

A MESSAGE FROM THE UNION COUNTY PUBLIC WORKS ADMINISTRATOR

Thank you for your continued interest in the Yadkin Regional Water Supply Project (YRWSP). As Union County's Public Works Administrator, I'm excited to open this newsletter.

It's hard to overstate the importance of water to our communities' wellbeing. As you know, that's why Union County partnered with the Town of Norwood to invest in a regionally important water project - the YRWSP. When complete, the project will sustainably serve current and future residents in the Yadkin River Basin.

Through the YRWSP, the Town of Norwood and Stanly County will be able to access water from a new intake and pump station on Lake Tillery in Norwood. A water supply pipeline will deliver Union County's water to a new treatment plant in Unionville. From there, a drinking water pipeline will connect to Union County's existing distribution system, providing additional water to the County's Yadkin River Basin customers now and into the future.



Water Intake Facility

Located on the west side of Lake Tillery
Houses pumps which draw water from Lake Tillery and move it to Union County and the Town of Norwood's water treatment plants
Designed to fit the aesthetic of the residential lakeside neighborhood



Water Supply Pipeline

Transports untreated water from the intake facility to the water treatment plant
Buried underground



Water Treatment Plant

Located east of Unionville, NC
Treats water for public consumption



Drinking Water Pipeline

Connects the water treatment plant to Union County's existing system of water distribution mains
Buried underground

The YRWSP is nearing the end of its design phase, and we anticipate finalizing the pipeline route this winter. In this newsletter, you will find an update on the project's recent activity, a look ahead to upcoming milestones and a deeper dive into its next big accomplishment – securing a Lake Use Permit from Duke Energy.

Thanks again for your interest in the Yadkin Regional Water Supply Project. I hope you will enjoy this update and take a moment to check out yadkinwater.com for more information on the project.



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Union County Public Works Administrator

Conservation Corner

Have you ever wondered why Union County asks you to conserve water, even when we've had rain and the rivers and reservoirs look full?

Access to an ample supply of water is crucial, but there's more to the story than just supply. Even when water is abundant, the amount of it our system can treat for residents and businesses to use depends on the capacity of our water treatment plants. Union County currently has access to water from two sources: the Catawba River Water Treatment Plant and the Anson County Water Treatment Plant.

In addition to providing our region with a long-term, sustainable water supply well into the future, the YRWSP will add a new water treatment plant to Union County's system.

Located near Unionville, the new water treatment plant will be able to treat as many as 12 million gallons of water each day when it comes online, increasing the County's access to drinking water by more than 50 percent.

Even as we secure access to more water, it's important to stress the significance of everyday conservation. For instance, reducing our collective water use also reduces stress on the energy grid as less electricity is expended to process and deliver water to customers. It also reduces the total amount of chemical use

in the water treatment process. Although we may only notice a lower water bill when we conserve, the behind-the-scene benefits spread beyond the obvious. They reduce costs we would all have to cover elsewhere, and they protect the environment on multiple fronts.

Be cognizant of situations in which you might overuse water, and take small steps to conserve. Here are some simple tips from the North Carolina Department of Environmental Quality to help save water in your home:

- *Water your yard in the mornings or evenings to prevent evaporation.*
- *One inch of water per week is plenty for a healthy lawn. Avoid overwatering for a lush yard and a break on your water bill.*
- *Check for toilet leaks by dropping food coloring in the tank. If the water in the bowl changes colors before you flush, you have a leak!*
- *Eliminate faucet leaks by replacing old gaskets. A dripping sink can waste 3,600 gallons a year.*

Wise water use and long-term conservation require forethought and a concerted effort. While we take steps to ensure our supply stays ahead of our region's growth, you can help keep us water-secure by conserving where you can. Every little bit helps!

Learn more about water conservation at [UnionConserves.com](https://www.unionconserves.com)

Union County Water Supply



Legend

- 1 Yadkin Regional Water Supply Treatment Plant Site
 - 2 Catawba River Water Treatment Plant
 - 3 Anson County Water Treatment Plant Interconnect
- Catawba River Basin
 - Yadkin River Basin

Project Update

The past year has seen a lot of progress for the YRWSP! Here's where we've been and where we're headed next.

FALL 2018 – SUMMER 2019

Field personnel collected information along the proposed pipeline route for design and construction.

WINTER 2019 / 2020

The project will reach 60 percent design completion. This will provide more detailed design documents and more refined cost and schedule estimates.

~2.5 YEARS

Construction is anticipated to begin after Duke Energy issues the Lake Use Permit. The project team expects construction to last for about two and a half years, although the amount of pipeline construction time in any particular location will most often last for a few weeks or less.

SPRING 2019

The project reached 30 percent design completion. The new details allowed updates to cost and schedule estimates.

Property owners who will need to grant a utility easement for a water pipeline attended informational meetings in Unionville, Oakboro and Norwood.

Easement acquisition began.

9 – 18 MONTHS

Duke Energy submitted the project's Lake Use Permit application to the Federal Energy Regulatory Commission (FERC) in fall 2019. FERC will review the application, and Duke Energy will issue the permit upon approval.

COMPLETION

In 2023, the project will be completed, and water will begin to flow!

FACILITY RENDERING



TAPPING INTO TILLERY

To build the YRWSP water intake within the boundaries of the Yadkin-Pee Dee Hydroelectric Project and to remove water from Lake Tillery, the project team must secure a Federal Energy Regulatory Commission (FERC) approved Lake Use Permit from Duke Energy.

Duke Energy owns and operates the Tillery Hydroelectric Development, part of the Yadkin-Pee Dee Project, which includes an energy-producing dam located about four miles southeast of Norwood. Its reservoir, which we know as Lake Tillery, powers the hydroelectric dam's turbines. Together, the dam and reservoir do more than generate energy. They supply water for communities, support wildlife and provide a place for fun and relaxation.

This is where it gets complex. Although the Tillery Hydroelectric Development is owned and operated by Duke Energy, it is licensed and regulated by an independent federal body called FERC. FERC must approve a Lake Use Permit for the additional uses of Lake Tillery we're proposing with the YRWSP.

In September 2019, Duke Energy submitted the proposed YRWSP Lake Use Permit application for review, and FERC staff will review the proposal to ensure it matches the environmental protections and operating requirements in Duke Energy's license.

Once FERC has approved, Duke Energy can issue the proposed project's Lake Use Permit, after which the YRWSP will begin construction.

PROJECT MAP



CONTACT US

Have a question?

Check out the FAQs page of our website at yadkinwater.com.

Want to leave a comment?

Send us a message at info@yadkinwater.com, or fill out the contact form on our website.



www.yadkinwater.com



info@yadkinwater.com