

MCWA Water Quality Table Detected Substances

2007 results except as noted

Supply (Source)				Shoremont WTP (L. Ontario)	Corfu WTP (Well)	Purchased Water Hemlock WTP (Hemlock L.)	Purchased Water C. Batavia WTP (Well & Tonawanda Cr.)	Purchased Water ECWA (L. Erie & Niagara R.)	Purchased Water T. Ontario WTP (L. Ontario)		Meets EPA Standards	
Substances	Units	MCLG	MCL	Range of detected values						Likely Source		
Arsenic	ug/L	NA	10	ND - 1.1	ND	ND	ND	ND	ND	Erosion of natural deposits	Yes	
Barium	mg/L	2	2	0.02 - 0.021	0.041 - 0.041	0.016	0.015	0.019 - 0.020	0.019	Erosion of natural deposits	Yes	
Chloride	mg/L	NA	250	21 - 26	39 - 49	30 - 34	80	21 - 24	NR	Naturally occurring	Yes	
Fluoride	mg/L	NA	2.2	0.2 - 1.2	NR	0.14 - 1.2	ND-1.46	0.1 - 1.0	0.9 - 1.1	Natural and additive - promotes strong teeth	Yes	
Manganese	ug/L	NA	300	ND	3.2 - 13	ND	ND	ND - 11	NR	Naturally occurring	Yes	
Nitrate	mg/L	10	10	0.28 - 0.40	ND - 0.10	0.1 - 0.31	0.65	0.11 - 0.33	0.47	Erosion of natural deposits	Yes	
Sodium	mg/L	NA	NS	13 - 14	27 - 130	18 - 20	39	13 - 15	NR	Naturally occurring	Yes	
Sulfate	mg/L	NA	250	29	61	15	29	23	NR	Naturally occurring	Yes	
Radionuclides Gross Alpha	pCi/L	NA	15	ND (2003)	ND (2003)	ND (2005)	0.029(2000)	ND-1.7(2004)	ND	Erosion of natural deposits	Yes	
Radionuclides Gross Beta	pCi/L	NA	50	ND (2003)	ND (2003)	ND (2005)	1.2(2000)	ND-2.2(2004)	ND	Decay of natural deposits and man-made emissions	Yes	
Organics, Pesticides, Herbicides												
Atrazine	ug/L	3	3	ND	ND	ND	ND	ND - 0.1	ND	Runoff from cropland	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 - 0.10 100%	NA	0.05 - 0.22 100%	0.02-0.04 100%	0.05-0.35 99.9%	0.03 - 0.07 100%	Soil runoff	Yes	
Microbial - For systems collecting 40 or more samples a month, no more than 5% a month can be positive. For systems collecting fewer than 40 samples per month, no more than one sample a month can be positive. For systems with more than 40 samples the highest monthly % positive is listed. For systems with fewer than 40 the number of positives is listed.												
Coliform	% Positive	0	5%	0.8% Nov	1 of 14 Sept	0.7% July	ND	1 of 14 Sept	ND	Naturally occurring	Yes	
Disinfectant and Disinfectant By-products (DBPs) - Average and Range are listed. * Chlorine has a MDRL (Maximum Disinfectant Residual Level) and MDRLG (MDRL Goal) rather than an MCL and MCLG.												
Chlorine Residual - Entry Pt	mg/L	4 *	4 *	1.0 (0.6-1.3)	0.7 (0.2-1.2)	0.9 (0.3-1.1)	1.0 (0.6-1.4)	1.0 (0.4 -1.4)	0.8 (,7-1.0)	Additive for control of microbes	Yes	
Total THMs	ug/L	NA	80	33 (14-54)	40 (32 - 47)	40 (23-62)	46 (31-57)	43 (28-65)	35 (28-43)	By-product of water chlorination	Yes	
Haloacetic Acids	ug/L	NA	60	9 (3-23)	12 (7-18)	20 (9-36)	11 (8-13)	18 (16-20)	12 (1.4-22)	By-product of water chlorination	Yes	
Lead and Copper - 90% of samples must be less than the Action Level (AL). 90th Percentile and the number of samples exceeding AL are listed.												
Copper (Customer Tap Samples)	mg/L	1.3	AL=1.3	0.091 (2006)	None (2006)	0.025 None (2006)	0.091 None (2006)	0.036 None	0.25 None (2006)	0.106 None (2005)	Corrosion of household plumbing	Yes
Lead (Customer Tap Samples)	ug/L	0	AL=15	4.8 (2006)	None (2006)	3 None (2006)	4.8 None (2006)	3.8 Two	3 None (2006)	6 None (2005)	Corrosion of household plumbing	Yes

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.

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

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

pCi/L = Picocuries per liter, a measure of the radioactivity in water.