

San Jerardo Water System – Salinas, California

Decontamination of Wells Makes Water Safe for Residents

In March 2006, members of the San Jerardo community reported skin rashes from water use. Upon testing the water, nitrates and trichloropropane (TCP) were both found to be at levels well above the regulatory limit. Drinking water regulations require nitrate to be less than 45 ppm and TCP less than 5 ppt. At the time of testing, the nitrate level was at 78 ppm and TCP was at 80 ppt. High levels of nitrates are common in many wells, and it is believed that the surrounding agricultural area led to the TCP contamination.

Siemens Water Technologies was able to provide an immediate treatment solution in less than six weeks following notification from the community. The system included a PV® high pressure liquid phase absorption system with dual activated carbon media for treatment of the TCP, followed by an additional PV unit containing ion exchange resin to treat the nitrates. A nitrate analyzer was included to monitor the nitrate levels and detect when that tank's resin was exhausted and required exchange.

The Siemens' solution allowed the San Jerardo Water District to respond quickly and to continue to utilize the existing well safely. The treatment system is intended for temporary usage until the customer has searched and secured a new water source.

Significant Accomplishments

TCP is a very difficult ion to remove to a low concentration of less than 5 ppt. Siemens Water Technologies was able to respond to the situation and install a system in less than six weeks to lower TCP from 80 ppt to regulation levels.

The local Siemens branch office, which is less than one hour from the site, is responsible for the resin exchanges for this project. This close proximity provided the client peace of mind that they would receive quick response for their service needs.

Facility	Municipal drinking water
Application	TCP and nitrate removal
Scope of Services	System design Media delivery, installation, removal Service monitoring
Technology	Adsorption & Ion Exchange
Start Date	October 2006

PV® Series Liquid Phase Vessels





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
1501 E. Woodfield Road
Suite 200 South
Schaumburg, IL 60173
800.525.0658 Information Desk

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