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What to expect when we begin operations?

When Genesee County begins treating your water this month, there will be NO source water switch. You will continue to receive the same Lake Huron water you now get from the Detroit System. The treatment processes will remain the same, mirroring procedures used to treat our current drinking water. Corrosion control, inhibitors, and phosphates will remain in place. It is our goal that you will not see any noticeable difference to your drinking water after we begin operations, and we believe we are in position to achieve that goal.

We have completed months of rigorous testing, and are currently test treating water out of our plant, meeting all standards set by the DEQ and EPA, and are matching the quality standards of your current water supply. Once these testing procedures are completed, and we have final sign off from the DEQ, we will issue a press release to the public letting you know of the exact date in which we begin operations. It is our goal to be transparent and deliberate through this entire process. We will meet that goal.

If you have any questions or concerns after we begin water delivery, please call our office at 810-793-5123. We will take any and all actions necessary to make sure you are receiving water of the highest standard.



November will be a historic month for Genesee County water users. We will gain our financial and water independence, and no longer see the yearly double digit rate increases we became accustomed to under the former Detroit System. KWA (Karegnondi Water Authority) will deliver the same Lake Huron water we received from Detroit, but with increased reliability, stabilized costs, and a new state-of-the-art treatment plant and back-up water supply. This, along with the economic potential of raw KWA water, will put our County at the forefront of water supply safety and innovation.

Our community has been saddled over the past 40 years, with an increasingly burdensome water supply cost from the previous DWSD/Detroit Water, now called the GLWA. For the last 14 years we have had double-digit rate increases, and we are currently experiencing the last rate increase to our residents while we are still on the Detroit system.

Genesee County understands the effect these rate increases from Detroit have on working families across our community. It is exactly why, with our community leaders and partners, we made the decision to build our own system, and stabilize rates. Stabilizing and lowering rates has always been the ultimate goal of KWA. It cannot come soon enough for us, and for our residents.

Genesee County and KWA...What Does it Mean?

- **Reliability**
- **End of Double Digit Rate Increases**
- **Our Children and Grandchildren will have the lowest rates in the Great Lakes**
- **We Will Control OUR Water Future**

Genesee County's Water Treatment Procedures... What you need to know!

The difference between Genesee County water, treated at our facility, compared to GLWA/Detroit Water...is virtually nothing. Here is why, and how!

Genesee County's goal is to deliver the highest quality drinking water to our residents. We currently receive water from Lake Huron as our drinking water source. This is the highest quality source water available to our community, and this source

WILL NOT change. This will NOT be a source switch. You will continue to receive the SAME Lake Huron water you are currently receiving from Great Lakes.

What will change?

The newly built KWA Pipeline will deliver Lake Huron water to Genesee County's new treatment plant, vs buying water from Great Lakes, delivered through the aging Detroit pipeline.

How will your water be treated?

When Genesee County decided to treat its own water, and build a new treatment plant, we had several options on the type of treatment we could utilize. The choices? Conventional Treatment, Reverse Osmosis, or Microfiltration. Genesee County chose a conventional treatment plant, for several reasons. A conventional plant is where you pretreat the water with small amounts of alum, then clarify the water. At this point we filter the water through a fine bed of sand filters, and finally add chlorine to post treat, to maintain water quality as it travels through the distribution system to individual homes and businesses.

We chose this system because we believe it is the best system to deliver the highest quality water to our residents. It is also the same treatment process Detroit utilizes. The goal was to give our residents the same high-quality water we currently receive, with long-term flexibility.



Plant Operators and Technicians...Experience Matters!

Beyond critical infrastructure, any water treatment plant must have the highest qualified personnel operating the treatment system. Genesee County has, arguably, the most combined experience in the country. We employ 49 state licensed employees for our treatment plant and distribution system. The water plant itself has 14 employees with a combined 208 years of water operation and maintenance. GCDC's plant superintendent has over two decades of experience treating the same Lake Huron water we will begin delivering this month. Genesee County also employs 3 F1 level licensed operators. Most water systems only have 1. We have taken every measure and step to assure that Genesee County residents on our water system have the most capable experts in the nation.



