

Appendix A

Public Outreach Materials

- Meeting 1 Materials
- Meeting 2 Materials
- Meeting 3 Materials
- Meeting 4 Materials
- Meeting 5 Materials
- Meeting 6 Materials
- Meeting 7 Materials
- Meeting 8 Materials
- Notification of Urban Water Management Plan Update to Water Use Agencies and Land Use Agencies

Public Meetings

Public Meeting No. 1

Meeting Agenda

Project: RUWMP for the San Bernardino Valley
Subject: Regional Urban Water Management Plan Kickoff Meeting

Date: April 20, 2010
Time: 2 pm to 3:30 pm
Location: Valley District Board Room

1. Introductions
2. Requirements of an Urban Water Management Plan
 - a. Major Contents
 - b. Required Coordination and Notification
 - c. Process and Timelines
 - i. Pending Legislation Affecting Due Dates (AB 2776 and SB 1478)
 - d. Penalties
3. New Requirements of Urban Water Management Plans (different for wholesalers and retailers)
 - a. Reporting on Demand Management Measures per UWMP Act and AB 1465 (Hill)
 - b. 20% by Year 2020 (SBX7 7)
 - i. Selection of calculation option(s)
 - ii. ACWA proposal for "Option 4"
 - c. AB 1420 (not a requirement, but beneficial to include)
 - d. Notification requirements
 - e. Projections of water use for lower income households
4. Data Needed
 - a. Participating
 - i. 2010 UWMP Data Form
 - ii. 2010 DMM Data Form
 1. Table 1
 2. Table 2 plus DWR Sheet 2
 - b. Non-Participating
5. Schedule
 - a. Dealing with Uncertainty of Upcoming Guidelines
 - b. Upcoming Meetings and Meeting Topics
6. Other

Meeting Time: 2PM to 3:30PM **Page:** 1 of 3
Meeting Location: Valley District Office **Date:** 21 April 2010
Meeting Date: 20 April 2010 **K/J Job No.:** 1089014.00
Project: RUWMP San Bernardino Valley

Persons Attending:

<i>Kennedy/Jenks</i>	<i>Client/Contractor</i>	<i>Other</i>	<i>Organization</i>
Lynn Takaichi	Mike Medina		City of Colton
Meredith Clement	Russ Handy		City of Loma Linda
Leila Khatib	T. Jarb Thaipejr		City of Loma Linda
	Woody Hynes		City of Redlands
	Ron Buchwald		East Valley Water District
	Don Hough		Riverside Highlands Water Company
	Thomas Crowley		West Valley Water District
	Jennifer Ares		Yucaipa Valley Water District
		Claud Seal	San Bernardino Valley Water Conservation District
		Jeff Davis	San Gorgonio Pass Water Agency
		Linda Jadeski	Engineering Resources (w/West Valley)

Subject:

Kickoff Meeting – UWMP Requirements and Data Request

- 1) Introductions
- 2) Realizing that the deadline to submit 2010 UWMPs has been extended for retail water agencies (and likely for wholesale agencies pending legislation) to July 2011 and that the 2010 guidelines have not yet been released, the question was asked whether we would be wise to wait and start our plan after we receive the guidelines. Kennedy/Jenks explained that the new legislation does not take anything away from the prior legislation but, instead, adds some notification requirements and the 20% by 2020 requirement. Thus, the plan is to proceed with the known requirements of the prior legislation while we await the requirements of the more recent legislation.
- 3) Kennedy/Jenks reviewed requirements of an UWMP, including requirements mandated by legislation such as AB1465, SBx7-7, and AB1420. Presentation materials are available through the project Extranet site.
- 4) Particular time was given to a discussion on how to comply with SBx7-7’s 20x2020 plan. The group reviewed the options for calculating base gross water use as well as the options for calculating water use reduction targets. There are four methodologies for calculating reduction targets, one of which (“Method 4”) is under development by the Department of Water Resources. The group also received an overview of the proposed Method 4 put forward by the Association of California Water Agencies.

Clarification from the meeting. There was a specific question related to what should be included in the base gross water use calculation. The specific question related to a well that

was not being operated because the water from the well was too high in fluoride to use for potable water. The intent is to eventually use water from this well for an agricultural use. Does this well's water need to be included in the base gross water use calculation? Does non-potable water need to be included in the calculation? Does agricultural water need to be included in the calculation?

