

Groundwater Remediation, Sacramento, California

Perchlorate Remediation in Groundwater

In June 2002, Siemens Water Technologies, formerly USFilter, commenced a two-year contract with a major manufacturer in the aerospace industry for the remediation of perchlorate.

This client repairs and reloads solid rocket motors for the Department of Defense and NASA. During the rebuilding process, older fuel was removed and disposed of using approved methods. Some of the material found its way into the groundwater, ultimately contaminating multiple wells on their industrial site. The perchlorate levels found in the groundwater are in the parts per million range.

Siemens provided this client with 12 resin service exchange vessels, two sets of 6 vessels in a lead/lag configuration. In addition to supplying and installing the header piping that connects the units, Siemens provides periodic resin exchanges, removing exhausted vessels from the site and replacing them with vessels containing virgin resin. The spent resin is thermally destructed at a waste-to-energy cogeneration site. The customer receives a certificate of destruction for the spent media.

The client pumps 1,000 gpm of treated water back into the American River Basin. This is an area where there are significant shortages of water and new construction of housing.

Siemens was also awarded the treatment responsibility for several other sites by this manufacturer.

Significant Accomplishments

Siemens has worked with this important client to provide the second largest groundwater remediation project on the West Coast.

The client selected Siemens based on the company's ability to install the system, service it locally, dispose of the spent resin and create a certificate of destruction.

The flexibility of the tank exchange system allowed this customer to receive a treatment system in a short period of time and with minimal capital investment.

Siemens provided an environmentally sound disposal solution for the spent resin that also eliminated liability concerns.

Facility	Groundwater Remediation for Aerospace Manufacturer
Application	Perchlorate removal
Technology	Ion Exchange
Scope of Services	System Design Project Management Resin Handling and Monitoring
Start Date	June 2002

MagFlex® vessels from Siemens in a lead/lag configuration





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.

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