Intake Testing Program for a Proposed Camp Pendleton Desalination Project

Water Planning Committee
March 26, 2015
Bob Yamada
Proposed Camp Pendleton Desalination Plant

- 50 - 150 mgd seawater RO Project
- Phased implementation
- Unique, large coastal site at top of Aqueduct system
- 2 potential sites approved by MCBCP for further study
- Unlike Carlsbad, project would require new seawater intake and discharge facilities
Camp Pendleton Activities - Timeline (Historical/Current)

- Initial Feasibility Work completed
- Detailed Feasibility Studies Completed
- Identified as Long-Term Water Supply Option
- $1.4M in grants awarded for Intake Test Program
- Board funds studies & adds to CIP
- Board approves Master Plan Update
- Board considers Intake Testing Program

2009

2013

March 2014

2014

Mar 2015
Intake Testing Program

• 50 gallon per minute test unit
• Continuous weekday operation for one year (manned 40 hours/wk)
• 10,000 square foot approximate footprint
• Side by side evaluation of open ocean and subsurface intake performance and pre-treatment requirements
Intake Testing Program - Costs

Total Estimated Cost: $4.37 million
  • Less available CIP funds: $1.72 million
  • Less Grant funds: $1.40 million

Proposed Budget Transfer: $1.25 million*

* No new CIP funding required
### Camp Pendleton Desalination Adaptive Management Timeline

<table>
<thead>
<tr>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>2015</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2020</td>
<td>Determine Status of water supply conditions and water demand</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2025</td>
<td>Determine status of agency Potable Reuse and Rosarito Desal Permitting</td>
<td></td>
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<tr>
<td>2030</td>
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<tr>
<td>2035</td>
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</table>

**Camp Pendleton Intake Testing**

**Preserve Site**
Dry Year No Shortages

- **280 TAF**
  - **Rosarito Desal Potable Reuse** 120 TAF
  - **Local Supply (Existing & Verifiable)**
  - **Carlsbad Desalination Project**
  - **Carryover Storage**
  - **MWD (P.R. w/ 1.5 MAF Supplies)**
  - **SBX7-7**
  - **Local Supply (Enhanced)**

- **91 TAF Gap**
  - **QSA**

Enhanced Local Projects: 280 TAF
Verifiable Local Projects: 280 TAF

2035 Dry Year Demands/Supplies (With Enhanced Local)
Camp Pendleton Desalination Adaptive Management Timeline

<table>
<thead>
<tr>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030</th>
<th>2035</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Camp Pendleton Intake Testing</strong></td>
<td><strong>Determine Status of water supply conditions and water demand</strong></td>
<td><strong>Potable reuse construction started? Financing on Rosarito Desal closed?</strong></td>
<td><strong>Status of Imported Supplies (Bay Delta/CR)</strong></td>
<td><strong>Consider initiating Permitting for first phase 50 MGD Camp Pendleton Desal</strong></td>
</tr>
</tbody>
</table>

*Assumes no litigation delays

**Consider Potential Implementation***

- Preserve Site
- Camp Pendleton Intake Testing
- Consider initiating Camp Pendleton Desal Environmental
- Consider initiating Permitting for first phase 50 MGD Camp Pendleton Desal*
1. Approve Camp Pendleton Intake Testing Program and accept grant funding for up to $1.4 million from the California Department of Water Resources and the U.S. Bureau of Reclamation to conduct an intake testing program.

