Addendum to 2005 Update of the Urban Water Management Plan

RANCHO CALIFORNIA WATER DISTRICT

42135 WINCHESTER ROAD
TEMECULA, CA  92590
(951) 296-6900

MARCH 2007

Report Prepared by

Perry Louck
Director of Planning
Rancho California Water District
SECTION 1

BACKGROUND
Rancho California Water District adopted and submitted its 2005 Urban Water Management Plan update to the California Department of Water Resources in December of 2005. As part of the normal review process, the California Department of Water Resources (DWR) performed a review of the 2005 plan. As a result of this review, DWR requested additional information in the form of a plan addendum.

As a result of this request, staff has worked closely with the DWR staff to ensure that the addendum meets all the requirements of the review process.
SECTION 2

REVIEW NOTES
AND RESPONSES
The following items are provided in response to the request for additional information and clarification of data resulting from DWR’s review of RCWD’s 2005 Urban Water Management Plan.

2.1 Water Sources

Table 4 - Current and Planned Water Supplies – AFY

Review Note - Who are the wholesale agency or agencies?

*See amended table 4 attached*

2.1.2 Groundwater Sources

Does the District have a Groundwater Management plan?

Need description of basin – *See Basin description attached*

Provide a copy of the order or decree – *See copy of the 1940 Stipulated Judgment attached*

Need GW amounts for 2000 – 2004 - *See amended Table 6 attached*

2.1.3 Reliability of Supply

Need supply for Normal, single dry and multiple dry years – *See amended Table 8 attached*

2.1.4 District is a CUWCC signatory

Provide copy of 2005 report- *Copy of 2005 and 2006 reports are attached*
2.1.5 Wholesaler Supplies

Table 19 - Agency demand projections provided to wholesale suppliers – AFY – See amended Table attached

Table 20- Wholesaler identified & quantified the existing and planned sources of water- AFY – See amended Table 20 attached

Table 21 - Wholesale Supply Reliability - % of normal AFY – See amended Table 21 attached

2.1.6 Supply Reliability

Need 5th multiple dry year as per page 8-3 – See amended Table 21 attached

Table 23 - Water Supply Shortage Stages and Conditions – See amended table 23 attached

Table 27 - Consumption Reduction Methods – See copy of Water shortage Contingency Plan attached

2.1.7 Review of Implementation of 2000 UWMP

Provide Review of implementation of 2000 UWMP

As a result of the Rancho California Water District completing and adopting its Regional Integrated Resources Plan (RIRP) in October 2005, the implementation plans identified in the 2000 UWMP have been put on hold. Resulting from the completion of the RIRP and the District becoming a CUWCC signatory after the 2000 UWMP plan was adopted, the District’s resource supply and conservation plans changed dramatically as reflected in the 2005 UWMP. The District also adopted a Water Shortage contingency plan and a Tier 2 targeted water conservation program that superseded the conservation plans identified in the 2000 UWMP. In regards to the Resource plans identified in the RIRP and the 2005 UWMP, the District has funded and is performing a feasibility study to further the implementation of the resource projects identified in the RIRP.
SECTION 3

ADDENDUM
RESOLUTION
RESOLUTION NO. 2007-4-draft

RESOLUTION OF THE BOARD OF DIRECTORS OF RANCHO CALIFORNIA WATER DISTRICT, RIVERSIDE COUNTY, CALIFORNIA, ADOPTING AN ADDENDUM TO ITS URBAN WATER MANAGEMENT PLAN, DECEMBER 2005

WHEREAS, the California Legislature enacted Assembly Bill 797 during the 1983-1984 Regular Session of the California Legislature (Water Code Section 10610 et. seq.), known as the Urban Water Management Planning Act, which mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan, the primary objective of which is to plan for the conservation and efficient use of water; and

WHEREAS, the proper and cost effective conservation of our water resources is essential to ensuring adequate water supplies now and in the future; and

WHEREAS, water conservation is recognized as an integral part of all water programs; and

WHEREAS, The Rancho California Water District has updated their Urban Water Management Plan (the "Plan") pursuant to the requirements of California Water Code Section 10610 et. seq.; and

WHEREAS, the Plan is the formal document to discuss past, current, and projected water demands; current and alternate water conservation measures; water supply deficiencies; and future water management practices; and

WHEREAS, the Department of Water Resources has requested Rancho California Water District provide additional information to support the 2005 Urban Water Management Plan.

NOW, THEREFORE, BE IT HEREBY RESOLVED, DETERMINED, AND ORDERED by the Board of Directors of Rancho California Water District that:

SECTION 1. The Board of Directors of Rancho California Water District approves and adopts the addendum to the "Urban Water Management Plan for Rancho California Water District, December 2005."

SECTION 2. The General Manager is hereby authorized and directed to file the Plan addendum with the California Department of Water Resources within 30 days after this date, pursuant to the requirements of California Water Code Section 10610, et. seq.
ADOPTED, SIGNED, AND APPROVED this 12th day of April 2007.

____________________
Stephen J. Corona, President of the
Board of Directors of the
Rancho California Water District

ATTEST:

____________________
Kelli E. Garcia, Secretary of the
Board of Directors of the
Rancho California Water District
I, Kelli E. Garcia, Secretary of the Board of Directors of Rancho California Water District, do hereby certify that the foregoing Resolution No. 2007-___-___ was duly adopted by the Board of Directors of said District at a regular meeting thereof held on the 12th day of April, 2007, and that it was so adopted by the following vote:

AYES: DIRECTORS:

NOES: DIRECTORS:

ABSENT: DIRECTORS:

ABSTAIN: DIRECTORS:

Kelli E. Garcia, Secretary of the
Board of Directors of
Rancho California Water District

(SEAL)
APPENDIX A

REVISED 2005 URBAN WATER MANAGEMENT PLAN “REVIEW FOR COMPLETENESS” FORM
2005 Urban Water Management Plan "Review for Completeness" Form
Rancho California Water District

(Water Code § 10620 (d)(1)(2))

<table>
<thead>
<tr>
<th>Name of plan</th>
<th>Lead Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
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</tr>
</tbody>
</table>

Describe the coordination of the plan preparation and anticipated benefits.

Table 1
Coordination with Appropriate Agencies

<table>
<thead>
<tr>
<th>Check at least one box on each row</th>
<th>Participated in developing the plan</th>
<th>Commented on the draft</th>
<th>Attended public meetings</th>
<th>Was contacted for assistance</th>
<th>Was sent a copy of the draft plan</th>
<th>Was sent a notice of intention to adopt</th>
<th>Not</th>
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<tr>
<td>MWD</td>
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<td>Other</td>
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<td>Other</td>
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</table>

(Water Code §10620 (f))

X Describe how water management tools / options maximize resources & minimize need to import water

Table 2
Population - Current and Projected

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<td>Service Area Population</td>
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<td>121,324</td>
<td>134,184</td>
<td>145,631</td>
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</table>

X Include current and projected population

Population projections were based on data from state, regional or local agency

Table 3
Climate

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<tr>
<th>Standard Average ET0</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
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<td>2.3</td>
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Average Rainfall

<table>
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<tr>
<th>Average Rainfall</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
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<tbody>
<tr>
<td>2.33</td>
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Average Temperature

<table>
<thead>
<tr>
<th>Average Temperature</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
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<tbody>
<tr>
<td>65.4</td>
<td>65.4</td>
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</tbody>
</table>

Table 3 (continued)
Climate

<table>
<thead>
<tr>
<th>Average ETo</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>November</th>
<th>December</th>
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<tbody>
<tr>
<td>7.92</td>
<td>7.92</td>
<td>7.92</td>
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<td>7.92</td>
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</table>

3/20/2007
<table>
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<tr>
<th>Water Supply Sources</th>
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<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
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<tr>
<td>Water purchased from:</td>
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<td>U.S. Bureau of Reclamation</td>
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<td>Department of Water Resources</td>
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<tr>
<td>Arcade Water District</td>
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<td>Calleguas Municipal Water District</td>
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<tr>
<td>Eastern Municipal Water District</td>
<td>16,000</td>
<td>16,310</td>
<td>24,410</td>
<td>35,010</td>
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<td>Foothill Municipal Water District</td>
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<td>Humboldt Bay Municipal Water District</td>
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<tr>
<td>Inland Empire Utilities Agency</td>
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<td>Joint Regional Water Supply System</td>
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<td>Kern County Water Agency</td>
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<td>Metropolitan Water District of Southern Cal</td>
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<td>Municipal Water District of Orange County</td>
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<td>North of The River Municipal Water District</td>
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<tr>
<td>Placer County Water Agency</td>
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<tr>
<td>Sacramento County Water Management District</td>
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<td>San Diego County Water Authority</td>
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<tr>
<td>San Francisco City of</td>
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<tr>
<td>San Juan Water District</td>
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<tr>
<td>San Luis Obispo County</td>
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<tr>
<td>Santa Clara Valley Water District</td>
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<tr>
<td>Solano County Water Agency</td>
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<tr>
<td>Sonoma County Water Agency</td>
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<tr>
<td>Stockton East Water District</td>
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<td>Tehachapi-Cummings County Water District</td>
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<td>Three Valleys Municipal Utility District</td>
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<td>Upper San Gabriel Valley Municipal Water</td>
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<td>35,000</td>
<td>38,500</td>
<td>36,500</td>
<td>23,500</td>
<td>16,500</td>
</tr>
<tr>
<td>Basin Name(s)</td>
<td>2000</td>
<td>2001</td>
<td>2002</td>
<td>2003</td>
<td>2004</td>
</tr>
<tr>
<td>---------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>Temecula/Pauba</td>
<td>39,096</td>
<td>41,706</td>
<td>41,348</td>
<td>37,188</td>
<td>37,832</td>
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<tr>
<td>% of Total Water Supply</td>
<td>38.82%</td>
<td>38.62%</td>
<td>33.24%</td>
<td>27.98%</td>
<td>28.47%</td>
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<td>Total</td>
<td>N/A</td>
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<td>Reference &amp; Page Number</td>
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### Table 6

<table>
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<tr>
<th>Basin Name(s)</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030 - opt</th>
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<tbody>
<tr>
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<td>27,766</td>
<td>45,766</td>
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<td>45,766</td>
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<td>260</td>
<td>260</td>
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<tr>
<td>Lower Mesa</td>
<td>3,646</td>
<td>3,646</td>
<td>3,646</td>
<td>3,646</td>
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### Table 7

<table>
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<tr>
<th>Basin Name(s)</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030 - opt</th>
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</thead>
<tbody>
<tr>
<td>Pauba</td>
<td>27,766</td>
<td>27,766</td>
<td>45,766</td>
<td>45,766</td>
<td>45,766</td>
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<td></td>
<td>Upper Mesa</td>
<td>Palomar</td>
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<td>----------------</td>
<td>------------</td>
<td>---------</td>
<td></td>
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<td></td>
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<tr>
<td>% of Total Water Supply</td>
<td>37.74%</td>
<td>35.19%</td>
<td>45.02%</td>
<td>42.14%</td>
<td>39.89%</td>
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(Water Code §10631 (c) (1-3))

<table>
<thead>
<tr>
<th>Average / Normal Water Year</th>
<th>Single Dry Water Year</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
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<tbody>
<tr>
<td>95,700</td>
<td>95,700</td>
<td>95,700</td>
<td>95,700</td>
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</table>

| % of Normal | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Table 8
Supply Reliability - AF Year

Table 9
Basis of Water Year Data

<table>
<thead>
<tr>
<th>Water Year Type</th>
<th>Base Year(s)</th>
<th>Reference &amp; Page Number</th>
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<tbody>
<tr>
<td>Average Water Year</td>
<td>1954</td>
<td>pg 8-3</td>
</tr>
<tr>
<td>Single-Dry Water Year</td>
<td>1989</td>
<td>pg 8-3</td>
</tr>
<tr>
<td>Multiple-Dry Water Years</td>
<td>1987 - 1991</td>
<td>pg 8-3</td>
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(Water Code §10631 (c))

Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage

No unreliable sources

Table 10
Factors resulting in inconsistency of supply

<table>
<thead>
<tr>
<th>Name of supply</th>
<th>Legal</th>
<th>Environmental</th>
<th>Water Quality</th>
<th>Climatic</th>
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</thead>
<tbody>
<tr>
<td>Groundwater</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Imported</td>
<td>x</td>
<td>x</td>
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</tbody>
</table>

Describe plans to supplement or replace inconsistent sources with alternative sources or DMMs

No inconsistent sources

(Water Code §10631 (d))

Describe short term and long term exchange or transfer opportunities

No transfer opportunities

Table 11
Transfer and Exchange Opportunities - AF Year
### TABLE 12 - Past, Current and Projected Water Deliveries

<table>
<thead>
<tr>
<th>Water Use Sectors</th>
<th># of accounts</th>
<th>Deliveries AFY</th>
<th># of accounts</th>
<th>Deliveries AFY</th>
<th># of accounts</th>
<th>Deliveries AFY</th>
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<td>Single family</td>
<td>21,700</td>
<td>25,500</td>
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<td></td>
</tr>
<tr>
<td>Multi-family</td>
<td>1,400</td>
<td>1,900</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial/Institutional</td>
<td>3,500</td>
<td>4,100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape</td>
<td>8,300</td>
<td>8,700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>33,900</td>
<td>35,900</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>0</td>
<td>68,800</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>76,100</td>
</tr>
</tbody>
</table>

### TABLE 12 (continued) - Page 2

<table>
<thead>
<tr>
<th>Water Use Sectors</th>
<th># of accounts</th>
<th>Deliveries AFY</th>
<th># of accounts</th>
<th>Deliveries AFY</th>
<th># of accounts</th>
<th>Deliveries AFY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single family</td>
<td>33,000</td>
<td>36,800</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-family</td>
<td>2,800</td>
<td>3,200</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial/Institutional</td>
<td>5,400</td>
<td>6,100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape</td>
<td>9,500</td>
<td>9,900</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>40,000</td>
<td>41,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>0</td>
<td>90,700</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>97,000</td>
</tr>
</tbody>
</table>

### Table 13

<table>
<thead>
<tr>
<th>Sales to Other Agencies - AF Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Distributed</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>name of agency</td>
</tr>
<tr>
<td>name of agency</td>
</tr>
<tr>
<td>name of agency</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

### Table 14

<table>
<thead>
<tr>
<th>Additional Water Uses and Losses - AF Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Use</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Saline barriers</td>
</tr>
<tr>
<td>Groundwater recharge</td>
</tr>
</tbody>
</table>

(Water Code §10631 (e)(1)(2))

- Quantify past water use by sector
- Quantify current water use by sector
- Project future water use by sector

Any recycled water was included in table 12 should not be included in table 14.
### Table 15: Total Water Use - AF Year

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total of Tables 12, 13, 14</td>
<td>68,800</td>
<td>93,100</td>
<td>100,700</td>
<td>108,000</td>
<td>124,400</td>
</tr>
</tbody>
</table>

(Water Code §10631 (f))

- No future water supply projects or programs and no non-implemented / not scheduled DMMs
- Cost-Benefit includes economic and non-economic factors (environmental, social, health, customer impact, and technological factors)
- Cost-Benefit analysis includes total benefits and total costs
- Identifies funding available for Projects with higher per-unit-cost than DMMs
- Identifies Suppliers’ legal authority to implement DMMs, efforts to implement the measures and efforts to identify cost share partners

### Table 16: Evaluation of unit cost of water resulting from non-implemented / non-scheduled DMMs and planned water supply project and programs

<table>
<thead>
<tr>
<th>Non-implemented &amp; Not Scheduled DMM / Planned Water Supply Projects (Name)</th>
<th>Per-AF Cost ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Water Code §10631 (h))

- No future water supply projects or programs
- Detailed description of expected future supply projects & programs
- Timeline for each proposed project
- Quantification of each projects normal yield (AFY)
- Quantification of each projects single dry-year yield (AFY)
- Quantification of each projects multiple dry-year yield (AFY)

### Table 17: Future Water Supply Projects

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Projected Start Date</th>
<th>Projected Completion Date</th>
<th>Normal-year AF to agency</th>
<th>Single-dry year yield AF</th>
<th>Multiple-Dry-Year 1 AF</th>
<th>Multiple-Dry-Year 2 AF</th>
<th>Multi AF</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 new wells</td>
<td>2020</td>
<td>Ongoing</td>
<td>18,000</td>
<td>16,700</td>
<td>16,700</td>
<td>15,900</td>
<td>15,900</td>
</tr>
<tr>
<td>MF/RO Facilit for Recycle water</td>
<td>2025</td>
<td>TBA</td>
<td>13,600</td>
<td>13,600</td>
<td>13,600</td>
<td>13,600</td>
<td>13,600</td>
</tr>
</tbody>
</table>

(Water Code §10631 (i))

- Describes opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply
Urban suppliers that are California Urban Water Conservation Council members may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g).

The supplier's CUWCC Best Management Practices Report should be attached to the UWMP.

<table>
<thead>
<tr>
<th>Agency is a CUWCC member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

Agency receives, or projects receiving, wholesale water

<table>
<thead>
<tr>
<th>Agency provided written demand projections to wholesaler, 20 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

### Table 18

**Opportunities for desalinated water**

<table>
<thead>
<tr>
<th>Sources of Water</th>
<th>Check if yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ocean Water</td>
<td>X</td>
</tr>
<tr>
<td>Brackish ocean water</td>
<td>X</td>
</tr>
<tr>
<td>Brackish groundwater</td>
<td>X</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

(Water Code § 10631 (j))

### Table 19

**Agency demand projections provided to wholesale suppliers - AFY**

<table>
<thead>
<tr>
<th>Wholesaler</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030 - opt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern MWD</td>
<td>29,919</td>
<td>23,169</td>
<td>29,433</td>
<td>32,251</td>
<td>51,584</td>
</tr>
<tr>
<td>Western MWD</td>
<td>35,000</td>
<td>22,500</td>
<td>20,500</td>
<td>7,500</td>
<td>3,800</td>
</tr>
</tbody>
</table>

(Water Code §10631 (k))

**Wholesaler provided written water availability projections, by source, to agency, 20 years**

(If agency served by more than one wholesaler, duplicate this table and provide the source availability for each wholesaler)

<table>
<thead>
<tr>
<th>Wholesaler sources</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030 - opt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern MWD</td>
<td>16,310</td>
<td>24,410</td>
<td>35,010</td>
<td>36,100</td>
<td>39,700</td>
</tr>
<tr>
<td>Western MWD</td>
<td>38,500</td>
<td>36,500</td>
<td>23,500</td>
<td>16,500</td>
<td>19,500</td>
</tr>
</tbody>
</table>

### Table 20

**Wholesale Supply Reliability - % of normal AFY**

<table>
<thead>
<tr>
<th>Wholesaler sources</th>
<th>Multiple Dry Water Years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single Dry</td>
</tr>
<tr>
<td>MWD</td>
<td>100</td>
</tr>
</tbody>
</table>

(Water Code § 10632)

### Table 21

**Factors resulting in inconsistency of wholesaler's supply**

<table>
<thead>
<tr>
<th>Name of supply</th>
<th>Legal</th>
<th>Environment</th>
<th>Water Quality</th>
<th>Climatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWD</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

(Water Code § 10632)
<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Water Supply Conditions</th>
<th>% Shortage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Normal condition</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Water Alert</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Water Warning</td>
<td>30</td>
</tr>
<tr>
<td>4</td>
<td>Water Emergency</td>
<td>50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>source**</th>
<th>Normal</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imported (MWD)</td>
<td>31,084</td>
<td>34,761</td>
<td>40,226</td>
<td>32,777</td>
</tr>
<tr>
<td>Groundwater</td>
<td>38,130</td>
<td>38,931</td>
<td>39,636</td>
<td>39,378</td>
</tr>
<tr>
<td>Reclaimed</td>
<td>6,044</td>
<td>6,093</td>
<td>6,161</td>
<td>6,068</td>
</tr>
<tr>
<td>Total</td>
<td>75,258</td>
<td>79,785</td>
<td>86,023</td>
<td>78,223</td>
</tr>
</tbody>
</table>

X | Provide stages of action  
Provide the water supply conditions for each stage  
Includes plan for 50 percent supply shortage

<table>
<thead>
<tr>
<th>Possible Catastrophe</th>
<th>Check if Discussed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regional power outage</td>
<td>X</td>
</tr>
<tr>
<td>Earthquake</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Examples of Prohibitions</th>
<th>Stage When Prohibition Becomes Mandatory</th>
</tr>
</thead>
</table>

\[\text{Table 23: Water Supply Shortage Stages and Conditions}\]

\[\text{Table 24: Three-Year Estimated Minimum Water Supply - AF Year}\]

\[\text{Table 25: Preparation Actions for a Catastrophe}\]

\[\text{Table 26: Mandatory Prohibitions}\]
**List the consumption reduction methods the water supplier will use to reduce water use in the most restrictive stages with up to a 50% reduction.**

<table>
<thead>
<tr>
<th>Consumption Reduction Methods</th>
<th>Stage When Method Takes Effect</th>
<th>Projected Reduction (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using potable water for street washing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>No runoff onto hardscape, driveways, streets, or gutters</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Water at night only parks, school yards &amp; golf courses</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>No fire hydrant meters to be issued</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>No watering lawns</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Water will only be serve at restaurants when requested</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Swimming pools are not to be filled</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

---

**List excessive use penalties or charges for excessive use**

<table>
<thead>
<tr>
<th>Penalties or Charges</th>
<th>Stage When Penalty Takes Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penalty for excess use</td>
<td>1</td>
</tr>
<tr>
<td>Charge for excess use</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**Describe how actions and conditions impact revenues**

Reference & Page Number

**Describe how actions and conditions impact expenditures**

Reference & Page Number

---

9 3/20/2007 A10
### Table 29
**Proposed measures to overcome revenue impacts**

<table>
<thead>
<tr>
<th>Names of measures</th>
<th>Check if Discussed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate adjustment</td>
<td>X</td>
</tr>
<tr>
<td>Development of reserves</td>
<td>X</td>
</tr>
<tr>
<td>name of measure</td>
<td></td>
</tr>
<tr>
<td>name of measure</td>
<td></td>
</tr>
</tbody>
</table>

### Table 30
**Proposed measures to overcome expenditure impacts**

<table>
<thead>
<tr>
<th>Names of measures</th>
<th>Check if Discussed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drought Reserves</td>
<td>X</td>
</tr>
</tbody>
</table>

(Water Code § 10632 (h))

**Attach a copy of the draft water shortage contingency resolution or ordinance.**

(Water Code § 10632 (i))

**Provided mechanisms for determining actual reductions**

(Water Code § 10633)

### Table 31
**Water Use Monitoring Mechanisms**

<table>
<thead>
<tr>
<th>Mechanisms for determining actual reductions</th>
<th>Type data expected (pop-up?)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billing System on a monthly basis</td>
<td>Actual water use</td>
</tr>
</tbody>
</table>

### Table 32
**Participating agencies**

<table>
<thead>
<tr>
<th>Participating agencies</th>
<th>participated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water agencies</td>
<td>RCWD, MWD</td>
</tr>
<tr>
<td>Wastewater agencies</td>
<td>EMWD, WMWD</td>
</tr>
<tr>
<td>Groundwater agencies</td>
<td></td>
</tr>
<tr>
<td>Planning Agencies</td>
<td></td>
</tr>
</tbody>
</table>

(Water Code § 10633)

**Describe the coordination of the recycling plan preparation information to the extent available.**
Describe the wastewater collection and treatment systems in the supplier’s service area

Quantify the volume of wastewater collected and treated

**Table 33**

<table>
<thead>
<tr>
<th>Wastewater Collection and Treatment - AF Year</th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wastewater collected &amp; treated in service area</td>
<td>18,594</td>
<td>22,655</td>
<td>26,715</td>
<td>29,404</td>
<td>29,404</td>
</tr>
<tr>
<td>Volume that meets recycled water standard</td>
<td>18,594</td>
<td>22,655</td>
<td>26,715</td>
<td>29,404</td>
<td>29,404</td>
</tr>
</tbody>
</table>

**Table 34**

<table>
<thead>
<tr>
<th>Disposal of wastewater (non-recycled) AF Year</th>
<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temascal Creek</td>
<td>6,945</td>
<td>9,017</td>
<td>11,089</td>
<td>12,882</td>
</tr>
<tr>
<td>Name of method</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of method</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of method</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>6,945</td>
<td>9,017</td>
<td>11,089</td>
<td>12,882</td>
</tr>
</tbody>
</table>

**Table 35**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>Title 22</td>
<td>194</td>
<td>190</td>
<td>190</td>
</tr>
<tr>
<td>Landscape</td>
<td>Title 22</td>
<td>6,497</td>
<td>4,481</td>
<td>5,699</td>
</tr>
<tr>
<td>Wildlife Habitat</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetlands</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Groundwater Recharge</td>
<td>MF/RO</td>
<td>0</td>
<td>35,000</td>
<td>35,000</td>
</tr>
<tr>
<td>Tolerant Agriculture</td>
<td>MF/RO</td>
<td>0</td>
<td>38,000</td>
<td>38,000</td>
</tr>
<tr>
<td>Other (user type)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>6,691</td>
<td>77,871</td>
<td>78,889</td>
<td>80,107</td>
</tr>
</tbody>
</table>

