

2018-2019 Future Supply Actions Funding Program Awards

Member Agency	Proposal Name	Resource	Description	Recommended Funding
City of Anaheim	Regional Assessment of Stormwater Capture, Treatment, and Infiltration for Groundwater Enhancement	Stormwater / Groundwater	<ul style="list-style-type: none"> Study to evaluate and develop engineering methods to establish cost-based defensible stormwater impact and users' fees. The study will develop an infiltration algorithm that can be utilized by other cities in the region. 	\$200,000
Calleguas MWD	Arroyo Las Posas Stormwater Diversion Feasibility Study and Percolation Test	Stormwater / Groundwater	<ul style="list-style-type: none"> Pilot test of a new recharge basin visualization and optimization technology developed by Lawrence Berkeley National Laboratory. Could lead to increased efficiency in existing and new recharge basins. 	\$120,000
	Los Robles Golf Course Groundwater Utilization Pilot Study	Groundwater	<ul style="list-style-type: none"> Pilot study will evaluate reverse osmosis (RO) and closed circuit reverse osmosis (CCRO) treatment of brackish groundwater at Los Robles Golf Course well. The study will also test the performance of greensand as pre-treatment to RO. 	\$292,800
Eastern MWD	Purified Water Replenishment Brine Concentration Pilot Project	Recycled Water	<ul style="list-style-type: none"> Pilot will test of closed-circuit reverse osmosis (CCRO) as the primary reverse osmosis (RO) process for indirect potable reuse at the San Jacinto Valley Regional Water Reclamation Facility. CCRO has the potential to enhance recovery and minimize brine from advanced water treatment plants. 	\$500,000
City of Fullerton	Demonstrating Virus Log Removal for Potable Reuse to Increase Regulatory Confidence	Recycled Water	<ul style="list-style-type: none"> Demonstration project addressing virus removal for potable reuse to increase regulatory credit (log removal values) Two key strategies will be tested: (1) appropriately crediting the engineered wastewater treatment process that precedes advanced treatment and (2) 	\$150,000

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			deploying improved reverse osmosis (RO) process integrity monitoring as part of advanced treatment.	
Los Angeles DWP	Pilot Study of Nitrification-Denitrification Membrane Bioreactor Treatment at Hyperion Water Reclamation Plant	Recycled Water	<ul style="list-style-type: none"> • Pilot study of nitrification-denitrification membrane bioreactor treatment at Hyperion Water Reclamation Plant. • The project involves the design, construction, and operation of a pilot facility with the goal of testing the effectiveness of the technology for pathogen removal and effect on downstream processes. • Results will ultimately provide data for regulatory and permitting agencies. 	\$500,000
Las Virgenes MWD	Phase 2 White Paper: Tapping into Available Capacity in Existing Infrastructure to Create Water Supply and Water Quality Solutions	Stormwater	<ul style="list-style-type: none"> • White paper will explore the opportunity for controlled and strategic integration of the existing stormwater and wastewater systems. • Could lead to increased source water available for recycling in the region and enhance the quality of receiving waters in Los Angeles County. 	\$339,500
	Application of Artificial Intelligence/Machine Learning to Advanced Water Treatment Facilities for Indirect Potable Reuse	Recycled Water	<ul style="list-style-type: none"> • Pilot test of artificial intelligence (AI)/machine learning (ML) control algorithms as part of the demonstration plant master control systems. • The goal is to determine if AI/ML could increase resilience and reliability of the new AWTF through an additional virtual barrier. 	\$34,575
City of Long Beach	Los Angeles River Demonstration Treatment Plant – Phase 2A	Stormwater	<ul style="list-style-type: none"> • Demonstration study for testing the performance of different technologies for secondary pretreatment, reverse osmosis and advanced oxidation processes of LA River water. 	\$350,000
MWD of Orange County	Smart Watershed Network	Stormwater	<ul style="list-style-type: none"> • Demonstration study involves development of an innovative flow monitoring network within the storm drain network of the Aliso Creek Watershed. 	\$205,754

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			<ul style="list-style-type: none"> Flow and water quality monitoring data will be used to populate information in a novel cloud-based data management, integration, and decision support system. 	
City of Santa Ana	Restoration of Local Recharge Sources from Invasive Dreissenid Mussels	Groundwater	<ul style="list-style-type: none"> Pilot study to test an EPA certified molluscicide for prevention and control of quagga and zebra mussels in stormwater recharge basins. The presence of quaggas in imported supplies represents a barrier to more efficient use of recharge basins for the capture and recharge of stormwater and imported supplies. 	\$122,796
San Diego County Water Authority	Demonstration of Preformed Chloramines for Biofouling Control and California Toxics Rule Compliance	Recycled Water	<ul style="list-style-type: none"> Demonstration test of a preformed chloramines system at Padre Dam's existing demonstration facility and test the system for one year to ensure California Toxics Rule (CTR) compliance. Will provide information for design and implementation parameters that can be utilized by other water agencies considering surface water augmentation. 	\$80,000
	Lewis Carlsbad Desalination Plant Wedge Wire Screen Demonstration Project	Seawater Desalination	<ul style="list-style-type: none"> Demonstration project to test the design, operation, maintenance and feasibility requirements for wedge wire screens. The demonstration will provide data comparing the performance capabilities of active versus passive wedge-wire screens to manage free-floating debris and biofouling under seawater conditions. 	\$175,000
	Multi-Jurisdictional Optimization of Surface and Groundwater Supplies in the San Dieguito River Watershed	Groundwater	<ul style="list-style-type: none"> Two inter-related pilot studies that work together to optimize surface water and deep coastal aquifer groundwater supplies in the San Dieguito River Watershed. 	\$245,000

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			<ul style="list-style-type: none"> Includes development of a novel data management and scenario support tool featuring data sharing in an open federated data warehouse for use by multiple stakeholders in the watershed. 	
West Basin MWD	Development of a Modeling Tool for the Evaluation of Brine Diffuser Shear Mortality	Seawater Desalination	<ul style="list-style-type: none"> The study will address the need for the development of a science-based tool to maximize marine life protection and more accurately quantify shear mortality for the use of diffusers for brine disposal into the ocean. Results will enable agencies to minimize marine life mortality through efficient diffuser design. 	\$190,000