

Before



Case Study: Verde Lee

When Cactus State took over the Verde Lee Subdivision's drinking water treatment facility in Greenlee County, Arizona, which was in critical condition and jeopardizing the health of the 250 households it serves. The system had a leaking hydropneumatic storage tank, hastily patched with ratchet bands, leading to water pressure fluctuations and significant water waste. Additionally, the facility's poorly maintained arsenic removal system consistently failed to meet regulatory standards, posing potential health risks to the community. The wells were operating inefficiently, plagued by incorrect pump settings and cavitation issues, which further compromised water delivery. Compounding these issues was the absence of backup power, putting residents at risk of losing access to water during power outages, and a lack of proper disinfection process, which left the water supply vulnerable to contamination.

Cactus State acted swiftly to address these critical issues. The leaking hydropneumatic storage tank was replaced, stabilizing water pressure and preventing further water loss. New piping was installed, and the wells were rehabilitated with upgraded equipment to eliminate cavitation and enhance pump efficiency, ensuring reliable water delivery. The arsenic treatment system was also upgraded and reconfigured, bringing the water quality back into full regulatory compliance. To further safeguard the system, advanced remote monitoring technology was implemented, allowing for real-time tracking of equipment performance and water levels, which enables quicker response times during emergencies. Additionally, a backup generator was installed to maintain consistent water access during power outages, ensuring that residents have continuous, safe drinking water.

Through these comprehensive upgrades, Cactus State has transformed the Verde Lee Subdivision's water treatment facility into a reliable and safe water source for the community. The residents of Verde Lee now benefit from a stable water supply that meets all regulatory requirements, securing their health and safety for the future. Cactus State's efforts exemplify our commitment to rehabilitating infrastructure with a focus on both customer satisfaction and environmental stewardship.

After

