection or by disinfection alone.

SWTP - 1 (February)

TT

Giardia

Cysts/L

NR 1 Sample Disinfectant and Disinfectant By-products (DBPs) - Chlorine has a MRDL (Maximum Residual Disinfectant Level) and MRDLG (MRDL Goal) rather than an MCL and MCLG (Averages and ranges are listed). For the

but a (Total Tillialomethales and Haloacetic Actus) the annual system averages for an locations, and highest locations are instead.									
Chlorine Residual - Entry Point	mg/L	NA	MRDL = 4	1.15 (0.87 - 1.42) 0.87 (0.36 - 1.25)	1.1 (0.44 - 1.6)	0.96 (0.56 - 1.23)	1.6 (1.3 - 1.85)	Additive for control of microbes	No
Chlorine Residual - Distribution	mg/L	NA	MRDL = 4	0.61 (ND - 1.96)	0.72 (ND - 1.65)	0.61 (ND - 1.96)	0.72 (ND - 1.65)	Additive for control of microbes	No
Total Trihalomethanes (TTHMs)	μg/L	NA	80	42 (17 - 84)	42 (12 - 65)	42 (17 - 84)	42 (12 - 65)	Byproduct of water chlorination	No
Total Tillalomethanes (Tillivis)	μg/ L	IVA	80	Max. LRAA = 61	Max. LRAA = 49	Max. LRAA = 61	Max. LRAA = 49	byproduct of water chlorination	140
Haloacetic Acids (HAAs)	μg/L	NA	60	12.2 (ND - 31)	9.9 (ND - 27)	12.2 (ND - 31)	9.9 (ND - 27)	Byproduct of water chlorination	No
rialoacetic Acius (riAAs)	μg/L	INA	00	Max. LRAA = 18.8	Max. LRAA = 15.3	Max. LRAA = 18.8	Max. LRAA = 15.3	Byproduct of water chlorination	INO
Lead and Copper - 90% of samples must be less than the Action Level (AL). The 90th Percentile, the number of samples exceeding the AL, and the range of results are listed. (2024 biannual monitoring period)									

0.21 (None) 0.081 (None) 0.21 (None) 0.081 (None) Copper - Customer Tap Samples 1.3 AL = 1.3Corrosion of household plumbing mg/L Nο 0.0054 - 0.79 0.0054 - 0.79 ND - 0 13 ND - 0.13 0.54 (None) 14.2 (13) 14.2 (13) 0.54 (None) Lead - Customer Tap Samples μg/L AL = 15 Corrosion of household plumbing No ND - 110 ND - 0.75 ND - 110 ND - 0.75

Unregulated Contaminant Monitoring (UCMR5) - The EPA issues lists of 30 unregulated contaminants or less to be monitored by public water systems. This provides baseline occurrence data that the EPA combines with toxicological research to make decisions about future drinking water regulations. UCMR5 was published in 2021 and requires public water systems to participate in monitoring between 2023 - 2025 using analytical methods developed by the EPA and consensus organizations. MCWA performed UCMR5 monitoring in 2023 and 2024 with detected substances listed below. The full list of UCMR5 substances may be found in the AWQR supplement.

Metals:	Metals: Entry Points:		Lake Ontario Supplies -		Purchased Wa	ater Supplies -	Groundwater Supply -	Water Quality Violation:		
	Units	Regulatory Limit	SWTP	WWTP	Rochester	ECWA	CWTP	Yes or No		
Lithium	μg/L	NA	ND	ND	ND	NR	ND - 12.1	NA		
For more information on the MCWA's water quality monitoring program call Customer Service at 585-442-7200 or visit our website at: www.mcwa.com.										

^{*} There is no MCL set for sodium in water. However, EPA recommends that water containing more than 20 mg/L of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted sodium diets.

Key Terms and Abbreviations Used:

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 Disnfectant 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 annual average contaminant concentration at a monitoring site.

pCi/L = PicoCuries per Liter.

TT = 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 / Not reported. **NS** = No standard.

mg/L = Milligram (1/1,000 of a gram) per Liter = ppm = parts per million.

 μ g/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 measurement of water clarity.

