

Case Study

City Water Treatment Plant

Non-Standard 850 HL System



At this City Water Treatment Plant in central Arkansas, water is taken from a nearby lake and run through the city's water treatment plant for filtering. Our HL system is used to adjust the pH level of the filtered water.

After the complete process is finished, the water travels five miles to the city.

This non-standard HL system has an overflow tank with no pumps. The overflow tank configuration allows the Utility to monitor and respond quicker to the lime requirements.

It also has a smaller than average slurry mixing tank at 50 gallons, compared to a typical 750 gallon tank. The water in the lake does not have a high enough acid level to require massive amounts of lime to adjust the pH levels.

Normally, the 850 HL utilizes a batching system, but this application uses a gravity overflow feed system that has a pH meter to monitor the incoming water to calculate the lime supply needed, thus making the smaller mixing tank sufficient.

The customer's preference of using the natural gravity flow of the water in lieu of pumps means that there is less equipment to maintain as well as a lower capital cost for the equipment.

NON-STANDARD COMPONENTS

- Overflow Tank
- No Pumps
- 50 Gal. Mixing Tank