



Report on Recommended Funding of Proposals for Future Supply Actions Funding Program

Water Planning and Stewardship

Item 9-2

December 10, 2018

Overview



Background

Recommended
Proposals



Next Steps

Program Objectives

Reduce barriers to future water resource production

- Advance the field of knowledge for future water resources development
- Provide results that are unique, yet transferable to other areas in the region
- Represent a critical path to water resource implementation

2013 Foundational Actions Funding Program Proposals

Received

23

\$5.5
Million

Approved

16

\$3.3
Million

Signed

13

\$3.0
Million

Future Supply Actions Funding Program

Two Program Elements

Potable Reuse Funding The Water Research Foundation

- 7 potable reuse studies
- \$975,000
- Managed by WRF
- Agreement executed in July

Member Agency Studies

- Request for Proposals
- \$3.5 million
- Max \$500k per agency and per study
- 2 year studies

Request for Proposals

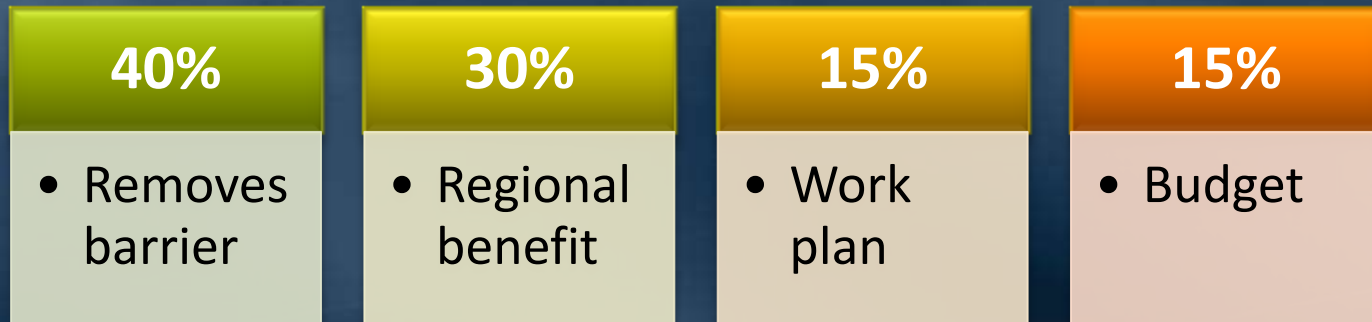
- July 6: RFP sent to member agencies
- July 26: Webinar with 35 participants
- Communications
 - Dedicated website and e-mail
- August 31: RFP closed

Evaluation

- Technical Review Panel

Amy Childress	Professor: USC
Yoram Cohen	Professor: UCLA
Robert Harding	Manager: WRM
Sun Liang	Manager: WQ
Roy Wolfe	Consultant

- Evaluation criteria



Proposals Received and Recommended

	Received	Recommended
Proposals	17	15
Lead agencies	12	11
Funding requested	\$4.36	\$3.51
Resources Represented	Received	Recommended
Groundwater	4	3
Stormwater	3	3
Groundwater / stormwater	2	2
Recycled Water	6	5
Seawater Desalination	2	2

Recommended Groundwater Proposals

Proposal	Member Agency	Proposed Funding
Restoration of Local Recharge Sources from Invasive Dreissenid Mussels	Santa Ana	\$122,796
Los Robles Golf Course Groundwater Utilization Pilot Study	Calleguas	\$292,800
Multi-Jurisdictional Optimization of Surface and Groundwater Supplies in the San Dieguito River Watershed	SDCWA	\$250,000

Recommended Stormwater Proposals

Proposal	Member Agency	Proposed Funding
Smart Watershed Network	MWDOC	\$205,800
Los Angeles River Demonstration Treatment Plant – Phase 2A	Long Beach	\$350,000
Phase 2 White Paper: Tapping into Available Capacity in Existing Infrastructure to Create Water Supply and Water Quality Solutions	Las Virgenes	\$339,500

Recommended Groundwater / Stormwater Proposals

Proposal	Member Agency	Proposed Funding
Arroyo Las Posas Stormwater Diversion Feasibility Study and Percolation Test	Calleguas	\$120,000
Regional Assessment of Stormwater Capture, Treatment, and Infiltration for Groundwater Enhancement	Anaheim	\$200,000

Recommended Reuse Proposals

Proposal	Member Agency	Proposed Funding
Demonstrating Virus Log Removal in Potable Reuse to Increase Regulatory Confidence	Fullerton	\$150,000
Demonstration of Preformed Chloramines for Biofouling Control and California Toxics Rule Compliance	SDCWA	\$80,000
Pilot Study of Nitrification-Denitrification Membrane Bioreactor Treatment at Hyperion Water Reclamation Plant	LADWP	\$500,000
Application of Artificial Intelligence and Machine Learning to AWT Treatment Facilities for Indirect Potable Reuse	Las Virgenes	\$34,575
Purified Water Replenishment Brine Concentration Pilot Project	Eastern	\$500,000

Recommended Seawater Desalination Proposals

Proposal	Member Agency	Proposed Funding
Lewis Carlsbad Desalination Plant Wedge Wire Screen Demonstration Project	SDCWA	\$175,000
Development of A Modeling Tool for the Evaluation of Brine Diffuser Shear Mortality	West Basin	\$190,000

Two Proposals Not Recommended

- Low ratings from panel
- Did not achieve program criteria
 - Site-specific
 - Not new or innovative
 - Unclear work plan

Additional Funding Considerations

- Agencies submitting more than \$500,000
 - Partially fund one proposal
- In-kind services
 - Not allowed for member agency match funds
 - Panel identified potential in-kind services in some proposals
 - Staff may reduce funding amount during agreement negotiations

Next Steps

- Receive Committee feedback
- Implement funding agreements with ten recommended proposals under \$250,000
- Bring five recommended proposals over \$250,000 to the Board for consideration in January
- Provide updates to the Board as studies progress
- Hold a regional symposium to share results when studies are complete