Determination of technical and economic feasibility of serving the potential uses

**Table 36**

<table>
<thead>
<tr>
<th>Projected Future Use of Recycled Water in Service Area - AF Year</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030 - opt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projected use of Recycled Water</td>
<td>7,890</td>
<td>9,090</td>
<td>9,890</td>
<td>24,300</td>
<td>25,200</td>
</tr>
</tbody>
</table>

Compare UWMP 2000 projections with UWMP 2005 actual

None
### Table 37
Recycled Water Uses - 2000 Projection compared with 2005 actual - AFY

<table>
<thead>
<tr>
<th>User type</th>
<th>2000 Projection for 2005</th>
<th>2005 actual use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wildlife Habitat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetlands</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Groundwater Recharge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (user type)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>4,180</td>
<td>6,497</td>
</tr>
</tbody>
</table>

### Table 38
Methods to Encourage Recycled Water Use

<table>
<thead>
<tr>
<th>Actions</th>
<th>AF of use projected to result from this action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2010</td>
</tr>
<tr>
<td>Financial incentives</td>
<td>7,890</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
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<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>7,890</td>
</tr>
</tbody>
</table>

### Table 39
Current & projected water supply changes due to water quality - percentage

|--------------|------|------|------|------|------|------------|

### Table 40
Projected Normal Water Supply - AF Year

<table>
<thead>
<tr>
<th>(from table 4)</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030 - opt</th>
</tr>
</thead>
</table>

---

**Water Code § 10633 (f)**

- Describe actions that might be taken to encourage recycled water uses
- Describe projected results of these actions in terms of acre-feet of recycled water used per year

**Water Code § 10634**

- Discuss water quality impacts (by source) upon water management strategies and supply reliability
- No water quality impacts projected

**Water Code § 10635 (a)**

- Compare the projected normal water supply to projected normal water use over the next 20 years, in 5-year increments.
### Projected Normal Water Demand - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Supply 100,700</th>
<th>Demand % of year 2005</th>
<th>Difference as % of Supply</th>
<th>Difference as % of Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>100,700</td>
<td>105.2%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2015</td>
<td>108,000</td>
<td>112.9%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2020</td>
<td>124,400</td>
<td>130.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2025</td>
<td>132,900</td>
<td>138.9%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2030</td>
<td>140,400</td>
<td>146.7%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

### Projected Supply and Demand Comparison - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Supply totals 100,700</th>
<th>Demand totals 100,700</th>
<th>Difference</th>
<th>Difference as % of Supply</th>
<th>Difference as % of Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>100,700</td>
<td>105.2%</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>108,000</td>
<td>112.9%</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>124,400</td>
<td>130.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2025</td>
<td>132,900</td>
<td>138.9%</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2030</td>
<td>140,400</td>
<td>146.7%</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
</tbody>
</table>

### Projected single dry year Water Supply - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Supply 108,215</th>
<th>% of projected normal 107.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>108,215</td>
<td>107.5%</td>
</tr>
<tr>
<td>2015</td>
<td>116,163</td>
<td>107.6%</td>
</tr>
<tr>
<td>2020</td>
<td>133,130</td>
<td>107.0%</td>
</tr>
<tr>
<td>2025</td>
<td>142,377</td>
<td>107.1%</td>
</tr>
<tr>
<td>2030</td>
<td>150,543</td>
<td>107.1%</td>
</tr>
</tbody>
</table>

### Projected single dry year Water Demand - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Demand 108,215</th>
<th>% of projected normal 107.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
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</tr>
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<td>2025</td>
<td>142,377</td>
<td>107.1%</td>
</tr>
<tr>
<td>2030</td>
<td>150,543</td>
<td>107.1%</td>
</tr>
</tbody>
</table>

### Projected single dry year Supply and Demand Comparison - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Supply totals 108,215</th>
<th>Demand totals 108,215</th>
<th>Difference</th>
<th>Difference as % of Supply</th>
<th>Difference as % of Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>108,215</td>
<td>108,215</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>116,163</td>
<td>116,163</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>133,130</td>
<td>133,130</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2025</td>
<td>142,377</td>
<td>142,377</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>2030</td>
<td>150,543</td>
<td>150,543</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
</tbody>
</table>
Project a multiple-dry year period (as identified in Table 9) occurring between 2011-2015 and compare projected supply and demand during those years.

Project a multiple-dry year period (as identified in Table 9) occurring between 2016-2020 and compare projected supply and demand during those years.
### Projected Demand Multiple Dry Year Period Ending in 2020 - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demand</td>
<td>108,563</td>
<td>114,004</td>
<td>121,906</td>
<td>120,436</td>
<td>123,429</td>
</tr>
<tr>
<td>% of projected normal</td>
<td>100.5%</td>
<td>105.6%</td>
<td>112.9%</td>
<td>111.5%</td>
<td>99.2%</td>
</tr>
</tbody>
</table>

### Projected Supply and Demand Comparison during Multiple Dry Year Period Ending in 2020 - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply totals</td>
<td>108,563</td>
<td>114,004</td>
<td>121,906</td>
<td>115,619</td>
<td>113,554</td>
</tr>
<tr>
<td>Demand totals</td>
<td>108,563</td>
<td>114,004</td>
<td>121,906</td>
<td>120,436</td>
<td>123,429</td>
</tr>
<tr>
<td>Difference</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>(4,817)</td>
<td>(9,875)</td>
</tr>
<tr>
<td>Difference as % of Supply</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>-4.2%</td>
<td>-8.7%</td>
</tr>
<tr>
<td>Difference as % of Demand</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>-4.0%</td>
<td>-8.0%</td>
</tr>
</tbody>
</table>

### Projected Demand Multiple Dry Year Period Ending in 2025 - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td>125,138</td>
<td>130,796</td>
<td>139,134</td>
<td>130,292</td>
<td>121,298</td>
</tr>
<tr>
<td>% of projected normal</td>
<td>100.6%</td>
<td>105.1%</td>
<td>111.8%</td>
<td>104.7%</td>
<td>91.3%</td>
</tr>
</tbody>
</table>

### Projected Demand Multiple Dry Year Period Ending in 2025 - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demand</td>
<td>125,138</td>
<td>130,796</td>
<td>139,134</td>
<td>135,721</td>
<td>131,845</td>
</tr>
<tr>
<td>% of projected normal</td>
<td>100.6%</td>
<td>105.1%</td>
<td>111.8%</td>
<td>109.1%</td>
<td>99.2%</td>
</tr>
</tbody>
</table>

### Projected Supply and Demand Comparison during Multiple Dry Year Period Ending in 2025 - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply totals</td>
<td>125,138</td>
<td>130,796</td>
<td>139,134</td>
<td>130,292</td>
<td>121,298</td>
</tr>
<tr>
<td>Demand totals</td>
<td>125,138</td>
<td>130,796</td>
<td>139,134</td>
<td>135,721</td>
<td>131,845</td>
</tr>
<tr>
<td>Difference</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>(5,429)</td>
<td>(10,547)</td>
</tr>
<tr>
<td>Difference as % of Supply</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>-4.2%</td>
<td>-8.7%</td>
</tr>
<tr>
<td>Difference as % of Demand</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>-4.0%</td>
<td>-8.0%</td>
</tr>
</tbody>
</table>

### Projected Supply during Multiple Dry Year Period Ending in 2025 - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td>125,138</td>
<td>130,796</td>
<td>139,134</td>
<td>130,292</td>
<td>121,298</td>
</tr>
<tr>
<td>% of projected normal</td>
<td>100.6%</td>
<td>105.1%</td>
<td>111.8%</td>
<td>104.7%</td>
<td>91.3%</td>
</tr>
</tbody>
</table>

### Projected Demand during Multiple Dry Year Period Ending in 2025 - AF Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demand</td>
<td>125,138</td>
<td>130,796</td>
<td>139,134</td>
<td>135,721</td>
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<tr>
<td>% of projected normal</td>
<td>100.6%</td>
<td>105.1%</td>
<td>111.8%</td>
<td>109.1%</td>
<td>99.2%</td>
</tr>
</tbody>
</table>

### Provision of Water Service Reliability Section to cities/counties within service area

- Provided Water Service Reliability section of UWMP to cities and counties within which it provides water supplies within 60 days of UWMP submission to DWR

### Water Code § 10642

- Attach a copy of adoption resolution
- Encourage involvement of social, cultural & economic community groups
- Plan available for public inspection
- Provide proof of public hearing
- Provided meeting notice to local governments

### Water Code § 10643

- Reviewed implementation plan and schedule of 2000 UWMP
- Implemented in accordance with the schedule set forth in plan
<table>
<thead>
<tr>
<th></th>
<th>2000 UWMP not required</th>
<th>Reference &amp; Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Provide 2005 UWMP to DWR, and cities and counties within 30 days of adoption</td>
<td>Appx D</td>
</tr>
<tr>
<td>X</td>
<td>Does UWMP or correspondence accompanying it show where it is available for public review</td>
<td>Appx C</td>
</tr>
</tbody>
</table>

(Water Code § 10644 (a))

(Water Code § 10645)
APPENDIX B

BASIN DESCRIPTION
Temecula-Murrieta Basin

Description
Location: Riverside and San Diego Counties
Watershed Surface Area: 137 square miles
MWD Member Agency(s):
Eastern Municipal Water District
Western Municipal Water District
Management: Adjudicated
Groundwater in connection with surface water is adjudicated under terms of Santa Margarita River Watermaster.
Safe/Operating Yield: 34,400 AFY
Total Storage: 1.3 to 2.0 MAF
Usable Storage: 250,000 to 500,000 AF
Storage Space Available: Data not available
Storage and Extraction Facilities
Production Wells
Production Capacity: 37,000 AFY
Average: ~31,700 AFY
Injection Wells
Injection Capacity: None
Average: None
Spreading Basins
Spreading Capacity: Data not available
Average: 16,000 AFY

Basis Constraints
- Diversion and pumping limitations of the Santa Margarita River Watermaster and other diversions/pumping rights

BASIN FACTS
Temecula-Murrieta Basin

- Location: Riverside and San Diego Counties
- Watershed Surface Area: 137 square miles
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- Total Storage: 1.3 to 2.0 MAF
- Usable Storage: 250,000 to 500,000 AF
- Storage Space Available: Data not available
- Storage and Extraction Facilities:
  - Production Wells: Production Capacity: 37,000 AFY, Average: ~31,700 AFY
  - Injection Wells: Injection Capacity: None, Average: None
  - Spreading Basins: Spreading Capacity: Data not available, Average: 16,000 AFY
- Basis Constraints:
  - Diversion and pumping limitations of the Santa Margarita River Watermaster and other diversions/pumping rights
The Temecula-Murrieta Basin underlies several valleys in southwestern Riverside County and a portion of northern San Diego County. Alluvial sediments extend through Pauba Valley, Temecula-Murrieta Valley, Santa Gertrudis Valley, and Wolf Valley. These basins underlie the Metropolitan member agency service areas of Eastern Municipal Water District (Eastern MWD) and Western Municipal Water District (Western MWD). A map of the Temecula-Murrieta Basin is provided in Figure 1.

Figure 1
Map of Temecula-Murrieta Basin
I. BASIN CHARACTERIZATION

The following section provides a physical description of the Temecula-Murrieta Basin, including its geographic location and hydrogeologic character.

A. Basin Producing Zones and Storage Capacity

There are two aquifers within the Temecula-Murrieta Basin: the Pauba aquifer and the Temecula aquifer. Within these two aquifers Rancho California Water District (RCWD) has identified eight underlying groundwater basins, which are based upon surface water hydrology subbasins: Pauba Valley Basin, Lower Mesa Basin, Upper Mesa Basin, North Murrieta Basin, South Murrieta Basin, San Gertrudis Basin, Wolf Valley Basin, and Palomar Basin. For purposes of this report, the extent of the groundwater basins are defined by the extent of the principal aquifers rather than surface water designations. The Pauba aquifer consists of younger, unconfined alluvium deposited within the Temecula-Murrieta Basin. The deeper Temecula aquifer is semi-confined and confined, and underlies and extends beyond the boundaries of the Pauba aquifer. A description of each aquifer follows.

The Lancaster, Aguanga, and Agua Caliente faults and several strands of the Elsinore fault zone cross the basin and may affect groundwater movement. The Wildomar fault is a groundwater barrier that produces differences in water level and pressure in the northwestern part of the basin. Murrieta Hot Springs lie along an unnamed fault indicating that the fault affects subsurface flow (DWR, 2004). Significant differences in water levels can occur across this fault and RCWD reports that pumping wells on one side of this fault do not discernibly affect the piezometric levels on the other side of the fault.

1. Pauba aquifer

The Pauba aquifer covers approximately 18 square miles. Alluvial sediments extend through Pauba Valley, Temecula-Murrieta Valley, Santa Gertrudis Valley, and Wolf Valley. The Pauba Valley occurs along Temecula Creek and extends approximately seven miles westward from Vail Lake. Well yields in the unconfined alluvial aquifer of the Pauba Valley are excellent, and typically range from 500 gpm to 2,000 gpm. The Pauba aquifer is underlain by the confined Temecula aquifer. The storage capacity of the Pauba aquifer has been estimated at 200,000 AF.

2. Temecula aquifer

The Temecula aquifer extends over an area of approximately 100 square miles and is comprised of consolidated sediments that underlie and extend beyond the boundaries of the Pauba aquifer. Sediment depths within the Temecula aquifer are typically 1,000 feet or more. Except for upstream forebay areas, confining layers separate the Pauba and Temecula aquifers, and groundwater is confined or semi-confined throughout the Temecula aquifer. RCWD reports well yields ranging from several hundred gpm to approximately 2,000 gpm.

Estimates for the amount of groundwater stored within the Temecula aquifer vary widely. The Santa Margarita River Watermaster estimated total groundwater storage in the uppermost 500 feet at 1,340,556 AF as of September 30, 2001. RCWD reports total groundwater storage with the Temecula aquifer at approximately 2 million AF. DWR reports groundwater storage
within the Pauba and Temecula aquifers at approximately 250,000 AF. Anchor Environmental estimated the Temecula aquifer storage capacity at approximately 300,000 AF, given the approximated 100 square mile areal extent of the 1,000-foot thick aquifer, a specific yield of 0.5 percent.

A summary of the hydrogeologic parameters of the Temecula-Murrieta Basin is presented in Table 1.

Table 1
Summary of Hydrogeologic Parameters of Temecula Valley Basin

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Structure</strong></td>
<td></td>
</tr>
<tr>
<td>Aquifer(s)</td>
<td>Temecula Valley aquifer</td>
</tr>
<tr>
<td></td>
<td>Pauba aquifer</td>
</tr>
<tr>
<td>Depth of groundwater basin</td>
<td>&gt;2,500 feet</td>
</tr>
<tr>
<td>Thickness of water-bearing units</td>
<td>Temecula aquifer: 1,000 feet or more</td>
</tr>
<tr>
<td></td>
<td>Pauba aquifer: 50 to 250 feet</td>
</tr>
<tr>
<td><strong>Yield and storage</strong></td>
<td></td>
</tr>
<tr>
<td>Natural safe yield</td>
<td>34,400 AFY</td>
</tr>
<tr>
<td>Total Storage</td>
<td>1.34 to 2 million AF</td>
</tr>
<tr>
<td>Usable Storage</td>
<td>Temecula and Pauba aquifers: 250,000 to 500,000 AF</td>
</tr>
<tr>
<td>Available Storage</td>
<td>Data not available</td>
</tr>
</tbody>
</table>

Source: DWR, 2004; RCWD, 2005; Anchor Environmental, 2004; and Santa Margarita River Watermaster, 2005

B. Safe Yield/Long-Term Balance of Recharge and Discharge


According to RCWD’s groundwater model, the average natural inflow (recharge, return flow, stream percolation and underflow) for all eight basins is 41,000 AFY when no artificial recharge is occurring (CDM, 2005). There are seven years in which the natural inflow has exceeded 70,000 AFY. The average natural basin outflow for all eight groundwater basins from 1935 to 1998 was 6,600 AFY. The natural yield of the eight basins equals the natural inflows less the
natural losses, which would be 34,400 AFY. Further descriptions on the recharge characteristics of the Pauba aquifer and the Temecula aquifer follow.

1. Pauba aquifer

As discussed above, the alluvial sediments of the Pauba aquifer extend through four valleys: Pauba Valley, Temecula-Murrieta Valley, Santa Gertrudis Valley, and Wolf Valley. The upstream portion of the Pauba Valley is a key forebay that recharges both the Pauba aquifer and the underlying Temecula aquifer. Pauba aquifer depths downstream from the forebay are typically in excess of 100 feet and extend to depths of more than 250 feet.

The Temecula-Murrieta Valley extends along Murrieta Creek northward from the Santa Margarita River confluence. The Murrieta forebay is located in the upstream portion of the Valley, and the forebay recharges both the alluvial sediments of the Temecula-Murrieta Valley and the underlying Temecula aquifer. Downstream from the forebay, confining layers separate overlying alluvial sediments from the underlying Temecula aquifer. Sediment depths in the unconfined portion of the Valley (Pauba aquifer) are typically in excess of 100 feet in depth, and extend to a maximum depth of approximately 200 feet.

The Santa Gertrudis Valley is a long and narrow valley that extends eastward from the Temecula-Murrieta Valley along Santa Gertrudis Creek. A forebay exists at the upstream end of the Valley that recharges both the unconfined alluvial sediments of the Valley (Pauba aquifer) and the underlying confined Temecula aquifer. The Pauba aquifer depths downstream from the forebay typically range from 50 to 100 feet.

Wolf Valley extends southward approximately three miles from the confluence of Pechanga Creek and Temecula Creek. A forebay exists at the upstream (south) end of Wolf Valley that recharges both the unconfined alluvial sediments of the Wolf Valley (Pauba aquifer) and the
underlying Temecula aquifer. Pauba aquifer depths downstream from the Wolf Valley forebay range from 50 to 80 feet.

2. **Temecula aquifer**

The Temecula aquifer is a deeper, confined or semi-confined aquifer below the Pauba aquifer. Streamflow infiltration in unconfined alluvial forebays represents the primary source of recharge to the Temecula aquifer. Such streamflow infiltration recharge occurs in upstream forebays within Pauba Valley, Wolf Valley, Temecula-Murrieta Valley, and Santa Gertrudis Valley. In addition, portions of the Temecula aquifer are exposed in the upland mesa portion of eastern Temecula, allowing for recharge through streamflow infiltration, applied water infiltration, and precipitation infiltration.

II. **GROUNDWATER MANAGEMENT**

The following section describes how the basins are currently managed.

A. **Basin Governance**

As part of the Santa Margarita River system, surface water and groundwater supporting surface water (defined as being in the older and younger alluvium) with the Temecula Valley have been under some form of court jurisdiction since 1928. Groundwater basins not contributing the Santa Margarita River system are not adjudicated. A summary of the governing agencies and their roles is presented in Table 2.

Rights to utilize the groundwater and the water stored in Vail Lake are defined in the 1940 Stipulated Judgment in the case of Santa Margarita versus Vail and Appropriations Permit 7032 issued by the State Water Resources Control Board. A Watermaster has been assigned by the court to oversee all uses within the Santa Margarita River Watershed. The Stipulated Judgment assigns two-thirds of all natural waters to Camp Pendleton and the remaining one third to RCWD. Inflow to Vail Lake is not stored, but rather is passed through to Temecula Creek from May through October (CDM, 2005)

In March 1989, the Court appointed a James S. Jenks as Watermaster (who has since been replaced by Chuck Binder) to administer and enforce the provisions of the Modified Final Judgment and Decree and subsequent orders of the Court. The Court also appointed a Steering Committee, that at the conclusion of 2003-04 was comprised of representatives from the United States, Eastern Municipal Water District, Fallbrook Public Utility District, Metropolitan, the Pechanga Tribe, and RCWD. The purposes of the Steering Committee are to assist the Court, to facilitate litigation, and to assist the Watermaster (Santa Margarita River Watershed Watermaster Report 2005.)
Table 2
Summary of Governing Agencies for Temecula-Murrieta Basin

<table>
<thead>
<tr>
<th>Agency</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Margarita River Watershed Steering Committee</td>
<td>Assist the Court, to facilitate litigation, and to assist the Watermaster</td>
</tr>
<tr>
<td>Chuck Binder</td>
<td>Court-appointed Santa Margarita River Watermaster</td>
</tr>
<tr>
<td>Rancho California Water District</td>
<td>Prepares Groundwater Audit and Recommend Groundwater Production Report</td>
</tr>
</tbody>
</table>

In addition, each year the RCWD prepares a Groundwater Audit and a Recommended Groundwater Production Report (RGPR). The amount of groundwater that can be produced varies due to such factors as rainfall, recharge area, and amount and location of well pumping capacity (RCWD, 1997).

**B. Interactions with Adjoining Basins**

The Temecula-Murrieta Basin is adjacent to the Elsinore Basin. When groundwater levels are above 1,100 feet MSL in the southeastern portion of the Elsinore Basin, small amounts (less than 100 AFY) of groundwater could spill into the adjacent Temecula-Murrieta Basin (MWH, 2003a). Current water levels are substantially below this level so there are no agreements regarding this flow.

**III. WATER SUPPLY FACILITIES AND OPERATIONS**

The following section presents information on water supply facilities and operations. Facilities include more than 70 groundwater production wells, 4 groundwater recovery wells and spreading basins. Each of these facilities is discussed in more detail below.

**A. Active Production Wells**

A summary of production wells in the Temecula-Murrieta Basin is presented in Table 3.
Table 3
Summary of Production Wells in Temecula Valley Basin

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Wells</th>
<th>Estimated Production Capacity (AFY)</th>
<th>Average Production (AFY)</th>
<th>Well Operation Cost ($/AF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pauba/Temecula aquifers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Municipal</td>
<td>RCWD: 52</td>
<td>Data not available</td>
<td>RCWD: 28,800</td>
<td>Data not available</td>
</tr>
<tr>
<td></td>
<td>EMWD: 0</td>
<td></td>
<td>EMWD: 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MCWD: 5</td>
<td></td>
<td>MCWD: 760</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FPUD: 3</td>
<td></td>
<td>FPUD: 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subtotal: 60</td>
<td></td>
<td>Subtotal: 29,560</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Others: Data not available</td>
<td></td>
<td>Others: 1,377</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subtotal:</td>
<td></td>
<td>Subtotal: 2,098</td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>&gt;71</td>
<td>31,658</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sources: Santa Margarita River Watermaster, 2004; Santa Margarita River Watershed Management Plan, Watershed Assessment Report Draft, 2004

The agencies that pump from the eight basins include RCWD, Eastern MWD, Western MWD (formerly Murrieta County Water District (MCWD)), the Pechanga Indian Reservation, and other private pumpers (RCWD, 2005). Well yields generally range to 300 gpm in the northwestern part of the basin, but reach 1,750 gpm for wells in Pauba Valley (DWR, 2004). RCWD, the largest of these agencies, encompasses almost 100,000 acres and provides retail water supply for a variety of agricultural and residential uses. Typical agricultural uses include avocados, citrus, and grapes while residential demands are for the rapidly growing cities of Temecula and Murrieta (RCWD, 1997).

RCWD maintains more than 100 production and monitoring wells within the Temecula Valley. RCWD currently has 52 production wells in the eight basins with a total instantaneous capacity of 46,400 gpm (104 cfs), not including four groundwater recovery wells in the Valle de los Caballos project. Total RCWD groundwater pumping is dependent on water demands and hydrologic conditions, but RCWD typically derives from 40 to 50 percent of its total water supply from local groundwaters of the Pauba and Temecula aquifers. From 1984/85 to 2003/04, RCWD groundwater production ranged from 21,400 AFY to 36,100 AFY, averaging 28,800 AFY (Santa Margarita River Watermaster, 2004).

Eastern MWD has historically derived a small percentage of its domestic water supply from wells within the Temecula Valley. From 1984-85 to 2003-04, EMWD groundwater production from the Temecula Valley ranged from 0 AFY to 685 AFY, averaging 317 AFY (Santa Margarita River Watermaster, 2004). In 2004, Eastern MWD destroyed its one remaining well in the Temecula Valley.
Groundwater serves as the exclusive source of water supply for Western MWD, which acquired MCWD in 2005. Western MWD operates five water supply wells within the north end of the Temecula Valley. From 1984-85 to 2003-04, MCWD groundwater production from the Temecula Valley ranged from 286 AFY to 1979 AFY, averaging 760 AFY (Santa Margarita River Watermaster, 2004).

