

A&D Water – White Oak Village (Wastewater)

Facility Information:

Wastewater System: Collection System Only

Hendersonville, Henderson County, NC

~84 Service connections

Assets: Duplex submersible lift station, 1 wet well, 1 pump, valve vault, flow meter, meter vault, generator, propane fuel tank, automatic transfer switch & control panel.

Description of need:

The White Oak Lift Station is a duplex submersible lift station. Original design shows 2 pumps and Pump No. 2 has been out of service & removed from site. Telemetry system was removed and never replaced. Onsite alarms and remote monitoring are not present at this facility. Generator unit is not operational and has not been tested for over 8 years. Control panel unit has built up corrosion and debris, which create arc flash risk during operations. Meter vault has a flooding issues and it will require draining flow meter vault. Moderate corrosion on piping in wet well & valve vault.

Proposed Improvements:

In order to ensure the longevity and performance of the White Oak Village Lift Station, Red Bird Water Utility Operating Company plans to make improvements to the system. In order to ensure that operations can effectively respond to abnormal operating conditions and ensure proper operations, remote monitoring will be installed using SCADA and alarm system. Pump No. 2 will be replaced in order to return to original design. Generator unit will need to return to operational status and propane fuel tank will be inspected. All piping associated with wet well and valve vault will need cleaning & repainting. General cleanup of debris around and near control panel to avoid fire hazards. Meter vault will be inspected, and drain will be installed to ensure flooding is prevented. These improvements will ensure the system can provide safe and reliable service to customers and will bring the facilities into a maintainable condition moving forward.

White Oak Village	
Item	Cost
Lift Station Pump Evaluation & Rehabilitation	\$3,000
Mission Remote Monitoring and Meters	\$18,000
Valve Vault Repair	\$5,000
Total	\$