

Board of Commissioners

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Cathedral Gardens Water District

2018

Drinking Water Quality Report

Public Water Supply Identification No.: 2902859

ANNUAL WATER SUPPLY REPORT

MAY 2019

Cathedral Gardens Water District

www.cathedralgardenswaterdistrict.com

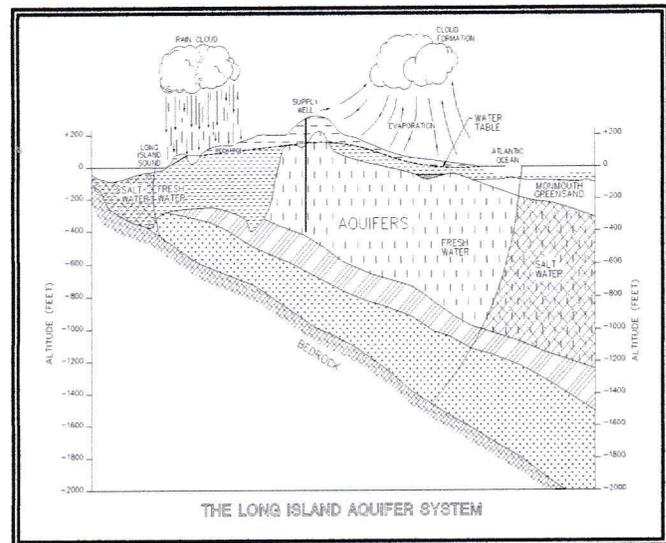
The Cathedral Gardens Water District is pleased to present to you this year's Water Quality Report. The report is required to be delivered to our entire District in compliance with Federal and State regulations. Our constant goal is to provide you with a safe and dependable supply of drinking water every day. We also want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. The Board of Water Commissioners is committed to ensuring that you and your family receive the highest quality water.

SOURCE OF OUR WATER

The residents of the Cathedral Gardens Water District receive their water from the neighboring West Hempstead Water District. The wells and treatment systems are maintained and operated by the West Hempstead Water District.

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 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 and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The population served by the Cathedral Gardens Water District during 2018 was 1,500. The total amount of water used by the District in 2018 was approximately 42,711,000 gallons.



CONTACTS FOR ADDITIONAL INFORMATION

Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminate level or any other water quality standard with the exception for iron. Iron content in the water is not a health concern, but is only an aesthetic issue. The West Hempstead Water District operates an iron removal treatment facility that reduces the iron in water before it is pumped to Cathedral Gardens. If you have any questions about this report or your water utility, please contact the Water District at (516) 489-6030 or the Nassau County Department of Health at (516) 227-9692. In addition, Water District meetings are normally held each 2nd and 4th Tuesday of the month at 6:00 p.m. at the District office. We want our valued customers to be informed about our water system and the improvements that are being made to enhance the quality of the water.

**** Lead.** If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. The Cathedral Gardens Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2

Continued on page 2

minutes

before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

WATER CONSERVATION MEASURES

The underground water system of Long Island has more than enough water for present water demands. However, saving water will ensure that our future generations will always have a safe and abundant water supply.

In 2018, the Cathedral Gardens Water District continued to implement a water conservation program in order to minimize any unnecessary water use. Residents of the District can also implement their own water conservation measures such as retrofitting plumbing fixtures with flow restrictors, modifying automatic lawn sprinklers to include rain sensors, repairing leaks in the home, installing water conservation fixtures/appliances and maintaining a daily awareness of water conservation in their personal habits. In addition, our consumers should be aware that the Nassau County Lawn Sprinkler Regulations are still in effect as outlined below. Besides protecting our precious underground water supply, water conservation will produce a cost savings to the consumer in terms of both water and energy bills (hot water).

The Cathedral Gardens Water District in cooperation with the West Hempstead Water District is embarking on an improvement program to replace all the existing water meters with new remote automatic meter reader systems. This means once your new meter has been installed **free of charge**, no one will require access to your premises because your meter will be read remotely and accurately. No more estimated bills, no more high "catch-up" bills.

If you have not yet done so, please call the West Hempstead Water District at 483-1180 between 8:30 a.m. and 4:30 p.m. for an appointment at your earliest convenience. As long as your interior water meter valves are in good working condition, the changeover can be accomplished in a short period of time.

**If you have an original lead water service line coming into your home, old gate valves on the street side of your line or any other things you have questions about, please feel free to contact us by phone at 516-489-6030 or by e-mail at cathedralwater@yahoo.com.

SOURCE WATER ASSESSMENT

The NYSDOH, with assistance from the local health department, has completed a source water assessment for the West Hempstead Water District system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to

reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. See the section entitled "Water Quality" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting the West Hempstead Water District office.

WATER QUALITY

These tests were conducted on samples taken from various locations throughout the community. Where more than one analysis per year was conducted for a specific constituent, the range of results, from highest to lowest, during the reporting period is listed. The applicable State guideline, standard or maximum contaminant level (if available) for each constituent is listed.