Fallbrook Public Utility District (FPUD) imports the majority of it water from SDCWA and Metropolitan, but it does have three wells in the Temecula Valley. From 1984-85 to 2003-04, FPUD groundwater production from the Valley ranged from 0 AFY to 94 AFY, averaging 20 AFY. There has been no production from these wells since 1994-95 (Santa Margarita River Watermaster, 2004).

Historical municipal groundwater production for the Temecula Valley is presented in Figure 3. This figure does not include the production from substantial private users outside of these organized service areas.

Agricultural demands continue to be a significant part of the RCWD demands, as shown in Figure 4. However, increased residential and commercial development in the Temecula Valley will result in greater domestic/commercial demands over time.
B. Other Production

It is important to note that as a condition to receiving RCWD water service, RCWD requires local water users to convey overlying groundwater rights to RCWD. As a result, virtually no private groundwater wells exist within the RCWD service area. Outside of the RCWD service area, however, dozens of private well owners pump groundwater within the Temecula Valley. Most of the private wells are within the upstream portion of the Murrieta Valley, and are used for domestic or irrigation supply at private residences. In 2003-04, the Santa Margarita River Watermaster identified a total of nine private water users within the Temecula Valley as being "substantial users." During 2003-04, approximately 2,100 AF of groundwater was produced by these “substantial users” (Santa Margarita River Watermaster, 2004).

The Pechanga Indian Reservation is one of these “substantial users” and develops its potable and irrigation supplies from 11 onsite wells within the Temecula Valley. During 2003-04, the Pechanga Indian Reservation produced 721 AFY of groundwater from the Temecula-Murrieta Basin (Santa Margarita River Watermaster, 2004).

RCWD’s Vail Dam appropriative right provides that the District may store up to 40,000 AF in Vail Reservoir each year between November 1 and April 30, subject to limitations, and that the water so stored may be used for irrigation and domestic uses incidental to farming operations on 3,797 acres of land between May 1 and October 31. Such use may be by direct diversion from Vail Lake or by recovery with wells of water released from Vail and spread downstream in Pauba Valley. The amount of local runoff reaching the lake can vary widely depending on hydrological conditions. From 1962 to 2000, flows into Vail Lake ranged from 218 AFY to
Temecula-Murrieta Basin

29,570 AFY, with an average flow of 5,150 AFY. The storage capacity of the lake is approximately 40,000 AF, with a surface area of 1,000 acres. Currently, RCWD only uses Vail Lake to store local runoff. The historical available storage of the lake has varied widely as well, including two periods when the reservoir was full in March 1984 and February 1997. The average available storage is approximately 30,900 AF.

C. ASR Wells

RCWD operates four groundwater recovery wells – the Valle de los Caballos wells – at the Valle de los Caballos spreading basins discussed below.

D. Spreading Basins

In addition to the extraction of the natural yield of the basins, RCWD artificially recharges the Pauba Valley Basin with untreated imported water for enhanced groundwater production. RCWD purchases imported water from Metropolitan and delivers it from the San Diego aqueduct turnout EM-19 to the Valle de los Caballos (VDC) recharge basins. In the past, the VDC recharge basins have provided up to 16,000 AFY of artificial groundwater recharge. These data are summarized in Figure 5.

RCWD stores local runoff in Vail Lake, which was created in 1948 through construction of Vail Dam on Temecula Creek. RCWD has a surface water storage permit in Vail Lake for up to 40,000 AF from November 1 to April 30. During these months, RCWD releases available water from Vail Lake to the VDC spreading basins, about 1.5 miles downstream, for groundwater recharge. From May through October, existing State permits prohibit storage and require inflow to pass through Vail Lake to Temecula Creek.

(RCWD Urban Water Management Plan, 2005)

IV. GROUNDWATER LEVELS

Groundwater flows southeastward under Murrieta and Temecula Valleys and southwestward beneath Pauba Valley to the southwestern part of the basin. RCWD noted an extended drawdown in groundwater levels from 1945 to 1978, with major recoveries during the wet years in 1980 and 1993. Significant declines again occurred during the relatively dry years after 1980 and 1993. Water levels declined 1.3 feet in 2003-04. In the central part of the basin, the water level in one well rose about 12 feet during 1990 through 1993. In the southwestern part of the basin, the water level in one well declined about 60 feet during 1980 through 1993, recovered about 50 feet during 1993, then declined about 15 feet during 1994 through 2000. The hydrograph of another well in the southwestern part of the basin indicates large seasonal variations in water levels. Historical water levels are provided in Figure 6.
Figure 5
Historical Groundwater Recharge in Temecula-Murrieta Basin
PLACEHOLDER FOR GROUNDWATER RECHARGE

Figure 6
Historical Water Levels in Temecula-Murrieta Basin
PLACEHOLDER FOR REPRESENTATIVE HYDROGRAPH
V. GROUNDWATER QUALITY

This following section presents information on the groundwater quality of the Temecula-Murrieta Basin.

A. Groundwater Quality Monitoring

RCWD continually monitors the water quality of the eight groundwater basins and its 54 wells. Every year RCWD conducts over 2,000 tests for water quality on each of its wells and throughout the distribution system.

B. Groundwater Contaminants

Constituents of concern for the Temecula-Murrieta Basin are summarized in Table 4. These include: total dissolved solids (TDS), nitrate, volatile organic compounds (VOCs), perchlorate, fluoride and manganese. Groundwater in most of the Pauba aquifer and the Temecula aquifer is generally suitable for domestic and irrigation uses. TDS concentrations in the lower, confined and semi-confined Temecula aquifer tend to be lower than in the Pauba aquifer, though the percent sodium is higher in the Temecula aquifer. Nitrate levels are typically in compliance with drinking water MCLs, although nitrate levels have been found to be higher in the wells in the Santa Gertrudis Valley. Sampling at RCWD’s wells between 2002 and 2004 has indicated that the primary MCL standard of 2 mg/L for fluoride has been exceeded. However, well water is blended with other well water and imported MWD water and the distribution system average level of fluoride was well below the MCL. Well sampling has also indicated high levels for manganese, but blending reduces the manganese concentration to the non-detect level. Groundwater is rated inferior for domestic use locally near Murrieta Hot Springs because of high nitrate and fluoride content.

C. Blending Needs

RCWD blends groundwater with imported water from Metropolitan to reduce fluoride concentrations and manganese concentrations.

D. Groundwater Treatment

Agencies chlorinate the groundwater. Data related to other treatment is currently not available.

VI. CURRENT GROUNDWATER STORAGE PROGRAMS

RCWD artificially recharges the Pauba Valley Basin with untreated imported water for enhanced groundwater production. RCWD purchases imported water from the Metropolitan and delivers it from the San Diego aqueduct turnout EM-19 to the Valle de los Caballos (VDC) recharge basins. In the past, the VDC recharge basins have provided up to 16,000 AFY of artificial groundwater recharge.
### Table 4
Summary of Constituents of Concern in Temecula Basins

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Units</th>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TDS</strong></td>
<td>mg/L</td>
<td>200 to &gt;1,000</td>
<td>In the unconfined Pauba aquifer, TDS ranges from 450 mg/L to greater than 1,000 mg/L. In the semi-confined and confined Temecula aquifer, TDS ranges from 200 mg/L to 600 mg/L. Percent sodium in the TDS for the Temecula aquifer can range from 55 to over 80 percent.</td>
</tr>
<tr>
<td>Nitrate (as N)</td>
<td>mg/L</td>
<td>6.9 to 10</td>
<td>A sampling of 25 RCWD wells in 2003-04. High levels near Murrieta Hot Springs.</td>
</tr>
<tr>
<td><strong>VOCs (TCE and PCE)</strong></td>
<td>µg/L</td>
<td>ND</td>
<td>No known detections of TCE or PCE.</td>
</tr>
<tr>
<td><strong>Perchlorate</strong></td>
<td>µg/L</td>
<td>ND to 6.6</td>
<td>Detected in three RCWD wells since 2002. Only 1 well had a detection above notification level.</td>
</tr>
<tr>
<td>Fluoride</td>
<td>mg/L</td>
<td>0.2 to 7.6</td>
<td>A sampling of RCWD wells from 2002 to 2004. After blending with other well water and imported water, distribution system average was 0.4 mg/L. High levels near Murrieta Hot Springs.</td>
</tr>
<tr>
<td>Manganese</td>
<td>µg/L</td>
<td>50 to 250</td>
<td>RCWD wells. After blending with other well water and imported water, distribution system average was to non-detect level.</td>
</tr>
</tbody>
</table>


### VII. BASIN CONSTRAINTS ON STORAGE AND EXTRACTION

The Temecula-Murrieta Basin is subject to the diversion and pumping limitations of the Santa Margarita River Watermaster, and to other local surface water diversion and groundwater pumping rights.

In addition, each year the RCWD prepares a Groundwater Audit and a Recommended Groundwater Production Report (RGPR). The amount of groundwater that can be produced varies due to such factors as rainfall, recharge area, and amount and location of well pumping capacity.
References:


APPENDIX C

WATER SHORTAGE CONTINGENCY PLAN
WATER SHORTAGE CONTINGENCY PLAN

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June 2006
Contents

Section 1  Purpose and Principles of Plan ................................................................. 1
  1.1 Water Code 10632 .................................................................................................. 1
  1.2 MWD Water Surplus and Drought Management Plan .................................. 1
  1.3 MWD Interim Agricultural Water Program ...................................................... 2
  1.4 Principles of District’s Water Shortage Contingency Plan ............................ 3
  1.5 Public Notice and Coordination with Other Agencies .................................. 3

Section 2  Authorization and Application of Plan ..................................................... 4
  2.1 Authorization of Plan ....................................................................................... 4
  2.2 Criteria for Water Shortages ............................................................................ 4

Section 3  Supply Shortage Contingency Measures .................................................. 6
  3.1 Domestic (Household) Customers ................................................................... 6
  3.2 Commercial/Institutional and Landscape Customers ....................................... 7
  3.3 Agricultural Customers ................................................................................... 9

Section 4  Enforcement and Variances ..................................................................... 10
  4.1 Domestic and Commercial Customers with no Separate Irrigation
      Meters Present .................................................................................................... 10
  4.2 Commercial Customers with Separate Irrigation Meters ................................ 11
  4.3 Agricultural Customers .................................................................................. 11
  4.4 Variances .......................................................................................................... 13

Section 5  Revenue and Rate Impacts ...................................................................... 14

Section 6  District’s Emergency Actions .................................................................. 15

Section 7  Definitions for Plan ................................................................................ 16
Water Shortage Contingency Plan  
Rancho California Water District

Section 1  
Purpose and Principles of Plan

1.1 Water Code 10632  
The Rancho California Water District (District) has developed a Water Shortage Contingency Plan (Plan) in accordance with California Water Code 10632. The Water Code 10632 states that water agencies must develop a supply shortage contingency plan in the event of drought, water supply reductions, failure of water distribution system, or other emergencies. The contingency plan must demonstrate the ability of an agency to meet demands under a supply shortage of up to 50 percent. Emphasis is placed on protection of public health, sanitation, fire protection, and general public welfare.

As such, this Plan adopts regulations and restrictions on outdoor water use only, including domestic, commercial/institutional, parks and golf courses, and agriculture. Recycled water users may be exempt from some restrictions in this Plan.

1.2 Metropolitan Water District of Southern California Water Surplus and Drought Management Plan  
The District currently receives approximately 65 percent of its total water supply (treated and untreated) from the Metropolitan Water District of Southern California (MWD). This imported water is delivered through water connections of the Eastern Municipal Water District (EMWD) and Western Municipal Water District of Riverside County (WMWD). Both EMWD and WMWD are member agencies of MWD, and therefore the District is subject to MWD’s plans and policies during a water shortage.

To deal with periods of water surplus and drought, MWD developed its Water Surplus and Drought Management Plan (WSDM Plan). MWD strategically manages water in times of surplus to ensure there is an adequate supply during a shortage. The WSDM Plan defines surplus and shortage conditions as follows:

- **Surplus**: Supplies are sufficient to allow MWD to meet full service demands, make deliveries to all interruptible programs (replenishment, long-term seasonal storage, and agricultural deliveries), and deliver water to regional and local facilities for storage.

- **Shortage**: Supplies are sufficient to allow MWD to meet full service demands and make partial or full deliveries to interruptible programs, sometimes using stored water and voluntary water transfers.

- **Severe Shortage**: Supplies are insufficient to meet full service demands and MWD is required to make withdrawals from storage, call on its water
transfers, and possibly call for extraordinary drought conservation and reduce deliveries under the Interim Agriculture Water Program (IAWP).

**Extreme Shortage:** Supplies are insufficient to meet full service demands and MWD is required to allocate its available imported supplies to its member agencies.

The following actions represent MWD’s plan for dealing with supply shortages in the general order they would be implemented:

- Draw on stored water in the Diamond Valley Lake
- Draw on out-of-region groundwater storage in Semitropic and Arvin-Edison
- Reduce/suspend discounted long-term groundwater and surface storage replenishment deliveries
- Draw on contractual groundwater storage programs within the region
- Draw on State Water Project terminus reservoir storage
- Call for extraordinary drought conservation and public education
- Reduce agricultural deliveries in accordance with IAWP
- Call on water transfer options contracts and purchase transfers on the spot market
- Allocate MWD’s firm imported supplies to its member agencies

1.3 **Metropolitan Water District of Southern California Interim Agricultural Water Program**

In 2005, the District served approximately 1,700 Agriculture and Agriculture/Domestic accounts and delivered about 25,000 acre-feet (AF) of water to these customers (representing about 36 percent of total water deliveries). Most of these agriculture and agriculture/domestic deliveries are subject to MWD’s IAWP.

The IAWP offers interruptible water to Southern California’s agricultural industry at discounted water rates. These agricultural water supplies will be interrupted as part of MWD’s shortage actions. MWD will work with IAWP participants to provide as much advance warning of interruption as possible. The IAWP reflects current policies toward agricultural water users. The policies underlying this program are due to be reviewed during the ten-year period of the WSDM Plan and the plan will be adjusted accordingly.

According to MWD’s IAWP Reduction Guidelines, MWD has the right to discontinue surplus water service in whole or in part with one year’s written notice. After a purchaser is given a notice of discontinuation, MWD’s General Manager may reduce IAWP deliveries up to 30 percent prior to any urban water allocation action under the WSDM Plan.
The timing of potential IAWP reductions is important to note as Colorado River and State Water Project (SWP) supplies are determined annually. The initial supply allocation is estimated in December; however, the SWP supply is uncertain and not final until May 1. Typically May 1 is when a notification would be made by MWD regarding a reduction in IAWP water deliveries, with actual reductions occurring 60 days later on July 1.

If MWD requires a utility to reduce IAWP water usage, water usage targets for the upcoming year are established based on water use during the previous year. Once this baseline water use target is established it will remain in place as long as the reduction is in effect, even if it goes beyond the fiscal year. Actual IAWP water consumption will be measured every six months. If an agency used less water than it was allotted it receives a credit that carries over into the next six month period. If the agency used more water than it was allotted via the established baseline then it is assigned a debit. If an agency uses more water than it is allotted they have to pay MWD’s penalty rate for the amount of water over the established baseline.

1.4 Principles of District’s Water Shortage Contingency Plan

The overall principle of the District’s Plan is to reliably meet water demands during shortages caused by droughts, supply reductions, and emergency conditions. The Plan recognizes the following priorities for potable water:

1. Public safety, health and welfare
2. Economic sustainability
3. Quality of life for the District’s customers

The potable water use regulated and/or prohibited under this Plan is considered to be non-essential use. Continued use of such water during times of water shortage or other emergency supply conditions are deemed to constitute a waste of water and will be subject to appropriate penalties as described in Section 4 of this Plan.

In the event that the reduction in water sales as a result of implementation of the Plan negatively impacts the coverage of the District’s fixed costs obligations, the District will utilize its cash reserves (see Section 5 of this Plan).

1.5 Public Notice and Coordination with Other Water Agencies

The District will periodically provide the public with information about the Plan, including its implementation. Such information will include, but not limited to, stages of action, restrictions on water use, water-saving tips, and potential penalties for non-compliance of Plan. In addition, the District will coordinate its implementation of its Plan with EMWD, WMWD and MWD. This will be necessary to ensure efficient regional water management during periods of water supply shortage.
Section 2  
Authorization and Application of Plan  

2.1 Authorization of Plan  
The water shortage contingency measures of this Plan shall apply to all persons, customers, and property using water provided by the District. The terms “persons” and “customers” used in this Plan include individuals, home and property owners, corporations, businesses, agencies, associations, and all other legal entities.  

A declaration by the Board or the General Manager of a water shortage condition as outlined below shall be made by public announcement and shall be published in a newspaper of general circulation. The declaration shall become effective immediately upon such publication.  

There are two basic conditions which can trigger the declaration of the Plan:  

Condition No. 1: Long and Short Term Water Supply Deficiencies  
As outlined in Water Code 10632, the District’s General Manager shall request the Board of Directors (Board) to authorize and implement provisions of the Plan, which declares that the demand for District water is anticipated to be in excess of water supply. The request shall be made at a regular or special meeting of the Board where findings will dictate the necessity, if any, to implement the measures of the Plan. The Board will have the authority to initiate or terminate any of the measures described in the Plan.  

Condition No. 2: Emergency Water Shortage Response  
Emergency water shortages are defined as an unexpected event that prevents adequate water to be delivered to customers due to a problem in the District’s water distribution system. By adopting this Plan, the Board authorizes the General Manager to declare the extent of the water shortage emergency and to indicate which measures of the Plan are needed.  

2.2 Criteria for Water Shortage Stages  
The District will continue to monitor water demands and supplies on a regular basis and shall determine when conditions warrant initiation or termination of each stage of the Plan as follows:  

Stage 1 – Normal Conditions: the District’s General Manager has declared that the District’s water supply is a “normal condition.” Customers are requested to continue to use water efficiently, maximize recycled water use, practice sensible water conservation and take advantage of the District’s indoor and outdoor water conservation incentive programs so water is not wasted. Water waste is in violation of California Law and District regulations at any Stage.  

Stage 2 – Water Alert: there is a probability that the District may not be able to meet all of the water demands of its customers. This may correlate to MWD’s WSDM Plan stage of “Shortage”, or may mean groundwater levels and Vail Lake levels are lower
than normal. Expected water shortages are less than 10 percent. Additional voluntary conservation measures will be called upon during this stage. Some restrictions on certain non-essential outdoor water use may be implemented.

**Stage 3 – Water Warning:** water supplies are not sufficient to meet the District’s demands by more than 10 percent, but less than 30 percent. This may correlate to MWD’s WSDM Plan stage of “Severe Shortage”. During this stage it is anticipated that the District’s agricultural customers will be asked to comply with MWD’s IAWP. Some restrictions on certain non-essential outdoor urban water use will be implemented. Penalties for non-compliance of such restrictions will be imposed.

**Stage 4 – Extreme Water Warning:** water supplies are not sufficient to meet the District’s demands by more than 30 percent, but less than 50 percent. This may correlate to MWD’s WSDM Plan stage of “Extreme Shortage”. During this stage the District’s agricultural customers will comply with MWD’s IAWP and urban landscapes will greatly reduce water use. No new landscaping will be allowed. If this stage is the result of an extended drought and has been triggered by Condition No. 1 of Section 2 of this Plan, the District will explore increased conservation incentives for demand management measures that will have immediate and substantial impacts on water demands. More severe restrictions on non-essential outdoor water use will be implemented. Penalties for non-compliance of such restrictions will be imposed.

**Stage 5 – Water Emergency:** water supplies are not sufficient to meet the District’s demands by more than 50 percent. This may correlate to MWD’s WSDM Plan stage of “Extreme Shortage” or may be as a result of an emergency situation resulting in the inability of the District’s water distribution system to deliver all of the District’s supply. During this stage the District’s agricultural customers will greatly reduce water consumption for permanent crops, or might even be discontinued. Restrictions on all non-essential outdoor water use will also be implemented. Severe penalties for non-compliance of such restrictions will be imposed.
Section 3
Supply Shortage Contingency Measures

The following represents the shortage contingency measures the District will impose for its domestic (household), commercial/institutional, and agricultural customers. Through timely communication, using various local outlets, the District will provide updates regarding supply conditions and Plan Stages. The District is not responsible for any customer issues that may arise from the implementation of the Plan or adjustment in timing of the Plan’s Stages.

3.1 Domestic (Household) Customers

Stage 2 – Water Alert (shortages under 10 percent):

The following voluntary measures will be requested:

1. Do not hose down driveways or other hardscape surfaces.

2. Irrigate lawns and landscape only between 8:00 pm and 6:00 am (unless hand watering). Adjust automatic irrigation timers according to changing weather patterns and landscape requirements.

3. Refrain from using decorative fountains unless they are equipped with a recycling system.

4. Install pool and spa covers to minimize evaporative water loss.

5. Do not allow hoses to run while washing vehicles. Use a bucket or a hose with automatic shutoff valve.

No penalties or mandatory restrictions will be imposed during this stage.

Stage 3 – Water Warning (shortages more than 10 to 30 percent):

Same measures as in Stage 2, but now those measures are mandatory. In addition, the following mandatory measures will be imposed:

1. Irrigate lawns and landscape only between midnight and 6:00 am, and only every other day. Addresses with odd last digit (1, 3, 5, 7, 9) water on odd-numbered days of the month; while addresses with even last digit (0, 2, 4, 6, 8) water on even-numbered days.

2. If new landscaping must be installed, only landscaping meeting the specifications of “California-Friendly” landscaping as defined by the Metropolitan Water District of Southern California will be allowed.

3. No replacement water to be provided for ponds or lakes.

4. No water for decorative fountains to be used, even if it has a recycling system.

Penalties for non-compliance may be imposed for flagrant or repeat violations (see Section 4).
Stage 4 – Extreme Water Warning (shortages more than 30 to 50 percent):

Same mandatory measures as in Stages 2 and 3, with the following additional mandatory measures imposed:

1. Irrigate lawns and landscape only between midnight and 6:00 am, and only twice a week. Addresses with odd last digit (1, 3, 5, 7, 9) water on Sundays and Thursdays only; while addresses with even last digit (0, 2, 4, 6, 8) water Tuesdays and Saturdays only.

2. No planting of new landscaping (seed, sod, or other plant materials).

3. Washing of personal vehicles at home (including autos, trucks, trailers, motor homes, boats or others) is prohibited.

4. Water for refilling recreational swimming pools and spas is prohibited.

Penalties for non-compliance will be imposed (see Section 4).

Stage 5 – Water Emergency (shortages more than 50 percent):

Same mandatory measures as in Stages 2, 3 and 4, with the following additional mandatory measures imposed:

1. No irrigation of lawns, landscapes and/or gardens.

Penalties for non-compliance will be imposed (see Section 4).

3.2 Commercial/Institutional and Landscape Customers

Stage 2 – Water Alert (shortages under 10 percent):

The following voluntary measures will be requested:

1. A recommended base water allocation for outdoor use for Commercial/Institutional Customers with no separate landscape meters will be calculated using the minimum month method outlined in Section 4 of this Plan. Outdoor water-use should not exceed 80-percent of the historical reference Evapotranspiration (ET) rate measured at CIMIS Station Number 62.

2. A recommended base water allocation for Commercial/Institutional Customers with a separate landscape meter will be calculated using the relevant landscape water meter. The base outdoor allocation will be established by calculating the maximum allowable project water demand as listed in Addendum Number 1 (the Water Budget Formula) to the County of Riverside Landscape and Irrigation Ordinance. The reference Evapotranspiration rate from CIMIS station 62 will be used.

3. All Commercial/Institutional and Landscape Customers, including but not limited to parks, school grounds, highway medians, commercial landscaping, and golf courses will be restricted to irrigation applications between 8:00 pm and 6:00 am only. These irrigators will be advised to adjust automatic irrigation timers according to changing weather patterns and landscape requirements. Recycled water customers will be exempt.

4. Refrain from using decorative fountains unless they are equipped with a recycling system.
5. Install pool and spa covers to minimize evaporative water loss.

No penalties or mandatory restrictions will be imposed during this stage.

Stage 3 – Water Warning (shortages more than 10 to 30 percent):

Same measures as in Stage 2, but now these measures are mandatory. In addition, the following mandatory measures will be imposed:

1. All Commercial/Institutional and Landscape Customers, including but not limited to parks, school grounds, highway medians, commercial landscaping, and golf courses will be restricted to irrigation applications between 10:00 pm and 6:00 am, and only twice a week. The District, at its discretion, may assign some or all commercial irrigators to watering groups and watering days. Outdoor water-use by Commercial, Institutional and Landscape customers will in no case exceed 60 percent of the historical reference Evapotranspiration (ET) rate as measured at CIMIS Station Number 62. Recycled water customers will be exempt provided signage on the site conforms to recycled water-use requirements and is clearly visible.

2. If new landscaping must be installed, only landscaping meeting the specifications of “California-Friendly” landscaping as defined by the Metropolitan Water District of Southern California will be allowed.

