

AQUIFER RECHARGE CONFERNECE
FIELD TRIP TO LONG BEACH SALTWATER BARRIER RECHARGE SITE

Field trip leader: ♦ Ted Johnson, Chief Hydrogeologist Water Replenishment District of Southern California

Wednesday February 1st (9:00am to 12:00 noon)

Field trip participants will meet at: **Water Replenishment District of Southern California**

The street address is: **4040 Paramount Blvd, Lakewood, CA 90712**

(Easy access from the 710, 405 or 605. Detailed directions will be sent to those who register for the field trip)

9:00 – 9:30 Coffee & donuts at WRD HQ in Lakewood, CA

9:30 – 10:15 Presentation giving an overview of groundwater management in the Central and West Coast Basins including managed aquifer recharge, recycled water reuse, seawater barrier injection, and the struggles of developing a storage plan in the basins.

10:15 – 12 noon Visits to the Vander Lans Water Treatment Facility in Long Beach where recycled water has received advanced treatment with microfiltration, reverse osmosis and ultraviolet light since 2005 prior to injection into the Alamitos seawater barrier, and a visit to one of the sea-water intrusion barrier wells receiving this treated water.

The Leo J. Vander Lans Advanced Water Treatment Facility (AWTF) is a state-of-the-art water recycling facility in Long Beach, California that turns municipal wastewater into highly purified water for injection into potable supply aquifers via seawater barrier wells near the coast of the Pacific Ocean. The facility, owned by the Water Replenishment District of Southern California and operated by the City of Long Beach, treats sewage effluent initially treated by the Sanitation Districts of Los Angeles County, and performs advanced treatment using microfiltration, reverse osmosis and ultraviolet light. Approximately 2.7 million gallons per day of near distilled water quality are produced at the facility before blending with imported potable water and sent to the Alamitos Seawater Barrier for injection. The barrier wells are owned and operated by the Los Angeles County Department of Public works who maintains three separate barrier projects in the County. Plans are under way to more than double the size of the facility to provide 100% recycled water to the barrier.

