



**WEST BASIN MUNICIPAL WATER DISTRICT**  
17140 S. Avalon Blvd., Suite 210  
Carson, CA 90746

**AGENDA NO. 36**

**JUNE 11, 2009 – Water Resources**

Little (Chair), Gray

**JUNE 22, 2009 – Board Meeting**

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Approved by: Rich Nagel

## INFORMATION CALENDAR

### OCEAN-WATER DESALINATION UPDATE

#### SUMMARY:

#### **Pilot Plant Decommissioning**

West Basin Municipal Water District's (West Basin) ocean-water desalination pilot plant has been instrumental in evaluating the feasibility of implementing ocean-water desalination as a future water supply resource. After several years of successful operation and completion of several valuable research objectives, West Basin will be decommissioning the pilot plant located at El Segundo Power Plant. West Basin has used the research results from the pilot plant by implementing those concepts into the design of West Basin's Ocean-Water Desalination Demonstration Project that will be constructed at the SEA Lab in Redondo Beach.

Pilot plant operations will cease at the end of June 2009. Staff has been working with NRG staff to identify the decommissioning requirements and returning the site to its original condition. The pilot plant is scheduled to be dismantled in August 2009. Staff is working with United Water staff to solicit bids from qualified contractors to assist in the demobilization. Work will include removal of piping; disconnection of electrical equipment; transportation of large process equipment to the Edward C. Little Water Recycling Facility; reconditioning of the site (i.e., removal of underground piping, berm removal, etc.); removal of pumping equipment from the forebay structures; and other ancillary work. It is envisioned that United Water will facilitate the dismantling of the pilot plant by hiring a contractor for the aforementioned services. Bid results will be brought to the Board for consideration at a future Board meeting.

#### **Ocean-Water Desalination Demonstration Project Construction Management Services**

West Basin's Demonstration Project is progressing through its final phases of regulatory permitting. The construction contract is scheduled to be released on June 8, 2009, with the advertising period spanning into mid-July. It is anticipated that construction will begin in early September 2009. As part of the construction process, West Basin will be negotiating the professional services fee for the construction management "Scope of Work" (SOW). MWH and SPI were originally selected through a competitive bid process to provide planning/feasibility assessment, design of the project, construction management services, and operations of West Basin's Ocean-Water Desalination Demonstration Project. MWH and SPI have performed very well through the first two phases of work. It was West Basin's intent to keep the same professional services consultant through each phase of work to provide consistency from the conceptual planning stages all the way through design, construction, and ultimately operations. Construction of the Demonstration Project is

expected to span at least 12 months. Staff will bring a recommended SOW and proposed fee for the construction phase of professional services to the Board for consideration at a future Board meeting.

STRATEGIC BUSINESS PLAN IMPLEMENTATION:

Goal 1, Reliability – Maintain a level of local water reliability that supports the regional economy, our community and customer agency needs.

Goal 7, Infrastructure – Manage infrastructure to ensure reliability, manage risk, and maximize the useful life of facilities.

COMMITMENT STATEMENT:

Water Reliability – West Basin is committed to innovative planning and investments to provide water supply reliability and drought protection.

FISCAL IMPACTS:

Funds for demobilization of the Pilot Plant and Demonstration Project construction management services will be included in the Fiscal Year 2009-10 Ocean Desalination Budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Committee on June 11, 2009 and agendized to the June 22, 2009 Board meeting as information for discussion.

RECOMMENDED MOTION:

This item is for information only.

LIST OF EXHIBITS:

None.