

Before



After



Case Study: Winding Waters Subdivision

When CSWR-Florida acquired the Winding Waters Subdivision water treatment facility, it faced numerous challenges that threatened operational safety and compliance. The hypopneumatic tank was severely corroded with failing interior coating, and the air injection system relied on outdated and unreliable methods. Well 1 had leaking components, and Well 2 lacked proper fencing and venting, leaving it exposed to contamination risks. The well house, degraded by chlorine off-gassing and weather exposure, lacked a door, chemical containment, fire extinguishers, and adequate lighting. Electrical systems and the automatic transfer switch were in disrepair, the generator was nearing the end of its useful life, and there was no remote monitoring or continuous chlorine analyzer for oversight. Additionally, the access road to the wells was overgrown and impassable.

To address these deficiencies, CSWR-Florida implemented a comprehensive improvement plan. The corroded hypopneumatic tank was replaced, and chemical containment systems were installed to protect against spills and environmental risks. Remote monitoring and a continuous chlorine analyzer were added to provide real-time oversight and water quality tracking. Electrical upgrades brought the facility into compliance with safety standards, and the malfunctioning automatic transfer switch was replaced. Floodlights were installed to enhance site accessibility and security, and a new access road was constructed to facilitate maintenance. Finally, the aging generator was replaced, ensuring reliable standby power in compliance with Florida Administrative Code.

These upgrades have transformed the Winding Waters Subdivision water treatment facility into a modern, compliant operation that provides the community with safe and reliable drinking water. With enhanced infrastructure, proactive monitoring, and streamlined access, the system is now equipped to meet both current and future needs.