

Table of Detected Contaminants
Inorganic Contaminants Found at Entry Point

Contaminant	Water Source	Violation Yes/ No	Date(s) of Sampling	Average Level found (Range)	Units Measured	MCLG	Regulatory Limit (MCL, TT, or AL)	Likely Source of Contamination
Aluminum	Otisco	No	Mar, Sep 2017	0.060 (ND- 0.070)	mg/l	N/A	N/A	Erosion of natural deposits; Residual aluminium may be from a chemical used in the treatment process.
	Ontario	No	Mar, Sep 2017	0.09 (ND- 0.131)	mg/l	N/A	N/A	
Barium	Otisco	No	Mar, Sep 2017	0.035 (0.032- 0.038)	mg/l	2	2	Erosion of natural deposits.
	Ontario	No	Mar, Sep 2017	0.021 (0.019- 0.024)	mg/l	2	2	
	Skaneateles	No	May-17	0.024	mg/l	2	2	
Calcium	Otisco	No	Mar, Sep 2017	39.5 (38-40)	mg/l	N/A	N/A	Naturally occurring.
	Ontario	No	Mar, Sep 2017	35.5 (35-36)	mg/l	N/A	N/A	
Chloride	Otisco	No	Mar, Sep 2017	43.6 (41-46)	mg/l	N/A	250	Naturally occurring; Road salts.
	Ontario	No	Mar, Sep 2017	29.2 (27-32)	mg/l	N/A	250	
	Skaneateles	No	May-17	23	mg/l	N/A	250	
Chlorite	Otisco	No	Daily	0.13 (ND- 0.22)	mg/l	N/A	1	By-product of drinking water disinfection at plant using chlorine dioxide.
Chlorine Dioxide Residual (1)	Otisco	No	Daily	70 (ND- 490)	ug/l	N/A	800 (MRDL)	By-product of drinking water disinfection at plant using chlorine dioxide.
Chlorine Residual (Free)	Otisco	No	Every 4 hrs.	1.12 (0.78- 1.47)	mg/l	N/A	4 (MRDL)	Added to water to kill harmful bacteria and to prevent the regrowth of bacteria
	Ontario	No	Every 4 hrs.	0.90 (0.51- 1.20)	mg/l	N/A	4 (MRDL)	
	Skaneateles	No	Every 4 hrs.	1.42 (0.89- 2.89)	mg/l	N/A	4 (MRDL)	

(1) Chlorine Dioxide and Chlorite were tested for daily for 211 days in 2017. For 211 days in 2017 OCWA was adding Chlorine Dioxide as a preoxidant in order to control Zebra Mussels at the intake, provide adequate disinfection, and control the formation of undesirable disinfection by-products such as Trihalomethanes and Haloacetic acids. OCWA intends to add Chlorine Dioxide again during warm water conditions in 2018.

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Chromium	Otisco	No	Mar, Sep 2017	1.0 (ND- 1.5)	ug/l	100	100	Erosion of natural deposits.
	Ontario	No	Mar, Sep 2017	0.75 (ND- 1.0)	ug/l	100	100	
	Skaneateles	No	May-17	1.9	ug/l	100	100	
Chromium 6 (2)	Otisco	No	Oct 2017	0.035	ug/l	N/A	N/A	Erosion of natural deposits; Industrial sources.
	Ontario	No	Oct 2017	0.094	ug/l	N/A	N/A	
	Skaneateles	No	Oct 2017	0.045	ug/l	N/A	N/A	
Copper	Otisco	No	Mar, Sep 2017	0.009 (0.003- 0.014)	mg/l	N/A	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
	Ontario	No	Mar, Sep 2017	0.007 (0.004- 0.011)	mg/l	N/A	AL = 1.3	
	Skaneateles	No	Feb 2016	0.011	mg/l	N/A	AL = 1.3	
Cyanide	Skaneateles	No	May 2017	6.1	ug/l	200	200	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
Fluoride (3)	Otisco	No	Daily	0.72 (0.20- 0.85)	mg/l	N/A	2.2	Erosion of natural deposits; Water additive that promotes strong teeth; discharge from fertilizer.
	Ontario	No	Daily	0.72 (0.63- 0.79)	mg/l	N/A	2.2	
	Skaneateles	No	Daily	0.78 (0.56- 0.96)	mg/l	N/A	2.2	
Magnesium	Otisco	No	Mar, Sep 2017	10.9 (10.9- 10.9)	mg/l	N/A	N/A	Naturally occurring.
	Ontario	No	Mar, Sep 2017	9.16 (9.14- 9.19)	mg/l	N/A	N/A	
Manganese	Otisco	No	Mar, Sep 2017	0.005 (ND- 0.0042)	mg/l	N/A	N/A	Naturally occurring.

(2) Chromium 6: Although it is not regulated, OCWA took samples from the entrance point of the distribution representing water treated from Otisco, Ontario and Skaneateles Lakes and had them tested for Chromium 6 at low detection levels. The results are shown in the table above. Also in 2015, OCWA took samples representative of all 3 of the source waters and had them tested for Chromium 6. This was done as part of the Unregulated Contaminant Rule. These results can be seen on page 21. For more information on Chromium 6 see page 23.

(3) Information on Fluoride Addition: OCWA is one of many drinking water systems that provide drinking water with a controlled, low level of fluoride for consumer dental health protection. According to the United States Center for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal dose of 0.7 mg/l. To ensure that the fluoride supplement in your water provides optimal dental protection, the NYS Health Department requires that we monitor fluoride levels on a daily basis. During 2017 monitoring showed fluoride levels in your water were within 0.1mg/l of the optimal dose; 99% of the time for Otisco Lake water, 100% of the time for Lake Ontario water, and 79% for Skaneateles water.

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Lead	Otisco	No	Mar, Sep 2017	0.9 (ND- 1.4)	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits.
Nickel	Otisco	No	Mar, Sep 2017	0.9 (ND- 1.5)	ug/l	N/A	N/A	Erosion of natural deposits.
	Ontario	No	Mar, Sep 2017	0.9 (ND- 1.6)	ug/l	N/A	N/A	
	Skaneateles	No	May 2017	0.82	ug/l	N/A	N/A	
Nitrate	Otisco	No	Mar, Sep 2017	0.57 (0.44- 0.69)	mg/l	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.
	Ontario	No	Mar, Sep 2017	0.35 (0.27- 0.44)	mg/l	10	10	
	Skaneateles	No	May 2017	0.43	mg/l	10	10	
Sodium (4)	Otisco	No	Mar, Sep 2017	26.0 (24.5- 27.6)	mg/l	N/A	See Health Effects*	Naturally occurring; Road salts; water softeners; animal wastes.
	Ontario	No	Mar, Sep 2017	20.6 (19.3- 21.9)	mg/l	N/A	See Health Effects*	
	Skaneateles	No	May 2017	12	mg/l	N/A	See Health Effects*	
Sulfate	Otisco	No	Mar, Sep 2017	14.6 (14.1- 15.2)	mg/l	N/A	250	Naturally occurring.
	Ontario	No	Mar, Sep 2017	26.9 (26.2- 27.7)	mg/l	N/A	250	
	Skaneateles	No	May 2017	14	mg/l	N/A	250	
Zinc	Otisco	No	Mar, Sep 2017	0.010 (ND- 0.008)	mg/l	N/A	5	Naturally occurring; Mining waste.
	Ontario	No	Mar, Sep 2017	0.010 (ND- 0.008)	mg/l	N/A	5	

(4) Health Effects of Sodium: There is no MCL for Sodium. However, 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 diets.