3. Outdoor water-use by Commercial, Institutional and Landscape customers will in no case exceed 60 percent of the historical reference Evapotranspiration (ET) rate as measured at CIMIS Station Number 62. Recycled water customers will be exempt provided signage on the site conforms to recycled water-use requirements and is clearly visible.

4. No hosing down driveways, sidewalks or other hardscape except for California Department of Health Services prescribed health and sanitary reasons.

5. No washing of commercial or municipal vehicles unless necessary for public health and safety.

6. Commercial car wash consumption will be required to be reduced by 25 percent using on-site recycled water systems or other means.

7. No water for decorative fountains may be used, even if it has a recycling system.

Penalties for non-compliance will be imposed for flagrant or repeat violations (see Section 4).

Stage 4 – Extreme Water Warning (shortages more than 30 to 50 percent):

Same mandatory measures as in Stages 2 and 3, with the following additional mandatory measures imposed:

1. All Commercial/Institutional and Landscape Customers, including but not limited to parks, school grounds, highway medians, commercial landscaping, and golf courses will be restricted to irrigation applications between 10:00 pm and 6:00 am, and only once a week. The District, at its discretion, may assign some or all commercial irrigators to watering groups and watering days. Landscape meters will be restricted to a maximum of 25 percent of reference Evapotranspiration (ET) as measured at CIMIS Station Number 62. Recycled water customers will be exempt provided signage on the site conforms to recycled water-use requirements and is clearly visible.
2. No planting of new landscaping (seed, sod, or other plant materials).

3. Commercial car wash consumption will be required to be reduced by 50 percent using on-site recycled water systems or other means.

4. Water for refilling recreational swimming pools and spas is prohibited.

5. No new hydrant-construction or temporary construction meter permits will be issued by District.

Penalties for non-compliance will be imposed (see Section 4).

Stage 5 – Water Emergency (shortages more than 50 percent):

Same mandatory measures as in Stages 2, 3 and 4, with the following additional mandatory measures:

1. No irrigation of lawns and landscape. Recycled water customers will be exempted provided signage on the site conforms to recycled water-use requirements and is clearly visible.

2. No water for commercial car washes.

3. All hydrant-construction and/or temporary construction meter permits will be rescinded by the District.

Penalties for non-compliance will be imposed (see Section 4).

3.3 Agricultural Customers

Although the District retains the right to implement actions independent of Metropolitan Water District, each successive stage, with respect to Agricultural Customers, will be triggered by actions associated with Metropolitan Water District’s Interim Agricultural Water Program (IAWP) unless the District’s Plan or an individual Stage in the Plan is triggered by a local event leading to either a Condition 1 scenario or a Condition 2 scenario as outlined in Section 2 of this Plan.

Stage 2 – Water Alert (shortages under 10 percent):

The following voluntary measures will be requested:

1. A recommended base agricultural water-use allocation will be established using reference Evapotranspiration (ET) and the generally accepted crop-coefficient for each permanent and non-permanent crop grown.

2. A recommended commercial nursery base water-use allocation will be established at 80% of the Evapotranspiration (ET) rate using historical data from CIMIS Station Number 62.

No penalties or mandatory restrictions will be imposed during this stage.

Stage 3 – Water Warning (shortages more than 10 to 30 percent):

The following mandatory measures will be implemented:

1. Commercial nursery customers will be required to reduce the recommended base water-use allocation by 20 percent. Commercial nursery customer water-
use will be restricted to irrigation applications from midnight to 6:00 am, and only on alternate days. The District, at its discretion, may assign some or all commercial nursery irrigators to watering groups and watering days.

2. Agricultural customers will be required to reduce the recommended base water-use allocation by 20 percent.

Penalties for non-compliance will be imposed for flagrant or repeat violations (see Section 4).

Stage 4 – Extreme Water Warning (shortages more than 30 to 50 percent):

Same mandatory measures as those in Stage 3, with the following additional mandatory measures imposed:

1. Commercial nursery customers will be required to reduce the recommended base water-use allocation by 50 percent. Commercial nursery customer water-use will be restricted to irrigation applications from midnight to 6:00 am, and only twice weekly. The District, at its discretion, may assign some or all commercial nursery irrigators to watering groups and watering days.

2. Agricultural customers will be required to reduce recommended base water-use allocation by 50 percent. The District, at its discretion, may assign agricultural customers to watering groups and watering days. In the event of a temporary service outage, service to be restored when Stage 4 is terminated.

3. No planting of new agricultural trees, vines or row crops.

Penalties for non-compliance will be imposed (see Section 4).

Stage 5 – Water Emergency (shortages more than 50 percent):

Same mandatory measures as in Stages 2, 3 and 4, with the following additional mandatory measures imposed:

1. All agricultural and commercial nursery customers will be required to reduce recommended base water-use allocation by 75 to 100 percent, depending on severity of water emergency. Water service may be completely discontinued until Stage 5 is terminated.

Penalties for non-compliance will be imposed (see Section 4).
Section 4
Enforcement and Variances

Measures called for in the stages of the District’s Plan will be primarily enforced through financial penalties. In extreme cases, certain types of outdoor water service may be discontinued until the emergency situation is over.

For most customers, financial penalties will be imposed using a base period water demand allocation.

4.1 Domestic and Commercial Customers with No Separate Irrigation Meters Present

For domestic and commercial customers without separate irrigation meters, the base period water demand allocation for outdoor water use will be calculated using a base year. The base year will represent the year prior to any stage of the Plan being implemented. For example, if Stage 2 of the Plan occurs in 2010, the base year would be 2009. If in 2011, Stage 3 of the Plan is implemented, the base year would still remain 2009. To estimate outdoor water use for this base year, the District will use the minimum month method. This method will use the lowest month for the base year and multiply that by 12 months. This will approximate indoor use. The actual water use above the minimum month will represent outdoor use. The calculated outdoor use for the base year will represent the base demand allocation for the purposes of imposing any financial penalties.

Because outdoor water use represents approximately 50 percent of the total non-agricultural water demand in the District, any target percent reduction in water use would represent double of what would be needed from outdoor water use. For example, if Stage 4 of the Plan calls for a 40 percent reduction in overall non-agricultural water use, then outdoor water use would have to be reduced by 80 percent. Therefore, if the domestic or commercial customer’s demand for outdoor water use is greater than 20 percent of its base outdoor use, a penalty would be applied for each unit above the base.

For Stages 3 and 4 of the Plan, any penalty will represent any MWD penalties imposed (the total MWD penalty would be allocated to customers based on a pro-rata share), plus a 25 percent District increase in the customer’s water bill for the base year. If MWD did not assess a penalty for a given stage of the District’s Plan, the financial penalty imposed would just be a 25 percent District increase in the customer’s water bill. For Stage 5, the District will impose a 50 percent increase in the customer’s water bill, in addition to any MWD penalty. All penalties collected would be used for additional administration of the Plan, to pay MWD for penalties assessed to the District, to implement additional demand management measures during an extended water shortage as well as to replenish the Drought Cash Reserve for the District (see Section 5).
4.2 Commercial Customers with Separate Irrigation Meters Present

For those commercial/institutional customers with a separate irrigation meter, the base demand allocation will be established at 100-percent of the Evapotranspiration (ET) rate using historical data from CIMIS Station Number 62. Different stages of the District’s Plan would call for base water demand to be reduced and in some cases discontinued. Any water use above the specified reduction in base water allocations will be subject to a financial penalty.

Financial penalties for Commercial Customers with separate irrigation meters will be calculated in the same manner as calculated for domestic and commercial customers without separate landscape meters. For Stages 3 and 4 of the Plan, any penalty will represent any MWD penalties imposed (the total MWD penalty would be allocated to customers based on a pro-rata share), plus a 25 percent District increase in the customer’s water bill for the base year. If MWD did not assess a penalty for a given stage of the District’s Plan, the financial penalty imposed would just be a 25 percent District increase in the customer’s water bill. For Stage 5, the District will impose a 50 percent increase in the customer’s water bill, in addition to any MWD penalty. All penalties collected would be used for additional administration of the Plan, to pay MWD for penalties assessed to the District, to implement additional demand management measures during an extended water shortage as well as to replenish the Drought Cash Reserve for the District (see Section 5).

4.3 Agricultural Customers

For permanent and non-permanent crops, each crop will be assigned a base water demand using reference Evapotranspiration (ET) and the generally accepted crop-coefficient for that crop. In no case will base water demand exceed 80-percent of the historical Evapotranspiration (ET) rate measured at CIMIS Station Number 62. Different stages of the District’s Plan would call for the prescribed base water demand to be reduced and in some cases discontinued completely. Any water use above the specified reduction will be subject to a financial penalty.

Financial penalties for Agricultural Customers will be calculated in a similar manner as prescribed for domestic and commercial customers with or without separate landscape meters. However, all Agricultural Customer penalties will represent the MWD penalties imposed under the MWD Interim Agricultural Water Program and levied solely as a result of agricultural activities during any of the District’s Plan stages (the total MWD penalty would be allocated to agricultural customers based on a pro-rata share), plus a 25 percent District increase in the customer’s water bill for the base year for Stages 3 and 4 of the Plan. If MWD did not assess an IAWP penalty for a given stage of the District’s Plan, the financial penalty imposed would just be a 25 percent District increase in the customer’s water bill for Stages 3 and 4. For Stage 5, the District will impose a 50 percent increase in the customer’s water bill, in addition to any MWD penalty. All penalties collected would be used for additional administration of the Plan, to pay MWD for penalties assessed to the District, implement additional demand management measures during an extended water shortage as well as to replenish the Drought Cash Reserve for the District (see Section 5).
4.4 Variances

The District may, in writing, grant temporary variance for any penalties or restrictions imposed by the Plan. Variances may be granted due to health and safety reasons or because of special circumstances in how the base water demand was established and the actual use during a restrictive stage.

Any variance must be requested in writing within 15 days of the Plan’s staged implementation. The following information must be provided:

1. Name, contact phone number, service address and customer account number of petitioner;
2. Purpose of water use (e.g., domestic, commercial, agriculture);
3. Specific provision(s) of the Plan from which the petitioner is requesting relief;
4. Detailed statement as to how the provision of the Plan adversely affects the petitioner or what damage or harm will occur;
5. Description of the relief requested;
6. Period of time for which the variance is sought; and
7. Any alternative water use restrictions (for example indoor use) that the petitioner is taking or proposes to take to meet the intent of the Plan.
Section 5
Revenue and Rate Impacts

Currently the District has a Cash Reserve Policy to deal with risk. One element of that reserve policy is a Drought Reserve. The Drought Reserve takes into account changes in the District’s water supply operational costs and the reduced revenues from lower water sales. The target Drought Reserve level is $5.1 million. This reserve will be used to minimize any potential rate impacts caused by the implementation of the District’s Plan.

Any penalties collected through non-compliance of the Plan would be partially used to replenish this Drought Reserve, implement additional demand management measures during an extended water shortage, contribute to increased administration costs, and pay for any MWD penalties imposed to the District.
Section 6
District’s Emergency Actions

The Water Code 10632 requires actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.

The District operates in an area where the probability of an earthquake is high. Depending on the severity, an earthquake may damage the water system. The District’s Emergency Response Plan provides a framework for an organized response to an earthquake emergency. The primary objectives of the plan are to maintain the functionality of the water distribution system, assess the system and if necessary make rapid repair to any damage, and prevent any further damage. The District’s response to an earthquake will be directed by the General Manager.

The District has Response Phases in the event of an Earthquake:

- **Phase I – Inspection**: A rapid inspection to determine injuries and any damage which might affect the distribution system.
- **Phase II – Report Back**: Emergency communications flow: additional inspection procedures.
- **Phase III – Repair**: Coordination of maintenance forces.
- **Phase IV – Management Procedures**: Key Management responsibilities for the emergency.
- **Phase V – Operating/Maintenance/Engineering**: Outlines procedures for division staff.

Prior to Phase I inspections, system operators and inspectors report to the Emergency Operating Center to receive assigned inspection routes. The Emergency Operating Center creates a communications hub for the District to efficiently manage their available resources. For example, personnel inspecting Vail Dam, wastewater treatment facilities, and wells receive their assignments from and report their findings to the Emergency Operating Center. The Emergency Response Plan contains ten areas that are inspected with driving directions for specific inspections routes. If inspections reveal damage to any of the areas the necessary repairs are made. Communications are ongoing at all phases of the response to an earthquake. The District has a primary and secondary radio systems to insure communications will be available during an emergency.

The Emergency Response Plan also includes an analysis of the potential of an electrical power outage. The District depends on electricity to boost water to higher elevations via pumping stations, although some wells use natural gas as their energy source. In an emergency situation involving a power outage the District will utilize emergency generators to provide customers with a reliable source of water.
Section 7
Definitions for Plan

1. **Acre-foot**: a uniform volume of water that will cover one acre (43,560 square feet) to a depth of 1 foot (approximately 325,851 gallons).

2. **Aesthetic water use**: water use for ornamental or decorative purposes including, but not limited to, fountains, reflecting pools and water gardens.

3. **Agricultural water use**: water used for the irrigation and maintenance of both permanent and non-permanent agricultural crops including, but not limited to, avocado, citrus, winegrapes, corn and other products for human consumption or the generation of feed for livestock.

4. **Beneficial water use**: the efficient use of water resources for agriculture, commercial, domestic, habitat, industrial or recreation purposes.

5. **Billing Unit**: the unit amount of water used to apply water rates for the purposes of calculating commodity charges for the customer water usage; equal to 100 cubic feet or 748 gallons of water.

6. **California-Friendly landscaping**: defined by Metropolitan Water District as a landscape that features low-water using plants, state-of-the-art irrigation and controllers, sustainable landscaping techniques, and maintenance plan. Specific guidelines can be found at [www.bewaterwise.com](http://www.bewaterwise.com).

7. **CIMIS**: California Irrigation Management Information System; additional information at [www.cimis.water.ca.gov](http://www.cimis.water.ca.gov).

8. **Commercial/Institutional water use**: water used in businesses producing goods, providing services or in multiple family dwellings (apartments and condominiums), home owners’ associations (HOA) property owners’ associations (POA), schools, hospitals and correctional facilities.

9. **Conservation**: those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

10. **Demand management**: water-efficiency measures, practices or incentives implemented by the District to reduce or change the pattern of customer water demand.

11. **District**: Rancho California Water District.

12. **Domestic (household) water use**: water used for outdoor landscape irrigation or recreation and indoor personal needs such as drinking, bathing, heating, cooking, sanitation, or for general cleaning.
13. **Drought**: an extended period of below-normal precipitation that can result in water-supply shortages, increased water demand, or both.

14. **EMWD**: Eastern Municipal Water District.

15. **Evapotranspiration (ET)**: water lost from the surface of soils and plants through evaporation and transpiration, respectively.

16. **Evapotranspiration (ET) rate**: the quantity of water transpired from plant tissues and evaporated from the surface of surrounding soil, expressed as a depth of water in inches or feet; where the ET rate is affected by temperature, solar radiation, humidity, wind and soil moisture.

17. **Hardscape**: asphalt, concrete, masonry or wood surfaced areas including streets, parking lots, sidewalks, driveways, patios and decks.

18. **Irrigation**: the application of water to soil to meet the water needs of crops, turf, shrubbery, gardens, or wildlife food and habitat not satisfied by rainfall.

19. **Landscape irrigation use**: water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks and rights-of-way and medians.

20. **MWD**: Metropolitan Water District of Southern California.

21. **Non-permanent crop**: agricultural commodity produced from plants that are removed following harvest and must be replanted to reproduce.

22. **Non-essential water use**: water uses that are not essential nor required for the protection of public, health, safety, and welfare, including:

   a. Irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this plan;

   b. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other equipment or vehicle;

   c. Use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas, unless required by the California Department of Health Services for health and sanitary reasons;

   d. Use of water to wash down buildings or structures for purposes other than immediate fire protection or hazardous substance remediation;

   e. Flushing gutters or permitting water to run or accumulate in any gutter, swale or street;

   f. Use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi-type pools used solely for recreational purposes;
g. Use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life; and

h. Use of water from hydrants for construction purposes or any other purposes other than fire fighting.

23. **Non-potable water**: water not suitable for drinking; which may be recycled water or imported raw water, or a blend of the two.

24. **Permanent crop**: agricultural commodity produced from plants that remain following harvest.

25. **Potable water**: water suitable for drinking.

26. **Raw water**: untreated imported water.

27. **Recycled water**: municipal wastewater that has been treated to meet all applicable federal, state and local standards for use in approved applications, including but not limited to agricultural and landscape irrigation. Recycled water is not for human consumption.

28. **Run-off**: Irrigation water (agriculture and landscape) which is not absorbed by the soil to which it is applied and flows from the planted area.

29. **Water waste**: the use of water that results in water flowing into any gutter, street, sidewalk, swale, or storm drain in a steady stream of flow during the course of a period of five or more continuous minutes or the use of water that results in water pooling in a public street, sidewalk, right-of-way or easement, or water applied to a landscape or agricultural crop in excess of the commonly accepted ET adjustment factor or crop-coefficient.

30. **WMWD**: Western Municipal Water District of Riverside County.
# Water Supply & Reuse

**Reporting Unit:** Rancho California Water District  
**Year:** 2005

<table>
<thead>
<tr>
<th>Supply Source Name</th>
<th>Quantity (AF) Supplied</th>
<th>Supply Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWD Treated</td>
<td>29921</td>
<td>Imported</td>
</tr>
<tr>
<td>RCWD</td>
<td>36459</td>
<td>Groundwater</td>
</tr>
<tr>
<td>SRWRF</td>
<td>3699</td>
<td>Recycled</td>
</tr>
<tr>
<td>TVRWRF</td>
<td>1322</td>
<td>Local Watershed</td>
</tr>
<tr>
<td>Vail Lake</td>
<td>71</td>
<td></td>
</tr>
</tbody>
</table>

**Total AF:** 71471
## Accounts & Water Use

**Reporting Unit Name:** Rancho California Water District  
**Submitted to:** CUWCC  
**Year:** 2005  
**11/30/2006**

### A. Service Area Population Information:
1. Total service area population 109123

### B. Number of Accounts and Water Deliveries (AF)

<table>
<thead>
<tr>
<th>Type</th>
<th>Metered</th>
<th>Unmetered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of Accounts</td>
<td>Water Deliveries (AF)</td>
</tr>
<tr>
<td>1. Single-Family</td>
<td>33688</td>
<td>25442</td>
</tr>
<tr>
<td>2. Multi-Family</td>
<td>182</td>
<td>1750</td>
</tr>
<tr>
<td>3. Commercial</td>
<td>2324</td>
<td>4097</td>
</tr>
<tr>
<td>4. Industrial</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Institutional</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6. Dedicated Irrigation</td>
<td>1026</td>
<td>2468</td>
</tr>
<tr>
<td>7. Recycled Water</td>
<td>242</td>
<td>5020</td>
</tr>
<tr>
<td>8. Other</td>
<td>2872</td>
<td>31729</td>
</tr>
<tr>
<td>9. Unaccounted</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>40334</td>
<td>70506</td>
</tr>
</tbody>
</table>

**D3**

http://bmp.cuwcc.org/bmp/print/printall.lasso  
12/1/2006
**BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers**

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2005

### A. Implementation

1. Based on your signed MOU date, 03/09/2005, your Agency STRATEGY DUE DATE is: 03/09/2007
2. Has your agency developed and implemented a targeting/marketing strategy for SINGLE-FAMILY residential water use surveys? yes
   a. If YES, when was it implemented? 07/28/2004
3. Has your agency developed and implemented a targeting/marketing strategy for MULTI-FAMILY residential water use surveys? yes
   a. If YES, when was it implemented? 07/28/2004

### B. Water Survey Data

<table>
<thead>
<tr>
<th>Survey Counts:</th>
<th>Single Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Number of surveys offered:</td>
<td>120</td>
<td>5</td>
</tr>
<tr>
<td>2. Number of surveys completed:</td>
<td>74</td>
<td>1</td>
</tr>
</tbody>
</table>

**Indoor Survey:**
3. Check for leaks, including toilets, faucets and meter checks no no
4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary no no
5. Check toilet flow rates and offer to install or recommend/ installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary no no

**Outdoor Survey:**
6. Check irrigation system and timers yes yes
7. Review or develop customer irrigation schedule yes yes
8. Measure landscaped area (Recommended but not required for surveys) no no
9. Measure total irrigable area (Recommended but not required for surveys) no no
10. Which measurement method is typically used (Recommended but not required for surveys) None
11. Were customers provided with information packets that included evaluation results and water savings recommendations? yes yes
12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? yes yes
   a. If yes, in what form are surveys tracked? manual activity
   b. Describe how your agency tracks this information.

Contractor provides paper copies of completed evaluations. Indication of

http://bmp.cuwcc.org/bmp/print/printall.lasso  
12/1/2006
completed evaluation is entered into customer billing system.

C. "At Least As Effective As"
1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments
RCWD's Targeted Conservation Program focuses on the 500 highest water-use residential customers. Installed WBIC counted as evaluations.

D5

**BMP 02: Residential Plumbing Retrofit**

**Reporting Unit:** Rancho California Water District

**BMP Form Status:** 100% Complete

**Year:** 2005

### A. Implementation

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? 
   - **no**
   - a. If YES, list local jurisdictions in your service area and code or ordinance in each:

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? 
   - **no**

3. Estimated percent of single-family households with low-flow showerheads: 
   - **%**

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? 
   - **no**

5. Estimated percent of multi-family households with low-flow showerheads: 
   - **%**

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

### B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/marketing strategy for distributing low-flow devices? 
   - **yes**
   - a. If YES, when did your agency begin implementing its strategy? 
     - 04/01/2005
   - b. Describe your targeting/marketing strategy.

One-time, trifold billboard included in all customers' mailings. Follow up bill messages periodically to remind customers. Brochure listed program eligibility guidelines including single family homes. \( \text{condo owner or property manager of multifamily building built prior to 1992.} \)

<table>
<thead>
<tr>
<th>Low-Flow Devices Distributed/Installed</th>
<th>SF Accounts</th>
<th>MF Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Number of low-flow showerheads distributed:</td>
<td>316</td>
<td>20</td>
</tr>
<tr>
<td>2. Number of toilet-flapper devices distributed:</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3. Number of faucet aerators distributed:</td>
<td>185</td>
<td>10</td>
</tr>
<tr>
<td>4. Number of toilet-flapper devices distributed:</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Number of faucet aerators distributed:</td>
<td>185</td>
<td>10</td>
</tr>
</tbody>
</table>

6. Does your agency track the distribution and cost of low-flow devices? 
   - **yes**
   - a. If YES, in what format are low-flow devices tracked? 
     - Spreadsheet
   - b. If yes, describe your tracking and distribution system:
     - MS Excel/Spreadsheet

### C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? 
   - **No**

D6

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12/1/2006
D7

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12/1/2006
BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2005

A. Implementation

1. Does your agency own or operate a water distribution system? Yes
2. Has your agency completed a pre-screening system audit for this reporting year? No
3. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
   a. Determine metered sales (AF) 66328.55
   b. Determine other system verifiable uses (AF) 0
   c. Determine total supply into the system (AF) 66451
   d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required.
   1.00

4. Does your agency keep necessary data on file to verify the values entered in question 3? Yes
5. Did your agency complete a full-scale audit during this report year? No
6. Does your agency maintain in-house records of audit results or completed AWWA M36 audit worksheets for the completed audit which could be forwarded to CUWCC? No
7. Does your agency operate a system leak detection program? No
   a. If yes, describe the leak detection program:

B. Survey Data

1. Total number of miles of distribution system line. 842.05
2. Number of miles of distribution system line surveyed. 0

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? No
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as.

D. Comments

FY 2006 supply into the system includes treated water purchased from MWR; locally produced groundwater and vail water.

Voluntary Questions (Not used to calculate compliance)

E. Volumes

1. Volume of raw water supplied to the system:
2. Volume treated water supplied into the system:
3. Volume of water exported from the system:
4. Volume of billed unauthorized metered

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12/1/2006
consumption:
5. Volume of billed authorized unmetered consumption:
6. Volume of unbilled authorized metered consumption:
7. Volume of unbilled authorized unmetered consumption:

F. Infrastructure and Hydraulics
1. System input (source or master meter) volumes metered at the entry to the:
2. How frequently are they tested and calibrated?
3. Length of mains:
4. What % of distribution mains are rigid pipes (metal, ac, concrete)?
5. Number of service connections:
6. What % of service connections are rigid pipes (metal)?
7. Are residential properties fully metered?
8. Are non-residential properties fully metered?
9. Provide an estimate of customer meter under-registration:
10. Average length of customer service line from the main to the point of the meter:
11. Average system pressure:
12. Range of system pressures: From to

13. What percentage of the system is fed from gravity feed?
14. What percentage of the system is fed by pumping and re-pumping?

