

PROGRESS IN 2022

Infrastructure is a topic that has recently inundated national and local news, and for good reason: Infrastructure is vitally important and affects the lives of all Americans every day. At the Greenlawn Water District another term, 'preventive maintenance' carries equal importance because that process keeps our infrastructure operating efficiently, maintains full compliance and helps to control costs despite supply chain limitations. Here are major projects that are underway.

>> Well #12:



Well #12 Huntsman Lane, Commack is a \$5M project nearing completion. It is receiving Advanced Oxidation Process (AOP), an aqueous phase process that typically uses two or more oxidizing agents to eliminate problem chemicals, in this case 1-4 Dioxane. Once Well #12 is online at 1,200 gallons per minute (gpm), the plan is to take another well offline without affecting overall capacity. Two new GAC vessels containing 40,000 pounds of carbon apiece are being installed. The plan calls for final paving, fencing and landscaping to blend in with the surrounding community.

>> Well #4:



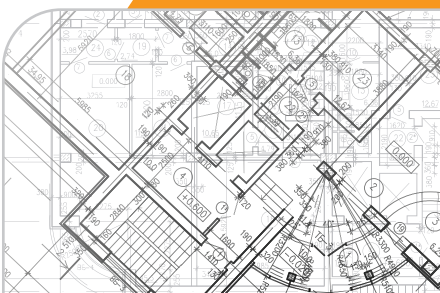
The Clay Pitts Road well is back online after refurbishment that included pulling and inspecting well pumps and replacing them with new well pumps. The capacity of Well #4 is 1,500 gpm as authorized by the New York State Department of Environmental Conservation (NYS DEC).

>> Well #6:



Located on Jericho Turnpike in Commack under the Greenlawn Tank, Well #6 is nearly finished with a complete \$1.1 million rehabilitation effort including a new roof, windows and doors on the existing facility. Built in 1960, Well #6 had exceeded its service life and received new electric motor controls to run the well, chemical pumps, electric and plumbing as well as a new backup generator for emergency deployment. Despite supply chain shortages and delays, the project is substantially complete and scheduled for early fall, 2022.

>> Well #8 and Well #11:



Well #8 at Burr Road in Commack and Well #11 at Pulaski Road in Greenlawn have had GAC (Granular Activated Carbon) filters in place to treat potable water for the removal of volatile organic compounds for some years. Preliminary plans are underway in anticipation of the need for future 1,4-Dioxane treatment. Cost estimates are in excess of \$5 million per well. The GWD and its engineering firm proactively applied for grants and very recently were awarded grants of up to \$3 million dollars for treatment of each well.



BEING PROACTIVE AND STAYING PROACTIVE:

Effective preventive maintenance is reliant upon proactivity. The GWD inspects facilities daily and systems regularly to ensure that their service lives and compliance meet all regulations. In keeping with our plan, we have preliminarily proposed AOP treatment for Well #8 and Well #11. We are investigating costs and arranging funding for potential 2023 deployment.

SECURITY AND SAFETY:

Our water treatment wells and office facilities are also checked daily for advanced security purposes. This monitoring involves SCADA, our Supervisory Control and Data Acquisition system. All of our networks have been hardened and have upgraded communications equipment and firewalls. Our operating processes and personnel safety procedures also receive regular periodic review.



WATER: USE IT & SAVE IT.

Turn on the tap, and the water comes out. Set your irrigation system's timer and the lawn is watered automatically. It may seem like water is that simple, but it's not, which is why as stewards of the public interest we urge consumers to conserve Earth's most precious natural resource.

Effective conservation means greater water daily availability for all and sufficient supply for emergencies including firefighting and droughts.

"Providing water on demand is a marriage of technology and pure hard work," Commissioner John McLaughlin stated. "In Greenlawn as well as across Long Island, groundwater is pumped from wells into a distribution system, a network of subterranean water mains that delivers it to connected homes and businesses. In our case, we service and maintain over 200

miles of pipes. Also connected to our distribution system are elevated and ground storage tanks with a capacity of over 6,000,000 gallons. The water is pumped, treated as needed to bring it into compliance with all regulations and released into the distribution system."

The District's aggressive conservation policy dates back before the NYS Department of Environmental Conservation mandated "a concerted effort" to reduce peak season water demand by 15%. "Summer lawn watering puts tremendous stress on water suppliers, often

5 times average monthly demand. Most lawns are overwatered. Saving water through less and more judicious summer watering will reduce the stress on supply wells and other infrastructure," the Commissioner added.



Commissioner
John McLaughlin

"While our preventive maintenance and leak-detection programs have been successful, the public must be made further aware of the importance of reducing water usage and especially eliminating water waste by following recommended conservation methods. A little effort to conserve in the present goes a long way toward sustainability in the future."

“ In our case, we service and maintain over 200 miles of pipes... ”

97%

of water on earth (332 million cubic miles) is found in oceans, with some 1.2% freshwater held in glaciers, ice, lakes, rivers or subsurface. Considering no one knows what the rest of 2022 will bring, conservation of drinking water to achieve sustainability makes sense.