From Senate Bill 7 "Gross Water Use" means the total volume of water, whether treated or untreated entering the distribution system of an urban retail water supplier excluding:

- Recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier.
- The net volume of water that the urban retail water supplier places into long-term storage;
- The volume of water the urban retail water supplier conveys for use by another urban water supplier; and
- At the retailers discretion, water delivered for agricultural use

It's at the discretion of the retailer whether or not to include water delivered for agricultural in their base gross water use calculation. Obviously it seems like an advantage to include ag water use because it will raise the base gross water use figure, potentially making it easier to meet the demand reduction targets. **But there is a down side** - if a retailer decides to include ag water use in the base gross water use calculation that retailer must use Method 2 to calculate their demand reduction targets. Under Method 2 targets are set as follows: 55 gpcpd for indoor residential use, landscape irrigation set at 0.7 to 0.8 ETo, a 10 percent reduction in base CII use, and an ag water use standard of 100 percent reference evapotranspiration multiplied by the crop coefficient for irrigated acres.

The specific language is found in Senate Bill 7, Chapter 4, Section 10608.24 subsection (f):

"An urban retail water supplier that includes agricultural water use in an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) may include the agricultural water use in determining gross water use. An urban retail water supplier that includes agricultural water use in determining gross water use and develops its urban water use target pursuant to paragraph (2) of subdivision (b) of Section 10608.20 shall use a water efficient standard for agricultural irrigation of 100 percent of reference evapotranspiration multiplied by the crop coefficient for irrigated acres."

In short, including ag water in your base gross water use greatly complicates the calculation of water reduction targets and may result in unreasonably low targets.

- 5) Kennedy/Jenks and the group went over the data collection sheets (all data collection sheets are available on the Extranet site). Data collection sheets need to be completed by all retailers (except Riverside Highlands Water Company, City of Redlands, and Yucaipa Valley Water District) by June 1, 2010. Retailers should provide information as it becomes available, rather than waiting until June 1.
- 6) A template was provided to those retailers (Riverside Highlands Water Company, City of Redlands, and Yucaipa Valley Water District) preparing their own chapters of the RUWMP. This template is available on the Extranet site.

7) The next meeting is scheduled on June 9 from 2pm to 3:30pm at the Valley District offices.

The table below includes action items from the meeting:

Action Item/Task	Due Date	Responsible Party
Complete Data Collection Sheets. Load data and references to Extranet site.	June 1, 2010	City of Loma Linda City of Colton East Valley Water District San Bernardino Municipal Water Dept. West Valley Water District
Complete Regional Water Supply Outlook	June 1, 2010	Kennedy/Jenks
Complete DMM Data Collection Sheet, Table 2. Complete DWR Sheet 2 pages 13-14.	June 1, 2010	Valley District
Complete Individual Agency Chapters	October 1, 2010	Riverside Highland Water Company City of Redlands Yucaipa Valley Water District

Distribution: Team
Extranet

By: Meredith Clement

2010 Urban Water Management Plan



Regional Urban Water Management Plan San Bernardino Valley

April 2010

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Requirements of an UWMP

❖ Major Contents

- UWMP Act applies to all CA water suppliers with 3,000 or more service connections or selling at least 3,000 afy (retail or wholesale)
- Main focus: to identify gaps between supply and demand through time (20-year analysis required)
- UWMP must describe how demand will be met through time, in all hydrologic year types (normal, multiple dry, critical dry)

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Requirements of an UWMP

❖ Major Contents (cont'd.)

- Requires detailed description of all supply sources (surface, recycled, groundwater)
- Water quality problems
- Demand Management Measures (water conservation programs)
- Water shortage contingency planning
- Must update every five years, in years ending in 5 and 0 (such as 2010).

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Requirements of an UWMP

❖ Required Coordination and Notification

“Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practical”

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Requirements of an UWMP

❖ Required Coordination and Notification

Other:

- Must hold public hearing prior to adoption of UWMP
- Must give cities and counties in service area 60 days notice prior to public hearing
- Must provide cities and counties in service area with copies of UWMP within 30 days of adoption

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Requirements of an UWMP

❖ Timelines

- SBx7-7 extended UWMP deadline to July 1, 2011 for retailers. SBx7-7 silent on extension for wholesalers.
- Under current UWMP Act, wholesalers should complete UWMP by December 31, 2010. But “cleanup legislation” (AB 2776 and SB 1478) anticipated that will extend deadline to July 1, 2011 for wholesalers.
- Due to recent legislative amendments, DWR has not prepared 2010 guidebook – guidebook not anticipated until late 2010!
- DWR direction is to use 2005 guidebook in the interim

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Requirements of an UWMP

- ❖ Penalties
 - Ineligible for State Grant and Loan Funding (at least until plan completed to DWR satisfaction)
 - Interested persons could pursue litigation for failure to comply with UWMP Act

New UWMP Requirements

- ❖ New Law: SBX7-7 ("20% x 2020"), reporting starts with 2010 UWMPs
 - Base gross water use in gpcd: must be calculated using one of three methodologies
 - Target reduction from base by 2020: must be calculated using one of four methodologies
 - Agencies must hold public hearing to explain how targets will be met (can be held as part of UWMP hearing)

