

New in Nevada

A 42,000-acre master-planned community—already hailed for being both technologically advanced and environmentally responsible—is just beginning to take shape in Southern Nevada, 50 miles north of Las Vegas. Though Coyote Springs today is still largely barren desert, already there are The Chase, a Jack Nicklaus' Signature golf course; a plentiful supply of water from underground wells; and a 2.5 mgd wastewater treatment plant that

Filanc is constructing in a design-build collaboration with the project's design-builder, HDR Design-Build, Inc.

When HDR needed to partner with a new contractor after construction had already started and the concrete work was nearly 70 percent complete, Filanc stepped in to take over where the previous contractor left off.



The Coyote Springs WWTP will utilize MBR (membrane bioreactor) technology, notes Filanc Project Manager Vince Diaz. “The membrane bioreactor system will combine clarification, aeration and filtration into a simple and cost-effective process that reduces capital and operating costs,” he explains. “The result will be consistent, high-quality effluent suitable for reuse. This technology is the best possible choice to support the development of this new community.”



J.R. Filanc Construction Company, Inc.

Corporate Headquarters 740 N. Andreasen Dr., Escondido, CA 92029-1418

760-941-7130 fax 760-941-3969 toll-free 877-CALL GATOR

www.filanc.com CA License 134877 AZ License ROC088901 AZ License ROC216888

AZ License ROC227062 NV License 0033876 NM License 54711 OR License A11 146054

Encina WPCF a Newsmaker

Can a wastewater treatment plant be a media darling? The idea may seem ludicrous—but only if you haven't seen the recent spate of television and newspaper coverage given the Encina Water Pollution Control Facility in Carlsbad, Calif.

This well-deserved attention stems from the innovative green technologies being employed at the plant. The facility's Phase V Expansion, which Filanc is slated to complete in October, features cutting-edge biosolids recycling technology that will transform sludge into tiny pellets and reduce the plant's solid waste volume by nearly 80 percent. Thanks to a heat-drying process, the waste will achieve an Environmental Protection Agency Class A Biosolids rating, thus allowing the plant's owner, the Encina Wastewater Authority, to package and sell the pellets as fertilizer for local agriculture businesses or golf courses.

In addition, the pelletized biosolids product may eventually be sold as an alternative fuel that burns as clean as, or cleaner than, coal with about 60 percent of the heat. "Our market study has identified several industries that are very interested in using pelletized biosolids as a biofuel to reduce their reliance on fossil fuels and thereby reduce their carbon footprint," notes Mike Hogan, the water authority's general manager.

It's a stunning example of environmental innovation: using something humans *produce* a lot of to make something humans *need* a lot of.

Filanc is working with CDM, the engineer for the energy management side of the project, and Black & Veatch, the engineer for the biosolids management side. 💧

Encina Raises the Green Bar

The Encina Water Pollution Control Facility's Phase V Expansion is making the plant among the most environmentally friendly in the nation.

- Methane gas produced in the treatment process will generate electricity for the plant, including that needed for the new drying process. "This gas will be collected in a huge tank that, coincidentally, Jack Filanc originally constructed three decades ago," notes Filanc Project Manager Arnie Wingler. "Our crews retrofitted the tank, which has been out of service for the past decade or so, for this new use."
- Part of the Phase V work entailed shutting down the plant's existing cogeneration facility for approximately 60 days in order to install new electrical and cogeneration equipment. Completion of this work early last month was a major milestone in the project's schedule.
- Five trucks of solid waste used to be transported from the plant to Arizona every day and then driven back empty. The new pelletized biosolids product, dry and lightweight, will require a single round trip—creating a massive 80 percent reduction in fuel usage and emissions. Even greater savings will be realized when the product is distributed locally.



The Encina WPCF's original cogeneration plant, installed in 1983, had a capacity of 1.425 megawatts. The new cogeneration plant, pictured, will have a 2.25 MW capacity and an additional standby of .75 MW. Under normal operations, the plant will generate the majority of its power needs in-house.

Arizona American Water Chooses Filanc as CMAR

Originally put in operation in 1999, Arizona American Water's wastewater treatment plant in Anthem, Ariz. is a 2.4 mgd membrane process plant. It produces an extremely high-quality Class A+ effluent for reuse as irrigation water at a local park, golf courses, and highway medians, as well as for aquifer recharge and dust control.

Arizona American Water recently selected the Filanc Repair & Maintenance Division to serve as construction manager at risk

(CMAR) to complete a number of safety and operational improvements at the plant.

These include installation of two mechanical stair screens and a new screenings washer/compactor; installation and reconfiguration of new conveyor equipment; and installation of two new rotary drum screens and all mechanical piping.

Filanc crews also will complete HVAC ductwork, concrete work for new equipment support pads, civil/site improvements, control power work, and instrumentation and controls.