2. Approve a $1.25 million project budget transfer from the Carlsbad Desalination Project to the Camp Pendleton Desalination Project.
Update on Water Supply Conditions and Drought Response Activities

Drought Outlook through June 30

KEY:
- Brown: Drought persists or intensifies
- Light Brown: Drought remains but improves
- Green: Drought removal likely
- Yellow: Drought development likely

Water Planning Committee
March 26, 2015

Presentation by:
Dana Friehauf, Water Resources Manager
Northern Sierra Precipitation: 8-Station Index

Percent of Average: 79%

Current Precipitation: 31.7 inches

MSC - Mount Shasta City
SHA - Shasta Dam
MNR - Mineral
QRD - Quincy
BCM - Brush Creek
SRR - Sierraville RS
BYM - Blue Canyon
PCF - Pacific House

Percent of Average for this Date: 79%
Northern Sierra Snowpack
(As of March 24, 2015)

8% of Normal

Water Content (in)

San Diego County Water Authority
Reservoir Conditions – Lake Oroville

Lake Oroville Conditions
(as of Midnight - March 24, 2015)

Current Level: 1,785,805.5 AF

50% (Total Capacity) 68% (Historical Avg.)

Reservoir Capacity (TAF)

San Diego County Water Authority
Average Water Year Statewide Runoff
Percent of Average (Water Year: Oct 1 – Sept 30)

4th Consecutive Dry Year 2012-2015

*DWR Mar. 1, 2015 Forecast for Water Year
Prolonged Colorado River Drought
Water Year Inflow to Lake Powell

*BOR Mar. 16, 2015 Forecast for Water Year
Fiscal Year Potable Water Use in Water Authority Service Area

- Figures include urban and agricultural water use
- Potable Water Use in July – February of FY 2015 is 7% less than in FY 2014
Average Daily Maximum Temperature at Lindbergh Field – Departure from Normal (°F)

Fiscal Year 2014
Fiscal Year 2015

Jul  Aug  Sep  Oct  Nov  Dec  Jan  Feb  Mar  Apr  May  Jun

Hotter
Cooler

San Diego County Water Authority
Average Daily Maximum Temperature at Lindbergh Field – Departure from Normal (°F)

SWRCB monthly reporting compares 2015 water use to 2013 water use – temperatures influence water use.
SWRCB Emergency Regulations for Urban Water Conservation

- SWRCB adopted emergency regulations in July 2014
  - Remain in effect for 270 days

- Absent further actions, regulations expire April 25, 2015

- March 17, 2015 SWRCB amended and readopted regulations
  - Anticipated to become effective by the end of the month
  - Urban agencies have 45 days to comply
SWRCB Emergency Regulations
Three Additional Statewide Prohibitions

1. No irrigation with potable water during and up to 48 hours after measurable rainfall

2. Water served only on request in restaurants and bars

3. Hotels and motels offer patrons option of not having towels and linens washed daily
SWRCB Emergency Regulations
Urban Water Supplier Requirements

- Implement mandatory stage of drought response plan that includes limited water days per week
- Promptly notify customers when aware of leaks within customer’s control
- Additional monthly reporting requirements
  - Compliance and enforcement efforts
  - Number of days outdoor irrigation is allowed
# Preparing for Potential FY16 MWD Supply Cutbacks

## Tentative Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
<td>Feb. - April 2015</td>
<td>Staff coordinates with Member Agency Drought Advisory Team on development of proposed FY 2016 supply allocations</td>
</tr>
<tr>
<td>March 26, 2015</td>
<td>SDCWA Board receives monthly update on supply conditions and drought response activities</td>
</tr>
<tr>
<td>April 14, 2015</td>
<td>MWD Board expected to set cutback level and establish member agency allocations</td>
</tr>
<tr>
<td>April 23, 2015</td>
<td>SDCWA Board consider drought management actions in response to cutbacks from MWD</td>
</tr>
<tr>
<td>July 1, 2015</td>
<td>If MWD approves supply cutbacks, allocation period would begin</td>
</tr>
</tbody>
</table>
Carlsbad Desal Project Update

Engineering & Operations Committee
March 26, 2015
## Project Elements

<table>
<thead>
<tr>
<th>Project Element</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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</thead>
<tbody>
<tr>
<td>San Marcos Vent</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Pipeline 3 Relining</td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Twin Oaks Plant Modifications</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Conveyance Pipeline</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Carlsbad Treatment Plant</td>
<td></td>
<td></td>
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<tr>
<td>System Commissioning</td>
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</tr>
</tbody>
</table>