CWTP = Corfu Water Treatement Plant. SWTP = Shoremont Water Treatement Plant. WWTP = Webster Water Treatment Plant.

MCWA = Monroe County Water Authority. Rochester = City of Rochester. ECWA = Erie County Water Authority.

Compounds Tested For But Not Detected:

1,1,2-Trichloroethane Dieldrin Benzene Bromobenzene Trichloroethene Dinoseb Bromochloromethane Trichlorofluoromethane 1, 4-Dioxane Bromomethane 1,2,3-Trichloropropane Diquat n-Butylbenzene 1,2,4-Trimethylbenzene Endothall sec-Butylbenzene 1,3,5-Trimethylbenzene Glyphosate tert-Butylbenzene Hexachlorobenzene Vinvl Chloride Carbon Tetrachloride o-Xylene Hexachlorocyclopentadiene Chlorobenzene m, p-Xylene 3-Hydroxycarbofuran Chloroethane Total Xvlene 3.5-Dichlorobenzoic Acid Chloromethane Acifluorfen Methomyl 2-Chlorotoluene Alachlor Metolachlor 4-Chlorotoluene Aldicarb Metribuzin Dibromomethane Aldicarb sulfoxide Oxamyl (vydate) 1.2-Dichlorobenzene Aldicarb sulfone Paraguat 1,3-Dichlorobenzene Perchlorate Atrazine 1,4-Dichlorobenzene Baygon Picloram Dichlorodifluoromethane **Bentazon** Propachlor 1,1 Dichloroethane Carbofuran Simazine 1.2-Dichloroethane Chlordane 2, 3, 7, 8-TCDD (Dioxin) 1,1-Dichloroethene Dibromochloropropane Antimony cis-1,2-Dichloroethene 2. 4-D Beryllium trans-1,2-Dichloroethene Endrin Cyanide 1,2-Dichloropropane Ethylene Dibromide Mercury 1,3-Dichloropropane Nickel 2.2-Dichloropropane Heptachlor Epoxide Nitrite 1,1-Dichloropropene Lindane (gamma-BHC) Silver 1,3-Dichloropropene(cis) Methoxychlor Thallium 1.3-Dichloropropene(trans) p,p' DDD Zinc Ethylbenzene p,p' DDE

Surfactants (Foaming Agents) Hexachlorobutadiene p,p' DDT Cryptosporidium p-Isopropyltoluene PCB's Total Monobromoacetic acid Methyl Tert-butyl ether (MTBE) Pentachlorophenol Monochloroacetic acid Methylene Chloride (Dichloromethane) Toxaphane Tribromoacetic acid n-Propylbenzene 2, 4, 5-TP (Silvex) **Gross Alpha Particles** Styrene Radium 226 1.1.1.2-Tetrachloroethane Benzo(a)pyrene Radium 228 1,1,2,2-Tetrachloroethane Butachlor Combined Radium 226/228

Tetrachloroethene Carbaryl

Toluene 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) Dalapon

1,2,3-Trichlorobenzene Di(2-Ethylhexyl) Adipate 1H,1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS) 1.2.4-Trichlorobenzene Di(2-Ethylhexyl) phthalate (DEHP) 1H.1H. 2H. 2H-perfluorohexane sulfonic acid (4:2FTS) 1.1.1-Trichloroethane Dicamba 1H,1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)

4.8-dioxa-3H-perfluorononanoic acid (ADONA) 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)

Hexafluoropropylene oxide dimer acid (HFPO-DA)(GenX) N-ethyl Perflurooctanesulfonamidoacetic acid (NEtFOSAA) N-methyl Perflurooctanesulfonamidoacetic acid (NMeFOSAA)

Perfluoro-3-methoxypropanoic acid (PFMPA) Perfluoro-4-methoxybutanoic acid (PFMBA) Perfluorobutanesulfonic acid (PFBS) Perfluorooctanoic Acid (PFOA) Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PHDoA) Perfluoroheptanesulfonic acid (PFHpS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluoropentanesulfonic acid (PFPeS) Perfluoropentanoic acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotridecanoic acid (PFTA)

Perfluoroundecanoic acid (PFUnA)

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)

Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)

SCAN CODE FOR AWOR REPORT:

