

MCWA - Water Quality Table

Detected Substances 2014 results except as noted

Supply (Source)				Shoremont & Webster WTPs (L.Ontario)	Corfu WTP (Well)	Purchased Water Hemlock WTP (Hemlock L.)	Purchased Water ECWA (L. Erie & Niagara R.)		Meets EPA Standards
Substances	Units	MCLG	MCL	Range of detected values				Likely Source	
Barium	mg/L	2	2	0.017 - 0.023	0.100 - 0.160	0.016 - 0.020	0.020 - 0.024	Erosion of natural deposits	Yes
Chloride	mg/L	NA	250	24 - 38	48 - 83	24 - 34	19 - 25	Naturally occurring	Yes
Chromium	ug/L	100	100	ND - 1.4	ND - 4.3	ND	ND	Naturally occurring	Yes
Dacthal (DCPA)	ug/L	NA	50	ND - 0.1	ND	ND	ND	Herbicide	Yes
Fluoride	mg/L	NA	2.2	0.1 - 1.4	NR	0.7	0.1 - 1.1	Natural and additive - promotes strong teeth	Yes
Manganese	ug/L	NA	300	ND	8.9 - 13	ND	ND	Naturally occurring	Yes
Nitrate	mg/L	10	10	0.22 - 0.34	ND - 4.3	ND - 0.14	0.10 - 0.26	Erosion of natural deposits	Yes
Sodium	mg/L	NA	NS	14-23	26 - 80	17	12 - 16 (2013)	Naturally occurring	Yes
Sulfate	mg/L	NA	250	26 - 28	100	ND - 14	22 (2013)	Naturally occurring	Yes

Treatment Requirements - 95% of samples each month must be less than 0.3 NTU. Range and lowest monthly percentage are listed. Turbidity is a measure of water clarity and is used to gauge filtration performance.

Turbidity - Entry Point	NTUs	NA	TT	0.03 - 0.30 (100%)	NR	0.05 - 0.45 (97%)	0.01 - 0.23 (100%)	Soil Runoff	Yes
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Microbial - No more than 5% of monthly samples can be positive. The highest monthly % positive is listed.

Coliform	% Positive	0	5%	ND	2.8% July	ND	2.8% July	Naturally occurring	Yes
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Disinfectant and Disinfectant By-products (DBPs) - Chlorine has a MRDL (Maximum Residual Disinfectant Level) and MRDLG (MRDL Goal) rather than an MCL and MCLG (Average and range are listed). For the DBPs (THMs and Haloacetic acids) the highest individual location annual average and the range for all locations are listed.

Chlorine Residual-Entry Pt	mg/L	4	4	1.0 (0.3 - 2.4)	0.7 (0.5 - 1.2)	1.0 (0.6 - 2.2)	1.5 (0.2 - 2.2)	Additive for control of microbes	Yes
Total THMs	ug/L	NA	80	65 (7 - 86)	52 (23 - 64)	65 (7 - 86)	52 (23 - 64)	Byproduct of water chlorination	Yes
Haloacetic Acids	ug/L	NA	60	26 (ND - 39)	14 (ND - 21)	26 (ND - 39)	14 (ND - 21)	Byproduct of water chlorination	Yes

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.

Copper (Customer Tap Samples)	mg/L	1.3	AL=1.3	0.118 (None) 0.012 - 0.320 (2012)	0.116 (None) 0.003 - 0.33 (2012)	0.118 (None) 0.012 - 0.320 (2012)	0.116 (None) 0.003 - 0.33 (2012)	Corrosion of household plumbing	Yes
Lead (Customer Tap Samples)	ug/L	0	AL=15	4.9 (None) ND - 15 (2012)	ND (None) ND - 1.6 (2012)	4.9 (None) ND - 15 (2012)	ND (None) ND - 1.6 (2012)	Corrosion of household plumbing	Yes

Unregulated Contaminant Monitoring (UCMR3) - Every few years the USEPA issue a new list of up to 30 unregulated contaminants for which public water systems must monitor. This special testing provides baseline occurrence data that the EPA combines with toxicological research to make decisions about future drinking water regulations. MCWA completed monitoring for the third list (UCMR 3) in 2014. For more information on this process go to <http://www.drinktap.org/home/water-information/water-quality/ucmr3.aspx>.

Supply (Source)				Shoremont WTP (L.Ontario)		Corfu WTP (Well)		Purchased Water ECWA	
	Units	MCL		At Entry Point to System	At End of System	At Entry Point to System	At End of System	At Entry Point to MCWA System	
Chromium (total)	ug/L	100		ND-0.23	ND-0.44	ND-0.2	ND-0.22	ND-0.26	
Molybdenum	ug/L	NS		1.2-1.3	ND-1.3	ND	ND	1.0-1.2	
Strontium	ug/L	NS		160-190	130-210	120-260	150-240	130-170	
Vanadium	ug/L	NS		ND-0.2	0.24-0.50	ND	ND-0.2	ND-0.2	
Chromium-6	ug/L	100		0.074-0.085	0.16-0.24	ND	ND-0.061	0.065-0.090	
Chlorate	ug/L	NS		ND-130	120-350	43-270	40-140	ND	
Chloromethane	ug/L	5 (NYS)		ND	ND	ND-0.023	ND	ND	

Key Terms Used In Water Quality Table

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.
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 **NS** = No standard
mg/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: 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2 Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, EDB, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Butadiene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,3-Dichloropropene(Cis), 1,3-Dichloropropene(Trans), 1,3-dinitrobenzene, 1,4-Dioxane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, Dioxin, 2,4 D, 2-4-5 TP, 2-Chlorotoluene, 3-Hydroxycarbofuran, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, 4-Chlorotoluene, Acetochlor, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldrin, Androstene, Antimony, Arsenic, Atrazine, Benzene, Benzo(a)pyrene, Beryllium, Bromobenzene, Bromochloromethane, Bromomethane, Butachlor, Cadmium, Carbaryl, Carbofuran, Carbon Tetrachloride, Chlordane, Chlorobenzene, Chloroethane, Chlorodifluoromethane, Chloromethane, Cobalt, cis-1,2-Dichloroethene, Cryptosporidium, Cyanide, DCPA, Dalapon, DBCP, Di(2-Ethylhexyl) Adipate, Di(2-Ethylhexyl) Phthalate, Dibromomethane, Dicamba, Dichlorodifluoromethane, Dichloromethane, Dieldrin, Dinoseb, Dioxin, Diquat, Endothall, Endrin, Equilin, Estradiol, Estriol, Estrone, Ethylbenzene, Ethynylestradiol, Giardia, Glyphosate, Gross Alpha, Gross Beta, Heptachlor, Heptachlorepoide, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Iron, Isophorone, Isopropyl Benzene, Lindane, Mercury, Methomyl, Methoxychlor, Metolachlor, Metribuzin, MTBE, n-Butylbenzene, Nickel, Nitrite, n-Propylbenzene, Oxamyl, Paraquat, PCB's, Pentachlorophenol, Perchlorate, PFBS, PFHpA, PFHxS, PFNA, PFOA, PFOS, Pichloram, p-Isopropyltoluene, Propachlor, sec-Butylbenzene, Selenium, Silver, Simazine, Styrene, Surfactants, tert-Butylbenzene, Testosterone, Tetrachloroethane, Thallium, Toluene, Toxaphene, trans-1,2-Dichloroethene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride, Xylene, Zinc

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