"This schedule-sensitive project is an ideal candidate for the CMAR procurement method," notes David Kiess, Filanc Repair & Maintenance Division director of operations. "Recognizing that, Arizona American Water made the decision to utilize CMAR for the first time. Filanc's preconstruction services include providing conceptual estimating and value engineering, as well as participating in the design along with Damon S. Williams Associates to meet the ambitious completion date."

The Filanc 'Gator was onsite in mid-August and is scheduled to complete the project by the end of the year. ●

● **People** doing the right thing

When the Associated General Contractors (AGC) put out a call for construction-industry folks to fill backpacks as gifts for severely wounded American soldiers and marines, Filanc employees Becky Bland and Brian Young didn't think twice about volunteering.

"We knew we wanted to make a difference in the lives of our country's heroes," Brian says. "Whether they agree with the war or not, there are many, many people who care about the men and women who are fighting it. Becky and I, and our fellow employees at Filanc, feel that way."

The Rescue Task Force Backpack Project found Becky and Brian helping to fill 300-plus backpacks with a variety of simple yet useful items. San Diego AGC members, including Filanc, contributed a total of \$79,875 to buy supplies for the project, and more than \$191,000 was raised from AGC members nationwide. ●

value

Meet Our New Manager of Arizona Operations

As always-thirsty Arizona continues to grow, Filanc remains well positioned to help bring experienced and competent water and wastewater construction services to communities throughout the Grand Canyon State.

We recently named Arnold Wingler regional manager of our Arizona operations. Arnie is deeply committed to continuing Filanc's support to Arizona's leaders as they work to sustain a water future for their state's ever-expanding population.



"Water, and the technology needed to deliver it, are of prime importance in Arizona. This makes my job both challenging and exciting," Arnie says. "My focus—and the entire company's focus—has always been on ultra-high-level client service. Thanks to this culture, we've forged a number of solid relationships in Arizona. In my new position, I'm looking forward to continuing to deliver high-quality water and wastewater treatment facilities for these clients and future clients in Arizona." 💧

...and Meet Our New Safety Director

One of the nation's most respected construction safety professionals has joined Filanc as safety director. David Little, who brings 34 years of specialized training and experience to his new position, will oversee Filanc's multi-faceted safety program throughout the Southwest.

"Dave's credentials are impeccable and his professional accomplishments are nothing short of extraordinary," says Mark Filanc, president. "As our company continues to grow, expand geographically, and take on increasingly complex and challenging projects, we are most fortunate to have an individual of Dave's caliber on our team."



Dave is active in the American Society of Safety Engineers, the Scaffold Industry Association, the Associated General Contractors (AGC), and the Forensic Expert Witness Association. He teaches construction safety classes for the AGC's apprenticeship program; has served as a Cal/OSHA instructor; and serves on the Build Safe California panel that provides education in conducting effective tailgate trainings for contractors throughout the state. 💧

Inquiring minds want to know

Would you like to read more about some of the people, companies, organizations, and issues mentioned in this newsletter? We encourage you to visit these websites:

- www.rescuetafforce.org—Rescue Task Force
- www.agcsd.org—Associated General Contractors, San Diego Chapter
- www.pardeehomes.com/coyote_springs—Pardee Homes' Villages of Coyote Springs
- www.hdrinc.com—HDR
- www.encinajpa.com—Encina Wastewater Authority
- www.cdm.com—CDM
- www.bv.com—Black & Veatch
- www.ci.yuma.az.us—City of Yuma
- www.amwater.com/azaw—Arizona American Water
- www.carollo.com—Carollo Engineers
- www.dswa.net—Damon S. Williams Associates



The Green Scene

Repairing and maintaining nearly 300 pieces of construction equipment, both large and small, generates an enormous amount of waste material. "One-quart and gallon oil and anti-freeze containers, five-gallon buckets, cardboard, aerosol cans—they pile up at an amazing rate," says our mechanic, Pierrick Salls.

Filanc has always recycled scrap metals and disposed of oil and anti-freeze safely, but under Pierrick's leadership, the shop recently has implemented several new recycling procedures. Nearly 100 small containers and 20 five-gallon containers are now carefully drained, cleaned, and recycled, along with what Pierrick refers to as "mountains of cardboard."

In another green move, the shop now purchases refillable cans and large barrels of chemicals, thus eliminating the use of most aerosol cans. "We must be keeping 50 spray cans a month from going in the trash," Pierrick says.



If we build it, water will come

With the 24 mgd Agua Viva Water Treatment Facility in Yuma, Ariz. slated to go on line in late October, the final piece to the puzzle—an intake structure designed to bring water from the Gila Gravity Main Canal into the plant for treatment—is nearly complete. Carollo Engineers designed this innovative intake to allow raw water to flow directly into the inlet structure (the temporary metal coffer damn pictured will be removed once construction is complete). The water will travel in 48-inch pipes through a structure that will remove debris and then flow into a wet well. This canal water then will be pumped 1.2 miles into the treatment plant, which uses GE Zenon membrane technology. Filanc has been acting as the Construction Manager at Risk for the City of Yuma during completion of this project.

trust