

Empire Construction – Olivehurst, CA

Manganese and iron reduction of potable water supply.

In August 2005, Siemens Water Technologies commenced a ten-month contract with Empire Construction in Olivehurst, California for the reduction of manganese in its temporary potable water supply.

The Olivehurst development was ready for home construction but the existing municipality did not have adequate capacity to supply the development. Plans were in place to build a full scale treatment plant, but not in time to accept new homes coming onto the market. Empire Construction implemented a phased construction plan which included a temporary potable water system. This would allow for the release of the first phase initial permits of construction to begin.

When the wells were dug, the water tested high for iron and manganese. These contaminants must be removed from the water to meet potable drinking water standards. The customer contacted Siemens Water Technologies for a solution to their water issues. Siemens developed a unique design for a low cost, quick installation of a manganese removal filter. Using two 12 foot vessels in parallel to create a 1,000 gpm treatment, we were able to delay the expense for the permanent treatment plant. The customer supplied the pumps, backwash holding tanks and chlorination system.

Siemens Water Technologies installed the tanks and internal media and provided field operator training. The Olivehurst municipality operated the system while the permanent system was being built.

Significant Accomplishments

The customer was able to sell homes in a phased schedule without the risk of limited water resources.

Siemens Water Technologies developed a unique treatment system to remove manganese and iron that was a low cost, quick solution for the customer.

Facility	New housing development
Application	Manganese and iron reduction
Technology	Filtration
Scope of Services	Installation, start-up, training
Start Date	August 2005



Manganese greensand was used to reduce iron and manganese at this construction site.



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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MSP-OLIVEDr-PP-0809
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