

ENHANCED RESEARCH USING RCF FOR HEXAVALENT CHROMIUM REMOVAL

CITY OF GLENDALE WATER AND POWER



This project was funded in part through Metropolitan’s Foundational Actions Funding Program. The study report is available on mwdh2o.com/AboutYourWater/FAFprogram.

WATER TOMORROW
Foundational Actions Funding Program

Reduction/Coagulation/Filtration (RCF) Technology Improvements

COMPARING BEST AVAILABLE TREATMENT TECHNOLOGIES FOR REMOVING HEXAVALENT CHROMIUM

This study was part of a larger research effort to develop feasible treatment solutions for hexavalent chromium, which is a contaminant regulated by the State of California. The study included jar and pilot testing to improve RCF technology and compared data with other best available treatment technologies.



ISSUES ADDRESSING
Contaminated groundwater



POTENTIAL REGIONAL BENEFITS
Improve technology, inform regulations, and increase cost-effectiveness of hexavalent chromium removal



PROJECT PARTNERS
California Department of Water Resources

1

GOAL

Determine if RCF process can be streamlined to reduce costs and footprint; compare with other technologies

2

FINDINGS

RCF methodology was optimized with significant cost savings and reduced system footprint

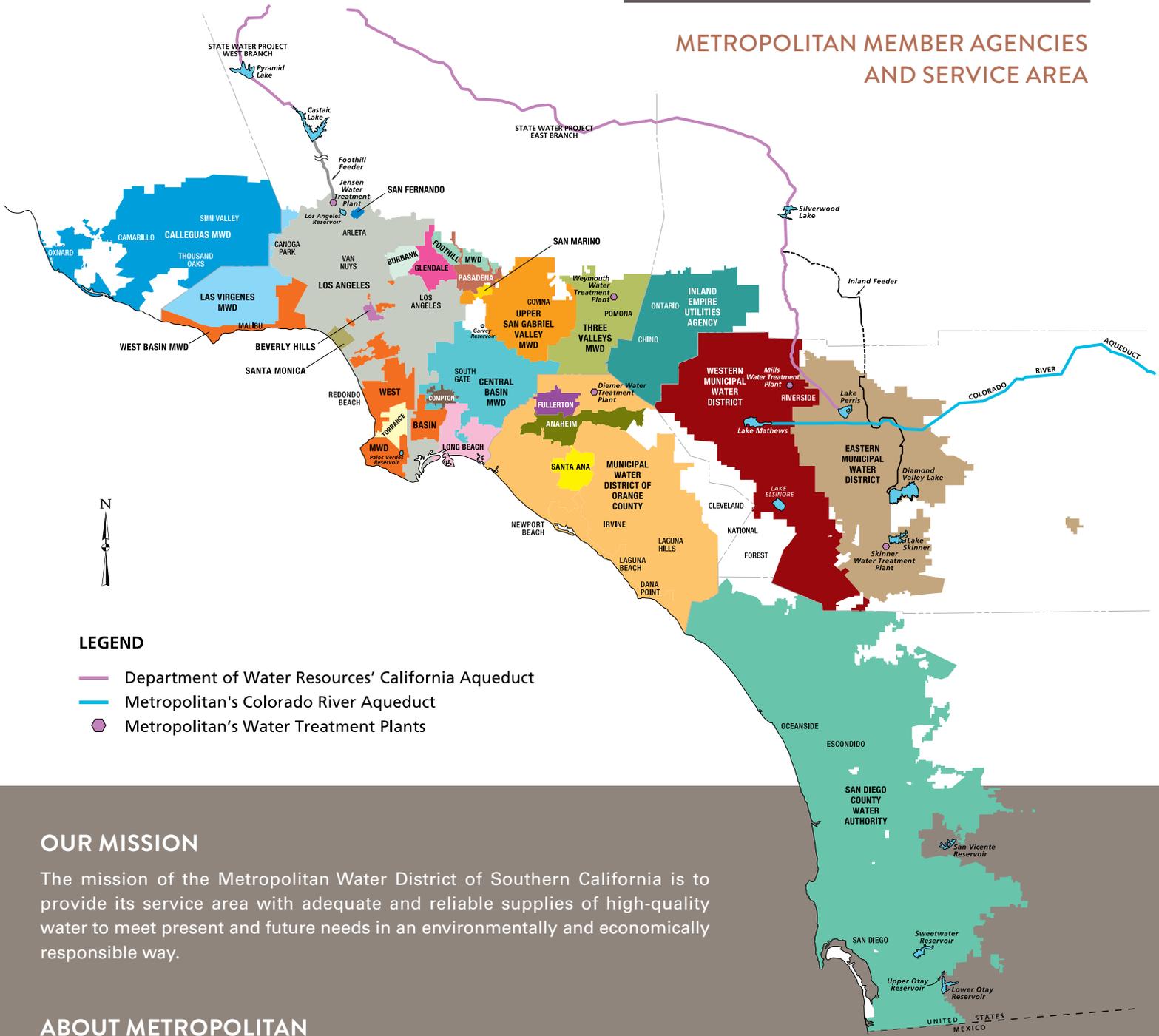
3

NEXT STEPS

Water agencies can use research results to develop cost-effective groundwater treatment solutions

Reducing Barriers to Future Water Resource Production

Metropolitan's Integrated Water Resources Plan was developed as a blueprint for water supply reliability for Southern California. To implement this plan and address future water supply uncertainties, Metropolitan's Board of Directors approved a pilot funding program for technical studies and pilot projects that reduce barriers to future production of groundwater, recycled water, seawater desalination and stormwater. The request for proposals to Metropolitan's Member Agencies resulted in agreements for 13 projects totaling approximately \$3 million in funding. These projects evaluated new water treatment technologies, developed data to inform regulations, studied options for infrastructure innovation and identified future resource potential.



LEGEND

- Department of Water Resources' California Aqueduct
- Metropolitan's Colorado River Aqueduct
- ⬡ Metropolitan's Water Treatment Plants

OUR MISSION

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

ABOUT METROPOLITAN

The Metropolitan Water District of Southern California is a state-established cooperative of 26 member agencies – cities and public water agencies – that serve nearly 19 million people in six counties. Metropolitan imports water from the Colorado River and Northern California to supplement local supplies and helps its members develop increased water conservation, recycling, storage and other resource management programs.

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