



EMWD Insights

Perris Valley

Regional Water Reclamation Facility

Centrally located in the Eastern Municipal Water District service area, the Perris Valley Regional Water Reclamation Facility (PVRWRF) may one day be the largest of five plants.

The plant receives sewage from a 120-square-mile area from people in Perris, Sun City, Romoland, Homeland and a portion of Moreno Valley. The facility is sited on some 300 acres where it can be seen west of I-215 and south of Case Road.

Recycled to high standards for beneficial reuse, the water is sold to farmers who irrigate about 900 acres. Some water also goes to duck clubs and to the San Jacinto Wildlife Area.



Perris Valley Operation in millions of gallons/day (mgd)	
Typical daily flows:	3.9¹
Capacity:	11
Ultimate expansion:	100

¹ All flows from Sun City (2.4 mgd) are diverted to Perris Valley. In addition, partial flows of 0.4 mgd from Moreno Valley and 1.0 mgd from Hemet are also diverted to the Perris Valley plant. **In actuality, Perris Valley typically receives 3.9 mgd + 2.4 + 0.4 + 1.0 = 7.7 mgd.**

How it all began...

Originally built in 1982 as a 1 mgd facility, its capacity was doubled in 1988, and “optimized” to 3 mgd in 1991.

In addition, a newer 8-mgd tertiary-treatment plant has been operating since May 1994.

Although the secondary plant was taken out of service for a few years, it was returned to 1.3 mgd operation in April 2001.

Construction doesn’t come cheap. The larger tertiary plant cost \$44 million through tax-exempt bonds (30-year tax-exempt certificates of participation). These are repaid through connection fees from new development, not from current customers.

Treatment quality...

The newer tertiary (advanced-treatment) plant initially produces secondary-treated water, but at a higher quality than what came from the original plant.



Perris Valley Temporary recycled water storage (capacity in millions of gallons)	
On-site	267
Trumble Road	287
Ski-Land	400

What happens when they're not there? Alarms connect with EMWD's central control just east of the freeway. And if necessary, individuals can be called out.

Staff members are also responsible for the Sun City Regional Water Reclamation Facility.

Odors are minimized because incoming sewage areas are enclosed. Air is directed through a filter containing caustic soda and bleach.

The higher quality process is possible by incorporating the *BARDENPHO* process, a treatment process that removes 90-98% of the suspended solids and other impurities.

Better prepared than Noah...

Surrounding agricultural customers buy the entire output of the Perris Valley plant during the summer. In winter, EMWD must be ready to store the daily production during rainy weather.

With two billion gallons of storage available, the Perris Valley plant, if necessary, could sail through stormy weather lasting three months or more.

Who's watching the store?

The specially trained and state-certified staff attend the plant 10 hours a day, seven days a week.

