

PROJECT BACKGROUND

"Wastewater Treatment Plant Electrical Improvements"

Rio Bravo Sewer Plant has been extremely limited in its capacity to effectively and efficiently treat wastewater; however, through modifications and additional work schedules we have been able to provide treated effluent meeting permit standards. However, the severe limitation and dilapidated equipment leave the sewer plant at an emergency level of which could result in a catastrophe of untreated sewer, personnel safety, and health concerns for our public. Therefore it is staff recommendation we proceed immediately to acquire proposals and expedite the acquisition and installation of the following electrical improvements.

Sewer Lift Station- this station consists of electrical repairs and changes to where operators can maintain control and have redundancy of the pumping system that flow the raw wastewater into the plant and begins the treatment process. Failure of this system can discharge raw sewage onto the streets of the community and into the river. Replacement of the pumps will occur through our operations maintenance funds.

Aeration Basins – This unit is the critical treatment unit of the plant that provided the physical change of the water; however, until now these four units have been operating at only 35% of their original capabilities due to severe losses in the electrical controls of the units. This project will replace much electrical modifications done in the past and place the operating controls back to their original method of operation, with redundant capacities. This includes the replacement of valve actuators that enable us to use the complete system.

Lighting – This element has limited our ability to work safely at night and provided the required security of the facilities.