• Leaky faucets and running toilets are just money down the drain! Have them repaired.

• Don't run the hose while washing cars!

• Water saving shower heads can reduce water usage and lower bills.

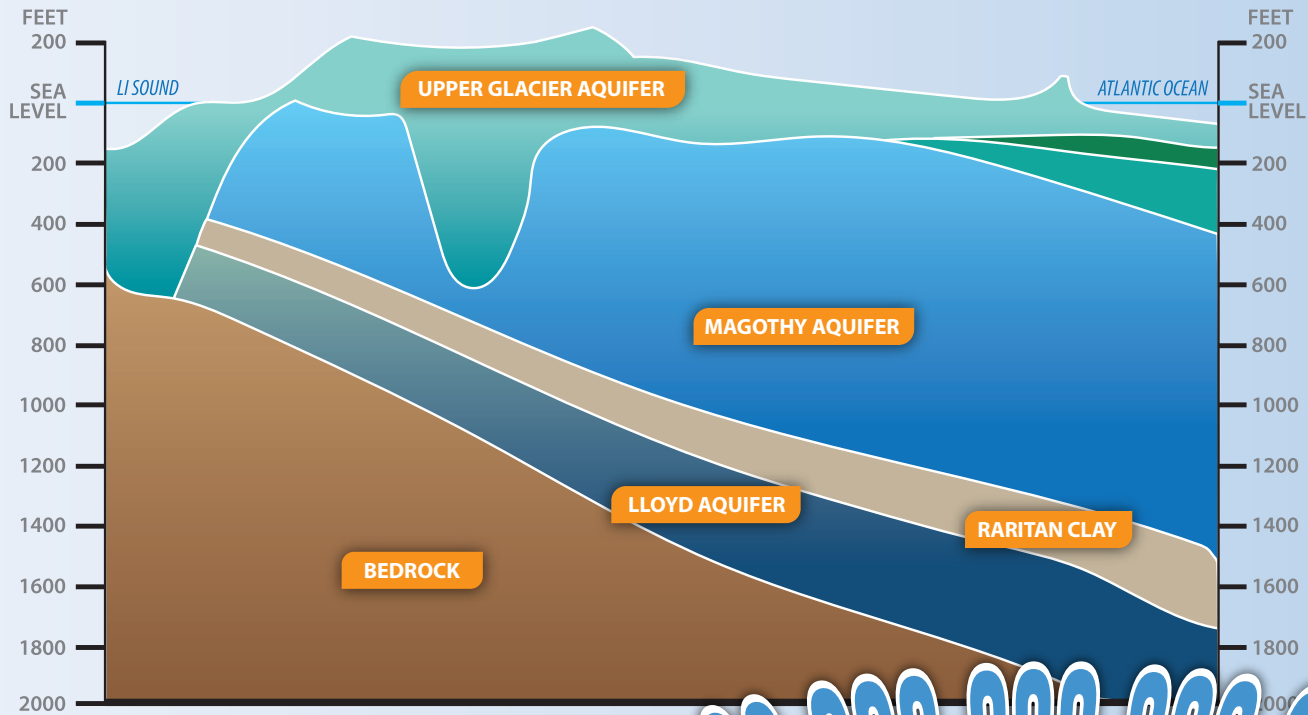
• Turn off the faucet while you brush your teeth.

• Watering lawns is most efficient during the early or late parts of the day.

• Never over-water lawns. It's bad for the lawn and your pocketbook.

SAVING WATER
on the Water Planet

RECHARGING OUR AQUIFERS



It is encouraging to know that Long Island's aquifers are among the most prolific in the United States. In fact, they contain an estimated 90 trillion gallons of fresh water. This fresh water comes from precipitation, averaging some 44 inches, annually. Surface water from precipitation and snowmelt serves to continually recharge and replenish Long Island's aquifers. It progresses through hundreds of feet of closely packed sand, gravel, pebbles and soil, and is filtered of most impurities before ever reaching the aquifers. Precipitation and snowmelt replenish more water than is pumped out annually, but without meticulous day-to-day oversight and management, that could change.

90,000,000,000,000
GALLONS



Determination Pays off for **GWD CONSUMERS**

Metering Program nearing completion

Despite weather issues, supply chain availability and COVID-19 outbreaks, our Meter Replacement Program is approaching its final phase...on schedule!

"It seemed like anything that could interrupt the replacement of old analog meters with new digital meters came to pass, but we are finishing installation slightly ahead of schedule and under budget," Commissioner Jim Logan stated.

"It's a tribute to the hard work and determination of our people in the field and our initial plan. And District consumers reap the rewards."

Begun in 2016, the Meter Replacement Program has replaced nearly 12,000 meters, with the remaining outliers, mostly larger commercial services, scheduled.



Commissioner
Jim Logan

Digital Metering Benefits

- Computerized water usage accuracy to 1/10 of a gallon
- Computerized billing accuracy, no more estimates
- Remote meter reading
- Vastly better leak detection and faster repairs
- Increased conservation of our most precious resource

95

- YEARS -



Celebrating 95 Years of Service

HAPPY BIRTHDAY TO US!