In accordance with State regulations, the Cathedral Gardens Water District, routinely monitor your drinking water for numerous parameters. We test your drinking water for coliform bacteria, turbidity, inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, total trihalomethanes and synthetic organic contaminants. Over 135 separate parameters are tested for in our distribution water. The table presented on page 3 depicts which parameters or contaminants were detected in your drinking water. It should be noted that many of these parameters are naturally found in all Long Island drinking water and do not pose any adverse health effects.

Copies of a Supplemental Data Package, which includes the water quality data for each of the supply wells utilized during 2018, can be requested by contacting the District at cathedralwater@yahoo.com or call the office at 516.489.6030. Copies are also available for review at the West Hempstead Water District office located at 575 Birch Street, West Hempstead, NY 11552

COST OF WATER

In 2018 the District utilized the following step billing schedule with the average consumer being billed at approximately \$2.50/1000 gallons.

Quarterly Water Rates Residential

- Base Meter-.75"= \$25.00
- Base Meter-1"=\$30.00
- Base Meter-1.5"=\$35.00
- Base Meter-2"=\$40.00
- Base Meter->2"-\$50.00

<u>Consumption (gallons)</u>	<u>Charges</u>
0-20,000	\$3.20/thousand gallons
20,001 – 40,000	\$3.80/thousand gallons
40,001 – over	\$4.40/thousand gallons

Quarterly Water Rates Commercial

- Base Meter-.75"= \$25.00
- Base Meter-1"=\$30.00
- Base Meter-1.5"=\$35.00
- Base Meter-2"=\$40.00
- Base Meter->2"-\$50.00

<u>Consumption (gallons)</u>	<u>Charges</u>
0-20,000	\$3.80/thousand gallons
20,001 – 40,000	\$4.50/thousand gallons
40,001 – over	\$5.20/thousand gallons

2018 WATER QUALITY REPORT - TABLE OF DETECTED PARAMETERS

Contaminants or Constituents	Violation (Yes/No)	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Inorganic Contaminants							
Copper	No	08/20/17	0.04	mg/l	1.3	AL = 1.3	Corrosion of galvanized pipes; Erosion of natural deposits
Lead	No	08/20/17	<1.00	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Sodium	No	05/15/18	25.5	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Zinc	No	05/15/18	<0.02	mg/l	n/a	MCL = 5	Naturally occurring
Chloride	No	05/15/18	14.3	mg/l	n/a	MCL = 250	Naturally occurring
Iron	No	05/15/18	0	mg/l	n/a	MCL = 300	Naturally occurring
Nitrate	No	05/15/18	<0.05	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Sulfate	No	05/15/18	20.4	mg/l	n/a	MCL = 250	Naturally occurring
Calcium	No	05/15/18	5.5	mg/l	n/a	None	Naturally occurring
Volatile Organic Contaminants and Disinfection By-Products							
Dichlorodifluoromethane	No	05/15/18	<0.50	ug/l	n/a	MCL=5	Refrigerant chemical
Total Trihalomethanes	No	05/15/18	2.2	ug/l	n/a	MCL = 80	By-Product of chlorination
Radionuclides							
Gross Alpha	No	09/27/16	ND-1.07	pCi/L	n/a	MCL=15	Naturally Occurring
Gross Beta	No	09/27/16	0.46-1.7	pCi/L	n/a	MCL=50	Naturally Occurring
Combined Radium 226 & 228	No	09/27/16	0.56-1.72	pCi/L	n/a	MCL=5	Naturally Occurring
Uranium	No	09/27/16	ND-0.54	ug/l	n/a	MCL=30	Naturally Occurring
Unregulated Contaminant Monitoring Rule							
1,4-Dioxane	No	9/26/2018	ND-1.2	ug/l	n/a	HA-35	Industrial Discharge
Strontium	No	2/21/2013	ND-14.0	ug/l	n/a	HA=4,000	Naturally Occurring
Hexavalent Chromium	No	8/15/2013	0.053-0.058	ug/l	n/a	No MCL	Natural Deposits
Chlorate	No	8/15/2013	41.0-94.0	ug/l	n/a	No MCL	Naturally Occurring

*All results represent testing conducted by the Cathedral Gardens Water District.

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

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

Nephelometric Turbidity Unit (NTU) - A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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).

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

(1) - During 2017 we collected and analyzed 11 samples for lead and copper. The 90th percentile level is presented in the table. The action levels for both lead and copper were not exceeded at any site tested. The next round of sampling for lead and copper will occur in 2020.

(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) - UCMR3 - Unregulated Contaminant Monitoring Rule 3 is a Federal water quality sampling program where water suppliers sample and test their source water for 1 year. Results will be used by the USEPA to determine if the contaminants need to be regulated in the future. The District conducted additional voluntary testing in 2016 for some parameters.

Total Coliform: Negative 5/15/2018

Treatment: Chlorine for disinfection, Sodium Hydroxide for PH adjustment, Air Stripping for VOC removal and Iron removal.

Treatment Process: Treatment provided by West Hempstead Water District and no treatment provided by the Cathedral Gardens Water District

pCi/L: pico curies per liter is a measurement of radioactivity in water.

90th Percentile: The 90th percentile is typically the point at which 10% of the highest scores fall

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 a technical guidance to assist Federal, State and local officials.

Cathedral Gardens Water District
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