

Cucamonga Valley Water District, Rancho Cucamonga, CA

Emergency Nitrate Removal of Municipal Drinking Water

In June 2004, Siemens Water Technologies, formerly USFilter, commenced a 30-day contract with the Cucamonga Valley Water District in Rancho Cucamonga, California for the removal of nitrate from the district's drinking water supply.

The Cucamonga Valley Water District (CVWD) receives a significant portion of their water from the Los Angeles Metropolitan Water District (MWD). The MWD determined that there was an imminent chance of failure in the supply line to the city and notified the CVWD that they would need to shut off their supply for several weeks while repairs were made. The city had a choice of either bringing nitrate contaminated wells back on line to make up for the short fall or impose severe water rationing on the community they supply.

The maximum contamination level (MCL) for nitrates is 45 ppm. The option to bring these dormant wells back on line was not initially viable since the contamination level of one well was above 60 ppm and the other was 80 ppm.

The California Department of Health Services suggested Siemens services and capabilities to the CVWD based on previous projects in the state of California.

Siemens Water Technologies' solution included placing two Mobile Demineralizer trailers on the well site using new NSF anion resin in chloride form in the ion exchange process.

A nitrate effluent level of below 5 ppm can be achieved via mobile demineralization. The resin exchanges were performed on-site by swapping out trailers so the CVWD would not experience downtime

due to resin regeneration. Further, since they did not have a connection to a local brine line, the trailers were easily and quickly regenerated at the Siemens Los Angeles regeneration facility as trailers were exhausted.

Significant Accomplishments

Siemens Water Technologies was able to help the Cucamonga Valley Water District avoid imposing severe water restrictions. Within one week of the signed contract, Siemens equipment was on-site and operational. Within hours of start-up, an effluent level below 5 ppm NO₃ was achieved.

Facility	Municipal Drinking Water
Application	Nitrate Removal
Scope of Services	Delivery, installation and start-up
Technology	Mobile Demineralization
Start Date	June 2004
Duration of Project	One month

Mobile Demineralizers provide emergency response for the Cucamonga Valley Water District.





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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