On July 7, the Greenlawn Water District turned 95! A great many people have worked very hard to deliver the highest quality water to our residents through the years, and GWD has won multiple "Best Tasting water" accolades as a result. Congratulations to our District staff, Commissioners John McLaughlin, Jim Logan and John Clark and Superintendent Bob Santoriello on a job well done. And thank you to all our residents for allowing us to be of service to you for nearly a century.

MESSAGE FROM THE SUPERINTENDENT

In our efforts to keep consumers informed, we wish to advise you on our current projects and water quality. New York State recently became the first state to establish new regulations for emerging contaminant compounds 1,4-Dioxane and PFOA/PFOS. Previously unregulated, the compounds now have a Maximum Contaminant level (MCL) of 1 ppb (part per billion) and 10 ppt (part per trillion) respectively.

1,4-Dioxane is a solvent widely used in past industrial processes. Remediation is accomplished with Advanced Oxidation Process (AOP), a new treatment technology which uses UV light, hydrogen peroxide and Granular Activated Carbon (GAC). This system is very costly to construct and time intensive. Recognizing this, the New York State Department of Health established a deferral program for those applicants who met the criteria, which allowed a time extension to complete construction of these specialized treatment systems. Greenlawn Water District was approved for the deferral, and we are near completion with the first system in our Commack area zone.

NOTE: The deferral notification postcard you recently received is a requirement under the deferral agreement.

PFOA/PFOS are two constituents of a very large group of perfluorinated compounds formerly used in industrial applications and many consumer products. These compounds are more easily removed with conventional treatment systems using GAC than 1,4 Dioxane. We presently have four operational GAC filters for removal of volatile organic contaminants as well as PFOA/PFOS where detected.

Most important of all, NO water has been delivered to consumers that exceeds the newly adopted standards or any long-standing NYS drinking water regulations.

Since 1927 we have proudly supplied consumers with pure drinking water and have maintained one of Long Island's lowest rates. We intend to do everything possible to keep it that way.

Bob Santoriello, Superintendent

Long Island's weather is legendary for its



CHANGEABILITY

It sometimes seems like Long Island weather is an unpredictable succession of sweltering summer humidity, followed by a period of dodging hurricanes and then by winter's cold winds.

Winter temperatures, icing and snows necessitate a special effort to protect your property and ensure an uninterrupted water supply. For all Greenlawn residents, especially for snowbirds who fly south for the winter or even for a quick vacation, these inside and outside tips can eliminate hassles, unexpected costs and serious inconveniences.



**Commissioner
John Clark**

>> **INSIDE:**

When temperatures fall, pipes can freeze and break. Where is your shut-off valve? Don't wait until you are confronted with a water emergency. Make sure everyone in your home knows where it is and how to turn it off.

Survey your home. Are there cracks or openings in walls, floors or ceilings? Caulking and insulation are effective, inexpensive ways to fix what could develop into large problems.

Be sure to insulate all water pipes in unheated or underheated areas.

>> **OUTSIDE:**

- Disconnect all hoses to prevent freezing and cracking and store them properly.
- Turn off all exterior spigots from inside your home. Let the lines drain, and leave spigots open for best protection.
- Survey the outside of your house for exposed, vulnerable water pipes. Insulation will help protect them. Foam insulation covers are available.
- Locate your water meter pit cover. It is likely in your lawn in a direct line from your water service. Make sure it is not damaged and is securely locked down. If you are unsure, call the GWD.
- If you have a sprinkler system, have it shut down, drained and properly winterized.

>> **HYDRANTS:**

For your own safety, and the safety of the public, firemen and EMTs, please keep fire hydrants free from snow and ice accumulation as well as debris. Visible hydrants can be readily accessed. Every second counts when there is a fire, for yourself, your family, your house or office, and for firefighters and EMTs.

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District Election

The annual election for the office of Greenlawn Water District Commissioner will be held:

When: Tuesday, December 13, 2022

Time: From 3:00PM until 9:00PM

Where: Greenlawn Water District Office,
45 Railroad Street,
Greenlawn, NY 11740

Purpose/eligibility: To elect one commissioner for a three-year term. Any resident who has lived in the Greenlawn Water District for at least thirty days and who is a registered voter is eligible to vote in the election.

ONLINE Latest Water Report

It's important for everyone to have easy access to information about the water that the GWD provides. Your 2021 Drinking Water Quality Report gives you the facts, figures and details regarding what's in our water, our systems, treatment installed, sources of supply, cost of water and water conservation measures as well as how our water complies with all local, state and federal guidelines. A Table of Detected Parameters is included along with suggested Water Conservation Measures. The report is issued annually according to New York State regulations.



Information is available online at: <http://www.greenlawnwater.org/water-report>. Printed copies are also available at:

- Greenlawn Water District office, 45 Railroad Street, Greenlawn
- Commack Public Library, 18 Hauppauge Road, Commack
- Elwood Public Library, 1929 Jericho Turnpike, Elwood
- Harborfields Public Library, 31 Broadway, Greenlawn

CHECK IT OUT!