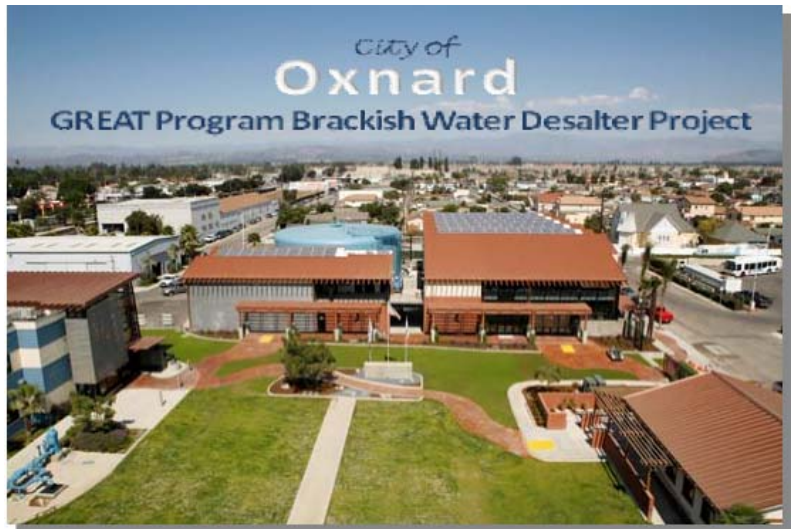


American Society of Civil Engineers
Los Angeles Section
2009 Awards

Outstanding Private Sector Civil Engineering Project, Honorable Mention
Groundwater Recovery Enhancement and Treatment (GREAT) Program
Brackish Water Desalter
Kennedy/Jenks Consultants

Prior to the implementation of the City's GREAT Program, Blending Station No. 1 (located at the City's Water Campus) blended local groundwater sources (onsite well or United Water Conservation District) with imported water from the Calleguas Municipal Water District (CMWD). The blended water was then delivered into the City's water distribution system.



The goal of the City's GREAT Program is to reduce the need for imported state water and to increase the use of local

resources. The first component, and a major milestone, is the GREAT Desalter. The new facility uses an advanced reverse osmosis (RO) treatment process to produce high quality product water from local groundwater resources provided from new onsite wells. The high quality product water, produced from the RO process, is then blended with other local groundwater sources and delivered into the City's water distribution system. This design approach eliminates the need for imported water from CMWD, utilizes local groundwater resources, and increases system reliability.

Consistent with the GREAT Program's message of sustainability, green building practices and technologies are integrated into the Desalter's design, and educational outreach components are provided to inform the public on the GREAT Program and green building technologies. In fact, the Desalter is the first building in the City to be considered for Leadership in Energy and Environmental Design (LEED) certification under U.S. Green Building Council guidelines and has been submitted for Silver certification.

Construction for this project began in September 2006 and reached final completion 24 months later in September 2008. To meet the demanding construction schedule, continuous coordination was required to ensure that all systems were being properly integrated. Throughout construction, separate meetings with the necessary City staff, Contractors, and Consultants were held to coordinate general construction progress, LEED activities, RO system installation, utility coordination, and system testing and start-up.

The total construction cost of the Desalter was approximately \$25 million.