San Diego County Water Authority
Notice of Completion for Pipeline 3
Desal Relining San Marcos to Twin Oaks

Engineering & Operations Committee
March 26, 2015
Project Summary

- Key component of Carlsbad Desalination Project
- Relined 27,000 feet of gasketed steel pipe
- Access Portals: 15 14
- Post construction mitigation
Liner Installation
Cement Mortar Lining
Portal Closure
Restored Portal
## Change Order Summary

<table>
<thead>
<tr>
<th>Classification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Administrative Credit</td>
<td>($986,806)</td>
</tr>
<tr>
<td>Design Modifications Credit</td>
<td>($63,503)</td>
</tr>
<tr>
<td>Errors</td>
<td>$53,129</td>
</tr>
<tr>
<td>Differing Site Conditions</td>
<td>$57,047</td>
</tr>
<tr>
<td>Environmental Modifications</td>
<td>$46,563</td>
</tr>
<tr>
<td><strong>Credit to Project</strong></td>
<td><strong>($893,570)</strong></td>
</tr>
</tbody>
</table>
1. Authorize the General Manager to accept the Pipeline 3 Desal Relining San Marcos to Twin Oaks project as complete, record the Notice of Completion, and release funds held in retention to L.H. Woods & Sons, Inc., following the expiration of the retention period.

2. Approve the transfer of $376,300 from the Pipeline 3 Desal Relining San Marcos to Twin Oaks project budget to the Post Construction Mitigation Program.
Conveyance Pipeline Progress to Date

- Safety: (349,000 work-hours) Two lost time injuries.
- Design: Over 100% complete
- Amount of pipe installed 48,000 51,200 feet (out of 53,000)
- Current work areas
  - Macario Tunnel (tunneling from Cannon Road is complete, and tunneling from Faraday Avenue continues)
  - Restoration and structure work- Multiple locations (Carlsbad, Vista and San Marcos)
  - Work continues on pipeline interconnect facility
  - Fiber Optic installation continues
Desalination Plant Progress

- Safety: (416,000 man hours) Two lost time injuries
- Total working on project: 425 287
- Amount of concrete poured: 36,207 37,500 Cubic yards (94%) (97%)
- Amount of reinforcement steel: 3,845 3,875 tons (99%) (100%)
- Amount of conduit/pipe placed: 67,849 80,394 feet (73%) (86%)
- Design is 100% complete
- Overall: 73% 83% complete
# Carlsbad Desalination Conveyance Facilities

## “Contract Administration Memoranda”

<table>
<thead>
<tr>
<th>Contract Administration Memoranda Number/Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>Credit</strong>: San Marcos Street Improvements not required</td>
<td>($190,000)</td>
</tr>
<tr>
<td>2. <strong>Credit</strong>: Department of Public Health cutoff wall and monitoring wells not required</td>
<td>($125,000)</td>
</tr>
<tr>
<td>3. <strong>Add</strong>: Property for air release and vacuum valve structures</td>
<td>$100,000</td>
</tr>
<tr>
<td>4. <strong>Add</strong>: Costs to permit and develop Macario tunnel design</td>
<td>$185,000 (est)</td>
</tr>
<tr>
<td>5. <strong>Administrative</strong>: Schedule of Values</td>
<td>No Cost</td>
</tr>
<tr>
<td>6. <strong>Add</strong>: Carlsbad Valve Vault (Reimbursable) *Executed CAM &amp; C/O 2</td>
<td>$29,300</td>
</tr>
<tr>
<td>7. <strong>Add</strong>: Vallecitos 9 Flow Control (Reimbursable) *Executed C/O 4</td>
<td>$219,300</td>
</tr>
<tr>
<td>8. <strong>Credit</strong>: Reimbursement for Review of Over–pressurized Pipe</td>
<td>($17,390)</td>
</tr>
<tr>
<td>9. <strong>Add</strong>: Flow Meter Test</td>
<td>$54,000</td>
</tr>
</tbody>
</table>
## Carlsbad Desalination Conveyance Facilities

