

2024 drinking water quality report

INC. VILLAGE OF GARDEN CITY
PUBLIC WATER SUPPLY IDENTIFICATION NO. 2902824



ANNUAL WATER SUPPLY REPORT

MAY 2025

The Village of Garden City is pleased to present to you the 2024 Water Quality Report. The report is required to be delivered to all residents of our Village in compliance with Federal and State regulations and is designed to inform you about the quality water and services we deliver to you on a daily basis. It is important to the Village that our residents are familiar with the efforts that are taken to protect our water resources and to continually improve the water treatment process. Our goal is to deliver the highest quality water to your home.

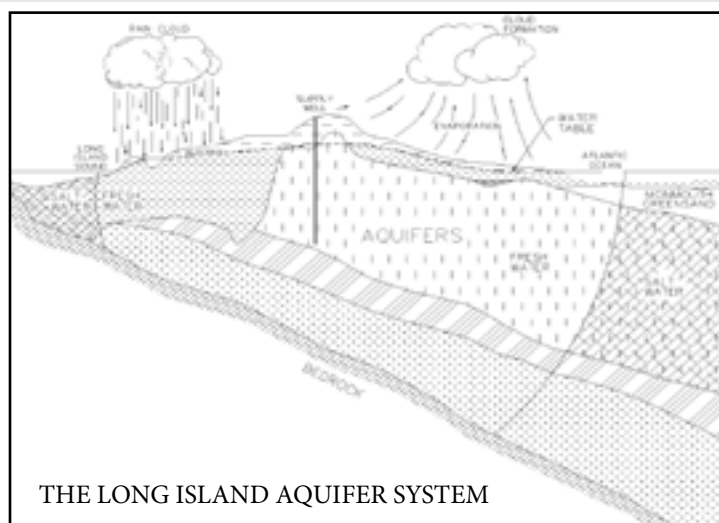
SOURCE OF OUR WATER

The Village's source of water is groundwater pumped from 10 wells located throughout the Village that are drilled into the Magothy aquifer located beneath Long Island, as shown on the adjacent figure. Generally, the water quality of the aquifer is good to excellent, although there are localized areas of contamination.

We are pleased to report that our drinking water is safe and meets all Federal and State requirements.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants.

In order to ensure that our tap water is safe to drink, the State and the EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



THE LONG ISLAND AQUIFER SYSTEM

The population served by the Village of Garden City during 2024 was approximately 28,000. The total amount of water withdrawn from the aquifer in 2024 was 1.78 billion gallons, of which approximately 80 percent was billed directly to consumers.

WATER TREATMENT

The Village of Garden City provides treatment at all wells to improve the quality of the water pumped prior to distribution to the consumer. The pH of the pumped water is adjusted upward to reduce corrosive action between the water and water mains and in-house plumbing by the addition of caustic soda. Air stripping treatment units are utilized at Well Nos. 8, 9, 10, 11, 12, 13, 14, 15 and 16 for the removal of volatile organic compounds. Advanced Oxidation Process (AOP) and Granular Activated Carbon (GAC) systems are utilized at Well Nos. 7, 10 and 11 for all of 2024. Well Nos. 8, 12, 13, 14 and 16 operated with AOP and GAC since early 2024. An iron removal treatment system is utilized for Well Nos. 15 and 16. The treatment system removes almost all of the iron from Well No. 16. Well No. 15 did not operate in 2024 due to high levels of iron. The Village also adds small amounts of calcium hypochlorite (chlorine) as a disinfecting agent and to prevent the growth of bacteria in the distribution system. In November 2022, the Village began adding orthophosphate to mitigate corrosion.

COST OF WATER

The Village utilizes the following step billing schedule with the average consumer being billed at \$4.55 per 1,000 gallons. The rates shown here are for the fiscal year 2024-2025.

QUARTERLY WATER RATES

Consumption (cubic feet)	Charges
Up to 2,000	\$60

2024 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
Lead and Copper Rule							
Copper	No	December 2024	ND - 0.061 0.031 ⁽¹⁾	ug/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead	No	December 2024	ND - 71.9 20.0 ⁽¹⁾	mg/l	0	AL = 15	Corrosion of household plumbing systems and service lines connecting building to water mains, erosion of natural deposits
Inorganic Contaminants							
Barium	No	04/16/24	0.003 - 0.025	mg/l	2.0	MCL = 2.0	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium	No	07/08/24	14.1 - 46.1	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring; Road salt; Water softeners; Animal waste
Manganese	No	10/10/24	ND - 0.042	ug/l	n/a	MCL = 300 ⁽³⁾	Naturally occurring; Indicative of landfill contamination
Chloride	No	07/08/24	24.7 - 94.3	mg/l	n/a	MCL = 250	Naturally occurring or indicative of road salt contamination
Nickel	No	04/16/24	ND - 0.0073	mg/l	n/a	No MCL	Naturally occurring
Calcium	No	04/16/24	7.3 - 15.7	mg/l	n/a	No MCL	
Magnesium	No	07/17/24	4.0 - 7.1	mg/l	n/a	None	
Sulfate	No	07/17/24	14.7 - 30.1	mg/l	n/a	MCL = 250	
Nitrogen, Ammonia	No	04/16/24	ND - 0.11	mg/l	n/a	No MCL	
Nitrate	No	07/11/24	0.43 - 5.9	mg/l	10	MCL = 10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite	No	07/11/24	0.43 - 5.9	mg/l	10	MCL = 10	
Nitrite	No	04/16/24	ND - 0.068	mg/l	10	MCL = 10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Bromide	No	06/10/24	0.07 - 0.15	mg/l	0	No MCL	Industrial discharge
Selenium	No	05/28/24	ND - 2.5	ug/l	50	MCL = 50	
Hexavalent Chromium	No	08/12/24	ND - 0.45	ug/l	0	No MCL	Natural deposits
Perchlorate	No	07/11/24	ND - 3.4	ug/l	0	AL = 18 ⁽⁴⁾	Oxygen additive in solid fuel propellant for rockets, missiles, and fireworks
Odor	No	05/28/24	ND - 1.0	Units			

