

## Work being done to bring facility to compliance



### Case Study: Greenleaves Sewer System

At the time of acquisition, the Greenleaves Sewer System has fallen into disrepair, operating without monitoring systems and facing persistent compliance issues—including elevated ammonia nitrogen levels that signaled inadequate treatment. Several lift stations also posed serious safety concerns, with missing guide rails and deteriorating infrastructure that increased the risk of failure.

To address these deficiencies, Magnolia Water launched a series of critical improvements designed to enhance performance, safety, and regulatory compliance. Instrumentation and monitoring systems were installed to provide real-time visibility into system operations, allowing for proactive management and early detection of issues. Diffusers were replaced and aeration systems repaired to improve oxygen transfer and support biological treatment. Improvements to the sequencing batch reactor process significantly enhanced nitrogen removal, reducing ammonia levels in treated effluent.

In addition, Magnolia replaced hazardous gaseous chlorine disinfection with a safer sodium hypochlorite system—eliminating a major safety risk and modernizing the treatment process.

These upgrades have restored stability to the Greenleaves Sewer System, increasing its reliability and bringing the facility back into regulatory compliance—demonstrating Magnolia Water's commitment to bringing safe, reliable, and environmentally responsible to every community.