



## City of Guadalupe Wastewater Treatment Plant Improvement Project

### Prop 50 Funding

In a competitive grant for Integrated Regional Water Management monies under Proposition 50, the City of Guadalupe was awarded \$4.75 million from the State Water Resources Control Board for the Wastewater Treatment Plant (WWTP) Improvement Project.

### Wastewater Treatment Plant Improvement Project

The project consists of improvements in the collection and delivery system as well as the treatment level of the City of Guadalupe's WWTP. Specifically, the work associated with headworks entails the replacement of the comminutor with one mechanically cleaned bar screen and washer/compactor system with retention of the manual bar rack; in addition to the replacement of submersible pumps, controls and flow meters, valves and a new pump crane. Presently, the WWTP utilizes an AIPS, however, one of the outcomes of the project is replacement of the AIPS with a Biolac® system. Prior to the Biolac® system being installed, the project is evaluating a sludge disposal alternative to dredging/disposal of the existing ponds which will consist of the installation of supplemental aeration/mixing equipment to optimize the AIPS operation until the Biolac system is in place. This may include the use of solar powered mixers often used in pond treatment processes and consultation with a bioremediation company to identify feasible sludge reduction program. Finally, the project is installing new Biolac® diffusers in pond #3, and installing new integral clarifiers, new blowers and building all the necessary pipe work.

### Need for the Project

The City of Guadalupe wastewater treatment plant has had ongoing violations of the Waste Discharge Requirement (WDR) permit since 2005 as a result of the existing plant mechanical and process deficiencies. The current upgrades correct these mechanical and project deficiencies and allow the project to meet WDR requirements.

### Project Benefits

The project will improve effluent quality in the City of Guadalupe, a Disadvantaged Community (DAC), and will improve health and safety at the sites where effluent is applied, through enhanced suspended solids removal and effluent disinfection. The improvements make operation and maintenance easier and the plant is designed to easily enable future upgrades to tertiary treatment and water reuse.