G. Maintenance Questions
1. Who is responsible for providing, testing, repairing and replacing customer meters?
2. Does your agency test, repair and replace your meters on a regular timed schedule?
   a. If yes, does your agency test by meter size or customer category?:
   b. If yes to meter size, please provide the frequency of testing by meter size:
      Less than or equal to 1"
      1.5" to 2"
      3" and Larger
   c. If yes to customer category, provide the frequency of testing by customer category:
      SF residential
      MF residential
      Commercial
      Industrial & Institutional
3. Who is responsible for repairs to the customer lateral or customer service line?
4. Who is responsible for service line repairs downstream of the customer meter?

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12/1/2006
5. Does your agency proactively search for leaks using leak survey techniques or does your utility reactively repair leaks which are called in, or both?

6. What is the utility budget breakdown for:
   - Leak Detection $
   - Leak Repair $
   - Auditing and Water Loss Evaluation $
   - Meter Testing $

H. Comments

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12/1/2006
BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2005

A. Implementation

1. Please fill out the following matrix:

<table>
<thead>
<tr>
<th>Types of Billed Accounts</th>
<th>% Accounts Metered</th>
<th>% Accounts Measured (Not Metered)</th>
<th>% Accounts Volumetric Billing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated Water SF Residential Accounts</td>
<td>100</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Treated Water MF Residential Accounts</td>
<td>100</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Treated Water Commercial Accounts</td>
<td>100</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Treated Water Industrial Accounts</td>
<td>100</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Treated Water Institutional Accounts</td>
<td>100</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Raw Water Residential Deliveries</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Raw Water Non-Residential Deliveries</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

2. If your agency does not meter 100% of all treated water accounts:
   a. Does your agency have a plan or program for retrofitting existing unmetered treated water connections?
   b. By what date would 100% of all treated water accounts be metered?
   c. Number of previously unmetered accounts fitted with meters during report year:

3. If your agency does bill 100% of all treated water accounts by volume of use:
   a. By what date (Year must be four digit mm/dd/yyyy) will all customers with meters be billed by volume of use?

4. If your agency does not meter or measure 100% of all raw water delivery fields (as listed in question 1f & 1g), does your agency intend to develop a program for measuring all raw water deliveries?

5. If your agency does not volumetrically bill 100% of all raw water delivery, does your agency intend to develop a program for billing all raw water deliveries by volume of use?

6. Does your agency meter by volume of use all municipal or governmental accounts?:
   a. If no, which types of accounts are not included: D11

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12/1/2006
7. Does your agency bill by volume of use all municipal or governmental accounts?
   a. If no, which types of accounts are not included:
   Yes

B. Feasibility Study
   1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?
      a. If YES, when was the feasibility study conducted? (mm/dd/yy)
      no
      b. Describe the feasibility study:
      2. Number of CII accounts with mixed-use meters:
      0
      3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period:
      0

D. "At Least As Effective As"
   1. Is your agency implementing an "at least as effective as" variant of this BMP?
      No
      a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments
   Report completed by Jason Martin and Sheri Todd.

D12
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12/1/2006
**BMP 05: Large Landscape Conservation Programs and Incentives**

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2005

### A. Water Use Budgets
1. Number of Dedicated Irrigation Meter Accounts: 1026
2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: 1026
3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: 5203
4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: 5358
5. Does your agency provide water use notices to accounts with budgets each billing cycle? Yes

### B. Landscape Surveys
1. Has your agency developed a marketing /targeting strategy for landscape surveys? Yes  
   a. If YES, when did your agency begin implementing this strategy? 07/28/2004  
   b. Description of marketing /targeting strategy:
   
   Rancho California Water District began implementing its Targeted Conservation Program (TCP) in July 2004. The program, provides water-use efficiency evaluations for the District’s high water-use customers. If a customer’s annual water-use is 200-percent higher than the average consumption in their customer class, they are “targeted” for program participation. 2,500 urban water users were initially identified for the program. The goal of the Targeted Conservation Program is to reduce the demand for more costly Tier 2 imported water.
2. Number of Surveys Offered during reporting year: 750
3. Number of Surveys Completed during reporting year: 380
4. Indicate which of the following Landscape Elements are part of your survey:
   a. Irrigation System Check Yes  
   b. Distribution Uniformity Analysis No  
   c. Review / Develop Irrigation Schedules Yes  
   d. Measure Landscape Area Yes  
   e. Measure Total Irrigable Area Yes
5. Do you track survey offers and results? Yes
6. Does your agency provide follow-up surveys for previously completed surveys? Yes

### C. Other BMP 5 Actions
1. An agency can provide mixed-use accounts with ET-based landscape budgets in lieu of a large landscape survey program. Yes  

Does your agency provide mixed-use accounts with...

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12/1/2006
2. Number of CIU mixed-use accounts with landscape budgets.
   Number of CIU accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. (From BMP #4 report)
   Total number of change-outs from mixed-use to dedicated irrigation meters since Base Year.

3. Do you offer landscape irrigation training? Yes

4. Does your agency offer financial incentives to improve landscape water use efficiency? Yes

<table>
<thead>
<tr>
<th>Type of Financial Incentive:</th>
<th>Budget (Dollars/Year)</th>
<th>Number Awarded to Customers</th>
<th>Total Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Rebates</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>b. Loans</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c. Grants</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

5. Do you provide landscape water use efficiency information to new customers and customers changing services? No

   a. If YES, describe below:

6. Do you have irrigated landscaping at your facilities? Yes

   a. If yes, is it water-efficient? Yes

   b. If yes, does it have dedicated irrigation metering? Yes

7. Do you provide customer notices at the start of the irrigation season? No

8. Do you provide customer notices at the end of the irrigation season? No

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

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12/1/2006
### BMP 06: High-Efficiency Washing Machine Rebate Programs

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2005

#### A. Coverage Goal

1. **Number of residential dwelling units in the agency service area:** 27,518
2. **Coverage Goal = Total Dwelling Units x 0.048:** = 1,625 Points

#### B. Implementation

1. **Does your agency offer rebates for residential high-efficiency washers?** Yes

<table>
<thead>
<tr>
<th>HEW Water Factor</th>
<th>Number of Financial Incentives Issued</th>
<th>Retail Water Agency</th>
<th>Wholesaler/ Grantees (if applicable)</th>
<th>Energy Utility (if applicable)</th>
<th>TOTAL</th>
<th>POINTS AWARDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Greater than 8.5 but not exceeding 9.5 (1 point)</td>
<td>26</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>3. Greater than 6.0 but not exceeding 8.5 (2 points)</td>
<td>77</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>4. Less than or equal to 6.0 (3 points)</td>
<td>230</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

**TOTALS:** 333 $0 $0 $0 $0 $0

#### C. Past Credit Points

For HEW incentives issued before July 1, 2004, select ONE of the following TWO options:

1. **Method One: Points based on HEW Water Factor**  
   - Method One: Agency earns 1 point for each HEW.  
   - NOTE: Agency shall not receive credit for any HEW incentives where the agency did not provide a financial incentive of $25 or more.

<table>
<thead>
<tr>
<th>HEW Water Factor</th>
<th>Number of Financial Incentives Issued</th>
<th>Retail Water Agency</th>
<th>Wholesaler/ Grantees (if applicable)</th>
<th>Energy Utility (if applicable)</th>
<th>TOTAL</th>
<th>POINTS AWARDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Greater than 8.5 but not exceeding 9.5 (1 point each)</td>
<td>7</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>2. Greater than 6.0 but not exceeding 8.5</td>
<td>150</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Total:** D15

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12/1/2006
Method Two: Agency earns 1 point for each HEW

<table>
<thead>
<tr>
<th>Number of Financial Incentives Issued</th>
<th>Total Value of Water Agency Financial Incentives</th>
<th>POINTS AWARDED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Total HEWs installed

PAST CREDIT TOTALS:

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>328</td>
<td>$ 0</td>
<td>$ 0</td>
<td>$ 0</td>
</tr>
</tbody>
</table>

D. Rebate Program Expenditures

1. Average or Estimated Administration and Overhead $8,000
2. Is the financial incentive offered per HEW at least equal to the marginal benefits of the water savings per HEW?

E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? 
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

F. Comments

No comments

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D16

12/1/2006
BMP 07: Public Information Programs

Reporting Unit: Rancho California Water District

BMP Form Status: 100% Complete

Year: 2005

A. Implementation

1. How is your public information program implemented?
   Wholesaler and retailer both materially participate in program
   Which wholesaler(s)?
   Western Municipal Water District; Eastern Municipal Water District; and
   the Metropolitan Water District of Southern California

2. Describe the program and how it's organized:
   Rancho California Water District's public information program consists of
   community and media outreach. The program was managed under the direction
   of the Director of Planning. The various public information outreach efforts focus
   on informing and educating the District's stakeholders on various topics relating
   to water and the organization itself. Included in these topics are: water
   conservation, water reliability, water quality and infrastructure planning. The
   District supports the local, regional and statewide community through its public
   information efforts. COMMUNITY Quarterly customer newsletter includes
   annual water quality report, rate increase information and seasonal information.
   Bottled water program: reaching 49 organizations, including City of Temecula,
   American Red Cross and Susan G. Komen Race for the Cure. Community
   Water Festival: co-sponsored with other water agencies to educate the
   community on various topics relating to water. Landscape seminar: held in
   demonstration garden, open to the public. Three seminars held. City of
   Temecula 4th of July Parade: involvement included employee participation.
   MEDIA: Press releases: used as a medium to relay messages about the District.

3. Indicate which and how many of the following activities are included in your
   public information program:

<table>
<thead>
<tr>
<th>Public Information Program Activity in Retail Service Area</th>
<th>Yes/No</th>
<th>Number of Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Paid Advertising</td>
<td>yes</td>
<td>1</td>
</tr>
<tr>
<td>b. Public Service Announcement</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>c. Bill Inserts / Newsletters / Brochures</td>
<td>yes</td>
<td>12</td>
</tr>
<tr>
<td>d. Bill showing water usage in comparison to previous year's usage</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>e. Demonstration Gardens</td>
<td>yes</td>
<td>4</td>
</tr>
<tr>
<td>f. Special Events, Media Events</td>
<td>yes</td>
<td>5</td>
</tr>
<tr>
<td>g. Speaker's Bureau</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>h. Program to coordinate with other government agencies, industry and public interest groups and media</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

B. Conservation Information Program Expenditures

1. Annual Expenditures (Excluding Staffing) 58491.36

C. “At Least As Effective As”

1. Is your AGENCY implementing an “at least as effective as” No
   variant of this BMP?
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as.”

D. Comments

Report completed by Liselle DeGrave.

BMP 08: School Education Programs

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2005

A. Implementation

1. How is your public information program implemented? 
   Wholesaler and retailer both participate in program
   Western Municipal Water District and Eastern Municipal Water District

2. Please provide information on your region-wide school programs (by grade level):

<table>
<thead>
<tr>
<th>Grade</th>
<th>Are grade-appropriate materials distributed?</th>
<th>No. of class presentations</th>
<th>No. of students reached</th>
<th>No. of teachers' workshops</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades</td>
<td>yes</td>
<td>146</td>
<td>5900</td>
<td>0</td>
</tr>
<tr>
<td>K-3rd</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grades</td>
<td>yes</td>
<td>33</td>
<td>1000</td>
<td>0</td>
</tr>
<tr>
<td>4th-6th</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grades</td>
<td>yes</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7th-8th</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High School</td>
<td>yes</td>
<td>0</td>
<td>20</td>
<td>0</td>
</tr>
</tbody>
</table>

4. Did your Agency's materials meet state education framework requirements? yes
5. When did your Agency begin implementing this program? 01/01/1984

B. School Education Program Expenditures

1. Annual Expenditures (Excluding Staffing) 11057.58

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Report completed by Liselle DeGrave.

BMP 09: Conservation Programs for CII Accounts

Reporting Unit: Rancho California Water District

A. Implementation

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Has your agency identified and ranked COMMERCIAL customers according to use?</td>
<td>yes</td>
</tr>
<tr>
<td>Has your agency identified and ranked INDUSTRIAL customers according to use?</td>
<td>yes</td>
</tr>
<tr>
<td>Has your agency identified and ranked INSTITUTIONAL customers according to use?</td>
<td>yes</td>
</tr>
</tbody>
</table>

Option A: CII Water Use Survey and Customer Incentives Program

4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 09 under this option? If so, please describe activity during reporting period:

<table>
<thead>
<tr>
<th>CII Surveys</th>
<th>Commercial Accounts</th>
<th>Industrial Accounts</th>
<th>Institutional Accounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Number of New Surveys Offered</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>b. Number of New Surveys Completed</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c. Number of Site Follow-ups of Previous Surveys (within 1 yr)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CII Survey Components</th>
<th>Commercial Accounts</th>
<th>Industrial Accounts</th>
<th>Institutional Accounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>e. Site Visit</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>f. Evaluation of all water-using apparatus and processes</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>g. Customer report identifying recommended efficiency measures, paybacks and agency incentives</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agency CII Customer Incentives</th>
<th>Budget ($/Year)</th>
<th># Awarded to Customers</th>
<th>Total $ Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>h. Rebates</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>i. Loans</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>j. Grants</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>k. Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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12/1/2006
5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option? **Yes**

6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? **Yes**

7. **System Calculated annual savings (AF/yr):**

<table>
<thead>
<tr>
<th>CII Programs</th>
<th># Device Installations</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Ultra Low Flush Toilets</td>
<td>4</td>
</tr>
<tr>
<td>b. Dual Flush Toilets</td>
<td>0</td>
</tr>
<tr>
<td>c. High Efficiency Toilets</td>
<td>0</td>
</tr>
<tr>
<td>d. High Efficiency Urinals</td>
<td>0</td>
</tr>
<tr>
<td>e. Non-Water Urinals</td>
<td>0</td>
</tr>
<tr>
<td>f. Commercial Clothes Washers (coin-op only; not industrial)</td>
<td>2</td>
</tr>
<tr>
<td>g. Cooling Tower Controllers</td>
<td>0</td>
</tr>
<tr>
<td>h. Food Steamers</td>
<td>0</td>
</tr>
<tr>
<td>i. Ice Machines</td>
<td>0</td>
</tr>
<tr>
<td>j. Pre-Rinse Spray Valves</td>
<td>0</td>
</tr>
<tr>
<td>k. Steam Sterilizer Retrofits</td>
<td>0</td>
</tr>
<tr>
<td>l. X-ray Film Processors</td>
<td>0</td>
</tr>
</tbody>
</table>

8. **Estimated** annual savings (AF/yr) from agency programs not including the devices listed in Option B. 7., above:

<table>
<thead>
<tr>
<th>CII Programs</th>
<th>Annual Savings (AF/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Site-verified actions taken by agency</td>
<td>0</td>
</tr>
<tr>
<td>b. Non-site-verified actions taken by agency</td>
<td>0</td>
</tr>
</tbody>
</table>

**B. Conservation Program Expenditures for CII Accounts**

<table>
<thead>
<tr>
<th>Expenditures</th>
<th>This Year</th>
<th>Next Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. budgeted Expenditures</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. Actual Expenditures</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**C. "At Least As Effective As"**

1. Is your agency implementing an "at least as effective as" variant of this BMP? **No**

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**D. Comments**

RCWD, as a water retailer in the Metropolitan Water District service area, participates in the Save Water-Save A Buck program for CII water customers.

BMP 11: Conservation Pricing

Reporting Unit: Rancho California Water District

BMP Form Status: Year: 100% Complete 2005

A. Implementation

Water Service Rate Structure Data by Customer Class

<table>
<thead>
<tr>
<th>Number of schedules:</th>
<th>Use of classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the following accounts, how many rate schedules does agency offer/use?</td>
<td>This agency:</td>
</tr>
<tr>
<td>1. Single-family residential</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>2. Multi-family residential</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>3. Commercial</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>4. Industrial</td>
<td>Includes customers in another class</td>
</tr>
<tr>
<td>5. Institutional/government</td>
<td>Includes customers in another class</td>
</tr>
<tr>
<td>6. Dedicated irrigation (potable water)</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>7. Other</td>
<td>Does not serve this type of customer</td>
</tr>
<tr>
<td>8. Recycled-reclaimed water</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>9. Raw water (urban use)</td>
<td>Does not serve this type of customer</td>
</tr>
<tr>
<td>10. Wholesale (urban use)</td>
<td>Does not serve this type of customer</td>
</tr>
</tbody>
</table>

Sewer Service

11. Does your agency provide sewer service to your water customers? yes
12. If yes, does sewer service use conservation rate structures? no
13. Has your agency made the required efforts (as prescribed in BMP 11) to have sewer services billed on conservation rates? no
14. What water agency activities have been undertaken during the reporting period to achieve waste water agency volumetric billing in your water agency service area? None

B. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

C. Comments

RCWD rate structure is actually more detailed that this report form allows. RCWD has two divisions with two rate tiers each. The tiers are adjusted for both meter and property size. A different tiered allotment is calculated for meter size and a lot size variance is available at four progressively larger categories of lot size.

http://bmp.cauwcc.org/bmp/print/printall.lasso

12/1/2006
BMP 11: Conservation Pricing

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2005

1.A. Single-Family Residential Rate Schedule A

a. Water Rate Structure
   Increasing Block
b. Sewer Rate Structure
   Non-volumetric Flat Rate
c. Total Revenue from only Volumetric Charges
   6994909.49
d. Total Revenue from Non-Volumetric Charges
   (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)
   4073639.2

e. Total Revenue from this category
   11068548.69

1.A. Rate Schedule - Volumetric

Title: Single Family Residential-Rancho Division

f. Billing Cycles/year
   12
g. Service Charges/Cycle
   12.1
h. Gallons/Bill Unit
   748
i. Minimum Use/Cycle
   0
j. Non-billed Units (included in monthly service charge)
   0

$k/Unit

k. Tier 1
   .61073
l. Tier 2
   .79668
m. Tier 3
   525
n. Tier 4
o. Tier 5
p. Tier 6

q. Approximate quantity of meters/accounts on this rate schedule
   27988
r. Are elevation charges included?
   no
s. Approximate total annual water usage (AF) from customers on this rate schedule
   20664

1.8. Single-Family Residential Rate Schedule B

a. Water Rate Structure
   Increasing Block
b. Sewer Rate Structure
   Non-volumetric Flat Rate
c. Total Revenue from only Volumetric Charges
   2456999.04
d. Total Revenue from Non-Volumetric Charges
   (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)
   1403977.05

http://bmp.cuwcc.org/bmp/print/printall.lasso

12/1/2006
### 1.B. Rate Schedule - Volumetric

**Title:** Single Family Residential-Santa Rosa Division

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>f. Billing Cycles/year</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>g. Service Charges/Cycle</strong></td>
<td>18.71</td>
</tr>
<tr>
<td><strong>h. Gallons/Bill Unit</strong></td>
<td>748</td>
</tr>
<tr>
<td><strong>i. Minimum Use/Cycle</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>j. Non-billed Units (included in monthly service charge)</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>S/Bill Unit</strong></td>
<td><strong>Starting At (unit qty.)</strong></td>
</tr>
<tr>
<td>k. Tier 1</td>
<td>1.01674</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>1.20569</td>
</tr>
<tr>
<td>n. Tier 3</td>
<td></td>
</tr>
<tr>
<td>o. Tier 4</td>
<td></td>
</tr>
<tr>
<td>p. Tier 6</td>
<td></td>
</tr>
<tr>
<td>q. Approximate quantity of meters/accounts on this rate schedule</td>
<td>5700</td>
</tr>
<tr>
<td>r. Are elevation charges included?</td>
<td>no</td>
</tr>
<tr>
<td>s. Approximate total annual water usage (AF) from customers on this rate schedule</td>
<td>4578</td>
</tr>
</tbody>
</table>

---

http://bmp.cuucc.org/bmp/print/printall.lasso

D25

12/1/2006
**BMP 11: Conservation Pricing**

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2005

### 2.A. Multi-Family Residential Rate Schedule A

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Water Rate Structure</td>
<td>Increasing Block</td>
</tr>
<tr>
<td>b. Sewer Rate Structure</td>
<td>Non-volumetric Flat Rate</td>
</tr>
<tr>
<td>c. Total Revenue from only Volumetric Charges</td>
<td>774918.76</td>
</tr>
<tr>
<td>d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)</td>
<td>319040.47</td>
</tr>
<tr>
<td>e. Total Revenue from this category</td>
<td>1093659.23</td>
</tr>
</tbody>
</table>

### 2.A. Rate Schedule - Volumetric

**Title:** Multi Family Residential - Rancho Division

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>f. Billing Cycles/year</td>
<td>12</td>
</tr>
<tr>
<td>g. Service Charges/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>h. Gallons/Bill Unit</td>
<td>748</td>
</tr>
<tr>
<td>i. Minimum Use/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>j. Non-billed Units (included in monthly service charge)</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tier</th>
<th>$/Bill Unit</th>
<th>Starting At</th>
</tr>
</thead>
<tbody>
<tr>
<td>k. Tier 1</td>
<td>.61073</td>
<td>1</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>.79668</td>
<td>555</td>
</tr>
<tr>
<td>m. Tier 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n. Tier 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o. Tier 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. Tier 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

q. Approximate quantity of meters/accounts on this rate schedule 176
r. Are elevation charges included? no
s. Approximate total annual water usage (AF) from customers on this rate schedule 1592

### 2.B. Multi-Family Residential Rate Schedule B

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Water Rate Structure</td>
<td>Increasing Block</td>
</tr>
<tr>
<td>b. Sewer Rate Structure</td>
<td>Non-volumetric Flat Rate</td>
</tr>
<tr>
<td>c. Total Revenue from only Volumetric Charges</td>
<td>232127.27</td>
</tr>
<tr>
<td>d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)</td>
<td>144076.03</td>
</tr>
</tbody>
</table>

http://bmp.cuwcc.org/bmp/print/printall.lasso  
12/1/2006
### 2.B. Rate Schedule - Volumetric

**Title:** Multi Family Residential - Santa Rosa Division

<table>
<thead>
<tr>
<th>f. Billing Cycles/year</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>g. Service Charges/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>h. Gallons/Bill Unit</td>
<td>748</td>
</tr>
<tr>
<td>i. Minimum Use/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>j. Non-billed Units (includes in monthly service charge)</td>
<td>0</td>
</tr>
</tbody>
</table>

| k. Tier 1 | 1.01674 | $/Bill Unit |
| l. Tier 2 | 1.20269 | Starting At (unit qty.) |
| m. Tier 3 | 525 |
| n. Tier 4 | 6 |
| o. Tier 5 | no |
| p. Tier 6 | 158 |

q. Approximate quantity of meters/accounts on this rate schedule
r. Are elevation charges included?
s. Approximate total annual water usage (AF) from customers on this rate schedule

D27

http://bmp.cuwcc.org/bmp/print/printall.lasso

1/2/2006
### BMP 11: Conservation Pricing

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2005

#### 3.A. Commercial Rate Schedule A

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Water Rate Structure</td>
<td>Increasing Block</td>
<td></td>
</tr>
<tr>
<td>b. Sewer Rate Structure</td>
<td>Non-volumetric Flat Rate</td>
<td></td>
</tr>
<tr>
<td>c. Total Revenue from only Volumetric Charges</td>
<td></td>
<td>1813566.75</td>
</tr>
<tr>
<td>d. Total Revenue from Non-Volumetric Charges</td>
<td>(Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)</td>
<td>746751.74</td>
</tr>
<tr>
<td>e. Total Revenue from this category</td>
<td></td>
<td>2560398.49</td>
</tr>
</tbody>
</table>

#### 3.A. Rate Schedule - Volumetric

- **Title:** CII - Rancho Division
- **f. Billing Cycles/year** 12  
- **g. Service Charges/Cycle** 0  
- **h. Gallons/Bill Unit** 748  
- **i. Minimum Use/Cycle** 0  
- **j. Non-billed Units (included in monthly service charge)** 0

<table>
<thead>
<tr>
<th>Tier</th>
<th>$/Bill Unit</th>
<th>Starting At (unit qty.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>k. Tier 1</td>
<td>.61073</td>
<td>0</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>.79668</td>
<td>525</td>
</tr>
<tr>
<td>m. Tier 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n. Tier 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o. Tier 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. Tier 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **q. Approximate quantity of meters/accounts on this rate schedule** 1642  
- **r. Are elevation charges included?** No  
- **s. Approximate total annual water usage (AF) from customers on this rate schedule** 3432

#### 3.B. Commercial Rate Schedule B

- **a. Water Rate Structure** Increasing Block  
- **b. Sewer Rate Structure** Non-volumetric Flat Rate  
- **c. Total Revenue from only Volumetric Charges** 543321.17  
- **d. Total Revenue from Non-Volumetric Charges** (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.) 337226.9

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12/1/2006
### 3.B. Rate Schedule - Volumetric

