

ERUSA PRWC AWS RECEIVING FACILITY

The ERUSA PRWC AWS Receiving Facility is an Alternative Water Supply (AWS) Receiving Facility that lies within the Eastern Regional Service Area (ERUSA) in Polk County and is located south of Masterpiece Road at the Timberlane Road intersection. With portions of Polk County lying within the Southern Water Use Caution Area (SWUCA) as identified by the Southwest Water Management District, there has been a significant effort by the State and additional stakeholders to address the water use in the region. This facility will blend AWS water being provided by the Polk Regional Water Cooperative (PRWC) with raw water from a new Upper Floridian Aquifer well and provide treated potable water across the eastern portion of the ERUSA service area.

This facility will be rated for 1.63 MGD meeting future demands at build out year of 2045, with the AWS supplying average daily conditions and the onsite well available to meet demands during peaking events. The facility will include multiple onsite structures including an electrical building, treatment building, high service pump station, 0.75 million gallon ground storage tank, and an emergency backup generator. The majority of the facility structures are set back roughly 350 feet south of Masterpiece Road and will meet County setback and buffering requirements of the Land Development Code. A Type C buffer will be placed on west and southern borders along with maintaining much of the existing vegetation on those sides. The Facility will be staffed according to FDEP requirements and operated utilizing a robust electrical and SCADA control system under normal operating conditions. The high service pump station houses the distribution system pumps which are often the primary noise source along with the on-site well, and emergency backup generator. These mechanical components are specifically design by the manufacturers to be placed in residential settings and mitigate any noise pollution. In the case of an emergency scenario where the backup generator is required for a period of time, the generator is fully enclosed in a sound attenuated enclosure and strategically placed on the site away from neighboring properties as feasibly possible.