**“Contract Administration Memoranda” (cont.)**

<table>
<thead>
<tr>
<th>Contract Administration Memoranda Number/Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allowance for measures to handle pipeline pressure</td>
<td>$10,000,000</td>
</tr>
<tr>
<td>• Final Modification Cost (Pipe Thickness, Radiographic Testing, Pipe Coating, Surge Protection)</td>
<td>$ 6,781,046</td>
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<tr>
<td>Credit to Project</td>
<td>$ 3,218,954</td>
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</table>
### Carlsbad Desalination Project Budget Summary

<table>
<thead>
<tr>
<th>Task/Activity</th>
<th>Lifetime Budget ($ Millions)</th>
<th>Expended ($ Millions)</th>
<th>% Expended</th>
<th>% Complete</th>
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<tbody>
<tr>
<td>Desalination Plant Water Purchase Agreement</td>
<td>$4.45</td>
<td>$2.14</td>
<td>48%</td>
<td>83%</td>
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<tr>
<td>Desalination Product Water Conveyance Pipeline</td>
<td>$11.77</td>
<td>$8.08</td>
<td>69%</td>
<td>92%</td>
</tr>
<tr>
<td>Pipeline 3 Desalination Relining</td>
<td>$31.90</td>
<td>$29.47</td>
<td>92%</td>
<td>100%</td>
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<tr>
<td>San Marcos Vent Desalination Modifications</td>
<td>$2.57</td>
<td>$2.57</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Twin Oaks Treatment Plant Modifications</td>
<td>$17.35</td>
<td>$16.4</td>
<td>95%</td>
<td>99%</td>
</tr>
<tr>
<td>Carlsbad and Vallecitos New Facilities for Desalination</td>
<td>$0.34</td>
<td>$0.05</td>
<td>42%</td>
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<tr>
<td>Desalination Intake Upgrade</td>
<td>$0.075</td>
<td>$0.03</td>
<td>14%</td>
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<tr>
<td>Warranty</td>
<td>$0.52</td>
<td>$ –</td>
<td>0%</td>
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<tr>
<td>Carlsbad Desalination Project Contingencies</td>
<td>$4.6</td>
<td>$ –</td>
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<tr>
<td>De-appropriated</td>
<td>$6.3</td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$80.0</strong></td>
<td><strong>$58.74</strong></td>
<td><strong>74%</strong></td>
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<tr>
<td><strong>Proposition 50 Grant</strong></td>
<td><strong>$4.73</strong></td>
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## Commissioning Schedule

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<tr>
<td>Pre-commissioning</td>
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<tr>
<td>Dry/Wet Commissioning</td>
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<tr>
<td>Overall Plant Commissioning</td>
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<tr>
<td>System Commissioning</td>
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<tr>
<td>Commercial Operation</td>
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<td>*</td>
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<tr>
<td>Project Completion</td>
<td></td>
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</table>
Carlsbad Desalination - Intake Upgrade

- Required as part of permit renewal
- Contemplated under the WPA
Preparing for CEQA/Permitting (WA to be lead agency)
- Oceanographic studies
- Marine biology studies
- “Fish-friendly” pump piloting (Hubbs-Seaworld)
- Alternative technology studies

Final Ocean Plan Amendment released last Friday (3/20)
- On-going coordination with SWRCB staff
- Confirm alignment before proceeding
Intake Upgrade – Next Steps

- Notice of Preparation for the Supplemental EIR
  - Public scoping meeting to be held in Carlsbad
  - Complete EIR by end 2015; Permitting through mid-2016

- Complete construction by end of 2017
  - Schedule tied to Encina Power Plant shutdown
Potential Capacity Expansion

