

MCWA - Water Quality Table

Detected Substances **2009 results except as noted**

Supply (Source)				Shoremont WTP (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	0.021 - 0.023	0.058 - 0.15	0.015 - 0.016	0.020 - 0.023	Erosion of natural deposits	Yes
Chloride	mg/L	NA	250	24 - 27	41 - 53	34 - 36	22 - 23	Naturally occurring	Yes
Fluoride	mg/L	NA	2.2	0.1 -1.1	NR	0.6 - 1.0	0.2 - 1.0	natural and additive - promotes strong teeth	Yes
Manganese	ug/L	NA	300	ND	40316	ND	3.1 - 12	Naturally occurring	Yes
Nitrate	mg/L	10	10	0.28 - 0.40	ND	0.010 - 0.28	0.02 - 0.23	Erosion of natural deposits	Yes
Sodium	mg/L	NA	NS	13 - 15	18 - 120	18 - 20	13 - 14	Naturally occurring	Yes
Sulfate	mg/L	NA	250	25	57	14	23	Naturally occurring	Yes
Radionuclides Gross Alpha	pCi/L	NA	15	ND (2003)	ND (2003)	ND (2001)	ND-1.7(2004)	Erosion of natural deposits	Yes
Radionuclides Gross Beta	mg/L	NA	50	ND (2003)	ND (2003)	ND (2001)	ND-2.2(2004)	Decay of natural deposits and man-made emissions	Yes
Organics, Pesticides, Herbicides									
Caffeine	ng/L	NS	NS	4 (2008)	NR	ND (2008)	NR	Pharmaceutical	Yes
Cotinine	ng/L	NS	NS	2.1 (2008)	NR	1.7 (2008)	NR	Pharmaceutical	Yes
Triclosan	ng/L	NS	NS	ND (2008)	NR	5.8 (2008)	NR	Personal care products	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 assess filtration performance .									
Turbidity - Entry Point	NTUs	NA	TT	0.04 - 0.12 1	NA	0.04 - 0.23 1	0.04 - 0.64 0.995	Soil runoff	Yes
Microbial - No more than 5% of monthly samples can be positive. The highest monthly % positive is listed.									
Coliform	% Positive	0	0.05	1.1% July	ND	1.1% July	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 *	1.1 (0.8-1.5)	0.6 (0.5 - 0.9)	0.8 (0.4-1.1)	1.4 (1.0 - 1.8)	Additive for control of microbes	Yes
Total THMs	ug/L	NA	80	33 (17-52)	41 (21 - 66)	36 (20-58)	41 (21 - 66)	Byproduct of water chlorination	Yes
Haloacetic Acids	ug/L	NA	60	11 (4-28)	14 (8-19)	19 (8-19)	14 (8-19)	Byproduct of water chlorination	Yes
Lead and Copper - 90% of samples must be less than the Action Level (AL). The 90th Percentile and the number of samples exceeding the AL are listed.									
Copper (Customer Tap Samples)	mg/L	1.3	AL=1.3	0.100 None	0.144 None	0.100 None	0.144 None	Corrosion of household plumbing	Yes
Lead (Customer Tap Samples)	ug/L	0	AL=15	4.3 None	1.7 None	4.3 None	1.7 None	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 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-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, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,3-Dichloropropene(Cis), 1,3-Dichloropropene(Trans), 1,3-dinitrobenzene, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2,2,4,4-tetrabromodiphenyl ether, 2,2,4,4,5,5-hexabromodiphenyl ether, 2,2,4,4,5,5-hexabromobiphenyl, 2,2,4,4,5,5-pentabromodiphenyl ether, Dioxin, 2,4 D, 2-4-5 TP, 2,4,6-trinitrotoluene (TNT), 2-Chlorotoluene, 3-Hydroxycarbofuran, 4,4'-DDT, 4-Chlorotoluene, Acetochlor, Acetaminophen, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldrin, Aluminum, Antimony, Arsenic, Atrazine, Benzene, Benzo(a)pyrene, Beryllium, Bromobenzene, Bromochloromethane, Bromomethane, Butachlor, Cadmium, Carbamazepine, Carbaryl, Carbofuran, Carbon Tetrachloride, Chlordane, Chlorobenzene, Chloroethane, Chloromethane, Chromium, cis-1,2-Dichloroethene, Cryptosporidium, Cyanide, DCPA, Dalapon, DBCP, Di(2-Ethylhexyl) Adipate, Di(2-Ethylhexyl) Phthalate, Diazepam, Dibromomethane, Dicamba, Dichlorodifluoromethane, Dichloromethane (Methylene Chloride), Dieldrin, Dimethoate, Dinoseb, Diquat, Endothall, Endrin, Estrone, Estradiol, Ethinyl Estradiol, Ethylbenzene, Fluoxetine, Gemfibrozil, Glyphosate, Gross Alpha, Giardia, Gross Beta, Heptachlor, Heptachlorepoxyde, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Ibuprofen, Iron, Isophorone, Isopropyl Benzene, Lindane, Iopromide, Manganese, Mercury, Methomyl, Methoxychlor, Metolachlor, Metribuzin, MTBE, n-Butylbenzene, Nickel, Nitrite, N-nitroso-di-n-butylamine, N-nitroso-di-n-propylamine, N-nitroso-diethylamine, N-nitroso-dimethylamine, N-nitroso-methylethylamine, N-nitroso-pyrrolidine, n-Propylbenzene, Oxamyl, PCB's, Pentachlorophenol, Pichloram, p-Isopropyltoluene, Progesterone, Propachlor, RDX, sec-Butylbenzene, Selenium, Silver, Simazine, Styrene, Sulfamethoxazole, Terbufos sulfone, tert-Butylbenzene, Testosterone, Tetrachloroethene, Thallium, Toluene, Toxaphene, trans-1,2-Dichloroethene, Trichloroethene, Trichlorofluoromethane, Trimethoprim, Tritium, Vinyl Chloride, Xylene, Zinc