

# West Valley Water District, San Bernardino, California

## Perchlorate Contamination Treatment for a 2000 gpm, Public Drinking Water Supply.

In June 2003, Siemens Water Technologies, formerly USFilter, initiated a three-year service contract to treat perchlorate contamination in a public drinking water supply.

In response to the shut down of numerous perchlorate contaminated wells, population increases and summer drought conditions experienced in the municipalities surrounding Los Angeles, the West Valley Water District was forced to search for additional water sources and to consider bringing two known perchlorate-contaminated wells back on line.

Siemens was awarded one site by the Water District based upon new technology and lower operating cost projections.

The perchlorate levels in the well water supply were above the California Notification Levels of 4 parts per billion. It is believed that the perchlorate resulted from munitions storage and/or landfilling originally located north of Rialto.

Siemens Water Technologies provided a complete turnkey contract which included HP® 1220 low-flow carbon adsorbers (1000 gpm), resin and resin destruction through waste-to-energy disposal. Resin is removed from the vessels by OSHA-trained service technicians utilizing Siemens specialized sluicing equipment. Since 2003 the system has processed more than 3 billion gallons of water and removing perchlorate to non detect levels in the system effluent.

## Significant Accomplishments

Siemens designed a system that utilizes two trains of two vessels in a lead/lag formation. The HP® 1220 adsorbers are carbon steel construction designed for permanent location at the site. The vessels are shorter in height and have a greater diameter typically used in the industry, resulting in lower pressure drops across the resin bed.

Siemens vessel design also decreases the visibility of the system equipment located in a light industrial/residential neighborhood.

Facility	Municipal Drinking Water
Application	Perchlorate removal
Technology	Ion Exchange
Scope of Services	System Design Resin Removal and Disposal Monitoring
Start Date	June 2003

*Two trains of HP® 1220 low-flow carbon adsorbers in a lead/lag formation treating 2000 gpm.*





Siemens Water Technologies North America Service Network

### North America Service Network

Our North America service network is backed by more than 80 offices staffed with certified technicians and applications experts who can solve your problems. In addition, Siemens Water Technologies provides response flexibility through either a lease or capital purchase option, and the company offers assured liability protection through environmentally safe waste destruction.

### Services Available

- Activated carbon supply, removal and reactivation services
- Filter media supply and removal
- Ion exchange resin supply
- Membrane supply and cleaning programs
- Parts and expendables
- Service contracts
- Temporary/emergency water systems

### Technologies Available

- Reverse Osmosis (RO) membrane filtration
- Conventional clarification and filtration
- Oil/Water separation
- Granular activated carbon adsorption
- Demineralization
- Inorganic metals removal
- Chemical addition

Siemens Water Technologies delivers cost-effective, reliable systems guaranteed for quality, safety, and compliance. Our trained service staff is available to make sure your systems is running at peak performance and to your specification. For your water treatment system, choose the partner that is committed to taking care of the world's water...and yours.

Siemens  
Water Technologies  
2430 Rose Place  
Roseville, MN 55113  
800.525.0658 phone

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