- Driven by available RO system capacity
  - Technology improved along the way

- What we know:
  - No technical fatal flaws
  - Can utilize expansion capability of existing systems
  - Would increase max. production rate by 6 mgd (approx. 4,800 afy)
  - Would make use of redundant systems
  - Need to purchase and store new redundant equipment (pumps and motors)
  - Some new equipment required on-site

- What we don’t know yet:
  - Impact to Cost of Water
  - Impact to Cost of New Intake Facility
  - Plant availability impacts
  - Schedule for implementation
Topping Out
Video Flyover
Update on Metropolitan Water District’s Storage Program

Imported Water Committee
March 26, 2015
Key points

- Storage supplies have played an increasing role at MWD in recent years
- Carried SoCal through the hottest and one of the driest years on record in 2014
  - 1.2 MAF of unprecedented “take”
- Storage location matters
  - Access to some storage is tied to SWP allocation
- Use of storage needs to be balanced with potential continuing supply limitations
MWD Storage Reserves
Start of Year Balances*

*Estimated actual storage balances, subject to change.
Storage Balances – Regional View

2015
Beginning Storage:
1.2 MAF
(Does not include SWP System Storage)

ACCESSIBILITY TIED TO SWP ALLOCATION

176 TAF
In-Region Storage

573 TAF
State Water Project

123 TAF
Colorado River Aqueduct Storage

ACCESSIBILITY TIED TO SWP ALLOCATION

DWCV Account
225 TAF
## Potential 2015 SWP Supplies including System Storage*

<table>
<thead>
<tr>
<th></th>
<th>20% SWP (AF)</th>
<th>25% SWP (AF)</th>
<th>35% SWP (AF)</th>
<th>50% SWP (AF)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SWP Base (Table A)</strong></td>
<td>382,300</td>
<td>477,875</td>
<td>669,025</td>
<td>955,750</td>
</tr>
<tr>
<td><strong>SWP System Storage</strong></td>
<td>122,000</td>
<td>155,000</td>
<td>178,000</td>
<td>198,000</td>
</tr>
<tr>
<td>Carryover</td>
<td>32,000</td>
<td>33,000</td>
<td>33,000</td>
<td>33,000</td>
</tr>
<tr>
<td>DWR Flex</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Central Valley programs**</td>
<td>90,000</td>
<td>122,000</td>
<td>145,000</td>
<td>165,000</td>
</tr>
<tr>
<td><strong>SWCV Advance Delivery</strong></td>
<td>38,200</td>
<td>47,750</td>
<td>66,850</td>
<td>95,500</td>
</tr>
<tr>
<td><strong>Account</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>SWP Total</strong></td>
<td>542,500</td>
<td>680,625</td>
<td>913,875</td>
<td>1,249,250</td>
</tr>
</tbody>
</table>

* Does not include additional spot transfers/exchanges of up to 100,000 AF

**Central Valley programs include: Arvin Edison, Semitropic, Kern Delta and Mojave
MWD March Analysis: 2015 & 2016 – Assumptions

- WSAP baseline with losses: ~2.2 MAF
- CRA base supplies: ~925 TAF
  - Include Water Authority’s QSA supplies
  - Assume no senior agricultural water adjustments
- SWP Table A allocation of 25% and 35%
  - Current SWP allocation: 20%
- Storage reserves: 1.2 MAF
  - 535 – 577 TAF available “take” (depending on SWP allocation)
- Transfers/Exchanges: ~165 TAF
  - SWP: 100 TAF
  - CRA: 65 TAF
## Potential Allocation Scenarios - Summary

<table>
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<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>25%</td>
<td>No Allocation/ Level 1</td>
<td>532</td>
<td>5</td>
<td>117</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>439</td>
<td>4</td>
<td>213</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>341</td>
<td>3</td>
<td>310</td>
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</table>
### Potential Allocation Scenarios - Summary

