



BLACK & VEATCH
building a world of difference™

ENERGY WATER INFORMATION GOVERNMENT

Calleguas Municipal Water District
2005 Urban Water Management Plan

B&V Project 143868.300
B&V File A
September 6, 2006

Dave Todd
Water Use Efficiency Office
Department of Water Resources
State of California
PO Box 942836
Sacramento, CA 95814

Subject: Amendment No. 1 to CMWD's 2005 UWMP

Dear Dave:

This letter serves as an amendment to Calleguas Municipal Water District's (CMWD's) 2005 Urban Water Management Plan (UWMP). The reason for this amendment is to address review comments from the California Department of Water Resources (DWR).

One of the plan requirements you indicated you would like clarification on is the review of CMWD's implementation of the 2000 UWMP. The *Guidebook to Assist Water Suppliers in the Preparation of a 2005 Urban Water Management Plan* describes this review as the following:

"Review the DMM implementation plan and the recycled water plan contained in your 2000 UWMP and discuss whether they are being implemented as planned.

If you submitted CUWCC BMP Annual Reports as part of your 2000 UWMP, discuss whether the BMPs were implemented as planned."

Chapter 4 of the CMWD's 2005 UWMP addresses this some, but it is elaborated on in more detail below.

CMWD is a member of the California Urban Water Conservation Council (CUWCC) and therefore, demand management measures (DMM) are addressed through the implementation of best management practices (BMPs). The following is a summary of the BMPs outlined in CMWD's 2000 UWMP as well as a description of how CMWD implemented these BMPs from 2000 through 2004.

It is important to note that CMWD is a wholesaler and therefore directly implements the Wholesale BMPs. It also contributes funding to its member purveyors to support implementation of the retail BMPs by those agencies. The 2000 UWMP listed three retail BMPs that CMWD supports, as summarized below.

1. Large Landscape Audits (BMP-5) – This program is designed to focus on large landscaped areas with dedicated landscape meters. The program provides a report by a qualified landscape consultant that includes an assessment of water distribution and irrigation equipment, and recommendations for potential savings.
2. Commercial, Industrial and Institutional Conservation Programs (BMP-9) – In 2000, CMWD, in conjunction with Metropolitan Water District of Southern California (MWD), was in the process of signing a three-year agreement with a vendor to manage a commercial and industrial program. The goal of this program was to encourage the replacement of fixtures at commercial sites that have the greatest potential water savings. The agreement was signed on April 13, 2005.
3. Ultra Low Flush Toilet (ULFT) and Low-Flow Showerhead Distributions and Rebates (BMP-14) – Under this program, CMWD contributes monetarily for the distribution of ULFTs and low-flow showerheads through its purveyors, as well as toward rebates for customers who purchase their choice of ULFT.

CMWD fosters implementation of the above retail BMPs through financial, technical and staff support to its member purveyors' programs. This is more accurately described as Wholesale Agency Assistance (BMP-10). CMWD contributed annually the following amounts for BMP-10:

2000	\$32,543
2001	\$44,433
2002	\$81,928
2003	\$55,951
2004	\$155,974

In addition to Wholesale Agency Assistance, CMWD has also implemented the following wholesale BMPs not discussed in the 2000 UWMP:

1. System Water Audits, Leak Detection and Repair (BMP-3) – Water losses are well below one percent in the CMWD system thanks to careful auditing of water purchases, sales and internal metering. Excellent maintenance makes leaks rare. When they occur, monitoring of the 144 miles of pipeline promptly reveals them and they are quickly repaired. CMWD spent the following annual amounts on monitoring and audits:

2000	\$92,955
2001	\$93,125
2002	\$93,465
2003	\$150,000
2004	\$150,000

2. Public Information Programs (BMP-7) – CMWD actively advocates conservation with information posted on its website, tours of its facilities, classroom presentations and speaking engagements. Expenditures in this manner since 2000 amount to:

2000	\$7,382
2001	\$3,561
2002	\$2,362
2003	\$2,685
2004	\$41,670

3. School Education Programs (BMP-8) – CMWD, in conjunction with MWD, offers a variety of school education programs throughout CMWD's service area, including teacher in-service workshops and classroom presentations. The purpose of these programs is to educate children on water resource issues. CMWD contributed annually the following amounts for this program:

2000	\$235
2001	\$1,487
2002	\$10,555
2003	\$7,086
2004	\$7,760

4. Conservation Pricing (BMP-11) – CMWD utilizes an inclining block rate structure, which means that the price of water increases with quantity.

5. Conservation Coordinator (BMP-12) – CMWD employs a full-time Conservation Coordinator as an advocate of conservation, coordinator of District conservation activities and assistant to member purveyors. Annual expenditures on this program are:

2000	\$25,096
2001	\$22,838
2002	\$31,889
2003	\$40,863
2004	\$44,510

Very Truly Yours,



Lela Perkins, P.E.

cc: Cy Johnson, CMWD
Eric Bergh, CMWD
Sergio Fierro, DWR
Klint Reedy, B&V