**Title:** CII - Santa Rosa Division

- **e. Total Revenue from this category:** 880548.07

<table>
<thead>
<tr>
<th>f. Billing Cycles/year</th>
<th>g. Service Charges/Cycle</th>
<th>h. Gallons/Bill Unit</th>
<th>i. Minimum Use/Cycle</th>
<th>j. Non-billed Units (included in monthly service charge)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>0</td>
<td>748</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>k. Tier 1</th>
<th>l. Tier 2</th>
<th>m. Tier 3</th>
<th>n. Tier 4</th>
<th>o. Tier 5</th>
<th>p. Tier 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01674</td>
<td>1.20269</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- **q. Approximate quantity of meters/accounts on this rate schedule:** 682
- **r. Are elevation charges included?** No
- **s. Approximate total annual water usage (AF) from customers on this rate schedule:** 665

---

http://bnp.cuwcc.org/bnp/print/printall.lasso

12/1/2006
BMP 11: Conservation Pricing

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2005

6.A. Irrigation Rate Schedule A

a. Water Rate Structure: Increasing Block
b. Sewer Rate Structure: Service Not Provided
c. Total Revenue from only Volumetric Charges: 1002477.46
d. Total Revenue from Non-Volumetric Charges: (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.) 448939.49
e. Total Revenue from this category: 1542316.95

6.A. Rate Schedule - Volumetric

Title: Domestic Landscape Irrigation - Rancho Division

f. Billing Cycles/year: 12

<table>
<thead>
<tr>
<th>Tier</th>
<th>$/Bill Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>$1073</td>
</tr>
<tr>
<td>Tier 2</td>
<td>$79668</td>
</tr>
<tr>
<td>Tier 3</td>
<td>$525</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tier</th>
<th>Starting At (unit qty.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1</td>
<td>0</td>
</tr>
<tr>
<td>Tier 2</td>
<td>525</td>
</tr>
</tbody>
</table>

q. Approximate quantity of meters/accounts on this rate schedule: 599
r. Are elevation charges included?: no
s. Approximate total annual water usage (AF) from customers on this rate schedule: 1298

6.B. Irrigation Rate Schedule B

a. Water Rate Structure: Increasing Block
b. Sewer Rate Structure: Service Not Provided
c. Total Revenue from only Volumetric Charges: 327293.94
d. Total Revenue from Non-Volumetric Charges: (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.) 203143.79

D30

e. Total Revenue from this category: $530437.73

6.B. Rate Schedule - Volumetric

Title: Domestic Landscape Irrigation - Santa Rosa Division

f. Billing Cycles/year: 12

g. Service Charges/Cycle: $0

h. Gallons/Bill Unit: 748

i. Minimum Use/Cycle: $0

j. Non-billed Units (included in monthly service charge): 0

k. Tier 1: $1.01674

l. Tier 2: $1.20269

m. Tier 3: $525

n. Tier 4: $0

o. Tier 5: $0

p. Tier 6: $0

q. Approximate quantity of meters/accounts on this rate schedule: 467

r. Are elevation charges included?: No

s. Approximate total annual water usage (AF) from customers on this rate schedule: 1170

http://bmp.cuwcc.org/bmp/print/printall.lasso

12/1/2006
BMP 11: Conservation Pricing
Reporting Unit: Rancho California Water District
8A. Recycled Rate Schedule A

<table>
<thead>
<tr>
<th>a. Water Rate Structure</th>
<th>Uniform</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. Sewer Rate Structure</td>
<td>Service Not Provided</td>
</tr>
<tr>
<td>c. Total Revenue from only Volumetric Charges</td>
<td>754086.39</td>
</tr>
<tr>
<td>d. Total Revenue from Non-Volumetric Charges (includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)</td>
<td>20573.15</td>
</tr>
<tr>
<td>e. Total Revenue from this category</td>
<td>774669.54</td>
</tr>
</tbody>
</table>

8A. Rate Schedule - Volumetric

<table>
<thead>
<tr>
<th>Title: Tertiary Treated Recycled Water - Both Divisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>f. Billing Cycles/year</td>
</tr>
<tr>
<td>g. Service Charges/Cycle</td>
</tr>
<tr>
<td>h. Gallons/Bill Unit</td>
</tr>
<tr>
<td>i. Minimum Use/Cycle</td>
</tr>
<tr>
<td>j. Non-billed Units (included in monthly service charge)</td>
</tr>
<tr>
<td>k. Tier 1</td>
</tr>
<tr>
<td>l. Tier 2</td>
</tr>
<tr>
<td>m. Tier 3</td>
</tr>
<tr>
<td>n. Tier 4</td>
</tr>
<tr>
<td>o. Tier 5</td>
</tr>
<tr>
<td>p. Tier 6</td>
</tr>
<tr>
<td>q. Approximate quantity of meters/accounts on this rate schedule</td>
</tr>
<tr>
<td>r. Are elevation charges included?</td>
</tr>
<tr>
<td>s. Approximate total annual water usage (AF) from customers on this rate schedule</td>
</tr>
</tbody>
</table>

BMP 12: Conservation Coordinator

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2005

A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is a coordinator position supplied by another agency with which you cooperate in a regional conservation program? no

a. Partner agency's name:

3. If your agency supplies the conservation coordinator:
   a. What percent is this conservation coordinator's position? 25%
   b. Coordinator's Name
   c. Coordinator's Title Public Information Specialist
   d. Coordinator's Experience in Number of Years 21 years
   e. Date Coordinator's position was created (mm/dd/yyyy) 12/04/1985

4. Number of conservation staff (FTEs), including Conservation Coordinator: 1

B. Conservation Staff Program Expenditures

1. Staffing Expenditures (In-house Only) 7000
2. BMP Program Implementation Expenditures 25962

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? no

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

None

BMP 13: Water Waste Prohibition

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2005

A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? yes
   a. If YES, describe the ordinance:

   Resolution 91-5-6 identifies five water supply stages during which
certain potentially wasteful activities are prohibited. During Stage 1 -
Normal Condition, specific language prevents run-off and customers are
reminded that water waste is a violation of California Law and District
regulations at all times. As the water supply decreases due to drought or
temporary operations shortages the stage numbers increase and the
water-use restrictions become increasingly strict.

2. Is a copy of the most current ordinance(s) on file with CUWCC? no
   a. List local jurisdictions in your service area in the first text box and
      water waste ordinance citations in each jurisdiction in the second text
      box:

      TEMECULA, MURRIETA AND
      THE COUNTY OF RIVERSIDE

      City of Temecula Development
      Code Chapter 17-32: City of
      Murrieta Ordinance 182-2;
      County of Riverside Code
      Chapter 17.289

B. Implementation

1. Indicate which of the water uses listed below are prohibited by
   your agency or service area.
   a. Gutter flooding no
   b. Single-pass cooling systems for new connections no
   c. Non-recirculating systems in all new conveyor or car
      wash systems no
   d. Non-recirculating systems in all new commercial laundry
      systems no
   e. Non-recirculating systems in all new decorative
      fountains no
   f. Other, please name no

2. Describe measures that prohibit water uses listed above:

   No ordinance specifically prohibited the above water uses during FY
   2005. RCWD signed the MOU in March of 2005 and will soon work to
   address this requirement.

Water Softeners:

3. Indicate which of the following measures your agency has
   supported in developing state law:
   a. Allow the sale of more efficient, demand-initiated
      regenerating DRI models. yes
   b. Develop minimum appliance efficiency standards that:
      i.) Increase the regeneration efficiency standard to
      at least 3,350 grains of hardness removed per
      pound of common salt used. yes
      ii.) Implement an identified maximum number of
gallons discharged per gallon of soft water

http://bmp.cuwcc.org/bmp/print/printAll.lasso 12/1/2006
produced.

4. Does your agency include water softener checks in home water audit programs?

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models?

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of the BMP?

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

None

D35

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12/1/2006
## BMP 14: Residential ULFT Replacement Programs

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2005

### A. Implementation

#### Number of 1.6 gpf Toilets Replaced by Agency Program During Report Year

<table>
<thead>
<tr>
<th>Replacement Method</th>
<th>Single-Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low Flush toilets?</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>2. Rebate</td>
<td>154</td>
<td>0</td>
</tr>
<tr>
<td>3. Direct Install</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4. CBO Distribution</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Other</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>154</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

#### Number of 1.2 gpf High-Efficiency Toilets (HETs) Replaced by Agency Program During Report Year

<table>
<thead>
<tr>
<th>Replacement Method</th>
<th>Single-Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>7. Rebate</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>8. Direct Install</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>9. CBO Distribution</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10. Other</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

#### Number of Dual-Flush Toilets Replaced by Agency Program During Report Year

<table>
<thead>
<tr>
<th>Replacement Method</th>
<th>Single-Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>11. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>12. Rebate</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13. Direct Install</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>14. CBO Distribution</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>15. Other</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

16. Describe your agency’s ULFT, HET, and/or Dual-Flush Toilet programs for...

---

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12/1/2006
single-family residences.

IN FY 2005, RCWD'S TOILET REPLACEMENT PROGRAM WAS SOLELY A REBATE FOR THE REPLACEMENT OF NON-CONSERVING UNITS WITH ULFTS. SINGLE FAMILY AND MULTI FAMILY WERE PERMITTED TO PARTICIPATE.

17. Describe your agency's ULFT, HET, and/or Dual-Flush Toilet programs for multi-family residences.

IN FY 2005, RCWD'S TOILET REPLACEMENT PROGRAM WAS SOLELY A REBATE FOR THE REPLACEMENT OF NON-CONSERVING UNITS WITH ULFTS. SINGLE FAMILY AND MULTI FAMILY WERE PERMITTED TO PARTICIPATE.

18. Is a toilet retrofit on resale ordinance in effect for your service area? no

19. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures
1. Estimated cost per ULFT/HET replacement: 56

C. "At Least As Effective As"
1. Is your AGENCY implementing an "at least as effective as" no variant of this BMP?
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments
   Estimated Cost per ULFT does not include the $60 per unit rebate incentive that was passed to the customer.

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12/1/2006
APPENDIX E

2006 CUWCC REPORT
# Water Supply & Reuse

**Reporting Unit:** Rancho California Water District  
**Year:** 2006

## Water Supply Source Information

<table>
<thead>
<tr>
<th>Supply Source Name</th>
<th>Quantity (AF) Supplied</th>
<th>Supply Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWD Treated</td>
<td>35969</td>
<td>Imported</td>
</tr>
<tr>
<td>SRWRF</td>
<td>4462</td>
<td>Recycled</td>
</tr>
<tr>
<td>TVRWRF</td>
<td>893</td>
<td>Recycled</td>
</tr>
<tr>
<td>RCWD</td>
<td>40700</td>
<td>Groundwater</td>
</tr>
<tr>
<td>Vail Lake</td>
<td>834</td>
<td>Local Watershed</td>
</tr>
</tbody>
</table>

**Total AF:** 82858

---

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12/1/2006
**Accounts & Water Use**

**Reporting Unit Name:** Rancho California Water District  
**Submitted to:** CUWCC  
**Year:** 2006

### A. Service Area Population Information:
1. Total service area population: 111960

### B. Number of Accounts and Water Deliveries (AF)

<table>
<thead>
<tr>
<th>Type</th>
<th>Metered</th>
<th>Unmetered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of Accounts</td>
<td>Water Deliveries (AF)</td>
</tr>
<tr>
<td>1. Single-Family</td>
<td>34513</td>
<td>28200</td>
</tr>
<tr>
<td>2. Multi-Family</td>
<td>186</td>
<td>1758</td>
</tr>
<tr>
<td>3. Commercial</td>
<td>2425</td>
<td>4370</td>
</tr>
<tr>
<td>4. Industrial</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Institutional</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6. Dedicated Irrigation</td>
<td>1099</td>
<td>2120</td>
</tr>
<tr>
<td>7. Recycled Water</td>
<td>339</td>
<td>5355</td>
</tr>
<tr>
<td>8. Other</td>
<td>2936</td>
<td>38572</td>
</tr>
<tr>
<td>9. Unaccounted</td>
<td>NA</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total** 41498 80375 0 0

---

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12/1/2006
BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2006

A. Implementation

1. Based on your signed MOU date, 03/09/2005, your Agency STRATEGY DUE DATE is: 03/09/2007

2. Has your agency developed and implemented a targeting/marketing strategy for SINGLE-FAMILY residential water use surveys? yes

   a. If YES, when was it implemented? 07/28/2004

3. Has your agency developed and implemented a targeting/marketing strategy for MULTI-FAMILY residential water use surveys? yes

   a. If YES, when was it implemented? 07/28/2004

B. Water Survey Data

Survey Counts:

<table>
<thead>
<tr>
<th></th>
<th>Single Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of surveys offered:</td>
<td>170</td>
<td>6</td>
</tr>
<tr>
<td>Number of surveys completed:</td>
<td>138</td>
<td>6</td>
</tr>
</tbody>
</table>

Indoor Survey:

3. Check for leaks, including toilets, faucets and meter checks no no

4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary no no

5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary no no

Outdoor Survey:

6. Check irrigation system and timers yes yes

7. Review or develop customer irrigation schedule yes yes

8. Measure landscaped area (Recommended but not required for surveys) no no

9. Measure total irrigable area (Recommended but not required for surveys) no no

10. Which measurement method(s) typically used (Recommended but not required for surveys) None

11. Were customers provided with information packets that included evaluation results and water savings recommendations? yes yes

12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? yes yes

   a. If yes, in what form are surveys tracked? manual activity

   b. Describe how your agency tracks this information.

Contractor provides copies of completed evaluations. Indication of

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

RCWD’s Targeted Conservation Program focuses on the 500 highest water-use residential customers. Installed WBIC counted as evaluations.

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12/1/2006
BMP 02: Residential Plumbing Retrofit

Reporting Unit: Rancho California Water District

BMP Form Status: 100% Complete

Year: 2006

A. Implementation

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts?
   a. If YES, list local jurisdiction in your service area and code or ordinance in each:
   no

2. Has your agency satisfied the 75% saturation requirement for single-family housing units?
   no

3. Estimated percent of single-family households with low-flow showerheads:
   %

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units?
   no

5. Estimated percent of multi-family households with low-flow showerheads:
   %

6. If YES to 2 OR 4 above, please describe how satisfaction was determined, including the dates and results of any survey research.

B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/marketing strategy for distributing low-flow devices?
   yes
   a. If YES, when did your agency begin implementing this strategy?
   04/01/2005
   b. Describe your targeting/marketing strategy.

In FY 2006, RCWD provided program messages in the customer newsletter and on monthly billing statements.

<table>
<thead>
<tr>
<th>Low-Flow Devices Distributed/Installed</th>
<th>SF Accounts</th>
<th>MF Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of low-flow showerheads</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>Number of toilet-displacement devices</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Number of toilet flappers distributed</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Number of faucet aerators distributed</td>
<td>30</td>
<td>0</td>
</tr>
</tbody>
</table>
| 6. Does your agency track the distribution and cost of low-flow devices?
   a. If YES, in what format are low-flow devices tracked?
   Spreadsheet
   b. If yes, describe your tracking and distribution system:
   MS Excel Spreadsheet

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?
   No
   a. If YES, please explain in detail how your implementation of this BMP

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12/1/2006
differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments
BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2006

A. Implementation
1. Does your agency own or operate a water distribution system? Yes
2. Has your agency completed a pre-screening system audit for this reporting year? No
3. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
   a. Determine metered sales (AF) 77493.77
   b. Determine other system verifiable uses (AF) 0
   c. Determine total supply into the system (AF) 77503
   d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required.
   1.00
4. Does your agency keep necessary data on file to verify the values entered in question 3? Yes
5. Did your agency complete a full-scale audit during this report year? No
6. Does your agency maintain in-house records of audit results or completed AWWA M36 audit worksheets for the completed audit which could be forwarded to CUWCC? No
7. Does your agency operate a system leak detection program? No
   a. If yes, describe the leak detection program:

B. Survey Data
1. Total number of miles of distribution system line. 851.51
2. Number of miles of distribution system line surveyed. 0

C. "At Least As Effective As"
1. Is your agency implementing an "at least as effective as" variant of this BMP? No
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments
FY 2006 supply into the system includes treated water purchased from MWD; locally produced groundwater and vail water.

Voluntary Questions (Not used to calculate compliance)

E. Volumes

<table>
<thead>
<tr>
<th>Estimated</th>
<th>Verified</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Volume of raw water supplied to the system:</td>
<td></td>
</tr>
<tr>
<td>2. Volume treated water supplied into the system:</td>
<td></td>
</tr>
<tr>
<td>3. Volume of water exported from the system:</td>
<td></td>
</tr>
<tr>
<td>4. Volume of billed authorized metered</td>
<td></td>
</tr>
</tbody>
</table>

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12/1/2006
F. Infrastructure and Hydraulics

1. System input (source or master meter) volumes metered at the entry to the system?
2. How frequently are they tested and calibrated?
3. Length of mains:
4. What % of distribution mains are rigid pipes (metal, ac, concrete)?
5. Number of service connections:
6. What % of service connections are rigid pipes (metal)?
7. Are residential properties fully metered?
8. Are non-residential properties fully metered?
9. Provide an estimate of customer meter under-registration:
10. Average length of customer service line from the meter to the point of the meter:
11. Average system pressure:
12. Range of system pressures:
13. What percentage of the system is fed from gravity feed?
14. What percentage of the system is fed by pumping and re-pumping?

G. Maintenance Questions

1. Who is responsible for providing, testing, repairing and replacing customer meters?
2. Does your agency test, repair and replace your meters on a regular timed schedule?
   a. If yes, does your agency test by meter size or customer category?
   b. If yes to meter size, please provide the frequency of testing by meter size:
      - Less than or equal to 1"
      - 1.5" to 2"
      - 3" and Larger
   c. If yes to customer category, provide the frequency of testing by customer category:
      - SF Residential
      - MF Residential
      - Commercial
      - Industrial & Institutional
3. Who is responsible for repairs to the customer lateral or customer service line?
4. Who is responsible for service line repairs downstream of the customer meter?
5. Does your agency proactively search for leaks using leak survey techniques or does your utility reactively repair leaks which are called in, or both?

6. What is the utility budget breakdown for:
   - Leak Detection $  
   - Leak Repair $  
   - Auditing and Water Loss Evaluation $  
   - Meter Testing $  

H. Comments
BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit: Rancho California Water District  
BMP Form Status: 100% Complete  
Year: 2006

A. Implementation

1. Please fill out the following matrix:

<table>
<thead>
<tr>
<th>Types of Billed Accounts</th>
<th>% Accounts Metered</th>
<th>% Accounts Measured (Not Metered)</th>
<th>% Accounts Volumetric Billing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated Water SF Residential</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Accounts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treated Water MF Residential</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Accounts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treated Water Commercial</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Accounts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treated Water Industrial</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Accounts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treated Water Institutional</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Accounts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raw Water Residential</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Deliveries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raw Water Non-Residential</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Deliveries</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. If your agency does not meter 100% of all treated water accounts:
   a. Does your agency have a plan or program for retrofitting existing unmetered treated water connections?  
      No
   b. By what date would 100% of all treated water accounts be metered?
   c. Number of previously unmetered accounts fitted with meters during report year:

3. If your agency does bill 100% of all treated water accounts by volume of use:
   a. By what date (Year must be four digit mm/dd/yyyy) will all customers with meters be billed by volume of use?  
      No

4. If your agency does not meter or measure 100% of all raw water delivery fields (as listed in question 1f & 1g), does your agency intend to develop a program for measuring all raw water deliveries?  
      No

5. If your agency does not volumetrically bill 100% of all raw water delivery, does your agency intend to develop a program for billing all raw water deliveries by volume of use?  
      No

6. Does your agency meter by volume of use all municipal or governmental accounts?:
   a. If no, which types of accounts are not included: E11

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12/1/2006
7. Does your agency bill by volume of use all municipal or governmental accounts?
   a. If no, which types of accounts are not included:

   Yes

B. Feasibility Study
1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?
   a. If YES, when was the feasibility study conducted? (mm/dd/yy)
   b. Describe the feasibility study:

   no

2. Number of CII accounts with mixed-use meters:

   0

3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period

D. "At Least As Effective As"
1. Is your agency implementing an "at least as effective as" variant of this BMP?
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

   No

E. Comments
Report completed by Jason Martin and Sheri Todd.

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12/1/2006
BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit: Rancho California Water District

<table>
<thead>
<tr>
<th>BMP Form Status: 100% Complete</th>
<th>Year: 2006</th>
</tr>
</thead>
</table>

A. Water Use Budgets

1. Number of Dedicated Irrigation Meter Accounts: 1099
2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: 1099
3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: 5617
4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: 6718
5. Does your agency provide water use notices to accounts with budgets each billing cycle? Yes

B. Landscape Surveys

1. Has your agency developed a marketing / targeting strategy for landscape surveys? Yes
2. Number of Surveys Offered during reporting year: 1225
3. Number of Surveys Completed during reporting year: 724
4. Indicate which of the following Landscape Elements are part of your survey:
   a. Irrigation System Check: Yes
   b. Distribution Uniformity Analysis: No
   c. Review / Develop Irrigation Schedules: Yes
   d. Measure Landscape Area: Yes
   e. Measure Total Irrigable Area: Yes
5. Do you track survey offers and results? Yes
6. Does your agency provide follow-up surveys for previously completed surveys? Yes

   RCWD's high water use list is generated each year. If a customer remains on the list from year to year and a follow up visit may yield additional savings a follow up evaluation may be conducted.

C. Other BMP 5 Actions

1. An agency can provide mixed-use accounts with ET-based landscape budgets in lieu of a large landscape survey Yes

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12/1/2006
2. Number of CII mixed-use accounts with landscape budgets.
   Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. (From BMP 4 report)
   Total number of change-outs from mixed-use to dedicated irrigation meters since BaseYear.

3. Do you offer landscape irrigation training?
   Yes

4. Does your agency offer financial incentives to improve landscape water use efficiency?
   Yes

<table>
<thead>
<tr>
<th>Type of Financial Incentive</th>
<th>Budget (Dollars/Year)</th>
<th>Number Awarded to Customers</th>
<th>Total Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Rebates</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>b. Loans</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c. Grants</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

5. Do you provide landscape water use efficiency information to new customers and customers changing services?
   No

6. Do you have irrigated landscaping at your facilities?
   Yes
   a. If yes, is it water-efficient?
      Yes
   b. If yes, does it have dedicated irrigation metering?
      Yes

7. Do you provide customer notices at the start of the irrigation season?
   No

8. Do you provide customer notices at the end of the irrigation season?
   No

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?
   No
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

RCWD, through grant funding and financial incentives offered by Metropolitan Water District (MWD), directly installed more than 500 weather based irrigation controllers during FY 2006. These controllers are responsible for more than 750 acres of irrigated landscape. Most of the controllers were installed in HOA common area and commercial landscapes. In addition, RCWD passes all MWQD landscape financial incentive programs on to its customers.
BMP 06: High-Efficiency Washing Machine Rebate Programs

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2006

### A. Coverage Goal

<table>
<thead>
<tr>
<th>Number of Residential Dwelling Units in the Agency Service Area</th>
<th>Total Dwelling Units x 0.048</th>
<th>Points Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>27,518</td>
<td></td>
<td>6,336</td>
</tr>
</tbody>
</table>

### B. Implementation

1. Does your agency offer rebates for residential high-efficiency washers?

   - Yes

<table>
<thead>
<tr>
<th>HEW Water Factor</th>
<th>Number of Financial Incentives Issued</th>
<th>Total Value of Financial Incentives</th>
<th>Points Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Retail Water Agency</td>
<td>Wholesaler/ Grants of applicable</td>
<td>Energy Utility of applicable</td>
</tr>
<tr>
<td>2. Greater than 8.5 but not exceeding 9.5 (1 point)</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>3. Greater than 6.0 but not exceeding 8.5 (2 points)</td>
<td>0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>4. Less than or equal to 6.0 (3 points)</td>
<td>311</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

**TOTALS:** 311 $0 $0 $0 $0 0

### C. Past Credit Points

For HEW incentives issued before July 1, 2004, select ONE of the following TWO options:

- Method One: Points based on HEW Water Factor
- Method Two: Agency earns 1 point for each HEW.

**NOTE:** Agency shall not receive credit for any HEW incentives where the agency did not provide a financial incentive of $25 or more.

