

# TJC

and ASSOCIATES, Inc.

Message  
from the  
President

Featured  
Project

### TJCAA's Business Certifications

- Alameda County Small, Local Emerging Business
- City of Oakland Local Business Enterprise
- California DGS Micro Business (SB (micro))
- Port of Long Beach SBE
- San Diego County Water Authority SBE
- SoCal Network SBE
- CA PUC WBE
- City of Sacramento SBE

# Summer

## The TJCAA Quarterly

2012  
[www.tjcaa.com](http://www.tjcaa.com)

### Message from the President Gianna Zappettini

Another seasonal transition is upon us, as the ever-changing natural landscape makes its shift from spring to summer. The engineering industry is changing on a regular basis, too. Communicating new information to coworkers, colleagues, and clients is the key to keeping up with the changes in our industry. TJCAA looks forward to both the new season and the chance to exchange industry information with you.

### Featured Project - Wochholz Improved Salinity Effluent Project



Earlier this year, TJCAA completed a fast track design of electrical and structural elements for a new reverse osmosis (RO) train and ancillary equipment, including chemical systems, as part of the Yucaipa Valley Water District's Wochholz Improved Salinity Effluent (WISE) project. The WISE project is intended to reduce salinity levels in the effluent from the Wochholz Regional Water Recycling Facility in Southern California. The new elements were designed to fit within

and adjacent to the District's existing membrane building.

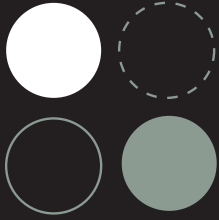
TJCAA had the pleasure of working with Separation Processes, Inc. of Carlsbad, California, the consulting lead for the project team. The experts at Separation Processes, Inc. focus on the application of membrane technology and other advanced processes for water and wastewater treatment.

TJCAA's electrical work included engineering services for power, signal, and control circuit designs for all the equipment and instruments associated with the new RO unit, including the chemical systems installed in the existing membrane building. TJCAA engineers provided calculations and analysis of the existing power distribution system at the membrane building. The analysis results indicated that the available power would not be sufficient for serving the proposed new RO system and its miscellaneous loads; therefore, TJCAA developed alternatives and coordinated with Southern California Edison to augment the District's existing electrical service. After iterations of coordination with the utility company, TJCAA incorporated the selected alternative into the design. This included the replacement of SCE's existing transformer with a larger, medium voltage transformer to support both existing and new loads.

The structural work on the WISE project included several elements. TJCAA designed an extension for an existing concrete loading platform for a new tank and pumps at the membrane building, as well as a new metal roof for the extended platform. Chemical containment areas for tanks and pumps within the metal building were part of the design, as was a new bulk chemical storage facility outside the building. A restroom

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### Featured Staff Member

### The Benefits of Getting an ICC-ES Evaluation Report

inside the building, framed with metal stud walls, was also included.

The design of the loading dock extension, chemical storage facility, and metal roofs needed to blend in with the look of the existing membrane metal building structure. To accomplish this TJCAA coordinated its efforts with Burks Toma Architects. This Berkeley-based firm rounded out the team with its special emphasis on architectural integrity, durable materials, and energy efficiency in water and wastewater applications.

TJCAA's fast track design effort began in November, with final contract documents completed early January. The project is under construction by Pascal & Ludwig Constructors, and TJCAA is providing services during construction.

### Featured Staff Member - Patricia Austin



Many of you know the cheerful voice of Patricia "Trish" Austin, the administrative assistant in Oakland, but you may not know that when her "day gig"

at TJCAA is done, she works as a professional stage actor. Trish joined TJCAA officially in March, but had been temping in the Oakland office since November.

Her career as an actor spans much longer. Trish says that she has been acting "ever since I could walk." After numerous productions with her friends at home and in church, she landed her

first professional role while still in elementary school. Playing Gretl in "The Sound of Music" began a run that included many fun, quirky roles.

A particularly memorable role, Trish notes, was playing Phyllis Diller in "The Rip Nelson Halloween Spooktacular" with the "Hell in a Handbag" production company in Chicago. She recalls—with much laughter—the fun she had preparing for her role in that pop culture parody.

Finding a good balance between productions geared for children and adults has kept things interesting for her, she says. Trish recently performed in the Bay Area Children's Theater production of "The True Story of the Three Little Pigs," a musical based on the children's book by Jon Scieszka and Lane Smith. This fast-paced production kept Trish busy—she played five separate roles!

Balancing her two professional roles also keeps her busy and can be challenging, but Trish notes that "It's rare to work in a place that honors outside interests, and it's nice to have the flexibility to do the things I like to do."

### The Benefits of Getting an ICC-ES Evaluation Report

As announced in our last edition, TJCAA recently formalized its long-standing, productive relationship with ICC-ES by becoming a member of the ICC-ES Partner Program. Clients in the manufacturing sector benefit from TJCAA's ability to guide them through an expedited review process, so that they can obtain an evaluation report for their product.

Having an evaluation report demonstrates to code enforcement officials that a product has undergone a rigorous review for compliance,

