

Central Valley California

Nitrate Contamination in California Agricultural Region Exceeds Local Health Board Requirements

In August 2005, Siemens Water Technologies, formerly USFilter, received a contract to provide treatment services for removal of nitrates from a contaminated well in the central valley of California. The well provides drinking water for a local service station and restaurant and must comply with local Health Department regulations on water quality. Water analysis taken at the well indicated nitrate levels of 53.7 ppm (as NO₃) at a flowrate of 5 gpm. The presence of nitrate in the well is believed to be the result of fertilizers used in this agricultural.

The County Health Department required the customer to comply with the state's maximum contaminant limit (MCL) for nitrates of 45 ppm (as NO₃), but with a goal of removal to 35 ppm (as NO₃). The customer elected to first drill another well, however, that well was also found to be high in nitrates thereby forcing the customer to seek a treatment option. The regional Department of Health Services (DHS) was already familiar with Siemens and with prior experience treating nitrates at a Fresno, California location, the company was recommended as a solution-provider to the local health officials.

Siemens service-based solution included supply of service ion exchange vessels filled with NSF-approved anion resin. Service deionization is a convenient, safe and economical source for high quality water. A local Siemens technician delivers freshly regenerated tanks to the customer's site. When the resin is exhausted, the spent tanks are removed and returned to the local Siemens regeneration facility where the resin is treated, the contaminants are removed and the resin can be returned for future service. This customer requires regeneration approximately once every three months.

Significant Accomplishments

Siemens Water Technologies service ion exchange solution requires minimal system installation, no chemical handling or maintenance on the customer's part, Siemens handles it all.

The service-based solution allows the customer to avoid a costly capital investment and the county health department's requirement of no on-site discharge of any contaminated wastewater or chemicals was achieved.

Facility	Institutional/Drinking/Potable water
Application	Nitrates contamination, above MCL
Technology	Service Ion Exchange
Scope of Services	System evaluation Service
Start Date	August 2005

Service ion exchange eliminates capital investment





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

© 2009 Siemens Water Technologies Corp.
ES-CMARTdr-PP-0809
Subject to change without prior notice.

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.