

Brawley Wastewater Treatment Plant

US SPEC PRODUCTS

US SPEC Products: H2 Fine and Maxcure Resin Clear

Contractor: C.W. Roen Construction Company

Engineer: Lee & Ro Inc.

Date of Completion: 2012

The Brawley Wastewater Treatment plant began renovations in July of 2010. This \$25 million expansion and renovation project components include activated sludge process complete with new blowers and secondary clarifiers and sludge dewatering facilities. The sludge dewatering facilities include a gravity thickener, a centrifuge and a solar greenhouse for sludge drying.



This project is funded by the Clean Water State Revolving Fund and a grant from the American Recovery and Reinvestment Act. The city of Brawley was under a “cease and desist” order from the California Regional Water Quality Control Board because it was not meeting environmental water standards prior to construction on this project. City Manager Garry Burroughs said, “it benefits us in terms of our ability to process at a more efficient rate, it’s more environmentally friendly and it basically means we will no longer be fined. We were fined a few hundred thousand dollars, but the state could have fined us millions of dollars. Once this is finished, we won’t be subject to those fines.”

The treatment process includes treated sludge being converted into fertilizer in on-site greenhouses. According to Burroughs, because of this the city would own and be able to sell high grade fertilizer for use on gardens, golf courses and the like.

As the project moved forward with the greenhouses, there were several areas of the concrete floors that were not level. C.W. Roen was challenged with selecting a repair product capable of withstanding the day-to-day robotic activity within the greenhouses. US SPEC H2 Fine was selected for the repairs along with US SPEC Maxcure Resin Clear as a curing compound.

The contractors tested H2 Fine on one of the smaller repair sections to see how it would perform. After reviewing the results, they found H2 Fine to provide satisfactory repairs and it was approved for all areas needing repair. The repairs ranged from 10” x 18” to 36” x 48”. The green house floors have been corrected and leveled, and the greenhouses will be opening according to schedule.

