Verify Groundwater Testing Methodology to Increase Recycled Water Blend

Total Organic Carbon (TOC) standards limit the percentage of recycled water that can be blended for groundwater recharge. However, TOC can come from imported water and stormwater used in recharge as well and can be discounted from calculations towards TOC limits for groundwater recharge. Being able to differentiate the source of TOC could lead to increase recycled water use for groundwater recharge.

**1. Goal**
Test effectiveness of 3D-FEEM in differentiating organic materials from non-recycled water in groundwater recharge

**2. Findings**
3D-FEEM was found to be a potential tool in the dialogue with regulatory agencies regarding blending requirements

**3. Next Steps**
Other regions seeking to increase recycled water used for groundwater recharge can apply the findings of the study
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.

BE INFORMED, BE INVOLVED

www.mwdh2o.com
@mwdh2o