# Lincoln Avenue Water Company

## Altadena, CA



Typical HF1220 tanks operated in a lead/lag configuration

Xylem entered a contract with Lincoln Avenue Water Company for a new treatment system to provide 2,000 gpm of drinking water to the Community of Altadena, California. Lincoln Avenue Water Company awarded the multi-year contract for the removal of perchlorate from their primary wells. Recent water analysis from these wells indicated the sources contained perchlorate levels that were above California's public health goal of 6 ppb.

Xylem's solution uses disposable ion exchange resin technologies to treat the water. Once the resin has reached full capacity it is destroyed, preventing future recontamination by the perchlorate to other water sources in the state.

Xylem provided a series of HF1220 "high flow" vessels which allows water utilities to double the flow rate through a 12-foot diameter vessel, effectively cutting the number of vessels required for treatment by half. In addition, a smaller footprint is required for the treatment plant operation.

Xylem has employed specific resins to remove perchlorate from water supplies contaminated with up to one part per million (1,000 ppb) levels to non-detection levels. The new resins provide significant improvement over former technologies, since they reduce the operating cost of the treatment systems to below $200 per acre-foot treated, eliminate generation of a contaminated brine waste and provide substantially more total treatment capacity.

### Significant accomplishments

Xylem's standard system solution saved Lincoln Avenue Water Company in system cost and real estate, and was installed and operated within a four week period of time.

Xylem also used a newly developed perchlorate-selective anion resin to provide the lowest operating costs for removal of the perchlorate.

The system design and construction moved rapidly from the issuance of a purchase order to full plant operation with a Health Department operating permit in two months.

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| Facility | Potable drinking wells |
| Application | Perchlorate removal |
| Technology | Ion exchange |
| Scope of services | System design<br>Permit application assistance<br>Resin handling and disposal<br>Monthly reporting |



Xylem 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, Xylem 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
- 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

Xylem delivers cost-effective, reliable systems guaranteed for quality, safety, and compliance. Our trained AQUA pro service professionals are 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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ES-LAWC-PP-0726