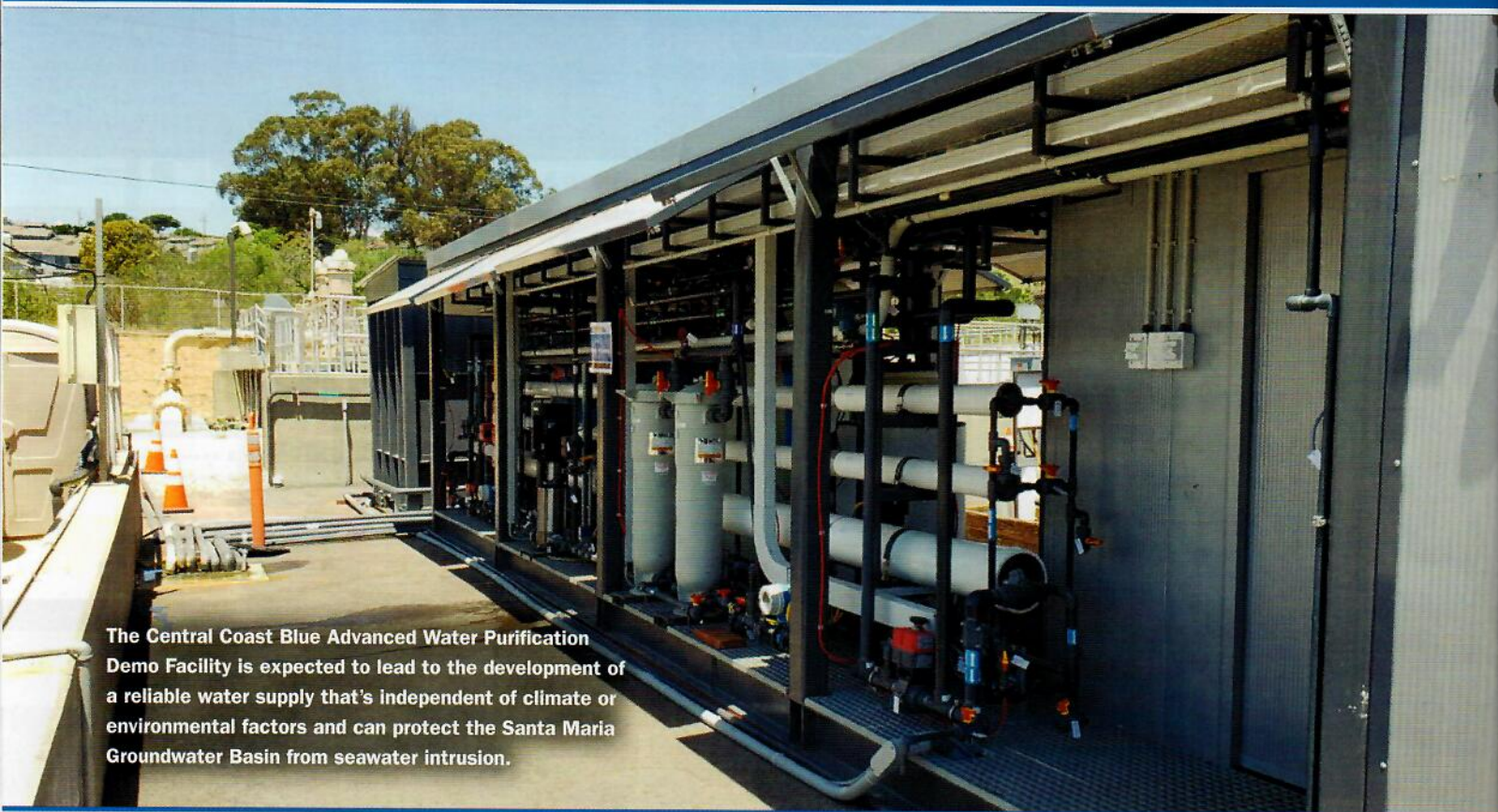


# Finished Water

A PHOTOGRAPHIC PROFILE

<https://doi.org/10.1002/opfl.1072>



The Central Coast Blue Advanced Water Purification Demo Facility is expected to lead to the development of a reliable water supply that's independent of climate or environmental factors and can protect the Santa Maria Groundwater Basin from seawater intrusion.

## WASTEWATER REUSE DEMO FACILITY FOCUSES ON GROUNDWATER RECHARGE

With the consequences of long-term drought and groundwater depletion ever present, the state of California has been a leader in adopting sustainable water reuse practices to optimize existing water sources in the arid US West. The Central Coast Blue Advanced Water Purification Demo Facility, located at the city of Pismo Beach's wastewater treatment plant, is demonstrating an energy-efficient technology that reduces chemical consumption to produce purified water and replenish the supplies of the Santa Maria Groundwater Basin. The purified water is pumped to injection wells and injected into the groundwater basin to supplement the natural groundwater supply.

The proprietary recycled water process on display is designed to optimize performance while minimizing cost and includes a preventive maintenance approach that avoids chloramine use to preclude the

formation of N-Nitrosodimethylamine, an organic contaminant suspected to be carcinogenic. "While the Five Cities communities of Central Coast Blue have taken extensive conservation measures to address the ongoing drought, we've realized that this approach alone won't achieve sustainable water supplies," said Ben Fine, city of Pismo Beach director of public works. The reuse project, Fine added, "supports our overall efforts to identify the best treatment approaches to create a reliable and sustainable water supply for our community."

A second, related wastewater reuse facility is scheduled to open in late 2018, the 500,000-gpd Regional Recycled Water Advanced Purification Center Demo Facility in Carson, Calif. The program, a partnership with the Metropolitan Water District of Southern California and the Los Angeles County sanitation districts, will start with a

demonstration facility that could eventually become one of the largest advanced water treatment plants in the world.

### PROJECT SPECIFICS

**Project Name:** Central Coast Blue Advanced Water Purification Demo Facility

**Operator:** City of Pismo Beach, Calif.

**Consultant:** Water Systems Consulting

**Partners:** Pall and Evoqua Water Technologies

**Designer:** IDE Technologies

**Completion Date:** February 2018

**Water Source:** Pismo Beach Wastewater Treatment Plant and South San Luis Obispo County Sanitation District

**Technology:** Microfiltration, ultrafiltration, reverse osmosis, and ultraviolet disinfection with advanced oxidation

**Service:** 58,000-gpd water capacity

PHOTOGRAPH: IDE TECHNOLOGIES