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, Sept 2021	0.039 (0.027 - 0.052)	mg/l	N/A	N/A	Erosion of natural deposits; Industrial sources
	Ontario	No	Mar, Sept 2021	0.091 (0.046 -0.140)	mg/l	N/A	N/A	
Barium	Otisco	No	Mar, Sept 2021	0.034 (0.033 - 0.035)	mg/l	2	2	Erosion of natural deposits.
	Ontario	No	Mar, Sept 2021	0.0197 (0.0195 - 0.0199)	mg/l	2	2	
	Skaneateles	No	May 2021	0.22	mg/l	2	2	
Calcium	Otisco	No	Mar, Sept 2021	39.6 (34.8 - 44.3)	mg/l	N/A	N/A	Naturally occurring.
	Ontario	No	Mar, Sept 2021	34.2 (31.2 - 37.1)	mg/l	N/A	N/A	
Chloride	Otisco	No	Mar, Sept 2021	47.4 (45.1 - 49.6)	mg/l	N/A	250	Naturally occurring; Road salts.
	Ontario	No	Mar, Sept 2021	28.5 26.6 - 30.4	mg/l	N/A	250	
	Skaneateles	No	May 2021	22.0	mg/l	N/A	250	
Chlorite (1)	Otisco	No	Daily	0.26 (<0.01 - 0.41)	mg/l	N/A	1	By-product of drinking water disinfection at plant using chlorine dioxide.
Chlorine Dioxide Residual (1)	Otisco	No	Daily	10 (< 10 - 120)	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	1.06 (0.90 - 1.26)	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	0.94 (0.60 - 1.27)	mg/l	N/A	4 (MRDL)	
	Skaneateles	No	Every 4 hrs	1.26 (0.48 -2.67)	mg/l	N/A	4 (MRDL)	

(1) **Chlorite and Chlorine Dioxide** were tested daily for 212 days in 2021. For 212 days in 2021, OCWA added chlorine dioxide at Otisco's intake as a preoxidant in order to control zebra mussels, 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 the warm water conditions in 2022.

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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
Chromium 6 (2)	Ontario	No	Nov 2021	0.069	ug/l	N/A	N/A	Erosion of natural deposits; Industrial sources
	Skaneateles	No	Nov 2021	0.031	ug/l	N/A	N/A	
Copper	Ontario	No	Mar, Sept 2021	0.003 (0.0023-0.0040)	mg/l	N/A	AL = 1.3	Erosion of natural deposits
Fluoride (3)	Otisco	No	Daily	0.69 (0.61 - 0.80)	mg/l	N/A	2.2	Erosion of natural deposits; Water additive that promotes strong teeth; discharge from fertilizer
	Ontario	No	Daily	0.70 (0.62 - 0.76)	mg/l	N/A	2.2	
	Skaneateles	No	Daily	0.72 (0.11 - 1.21)	mg/l	N/A	2.2	
Magnesium	Otisco	No	Mar, Sept 2021	12.0 (10.9 -13.0)	mg/l	N/A	N/A	Naturally occurring.
	Ontario	No	Mar, Sept 2021	9.1 (8.6 - 9.5)	mg/l	N/A	N/A	
Manganese	Otisco	No	Mar, Sept 2021	0.008 (<0.010 -0.012)	mg/l	N/A	0.3	Naturally occurring.
Nickel	Otisco	No	Mar, Sept 2021	0.00051 (0.00050 - 0.00052)	mg/l	10	10	Erosion of natural deposits; Industrial sources
	Ontario	No	Mar, Sept 2021	0.00062 (0.00059 - 0.00064)	mg/l	10	10	

(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. See page **22** for more information about Chromium 6.

(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. 2021 monitoring showed fluoride levels in your water were within 0.1mg/l of the optimal dose 100% of the time for Otisco Lake water and 100% of the time for Lake Ontario water.

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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
Nitrate	Otisco	No	Mar, Sept 2021	0.47 (0.36 - 0.58)	mg/l	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits
	Ontario	No	Mar, Sept 2021	0.27 (0.15 - 0.38)	mg/l	10	10	
	Skaneateles	No	May 2021	0.37	mg/l	10	10	
Sodium (4)	Otisco	No	Mar, Sept 2021	26.9 (24.7 - 29.1)	mg/l	N/A	See Health Effects	Naturally occurring; Road salts; water softeners; animal wastes
	Ontario	No	Mar, Sept 2021	17.9 (16.4 - 19.3)	mg/l	N/A	See Health Effects	
	Skaneateles	No	May 2021	11.0	mg/l	N/A	See Health Effects	
Sulfate	Otisco	No	Mar, Sept 2021	13.0 (12.4 - 13.6)	mg/l	N/A	250	Naturally occurring
	Ontario	No	Mar, Sept 2021	24.4 (23.7 - 25.0)	mg/l	N/A	250	
	Skaneateles	No	May 2021	11.6	mg/l	N/A	250	
Color	Otisco	No	Mar, Sept 2021	7 (5 - 9)	units	N/A	15	Organic chemicals, inadequate treatment, high disinfectant demand, copper, iron, manganese, decaying leaves, plants, soil organic material
	Ontario	No	Mar, Sept 2021	4 (ND - 5)	units	N/A	15	
Odor	Otisco	No	Mar, Sept 2021	1 (ND - 1)	units	N/A	3	Organic or inorganic pollutants from municipal or industrial waste, natural sources
	Ontario	No	Mar, Sept 2021	1 (ND - 1)	units	N/A	3	
	Skaneateles	No	May 2021	2	units	N/A	3	

(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.