

2021 DRINKING WATER QUALITY REPORT - TABLE OF DETECTED PARAMETERS

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Inorganic Contaminants							
Copper	No	June/July/ August 2020	0.0064 - 0.094 0.058 ⁽¹⁾	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	June/July/ August 2020	ND - 2.2 ND ⁽¹⁾	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Barium	No	12/08/21	0.013 - 0.028	mg/l	2.0	MCL - 2.0	Naturally occurring
Ammonia	No	01/06/21	ND - 4.8	mg/l	n/a	NONE	Naturally occurring
Sodium	No	01/12/21	ND - 44.5	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Nickel	No	5/26/21	ND - 0.0011	ug/l	n/a	No MCL	Naturally occurring
Magnesium	No	01/06/21	ND - 13.2	ug/l	n/a	No MCL	Naturally occurring
Chloride	No	12/08/21	ND - 61.8	mg/l	n/a	MCL = 250	Naturally occurring
Calcium	No	12/08/21	ND - 21.4	mg/l	n/a	No MCL	Naturally occurring
Nitrate	No	11/29/21	ND - 5.5	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Sulfate	No	01/06/21	ND - 31.8	mg/l	n/a	MCL = 250	Naturally occurring
Volatile Organic Contaminants							
Methyl Tert-Butyl Ether (MTBE)	No	07/02/21	ND - 2.4	ug/l	n/a	MCL = 5.0	Industrial discharge
Radionuclides							
Gross Alpha	No	06/03/20	1.78 - 3.4	pCi/L	0	MCL = 15	Naturally occurring
Gross Beta	No	11/30/20	1.05 - 2.79	pCi/L	0	MCL = 50	Naturally occurring
Radium 226 & 228	No	11/30/20	1.35 - 2.9	pCi/L	0	MCL = 5 ⁽³⁾	Naturally occurring
Uranium	No	06/03/20	0.89 - 1.7	ug/l	n/a	MCL = 30	Naturally occurring
Disinfectants							
Chlorine Residual	No	Continuous	0.26 - 1.54	mg/l	n/a	MRDL = 4.0	Measure of Disinfectant
Physical Characteristics							
pH	No	Continuous	6.4 - 7.7	pH units	n/a	7.5 - 8.5 ⁽⁴⁾	Measure of acidity or alkalinity
Calcium Hardness	No	12/08/21	39.5 - 53.4	mg/l	n/a	No MCL	Naturally occurring
Total Hardness	No	01/06/21	73.7 - 106.0	mg/l	n/a	No MCL	Naturally occurring
Total Alkalinity	No	01/12/21	20.5 - 70.5	mg/l	n/a	No MCL	Naturally occurring
Total Dissolved Solids (TDS)	No	12/08/21	172.0 - 234.0	mg/l	n/a	No MCL	Naturally occurring

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Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
UCMR3							
Perfluorobutanesulfonic Acid	No	10/29/21	ND - 2.6	ng/l	0	MCL = 50,000	Industrial discharge
Perfluoroheptanoic Acid	No	10/29/21	ND - 4.9	ng/l	0	MCL = 50,000	Industrial discharge
Perfluorohexanesulfonic Acid	No	10/29/21	ND - 3.4	ng/l	0	MCL = 50,000	Industrial discharge
Perfluorononanoic Acid (PFNA)	No	10/29/21	ND - 2.2	ng/l	0	MCL = 50,000	Industrial discharge
Synthetic Organic Contaminants (SOCs)							
1,4-Dioxane	No	05/10/21	ND - 0.44	ug/l	n/a	HA = 35 ⁽⁵⁾ MCL = 1.0	Industrial discharge
Perfluorooctanoic Acid (PFOA)	No	03/02/21	ND - 4.2	ng/l	0	HA = 70 ⁽⁶⁾ MCL = 10.0	Industrial discharge ⁽⁷⁾
Perfluorooctanesulfonic Acid (PFOS)	No	10/29/21	ND - 13.3	ng/l	0	HA = 70 ⁽⁶⁾ MCL = 10.0	Industrial discharge ⁽⁷⁾
Unregulated Contaminant Monitoring Rule - Phase 4 (UCMR4)⁽⁴⁾							
Manganese	No	01/17/19	0.62 - 30.8	ug/l	n/a	MCL = 300 ⁽⁸⁾	Naturally occurring
HAA5	No	07/30/19	0.33 - 1.3	ug/l	n/a	MCL = 60	Disinfection By-Products
HAA6Br	No	07/30/19	0.33 - 2.06	ug/l	n/a	No MCL	Disinfection By-Products
HAA9	No	07/30/19	0.33 - 2.06	ug/l	n/a	No MCL	Disinfection By-Products

Definitions:

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfection Level (MRDL) - 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.

Maximum Residual Disinfection Level Goal (MRDLG) - 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 contaminants.

Health Advisory (HA) - An estimate of acceptable drinking water levels for a chemical substance based on health effects information; a health advisory is not a legally enforceable Federal standard, but serves as technical guidance to assist Federal, State and local officials.

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Milligrams per liter (mg/l) - Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l) - Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Nanograms (ng/L) - Corresponds to one part of liquid in one trillion parts of liquid. (Parts per trillion-ppt).

Non-Detects (ND) - Laboratory analysis indicates that the constituent is not present.

pCi/L - pico Curies per Liter is a measure of radioactivity in water.

⁽¹⁾ - During 2020, we collected and analyzed 31 samples for lead and copper. The action levels for both lead and copper were not exceeded at any site tested. The values reported for lead and copper represent the 90th percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system. In our sampling program, the 90th percentile value is the 4th highest result.

⁽²⁾ - No MCL has been established for sodium. However, 20 mg/l is a recommended guideline for people on high restricted sodium diets and 270 mg/l for those on moderate sodium diets.

⁽³⁾ - MCL for Radium 226 and 228 is a combined total Radium = 5 pCi/L.

⁽⁴⁾ - As per Nassau County Department of Health guidelines.

⁽⁵⁾ - 1,4-Dioxane -The New York State (NYS) has established an MCL for 1,4 dioxane at 1 part per billion(ppb) effective August 26, 2020.

⁽⁶⁾ - The US environmental Protection Agency (EPA) has established a life time health advisory level (HAL) of 70 parts per trillion (ppt) for PFOA and PFOS combined. The New York State (NYS) maximum contaminant level (MCL) is 10 ppt for PFOA and 10 ppt for PFOS as of August 26, 2020.

⁽⁷⁾ - PFOA/PFOS has been used to make carpets, leathers, textiles, fabrics for furniture, paper packaging, and other materials that are resistant to water, grease, or stains. It is also used in firefighting foams. Many of these uses have been phased out by its primary U.S. manufacturer; however, there are still some ongoing uses.

⁽⁸⁾ - If iron and manganese are present, the total concentration of both should not exceed 500 ug/l.