



A west coast facility management company reduces facility water use by over 12 million gallons annually



CASE STUDY - INSTITUTIONAL
CH-1888



BACKGROUND

As the owner and operator of commercial assets throughout California, the Midwest, and New York City, this facility management company has worked closely with city and local water officials on innovative water conservation projects for decades.

CHALLENGE

Committed to water use efficiency, the company continues to focus on finding new ways to reduce its water use in alignment with the California Water Reduction Mandates enacted in early 2015. Cooling tower systems at 12 of their commercial building properties were targeted for improved operating efficiency.

SOLUTION

With a goal of continuous improvement in operating efficiency and water use, the customer asked Nalco Water to install softeners with mixing valves on cooling tower make-up piping. This solution was intended to increase cycles of concentration and reduce blowdown and water use.

Using Nalco Water's 3D TRASAR™ technology, cycles were increased without added risk to the assets or to HVAC energy efficiency. Given the technology's real-time monitoring of critical system control points, detection of potential system upsets and proactive treatment response, the customer enjoyed a newfound peace of mind.

Cycles of concentration increased from 3 to 7, and annual potable water makeup was significantly reduced.

CUSTOMER IMPACT

Annual water savings
12.62M gallons



ECONOMIC RESULTS



Annual savings of \$50,480

eROI is our exponential value: the combined outcomes of improved performance, operational efficiency and sustainable impact delivered through our services and programs.

(Continued on Reverse Side)



Parameter	Before Implementation	After Implementation	% Change	Savings
Cycles of Concentration	3	7	+133%	-
Annual Make-up Water Consumption	41.32 million gal	28.70 million gal	-31%	12.62 million gal

RESULTS

Projected results include an annual savings of 12.62 million gallons of water with an estimated yearly savings of \$50,480.

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