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>35%</td>
<td>No Allocation</td>
<td>341</td>
<td>No Allocation</td>
<td>310</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>248</td>
<td>No Allocation</td>
<td>310</td>
</tr>
<tr>
<td>35% - 25%</td>
<td>2</td>
<td>248</td>
<td>No Allocation</td>
<td>500</td>
</tr>
</tbody>
</table>
Issues to Consider

- Impact of changed conditions
  - SWP Allocation
    - Each 5% ~ 100 TAF
  - CRA senior agricultural water adjustments
    - 2014 adjustments: 111 TAF
  - Transfers/exchanges

- Location of storage reserves matters
  - Lack of DWR flex storage supplies makes SWP allocation more critical for SWP-exclusive areas

- Long-term drought-stressed Colorado river system
  - Use of storage in Mead could impact shortage trigger

- Payback requirement
Topics
Media Relations

• Program promotion

• State restrictions

• Likelihood of supply allocations
Media Partnerships

• “Dear Drought Fighter” with U-T San Diego

A redoubled effort to save water

By U-T San Diego 3:51 P.M. FEB. 19, 2015

Following one of the hottest and driest years in history, California remains locked in a serious drought, and the San Diego region’s largest wholesale water supplier — the Metropolitan Water District of Southern California — likely will reduce water deliveries later this year if conditions don’t improve. Regional investments will help reduce the impact of possible water supply allocations, but they won’t eliminate the need for residents and businesses to save more water.

That’s why we are introducing “Dear Drought Fighter” in partnership with the San Diego County Water Authority’s outreach campaign “When in Drought: Save every day, every way.” Each week, the Home & Garden section will feature answers to questions about water supply, conservation, drought and related topics. Submit your questions to droughtfighter@sdcwa.org to become eligible for a free water conservation device, such as a shower timer or a soil moisture monitor, or a gift from a Water Authority partner such as tickets to the Reuben H. Fleet Science Center. Please include your name and town of residence in your email.
Community Partnerships

March 16–22, 2015
Fix a Leak Week

Westfield North County

EPA WaterSense

PHCC

How Low Can You Go?
Reduce Your Water Use.

girl scouts san diego
2015 ACWA Research

- ACWA/Save Our Water poll Feb. 22-March 1
  - 800 registered voters
- 80% feel drought, water shortages are “extremely” or “very” serious problem
- 89% willing to make changes to save water
- 82% think conservation is always important
- 85% see water agencies as credible messengers
- Barriers exist to achieving more savings
  - “Done everything I can”
  - Reluctance to take next step/sacrifice
2015 ACWA Messaging

• Save Our Water campaign messaging shifting from “joining” to “continuation”
  • Keep saving through crisis
  • Prime long-term behavior changes
• Stressing positive reinforcement
  • Potential activities March-June
Thank you! Your brown lawn is much appreciated.
Keep it up! ☺ California

KEEP SAVING CA
saveourwater.com

Save Our WATER
Regional Messaging Moving Forward

• Develop appropriate message/tone that reflects:
  • Member agency input
  • Supply allocations
  • Statewide conditions/restrictions
  • Water Authority 2015 poll findings
  • Investments in supply reliability
  • Outlook for 2016
Small Contractor Outreach and Opportunities Program

Legislation, Conservation and Outreach Committee
March 26, 2015

Teresa Penunuri, Public Affairs Supervisor
### SCOOP 2nd Quarter Report 2015

<table>
<thead>
<tr>
<th>Measurements</th>
<th>Total</th>
<th>% Small</th>
<th>% M/W</th>
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<tbody>
<tr>
<td>Database</td>
<td>3104</td>
<td>33%</td>
<td>24%</td>
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<tr>
<td># Bidders</td>
<td>238</td>
<td>53%</td>
<td>25%</td>
</tr>
<tr>
<td># Firms</td>
<td>308</td>
<td>40%</td>
<td>14%</td>
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<tr>
<td>Contracts</td>
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<td>$ Awarded</td>
<td>$56,489,150</td>
<td>68%</td>
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**Overall SCOOP participation goal for 2015 = 30%**