#### Method One: Points based on HEW Water Factor

<table>
<thead>
<tr>
<th>HEW Water Factor</th>
<th>Number of Financial Incentives Issued</th>
<th>Total Value of Water Agency Financial Incentives</th>
<th>Points Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Greater than 8.5 but not exceeding 9.5 (1 point each)</td>
<td>7</td>
<td>$0</td>
<td>0</td>
</tr>
<tr>
<td>2. Greater than 6.0 but not exceeding 8.5 (2 points each)</td>
<td>150</td>
<td>$0</td>
<td>0</td>
</tr>
</tbody>
</table>

http://bnp.cwucc.org/bmp/print/printall.lasso  

12/1/2006
Method Two: Agency earns 1 point for each HEW

<table>
<thead>
<tr>
<th>Number of Financial Incentives Issued</th>
<th>Total Value of Water Agency Financial Incentives</th>
<th>POINTS AWARDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Total HEWs installed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PAST CREDIT TOTALS:

328 $ 0 0

D. Rebate Program Expenditures

1. Average or Estimated Administration and Overhead

2. Is the financial incentive offered per HEW at least equal to the marginal benefits of the water savings per HEW?

E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

F. Comments

E16

http://bmp.cuwcc.org/bmp/print/printalllassen

12/1/2006
BMP 07: Public Information Programs

Reporting Unit: Rancho California Water District

BMP Form Status: 100% Complete Year: 2006

A. Implementation

1. How is your public information program implemented?
   Wholesaler and retailer liaison materially participate in program
   Western Municipal Water District; Eastern Municipal Water District; and the Metropolitan Water District of Southern California

2. Describe the program and how it’s organized:
   Rancho California Water District's public information program consists of community, legislative and media outreach. The program is managed under the direction of the Director of Planning. The various public information outreach efforts focus on informing and educating the District’s stakeholders on various topics relating to water and the organization itself. Included in these topics are: water conservation, water reliability, water quality and infrastructure planning. The District supports the local, regional and statewide community through its public information efforts. COMMUNITY Quarterly customer newsletter includes annual water quality report and seasonal information. Public outreach notices includes time-sensitive information on rate increases and chloraminated water adjustments. Bottled water program: reaching 80 organizations, including Temecula Rotary, habitat for Humanity, Temecula Valley Public Library, American Cancer Society and Boys & Girls Club.
   Community Water Conservation Festival: co-sponsored with other local water agencies to educate the community on the importance of water conservation with live demos on various products that can be used to improve water efficiency. Enough H2O Campaign: combined effort between local water agencies to educate customers on how much water to use on their lawns, how often and for how many minutes over the summer months. Balloon & Wine Festival: booth with public information materials available to general public.
   Susan G. Komen: booth with public information materials available to general public.
   Sponsorships: ACWA spring and winter conferences, I-215 Corridor Economic Summit, California Urban Water Conservation Council and Riverside County Water Symposium. Website: updates and revisions made to improve public information. LEGISLATIVE Lobbyist efforts: educating local legislators on future projects that affect the Southern California region, to gain support.
   Support/ opposition letters: written in support or opposition for public policy concerning the water industry. MEDIA Press releases, public service announcements and media advisories used as a medium to relay messages about the District.

3. Indicate which and how many of the following activities are included in your public information program:

<table>
<thead>
<tr>
<th>Public Information Program Activity in Retail Service Area</th>
<th>Yes/No</th>
<th>Number of Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Paid Advertising</td>
<td>yes</td>
<td>1</td>
</tr>
<tr>
<td>b. Public Service Announcement</td>
<td>yes</td>
<td>3</td>
</tr>
<tr>
<td>c. Bill Inserts / Newsletters / Brochures</td>
<td>yes</td>
<td>12</td>
</tr>
<tr>
<td>d. Bill showing water usage in comparison to previous year's usage</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>e. Demonstration Gardens</td>
<td>yes</td>
<td>0</td>
</tr>
<tr>
<td>f. Special Events, Media Events</td>
<td>yes</td>
<td>3</td>
</tr>
<tr>
<td>g. Speaker's Bureau</td>
<td>yes</td>
<td>1</td>
</tr>
<tr>
<td>h. Program to coordinate with other government agencies, industry and El</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

http://bnp.cuwcc.org/bnp/print/printall.lasso

12/1/2006
public interest groups and media

B. Conservation Information Program Expenditures
1. Annual Expenditures (Excluding Staffing)  24546.82

C. "At Least As Effective As"
1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments
Report completed by Liselle DeGrave.

http://bmp.cuwcc.org/bmp/print/printall.lasso

12/1/2006
BMP 08: School Education Programs

Reporting Unit: Rancho California Water District

BMP Form Status: 100% Complete

Year: 2006

A. Implementation

1. How is your public information program implemented? 
   Wholesaler and retailer both participate in program 
   Western Municipal Water District and Eastern Municipal Water District

2. Please provide information on your region-wide school programs (by grade level):

<table>
<thead>
<tr>
<th>Grade</th>
<th>Are grade-appropriate materials distributed?</th>
<th>No. of class presentations</th>
<th>No. of students reached</th>
<th>No. of teachers' workshops</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades</td>
<td>yes</td>
<td>85</td>
<td>2888</td>
<td>0</td>
</tr>
<tr>
<td>K-3rd</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grades</td>
<td>yes</td>
<td>35</td>
<td>2397</td>
<td>0</td>
</tr>
<tr>
<td>4th-6th</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grades</td>
<td>yes</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7th-8th</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High School</td>
<td>yes</td>
<td>0</td>
<td>80</td>
<td>0</td>
</tr>
</tbody>
</table>

4. Did your Agency's materials meet state education framework requirements? yes

5. When did your Agency begin implementing this program? 01/01/1984

B. School Education Program Expenditures

1. Annual Expenditures (Excluding Staffing) 13147.55

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" No variant of this BMP?

   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Report completed by Liselle DeGrave.

http://bmp.cuwcc.org/bmp/print/printAll.lasso

E19

12/1/2006
### BMP 09: Conservation Programs for CII Accounts

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2006

#### A. Implementation

1. Has your agency identified and ranked COMMERCIAL customers according to use?  
   - yes
2. Has your agency identified and ranked INDUSTRIAL customers according to use?  
   - yes
3. Has your agency identified and ranked INSTITUTIONAL customers according to use?  
   - yes

#### Option A: CII Water Use Survey and Customer Incentives Program

4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? If so, please describe activity during reporting period:

<table>
<thead>
<tr>
<th>CII Surveys</th>
<th>Commercial Accounts</th>
<th>Industrial Accounts</th>
<th>Institutional Accounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Number of New Surveys Offered</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>b. Number of New Surveys Completed</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c. Number of Site Follow-ups of Previous Surveys (within 1 yr)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CII Survey Components</th>
<th>Commercial Accounts</th>
<th>Industrial Accounts</th>
<th>Institutional Accounts</th>
</tr>
</thead>
<tbody>
<tr>
<td>e. Site Visit</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>f. Evaluation of all water-using apparatus and processes</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>g. Customer report identifying recommended efficiency measures, paybacks and agency incentives</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

#### Agency CII Customer Incentives

<table>
<thead>
<tr>
<th>Incentives</th>
<th>Budget ($/Year)</th>
<th># Awarded to Customers</th>
<th>Total $ Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>h. Rebates</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>i. Loans</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>j. Grants</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>k. Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Option B: CII Conservation Program Targets

http://bmp.cuwc.org/bmp/print/printall.lasso  
12/1/2006
5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option?  yes
6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings?  yes

7. **System Calculated** annual savings (AF/yr):

<table>
<thead>
<tr>
<th>CII Programs</th>
<th># Device Installations</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Ultra Low Flush Toilets</td>
<td>42</td>
</tr>
<tr>
<td>b. Dual Flush Toilets</td>
<td>0</td>
</tr>
<tr>
<td>c. High Efficiency Toilets</td>
<td>0</td>
</tr>
<tr>
<td>d. High Efficiency Urinals</td>
<td>0</td>
</tr>
<tr>
<td>e. Non-Water Urinals</td>
<td>0</td>
</tr>
<tr>
<td>f. Commercial Clothes Washers (coin-op only; not industrial)</td>
<td>0</td>
</tr>
<tr>
<td>g. Cooling Tower Controllers</td>
<td>0</td>
</tr>
<tr>
<td>h. Food Steamers</td>
<td>0</td>
</tr>
<tr>
<td>i. Ice Machines</td>
<td>0</td>
</tr>
<tr>
<td>j. Pre-Rinse Spray Valves</td>
<td>338</td>
</tr>
<tr>
<td>k. Steam Sterilizer Retrofits</td>
<td>0</td>
</tr>
<tr>
<td>l. X-ray Film Processors</td>
<td>0</td>
</tr>
</tbody>
</table>

8. **Estimated** annual savings (AF/yr) from agency programs not including the devices listed in Option B. 7., above:

<table>
<thead>
<tr>
<th>CII Programs</th>
<th>Annual Savings (AF/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Site-verified actions taken by agency:</td>
<td>0</td>
</tr>
<tr>
<td>b. Non-site-verified actions taken by agency:</td>
<td>0</td>
</tr>
</tbody>
</table>

**B. Conservation Program Expenditures for CII Accounts**

<table>
<thead>
<tr>
<th></th>
<th>This Year</th>
<th>Next Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Budgeted Expenditures</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2. Actual Expenditures</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**C. "At Least As Effective As"**

1. Is your agency implementing an "at least as effective as" variant of this BMP?  No
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**D. Comments**

RCWD as a water retailer in the Metropolitan Water District service area participates in the Save Water-Save A Buck program for CII water customers.

BMP 11: Conservation Pricing

Reporting Unit: Rancho California Water District

BMP Form Status: 100% Complete

Year: 2006

A. Implementation

Water Service Rate Structure Data by Customer Class

<table>
<thead>
<tr>
<th>Number of schedules:</th>
<th>Use of classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the following accounts, how many rate schedules does agency offer/use?</td>
<td>This agency:</td>
</tr>
<tr>
<td>1. Single-family residential</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>2. Multi-family residential</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>3. Commercial</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>4. Industrial</td>
<td>Includes customers in another class</td>
</tr>
<tr>
<td>5. Institutional/government</td>
<td>Includes customers in another class</td>
</tr>
<tr>
<td>6. Dedicated irrigation (potable water)</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>7. Other</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>8. Recycled-reclaimed water</td>
<td>Uses classification in its billing system</td>
</tr>
<tr>
<td>9. Raw water (urban use)</td>
<td>Does not offer this type of water</td>
</tr>
<tr>
<td>10. Wholesale (urban use)</td>
<td>Does not offer this type of water</td>
</tr>
</tbody>
</table>

Sewer Service

11. Does your agency provide sewer service to your water customers? yes
12. If yes, does sewer service use conservation rate structures? no
13. Has your agency made the required efforts (as prescribed in BMP 11) to have sewer services billed on conservation rates? no
14. What water agency activities have been undertaken during the reporting period to achieve waste water agency volumetric billing in your water agency service area? None

B. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as.”

C. Comments

RCWWD rate structure is actually more detailed that this report form allows. RCWWD has two divisions with two rate tiers each. The tiers are adjusted for both meter and property size. A different tiered allotment is calculated for meter size and a lot size variance is available at four progressively larger categories of lot size.

E23
**BMP 11: Conservation Pricing**

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2006

### 1.A. Single-Family Residential Rate Schedule A

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate Structure</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Water Rate Structure</td>
<td>Increasing Block</td>
<td></td>
</tr>
<tr>
<td>b. Sewer Rate Structure</td>
<td>Non-volumetric Flat Rate</td>
<td></td>
</tr>
<tr>
<td>c. Total Revenue from only Volumetric Charges</td>
<td>7964550</td>
<td></td>
</tr>
<tr>
<td>d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)</td>
<td>4428400</td>
<td></td>
</tr>
<tr>
<td>e. Total Revenue from this category</td>
<td>12392950</td>
<td></td>
</tr>
</tbody>
</table>

### 1.A. Rate Schedule - Volumetric

**Title:** Single Family 3/4 inch - Rancho Division

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>f. Billing Cycles/year</td>
<td>12</td>
</tr>
<tr>
<td>g. Service Charges/Cycle</td>
<td>12.71</td>
</tr>
<tr>
<td>h. Gallons/Bill Unit</td>
<td>748</td>
</tr>
<tr>
<td>i. Minimum Use/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>j. Non-billed Units (included in monthly service charge)</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tier</th>
<th>$/Bill Unit</th>
<th>Starting At (unit qty.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>k. Tier 1</td>
<td>.62865</td>
<td>1</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>.8146</td>
<td>525</td>
</tr>
<tr>
<td>m. Tier 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n. Tier 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o. Tier 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. Tier 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| q. Approximate quantity of meters/accounts on this rate schedule | 28706 |
| r. Are elevation charges included? | no |
| s. Approximate total annual water usage (AF) from customers on this rate schedule | 22979 |

### 1.B. Single-Family Residential Rate Schedule B

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate Structure</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Water Rate Structure</td>
<td>Increasing Block</td>
<td></td>
</tr>
<tr>
<td>b. Sewer Rate Structure</td>
<td>Non-volumetric Flat Rate</td>
<td></td>
</tr>
<tr>
<td>c. Total Revenue from only Volumetric Charges</td>
<td>2882159</td>
<td></td>
</tr>
<tr>
<td>d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)</td>
<td>1561254</td>
<td></td>
</tr>
</tbody>
</table>

E24

http://bmp.cuwcc.org/bmp/print/printall.lasso  
12/1/2006
e. Total Revenue from this category

1.B. Rate Schedule - Volumetric

Title: SANTA ROSA DIVISION - 3/4 INCH DOMESTIC

f. Billing Cycles/year
   g. Service Charges/Cycle
   h. Gallons/Bill Unit
   i. Minimum Use/Cycle
   j. Non-billed Units (included in monthly service charge)

<table>
<thead>
<tr>
<th>Tier</th>
<th>$/Bill Unit</th>
<th>Starting At</th>
</tr>
</thead>
<tbody>
<tr>
<td>k. Tier 1</td>
<td>1.02811</td>
<td>0</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>1.21406</td>
<td>525</td>
</tr>
<tr>
<td>m. Tier 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n. Tier 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o. Tier 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. Tier 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

q. Approximate quantity of meters/accounts on this rate schedule
r. Are elevation charges included?
s. Approximate total annual water usage (AF) from customers on this rate schedule

5805
no
5221

E25

http://bmp.cuwcc.org/bmp/print/printall.lasso

12/1/2006
### 2.A. Multi-Family Residential Rate Schedule A

**Title:** Multi Family Residential - Rancho Division

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>f. Billing Cycles/year</td>
<td>12</td>
</tr>
<tr>
<td>g. Service Charges/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>h. Gallons/Bill Unit</td>
<td>748</td>
</tr>
<tr>
<td>i. Minimum Use/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>j. Non-billed Units (included in monthly service charge)</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tier</th>
<th>$/Bill Unit</th>
<th>Starting At (unit qty.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>k. Tier 1</td>
<td>.62865</td>
<td>1</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>.8146</td>
<td>525</td>
</tr>
<tr>
<td>m. Tier 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n. Tier 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o. Tier 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p. Tier 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| q. Approximate quantity of meters/accounts on this rate schedule | 180 |
| r. Are elevation charges included? | no |
| s. Approximate total annual water usage (AF) from customers on this rate schedule | 1589 |

### 2.B. Multi-Family Residential Rate Schedule B

**Title:** Multi Family Residential - Rancho Division

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Water Rate Structure</td>
<td>Increasing Block</td>
</tr>
<tr>
<td>b. Sewer Rate Structure</td>
<td>Non-volumetric Flat Rate</td>
</tr>
<tr>
<td>c. Total Revenue from only Volumetric Charges</td>
<td>281198.66</td>
</tr>
<tr>
<td>d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)</td>
<td>181034.83</td>
</tr>
</tbody>
</table>

### 2.B. Rate Schedule - Volumetric

**Title:** Multi Family Residential - Santa Rosa Division

<table>
<thead>
<tr>
<th>S/Bill Unit</th>
<th>Starting At (unit qty.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.02811</td>
<td>1</td>
</tr>
<tr>
<td>1.21406</td>
<td>525</td>
</tr>
</tbody>
</table>

| j. Non-billed Units (included in monthly service charge) | 0 |

| k. Tier 1 | 6 |
| l. Tier 2 | 6 |
| m. Tier 3 | 6 |
| n. Tier 4 | 6 |
| o. Tier 5 | 6 |
| p. Tier 6 | 6 |

**q. Approximate quantity of meters/accounts on this rate schedule:**

| 169 |

**r. Are elevation charges included?**

| no |

**s. Approximate total annual water usage (AF) from customers on this rate schedule:**

| 169 |

---

_E27_  
http://bmp.cuwcc.org/bmp/print/printall.lasso  
12/1/2006
3. A. Commercial Rate Schedule A

a. Water Rate Structure
b. Sewer Rate Structure

c. Total Revenue from only Volumetric Charges
   Non-volumetric Flat Rate
   (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)
   Charges
   Total Revenue from this category
   2108081.09
   E28
   899311.66
   3007392.75

3. A. Rate Schedule - Volumetric

Title: CI1 - Rancho Division

f. Billing Cycles/year
   12

h. Gallons/Bill Unit
   748

i. Minimum Use/Cycle
   0

j. Non-billed Units (includod in monthly service charge)
   0

k. Tier 1
   .62865
   .8146
   0
   525

l. Tier 2

m. Tier 3

n. Tier 4

o. Tier 5

p. Tier 6

q. Approximate quantity of meters/accounts on this rate schedule
   1713

r. Are elevation charges included?
   no

s. Approximate total annual water usage (AF)
   3613
   from customers on this rate schedule

3. B. Commercial Rate Schedule B

a. Water Rate Structure
   Increasing Block

b. Sewer Rate Structure
   Non-volumetric Flat Rate

c. Total Revenue from only Volumetric Charges
   699103.95

d. Total Revenue from Non-Volumetric Charges
   (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.)
   450080.99

E28

http://bmp.cuwccc.org/bmp/print/printall.lasso

12/1/2006
### 3.B. Rate Schedule - Volumetric

**Title:** CLI - Santa Rosa Division

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>e. Total Revenue from this category</td>
<td>1149194.94</td>
</tr>
<tr>
<td>f. Billing Cycles/year</td>
<td>12</td>
</tr>
<tr>
<td>g. Service Charges/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>h. Gallons/Bill Unit</td>
<td>748</td>
</tr>
<tr>
<td>i. Minimum Use/Cycle</td>
<td>0</td>
</tr>
<tr>
<td>j. Non-billed Units (included in monthly service charge)</td>
<td>0</td>
</tr>
<tr>
<td>k. Tier 1</td>
<td>1.02911</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>1.21406</td>
</tr>
<tr>
<td>m. Tier 3</td>
<td>525</td>
</tr>
<tr>
<td>n. Tier 4</td>
<td>712</td>
</tr>
<tr>
<td>o. Tier 5</td>
<td>857</td>
</tr>
<tr>
<td>p. Tier 6</td>
<td></td>
</tr>
</tbody>
</table>

Starting At (unit qty.): 0

---

http://bnp.cuwcc.org/bnp/print/printall.lasso

12/1/2006
BMP 11: Conservation Pricing

Reporting Unit: Rancho California Water District

BMP Form Status: 100% Complete

Year: 2006

6.A. Irrigation Rate Schedule A

- a. Water Rate Structure: Increasing Block
- b. Sewer Rate Structure: Service Not Provided
- c. Total Revenue from only Volumetric Charges: 1022606.34
- d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.): 436245.94
- e. Total Revenue from this category: 1458852.28

6.A. Rate Schedule - Volumetric

Title: Domestic Landscape Irrigation - Rancho Division

<table>
<thead>
<tr>
<th>$/Bill Unit</th>
<th>Starting At (unit qty.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>k. Tier 1</td>
<td>.62865</td>
</tr>
<tr>
<td>l. Tier 2</td>
<td>.8146</td>
</tr>
</tbody>
</table>

- q. Approximate quantity of meters/accounts on this rate schedule: 599
- r. Are elevation charges included?: no
- s. Approximate total annual water usage (AF) from customers on this rate schedule: 1056

6.B. Irrigation Rate Schedule B

- a. Water Rate Structure: Increasing Block
- b. Sewer Rate Structure: Service Not Provided
- c. Total Revenue from only Volumetric Charges: 436245.94
- d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.): 218329.21

E30

http://bmp.cuwcc.org/bmp/print/printAll.lasso 12/1/2006
6.8. Rate Schedule - Volumetric

Title: Domestic Landscape Irrigation - Santa Rosa Division

f. Billing Cycles/year
   12

g. Service Charges/Cycle
   0

h. Gallons/Bill Unit
   748

i. Minimum Use/Cycle
   0

j. Non-billed Units (included in monthly service charge)
   0

k. Tier 1
   $/Bill Unit
   1.02811

l. Tier 2
   $/Bill Unit
   1.21406

m. Tier 3

n. Tier 4

o. Tier 5

p. Tier 6

q. Approximate quantity of meters/accounts on this rate schedule
   500

r. Are elevation charges included?
   No

s. Approximate total annual water usage (AF) from customers on this rate schedule
   964
BMP 11: Conservation Pricing

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2006

8.A. Recycled Rate Schedule A

- a. Water Rate Structure: Uniform
- b. Sewer Rate Structure: Service Not Provided
- c. Total Revenue from only Volumetric Charges: 777919
- d. Total Revenue from Non-Volumetric Charges (Includes fixed fees, surcharges, minimum usage charges, monthly service charges, meter charges etc.): 32546
- e. Total Revenue from this category: 810465

8.A. Rate Schedule - Volumetric

Title: Recycled Water - Rancho & Santa Rosa Divisions

<table>
<thead>
<tr>
<th>f. Billing Cycles/year</th>
<th>g. Service Charges/Cycle</th>
<th>h. Gallons/Bill Unit</th>
<th>i. Minimum Use/Cycle</th>
<th>j. Non-billed Units (included in monthly service charge)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>10</td>
<td>325851</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>k. Tier 1</th>
<th>l. Tier 2</th>
<th>m. Tier 3</th>
<th>n. Tier 4</th>
<th>o. Tier 5</th>
<th>p. Tier 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>192.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

q. Approximate quantity of meters/accounts on this rate schedule: 339
r. Are elevation charges included?: no
s. Approximate total annual water usage (AF) from customers on this rate schedule: 5355

http://bmp.cuwcc.org/bmp/print/printall.lasso

12/1/2006
**BMP 12: Conservation Coordinator**

**Reporting Unit:** Rancho California Water District

**BMP Form Status:** 100% Complete

**Year:** 2006

**A. Implementation**

1. Does your Agency have a conservation coordinator? **yes**
2. Is a coordinator position supplied by another agency with which you cooperate ir a regional conservation program? **no**
   a. Partner agency's name:

3. If your agency supplies the conservation coordinator:
   a. What percent is this conservation coordinator's position? **40%**
   b. Coordinator's Name **Tim Barr**
   c. Coordinator's Title **Resource Planner**
   d. Coordinator's Experience in Number of Years **15 years**
   e. Date Coordinator's position was created **01/03/2006**

4. Number of conservation staff (FTEs), including Conservation Coordinator: **3**

**B. Conservation Staff Program Expenditures**

1. Staffing Expenditures (In-house Only) **98938**
2. BMP Program Implementation Expenditures **117099**

**C. "At Least As Effective As"**

1. Is your agency implementing an "at least as effective as" variant of this BMP? **no**
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

**D. Comments**

Staff included in staffing expenditures: Tim, Liselle and Donna

**http://bmp.cuwcc.org/bmp/print/printall.lasso**

12/1/2006
BMP 13: Water Waste Prohibition

Reporting Unit: Rancho California Water District
BMP Form Status: 100% Complete
Year: 2006

A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? yes
   a. If YES, describe the ordinance:
      In June 2006, RCWD adopted a Water Shortage Contingency (WSC) Plan and recinded Resolution 91-5-8 mentioned In the report Red for FY2006. The WSC Plan identifies water supply stages and requires specific measures to prevent water waste.

2. Is a copy of the most current ordinance(s) on file with CUWCC? no
   a. List local jurisdictions in your service area in the first textbox and water waste ordinance citations in each jurisdiction in the second textbox:
      City of Temecula, City of Murrieta and the County of Riverside
      City of Temecula Development Code Chapter 17:22; City of Murrieta Ordinance 182-2; County of Riverside Code Chapter 17:296

B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area. no
   a. Gutter flooding
   b. Single-pass cooling systems for new connections
   c. Non-recirculating systems in all new conveyor or car wash systems
   d. Non-recirculating systems in all new commercial laundry systems
   e. Non-recirculating systems in all new decorative fountains
   f. Other, please name

2. Describe measures that prohibit water uses listed above:
   No ordinance specifically prohibits the above water uses at this time.