Plant Location, Closer is Cleaner!

One difference that our plant will have vs the Detroit system is location. Detroit/GLWA treats their water near Lake Huron. They must do this logistically, so that they can deliver treated water to the communities from the lake all the way to Flint. Genesee County had the luxury of placing our plant much closer to the residents we serve. Instead of traveling 60 miles over the course of 4 days, our water will only travel 6 hours after treatment before it reaches our distribution system. The benefits of freshness and quality are immeasurable.

Testing, Testing...and More Testing!

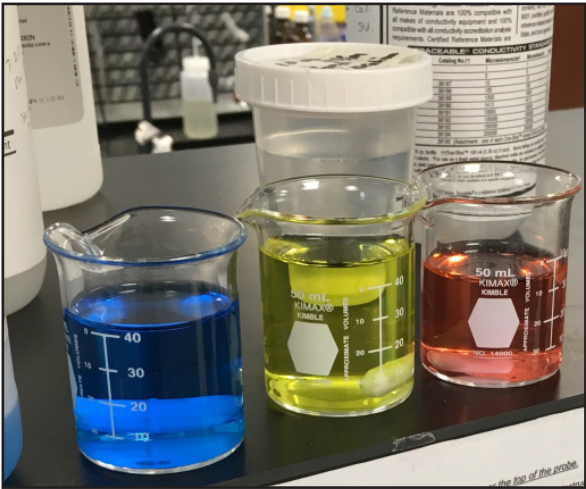
To ensure the water is of the highest quality, Genesee County has completed its lead and copper testing for 2017, testing which occurred while we are still on the Detroit system. In addition to lead and copper, we have also completed a battery of additional water sampling. These tests measured parameters such as temperature, pH, hardness, chlorine, fluoride, aluminum, zinc and sulfates, among a litany of others. This allows our office and expert staff to maintain a baseline, for future water testing. These results are shown below.

Genesee County Water Quality Information (GLWA treated water)

	Average	Max	Min	% diff
Chloride (mg/L)	9.43	11.00	7.00	22.2
Fluoride (mg/L)	0.73	0.77	0.64	9.2%
Hardness as (mg/L) CaCO3	99.09	112.00	82.00	15.5%
Iron (mg/L)	ND	ND	ND	
Nitrate as (mg/L) N	0.24	0.25	0.24	2.0%
Nitrite as (mg/L) N	ND	ND	ND	ND
Sodium (mg/L)	5.45	6.00	4.30	16.5%
Sulfate (mg/L)	17.13	22.00	12.00	29.4%
pH	7.87	9.56	7.45	12.4%
Alkalinity (mg/L)	78.46	100.00	68.00	19.0%
Total Ca (mg/L)	30.19	38.50	25.00	21.3%
Conductivity (mS/cm)	236.74	267.00	190.00	16.8%
Temp (C)	21.30	25.10	19.00	13.8%
PO4 (mg/L)	0.39	0.52	0.29	28.4%

This baseline will be utilized as our facility performs round the clock testing, on an ongoing basis while operational. Our treatment plant will test the water we deliver to you multiple times each and every shift, of each and every day. Your drinking water will be some of the most tested in the country, to ensure the highest quality possible. We will also be collecting water samples at regular intervals from various points in our distribution system, and will perform ongoing lead and copper sampling above and beyond the DEQ mandated requirements.

Collected samples will be tested in our state of the art water laboratory on site, as well as at our existing certified water laboratory in our Montrose facility. In order to verify the results, we will perform split samples which will go to both labs for independent verification. We will also split samples with the DEQ for additional testing, as well as private certified laboratories performing regular independent testing.



Genesee County Water Treatment Contacts:
7:00 a.m. – 3:30 p.m. – 810-793-5123
After Hours – 810-762-3626