Water Softeners:
3. Indicate which of the following measures your agency has supported in developing state law.
   a. Allow the sale of more efficient, demand-initiated regenerating DIR models. yes
   b. Develop minimum appliance efficiency standards that:
      i.) Increase the regeneration efficiency standard to at least 3,300 grains of hardness removed per pound of common salt used. yes
      ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. yes
   c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater.

supply.
4. Does your agency include water softener checks in home water audit programs? no
5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. "At Least As Effective As"
1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments
None

http://bmp.cuwcc.org/bmp/print/printall.lasso
12/1/2006
# BMP 14: Residential U/LFT Replacement Programs

**Reporting Unit:** Rancho California Water District  
**BMP Form Status:** 100% Complete  
**Year:** 2006

## A. Implementation

### Number of 1.6 gpf Toilets Replaced by Agency Program During Report Year

<table>
<thead>
<tr>
<th>Replacement Method</th>
<th>Single-Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>2. Rebate</td>
<td>SF Accounts 64</td>
<td>MF Units 0</td>
</tr>
<tr>
<td>3. Direct Install</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4. CBO Distribution</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5. Other</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 64 0

### Number of 1.2 gpf High-Efficiency Toilets (HETs) Replaced by Agency Program During Report Year

<table>
<thead>
<tr>
<th>Replacement Method</th>
<th>Single-Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>7. Rebate</td>
<td>SF Accounts 0</td>
<td>MF Units 0</td>
</tr>
<tr>
<td>8. Direct Install</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>9. CBO Distribution</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10. Other</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 0 0

### Number of Dual-Flush Toilets Replaced by Agency Program During Report Year

<table>
<thead>
<tr>
<th>Replacement Method</th>
<th>Single-Family Accounts</th>
<th>Multi-Family Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>11. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>12. Rebate</td>
<td>SF Accounts 0</td>
<td>MF Units 0</td>
</tr>
<tr>
<td>13. Direct Install</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>14. CBO Distribution</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>15. Other</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total:** 0 0

16. Describe your Agency’s U/LFT, HET, and/or Dual-Flush Toilet programs for the year.
single-family residences.

IN FY 2006 MWD PROVIDED INCREASED INCENTIVES FOR HE AND DF TOILETS. IN ADDITION TO THE STANDARD ULFT REBATE, RCWD OFFERS Rebates FOR SF AND MF WATER CUSTOMERS THAT ELECT TO REPLACE NON-CONSERVING UNITS.

17. Describe your agency's ULFT, HET, and/or Dual-Flush Toilet programs for multi-family residences.

IN FY 2006 MWD PROVIDED INCREASED INCENTIVES FOR HE AND DF TOILETS. IN ADDITION TO THE STANDARD ULFT REBATE, RCWD OFFERS Rebates FOR SF AND MF WATER CUSTOMERS THAT ELECT TO REPLACE NON-CONSERVING UNITS.

18. Is a toilet retrofit on resale ordinance in effect for your service area? no
19. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures
1. Estimated cost per ULFT/HET replacement: 56

C. "At Least As Effective As"
1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
   a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

APPENDIX F

1940 STIPULATED JUDGEMENT
IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

In and For the County of San Diego

FARMINO SANTA MARGARITA
a corporation

Plaintiff

vs.

M. R. Vail, Mary Vail Wilkinson,
Mahlon Vail, Edward N. Vail,
Margaret Vail Bell, The Vail
Company, an association of persons
transacting business under that
common name, M. R. Vail, Mary Vail
Wilkinson, Mahlon Vail, Edward N.
Vail and Margaret Vail Bell, as
Trustees of said Vail Company,
Mahlon Vail, Executor of the Estate
of Margaret R. Vail, deceased, and
Laura Perry Vail, Executrix of the
Estate of William Manning Vail,
Deceased.

Defendants.

Guy Bogart, Lucy Farkman Bogart
and Fred Reinhold, Executors of
the will of Murray Schloss, de-
ceased, and Philip Playtor,

Intervenors.

No. 42850

STIPULATED JUDGMENT

This cause came on regularly for trial in the above entitled court
and department thereof on Monday, October 18, 1926, at the hour of 10:00 o'clock
A.M., before the court, Honorable L. D. Jennings, Judge, presiding; Messrs.
Hansaker, Britt and Congrove appearing as attorneys for the plaintiff, Messrs. Han-
O'Melveny, Milliken & Tuller, appearing as attorneys for defendants, and Walter
Gould Lincoln, Esq., appearing as attorney for intervenors. The introduction
of evidence, oral and documentary, being completed, arguments, oral and in
writing, having been submitted, and court having considered the same and being
fully advised in the premises, findings of fact and conclusions of law fol-

-41 -
been signed by the court and filed with the clerk thereof, and judgment on
said findings and conclusions having been signed and entered; defendants and
each of them thereon appealed from said judgment and from each part thereof;
but said interveners did not appeal from said judgment; the Supreme Court of
said State of California upon said appeal having reversed said judgment and
directed a new trial upon certain issues designated in the opinion of said
court reported Rancho Santa Margarita, a corporation, vs. Margaret R. Vail,
et al., L. A. No. 15076, 11 Cal. (2nd) 501, and said plaintiff and defendants
having stipulated to the entry of the following judgment,

Now, therefore, IT IS ORDERED, ADJUDGED AND DECREED that:

Section First: The plaintiff, Rancho Santa Margarita, a corporation,
and defendants, N. R. Vail, Mary Vail Wilkinson, Mahlon Vail, Edward N. Vail,
Margaret Vail Bell, the Vail Company, an association of persons transacting
business under that common name, N. R. Vail, Mary Vail Wilkinson, Mahlon Vail,
Edward N. Vail and Margaret Vail Bell, as Trustees of said Vail Company, Mahlon
Vail, Executor of the estate of Margaret R. Vail, Deceased, and Laura Perry Vail,
Executrix of the Estate of William Banning Vail, Deceased, and interveners, Guy
Bogart, Lucy Parkman Bogart and Fred Reinhold, Executors of the Will of Murray
Schloss, Deceased, and Philip Playtor, have and each has rights in and to the
waters of the Temecula-Santa Margarita River and its tributaries, and in and to
the use of said waters for all beneficial and useful purposes on their respective
lands herein more specifically described.

Section Second: The plaintiff is entitled to take and use upon the
whole or any part of its lands lying within the Rancho Santa Margarita y Las
Flores, San Diego County, California, sixty-six and two-thirds per cent (66 2/3\%)
of the water of said Temecula-Santa Margarita River and all its tributaries which
naturally, when not artificially diverted or abstracted, flows and descends in
the channel thereof at that certain joint gaging station hereinafter in this
judgment designated as Measuring Station No. Six (6).

Section Third: Defendants are entitled to take and use upon the whole
or any part of their lands hereinafter mentioned, thirty-three and one-third per
cent (33 1/3%) of the water of said Temecula-Santa Margarita River and all its tributaries which naturally, when not artificially diverted or abstracted, flows and descends in the channel thereof at that certain joint gaging station herein-after designated Measuring Station No. Six (6).

The lands of the defendants herein referred to consist of those certain lands in Riverside County, California, known as Pauba Grant, Lots A, B, C, and D of Little Temecula Grant, or Rancho as shown on the Wolf partition map of Little Temecula Grant as described in the final decree of partition in the case of William Wolf vs. Ramona Wolf, being Case No. 5756 of the Superior Court of San Diego County, State of California, said final decree of partition being recorded in Book 199 of Deeds, page 464, et seq., records of San Diego County, California, the southeasterly approximately one-half of Temecula Grant, excluding therefrom the town site of the unincorporated city or town of Temecula and the various parcels of land owned by persons other than the defendants herein, as shown by map entitled "Triangulation Map of Pauba Ranch and Vicinity, Riverside County" received in evidence in this case and marked "Plaintiff's Exhibit No. U-4", which exhibit has been incorporated into and constitutes a part of the Transcript on Appeal in this action (reference is hereby made to said Transcript and to said Exhibit No. U-4 and by such reference said exhibit is incorporated into and constitutes a part of this judgment), Santa Rosa Grant, and Vail government lands, which said Vail government lands, approximately four hundred sixty (460) acres in area, are more particularly described as: Those certain lands lying within sections twenty-one (21), twenty-seven (27), twenty-eight (28) and twenty-nine (29) of Township Eight (8) South, Range Two (2) West, S. B. M., Riverside County, California, and being more particularly identified as Lots Nineteen (19), Twenty (20), Twenty-one (21), Twenty-six (26), Twenty-seven (27), Thirty (30) and Thirty-one (31) of Block Fifteen (15), and those portions of Lots Seventeen (17) and Eighteen (18) of said Block Fifteen (15) lying without but contiguous to the southeasterly boundary of Lot D of said Little Temecula Grant.

Section Fourth: The intervener Philip Playtor is entitled to take and use upon the whole or any part of his lands riparian to said Temecula-Santa Margarita River, as heretofore delineated and defined, one (1) miner's inch continuous flow of the waters of said Temecula-Santa Margarita River. The lands

F4
of said Philip Playtor riparian to said river are described as follows: The
northwest one-quarter (NW¼) of the southeast one-quarter (SE¼) and the south
one-half (S½) of the south one-half (S½) of section thirty-three (33) and the
southwest one-quarter (SW¼) of the southwest one-quarter (SW¼) of section
thirty-four (34), Township Eight (8) South, Range Three (3) West, S. B. M.,
Riverside County, California.

Section Fifth: The interveners Guy Bogart, Lucy Parkman Bogart and Fred
as executors under the will of Murray Schloss, deceased, own certain
property in San Diego County, California, of which approximately twenty (20)
acres are riparian to a certain tributary of said Temecula-Santa Margarita River
by the name of Stone Creek and are susceptible of practical and profitable irri-
gation with the water of said creek, said approximately twenty (20) acres being
described as follows: The south one-half (S½) of the northeast one-quarter (NE¼)
of the northeast one-quarter (NE¼) of section four (4) Township Nine (9) South,
Range Three (3) west, S. B. M., San Diego County, in said state. Said inter-
veners are entitled to take from the surface and subsurface waters of said Stone
Creek and use the same on said twenty (20) acres riparian to said Stone Creek,
throughout said dry or irrigation season of each calendar year and from the 1st
day of May of each year until the 31st day of October of the same calendar year,
the entire flow of the waters of said Stone Creek and all its tributaries which
naturally, when not artificially diverted or abstracted, flows or descends in the
channel thereof to and upon said twenty (20) acres parcel; and are entitled to take
from said Stone Creek, during the rainy or winter season of each year, for use
upon said twenty (20) acres of riparian land for all beneficial purposes, five (5)
minter's inches continuous flow.

Section Sixth: The waters of said stream and its tributaries herein
apportioned to the interveners shall be deducted from the fractional part of the
waters of said stream herein allotted to plaintiff.

Section Seventh: For the purpose of dividing among, and allocating to,
the parties of this action, the waters of the Temecula-Santa Margarita River and
its tributaries, at the places and in the amounts specified in this judgment, the
plaintiff and the defendants immediately shall establish, and thereafter

- 44 -

Exhibit "A"
maintain jointly (unless established and/or maintained by U. S. Geological Survey, Division of Water Resources State Department of Public Works, or other public body), stream-flow (automatically registering) gaging stations at the following three locations on the Temecula-Santa Margarita River:

Station No. One (1): The upper end of Nigger Canyon at or near the present location of the Nigger Canyon gaging station;

Station No. Three (3): The upper end of Temecula Gorge, immediately downstream from the confluence of Murrieta Creek, at or near the present location of the Temecula Gorge gaging station;

Station No. Six (6): The Narrows, at or near the present location of the Yeidora gaging station.

And plaintiff and defendants shall establish and maintain jointly (unless established and/or maintained by U. S. Geological Survey, Division of Water Resources State Department of Public Works, or other public body), gaging stations for measuring (and automatically registering) the surface flow of said stream, or any of its tributaries, at any point thereon where the plaintiff, the defendants, or the interveners, or any of them, hereafter may construct or maintain appliances for the diversions of the surface flow of said stream, or any of its tributaries. (The cost of establishing and maintaining joint gaging stations as are required hereunder, including the taking of measurements and observations thereof, shall be borne equally by the plaintiff and the defendants.)

Each party shall establish and maintain meters to determine and automatically register the amount of the underground waters abstracted or diverted by such party from the underground waters of Temecula-Santa Margarita River and/or its tributaries by means of wells, either artesian or pumped (except windmill wells and/or domestic use wells of the parties and/or their tenants); such meters shall be of a type which will meet the approval of both plaintiff and defendants or the approval of either party and the engineer in charge of the Los Angeles office of the U. S. Geological Survey, and shall be installed and maintained in such manner and place as to be available for inspection by either plaintiff or defendants at all times.

Section Eighth: Whenever the total normal flow of said Temecula-Santa
Margarita River (when not artificially diverted or abstracted) measured at
gage station No. Three (3) exceeds the total normal flow measured at Gaging
Station No. Six (6), then and in that instance the flow of said stream at said
Gaging Station No. Three (3) shall be considered as the total flow of said stream,
and at such time the apportionments and allotments herein provided for shall be
predicated upon the flow of said stream at said Gaging Station No. Three (3).

Section Ninth: For the purpose of apportioning to defendants thirty-three
and one-third per cent (33-1/3%) of the waters of said stream as in Section Third
provided, it shall be deemed that an amount of water equal to one-half (1/2) the
surface flow at Station No. Six (6) or Station No. Three (3), wherever the flow
is the greater (as provided in Section Eighth), pumped and/or diverted from the
subsurface and/or surface waters of said river at points upstream from said
Station No. Three (3), shall constitute thirty-three and one-third per cent
(33-1/3%) of the waters of said stream.

It is recognized that the practical operation of the various pumping
plants upon the defendants' lands for irrigation makes it difficult, if not
impossible, for defendants to abstract and divert each day an amount of water
the exact equivalent of the proportion of the stream flow measured at Station
No. Six (6), or Station No. Three (3) to which defendants are entitled under
this decree. Accordingly, whenever it is observed that defendants are abstracting
and diverting, or have abstracted and diverted surface and/or underground waters
in amounts in excess of that to which they are entitled hereunder, defendants,
upon learning or being informed of such fact, thereupon shall reduce their
diversions below the amount to which they are entitled under this decree, and
shall continue such reduced diversions for the same period of time as near as
is practicable and in an amount equivalent to the amount of water which defendants
had diverted in excess of that to which they were entitled under this decree.

Section Tenth: In addition to the thirty-three and one-third per cent
(33-1/3%) of the waters of said stream herein in Section Third allotted to
defendants, they may also divert or abstract from the underground waters of said
Temecula-Santa Margarita River, but not from the surface waters of said stream,
at the places, during the times and upon the conditions hereinafter in this.
Section specifically set forth, but not otherwise, a specified amount of subsurface water herein in this judgment referred to as "Storage Water". The amount of Storage Water which the defendants may divert or abstract during any irrigation season shall be determined by the elevation of water (when not artificially disturbed) on May 1st of each year in a certain well located on defendants' land known as Windmill Well, in accordance with the following table:

<table>
<thead>
<tr>
<th>Depth of water below ground surface as shown in casing of Windmill Well on May 1st</th>
<th>Amount of Storage Water defendants may divert and apply to beneficial use during irrigation season</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 feet or less</td>
<td>1,500 acre feet</td>
</tr>
<tr>
<td>30 feet</td>
<td>1,250 acre feet</td>
</tr>
<tr>
<td>40 feet</td>
<td>750 acre feet</td>
</tr>
<tr>
<td>50 feet</td>
<td>375 acre feet</td>
</tr>
<tr>
<td>60 feet or more</td>
<td>No acre feet</td>
</tr>
</tbody>
</table>

At depths to water intermediate to those above stated proportionate quantities of water may be taken.

The spreading of flood water which does not involve surface impoundment (either temporary or otherwise) but which may raise the level of water in the underground basin in which said Windmill Well is drilled and upon which said well is located, shall not be considered as an artificial disturbance of the elevation of water in said Windmill Well. Storage water may be directed and used only upon said lands of defendants hereinbefore described and not elsewhere.

For the purpose of indicating the places at which said Storage Water may be pumped, reference is hereby made to "Plaintiff's Exhibit No. 265". Said Exhibit by reference has been incorporated into and constitutes a part of the Transcript on Appeal in this action. Reference is hereby made to said Transcript and to said Exhibit No. 265 and by such reference said Exhibit is incorporated into and constitutes a part of this judgment.

Shown upon said Exhibit No. 265, and extending in a generally northerly and southerly direction, is a certain line of wells (hereafter referred to as the E line of wells) designated on said Exhibit as E-3, E-2 North, E-1 North, E-1 South and E-2 South.
Easterly thereof, shown upon said Exhibit, and extending in a generally
northwesterly and southeasterly direction, is a certain line of wells (hereafter
referred to as the P.V. line of wells) designated on said Exhibit as P.V.9,
P.V.6, and P.V.6X. Immediately adjacent to said P.V. line of wells and parallel
thereto, is a certain highway commonly known as Old Warmers Ranch Road (now not
in common use).

(a) Not more than Thirty per cent (30%) of said Storage Water which
defendants are entitled to pump during any irrigation season may be pumped from
that portion of defendants' lands lying between a line drawn through said E line
of wells, and extended across said underground basin, and a line drawn through said
P.V. line of wells and extended across said basin.

(b) At least seventy per cent (70%) of said Storage Water which defendants
are entitled to pump during any irrigation season shall be pumped from that portion
of defendants' lands lying easterly of a line drawn through said P.V. line of
wells and extended across said underground basin.

The well hereinbefore described as Windmill Well is situated on Pauba
Grant South sixty-seven degrees fifteen minutes (S 67 deg. 15 min) East of B. M. 11
a distance of approximately eleven hundred (1100) feet, and South fifty-seven
degrees twenty minutes (S 57 deg. 20 min), West of B. M. 12 a distance of approxi-
mately fifteen hundred eighty (1580) feet said bench marks being designated as
Nos. 11 and 12 on said Exhibit No. 265.

Should said Windmill Well collapse or otherwise cease to be available
or useful for the purpose of determining ground water elevations in the vicinity
thereof, then another well shall be drilled by the defendants in the same
general location at approximately the same ground surface elevation above sea
level, but not to exceed a distance of one hundred (100) feet from the location
of said Windmill Well. Such new well shall be approximately the same depth and
diameter of casing as said Windmill Well. In event the parties hereto are unable
to agree upon location, depth and diameter of casing of such well, these matters,
on petition of the parties hereto or either of them, shall be determined by
order of this court.

-48-
For the purpose of determining defendants' total diversions of the waters of the Temecula-Santa Margarita River and its tributaries (meaning thereby to include both the allotment of thirty-three and one third per cent (33 1/3%) of the waters of the river as defined in Section Third, and the additional Storage Water as defined in this Section Tenth hereof), any water abstracted or diverted by defendants from the underground waters of said river (including underground basins of percolating water within the watershed of said river and its tributaries) by use of wells or pumps or other means of diversion, whether now existing or hereafter established, except as hereinafter in this section provided, shall be added to any surface diversions by the defendants from the waters of said river. Such abstractions by the defendants of the underground waters of the Temecula-Santa Margarita River are, and for all purposes of this judgment shall be (except as hereinafter provided) considered as diversions of the waters of said river, and are and shall be chargeable against the fractional part of the surface flow of said stream and the additional amount of Storage Waters herein allotted to defendants.

Water abstracted or diverted from said underground water of said river which shall not be subject to the provisions of this section are as follows:

1. Windmill well maintained by defendants for the purpose of supplying water for cattle;

2. Water used by defendants or their tenants for domestic use exclusively (but not including any irrigation use);

3. Waters which defendants may pump directly into the surface flow of said stream pursuant to the requirements of Section Eleventh hereof.

Section Eleventh:

Part I. During the irrigation season of each year, to wit, May 1 to October 31, inclusive, excepting as otherwise in Part I of this Section permitted defendants shall cause to be maintained at Gaging Station No. Three (3) a constant flow of water of not less than three (3) cubic feet per second (one (1) cubic foot per second being the equivalent of fifty (50) miner's inches).

The surface flow at said Station No. Three (3) may be permitted to...
fall below three (3) cubic feet per second during said irrigation season upon the following conditions and not otherwise:

1. Said surface flow shall not be permitted to fall below three (3) cubic feet per second for any continuous period of more than ten (10) days;

2. An interval of at least ten (10) days shall elapse between periods during which said surface flow falls below three (3) cubic feet per second;

3. Defendants shall contribute to the surface flow at Station No. Three (3), by means of pumping from Temecula Alluvial Basin, or otherwise, an amount of water equal to the amount that the actual flow during said period was less than the required flow of three (3) second feet;

4. Such contributions shall be made at the same rate and over the same period (as near as practicable) as the rate at which said surface flow was less than Three (3) second feet;

5. Such contributions shall be made immediately following the period in which said required flow of three (3) second feet was not maintained;

6. Defendants by means of pumping underground waters directly into the surface flow of the stream or otherwise during any period in which said required flow of three (3) second feet was not maintained, shall always maintain a constant surface flow at Station No. Three (3) of not less than two (2) second feet.

Part II. In the event that, during the irrigation season of any year, to wit, May 1 to October 31, inclusive, the irrigation of crops on said lands of defendants reasonably requires more water than they otherwise are entitled to take under this decree, defendants may abstract and divert underground waters only, in amounts in excess of that to which they are otherwise entitled hereunder. Such excessive diversions may be made upon the following conditions and not otherwise:

1. Excessive diversions shall not continue for a period to exceed eight (8) days consecutively;

2. Following any period of excessive diversion, an interval shall elapse before any further period of excessive diversion, which interval shall not be less than the number of days during the period of excessive diversions immediately preceding;
3. Defendants shall reduce their diversions below the amount to which
they are otherwise entitled under this decree, such reductions to be in an amount
not less than the amount of water which defendants have diverted in excess of
that to which they are otherwise entitled under this decree;

4. Such reductions of their diversions shall be made by defendants
immediately following the period during which such excessive diversions were
made and shall be completed within ten (10) days thereafter;

5. Defendants, at least one (1) day in advance of the commencement
of such diversions, shall advise plaintiff in writing of their requirements and
of their intention to avail themselves of the privilege of excessive diversions
afforded under part II of this section.

Parts I and II of this Section Eleventh are complementary one of the
other and not inconsistent one with the other and hereafter shall be so construed.
The purpose of Part I is to require defendants to maintain a constant flow at
Station No. three (3) of not less than three (3) cubic feet per second excepting
under the conditions stated when the flow may be permitted to fall below three
(3) cubic feet per second but not below two (2) cubic feet per second, and when
such diminution of the stream flow occurs the amount of such diminution shall
be contributed by the defendants by pumping directly into the surface flow of
the stream from the Temecula Alluvial Basin or otherwise. Part II permits
defendants under the conditions stated to use for short periods amounts of
water in excess of their allotment but requires them to contribute shortly
thereafter the amount of such excessive diversions by reducing (in an amount
not less than the amount of such excessive diversions) the amount of the diver-
sions to which they are otherwise entitled. No part of such excessive diversions
is required to be contributed by defendants through direct pumping from the
subsurface waters of the Temecula Alluvial Basin into the surface flow of the
stream if, during the period of such excessive diversions, the constant stream
flow at Station No. Three (3) equals or exceeds three (3) second feet.

Section Twelfth: Defendants at all times shall be entitled to divert
from the Temecula-Santa Margarita River and its tributaries, and to apply to
beneficial use upon their said lands, an amount of water equal to one-half of

- 51 -

Exhibit "A"
page 11
the amount which the plaintiff is entitled to divert from said river and its
tributaries and apply to beneficial use upon its lands.

For the purpose of determining the amount of water which defendants
are entitled to divert and apply to such beneficial use, computations of the
amount of water diverted and applied to beneficial use by each of the parties
hereto shall be made monthly, based on joint measurements maintained as herein
required. In event said measurements disclose that the amount of water which
defendants are entitled to divert and apply to beneficial use pursuant to the
provisions of this judgment is less than one-half the amount being applied to
beneficial use by plaintiff, thereupon defendants shall be entitled to increase
their diversions and applications to beneficial use to an amount sufficient to
make defendants' diversions and applications to beneficial use equal to one-half
the amount diverted and applied by plaintiff; provided, however, that such
additional diversions and applications, if made, shall be in addition
to diversions made under Sections Third and Tenth hereof, and shall be made by
defendants during the irrigation season in which such right accrues, or in the
first subsequent season, or part in the same season and the remainder in the
first subsequent season, and such diversion, if any, shall be made by pumping
from the underground Basin at points easterly from said E. V. line of wells.

Section Thirteenth: Each of the parties hereto shall have the right
to construct dams or reservoirs on its or their respective lands or elsewhere,
for the purpose of intercepting or impounding or conserving such party's share
of the flood waters of said river and its tributaries; provided, however, in
the event any such dam or reservoir is hereafter constructed by defendants for
such purpose, the rights of defendants to abstract and divert St rego Water
pursuant to Section Tenth hereof shall cease and terminate.

Defendants shall not make, during any irrigation season, any surface
diversions of the waters of said river at the Bridge Pumping Plant, the Cantarini
Pumping Plant or the Tule Pumping Plant referred to in the findings herein, or
at any other point on said Temecula-Santa Margarita River below the point of
Rising Water as shown on said Exhibit No. 265.

Section Fourteenth: The plaintiff, Rancho Santa Margarita, a corporation,
shall have and recover of and from the defendants, its costs and disbursements

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Exhibit "A"
Page 12

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herein taxed at Six Thousand Thirty-Six and 62/100 Dollars ($6,036.62).

Dated at San Diego, California, this 26th day of December, 1940.

GORDON THOMPSON
Judge

Records indicate that this judgment was recorded in San Diego and Riverside Counties on 26 December 1940.