Requirements of an UWMP

- ❖ Q&A/Discussion

New UWMP Requirements

- ❖ Base gross water use in gpcd: calculation
Total volume of water (treated or not) entering the retail distribution system, divided by the total population of the service area
(Excludes: recycled water, net volume into long-term storage, water conveyed to another retailer, agricultural water)

New UWMP Requirements

- ❖ Base gross water use in gpcd: methodologies
 - 10-year average
 - ending no earlier than 2004 – no later than 2010
 - 15-year average if 10% of 2008 demand met by recycled water
 - get to add 5 years to calculation
 - 5-year average if agency is already close to target
 - 100 gpcd; at least 5% reduction
 - ending no earlier than 2007 – no later than 2010

New UWMP Requirements

- ❖ Base gross water use in gpcd
 - Averages are determined on a rolling basis
 - Should review demands over various periods to determine hydrologic and demand year types
 - Should choose a high demand period so that reduction target is easier to achieve
 - Recent economic impacts and drought response may have reduced demand!

New UWMP Requirements

❖ Base gross water use in gpcd: iterative approach

Example:

	Yr. 1 (1996)	Yr. 2 (1997)	...Yr. X	Yr. 10 (2006)	AVG
DEMAND (GPCD)	150	195	200	195	X GPCD

	Yr. 1 (1997)	Yr. 2 (1998)	...Yr. X	Yr. 10 (2007)	AVG
DEMAND (GPCD)	200	250	195	225	X GPCD

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New UWMP Requirements

❖ Target reduction methodology options

- 20% reduction from base (i.e., 80% of average gross water use in gpcd)
- Combination of state standards:
 - 55 gpcd indoor residential + landscape use at 70% -80% ETo + 10% reduction in commercial/industrial/institutional use
- DWR 20x2020 hydrologic region target (So. Coast region = 149 gpcd)
- Option to be developed by October 2010

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New UWMP Requirements

❖ Reduction Target Option 4

- Subject to DWR public process during 2010
- Will identify targets to achieve cumulative statewide 20% reduction
- Must allow flexibility for water supplier service area characteristics
- Will derive methodologies for calculations: population, base water use, gross water use, sector water use, others

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New UWMP Requirements

❖ Reduction Target Option 4 Issues

- If DWR derives new methodology standards, agencies may be required to use them
- Won't be final until October 2010 (ps. December)
- If work has already been done, it may need to be repeated
- If agency has already adopted UWMP, it may need to be amended

= Reason for UWMP deadline extension to July 1, 2011

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New UWMP Requirements

❖ ACWA Proposal for Option 4

- Relies on comparison to a Reference Area (an area that has met/nearly met hydrologic region target).
- For Reference Area DWR to:
 - determine population-weighted gpcpd uses for CII, residential indoor, and residential outdoor
 - calculate population weighted evapotranspiration
 - Calculate per capita residential landscape area

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New UWMP Requirements

❖ ACWA Proposal for Option 4

- Retailer - Estimate baseline urban CII use, residential indoor use, and residential outdoor use.
- Retailer – Estimates water use targets adjusting for
 - Ratio of its ETo vs Reference Area
 - Ratio of per capita landscape area vs Reference Area
 - 95% baseline residential indoor water use
 - 90% baseline CII use

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New UWMP Requirements

- ❖ Other
 - SB 1087 (Florez) - requires an UWMP to include projected water use for single-family and multi-family residential housing for lower income households as identified in the housing element of any city, county, or city and county in the service area of the supplier.

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New UWMP Requirements

- ❖ Questions/Discussion

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Data Needed to Complete RUWMP

- ❖ Participating agencies
 - Complete individual agency chapter using template or
 - Complete:
 - 2010 UWMP Data Form
 - 2010 DMM Data Form
 - Table 1 or
 - Table 2 plus DWR Sheet 2

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Data Needed to Complete RUWMP

- ❖ Non-Participating agencies
 - Complete 2010 UWMP Data Form

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Data Needed to Complete RUWMP

- ❖ Questions/Discussion

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Schedule

- ❖ Kickoff Meeting – April 20
- ❖ Purveyors Provide Data – June 1, 2010
- ❖ K/J Develops Regional Supply Outlook – June 1, 2010
- ❖ K/J Evaluates Water Efficiency Programs – October 2010
- ❖ Anticipated 20x2020 guidance, UWMP Guidebook – November 2010
- ❖ K/J prepares Admin Draft RUWMP – February 2011
- ❖ K/J prepared Draft RUWMP – March 2011
- ❖ Adoption of RUWMP by agencies – May 2011
- ❖ Submit RUWMP to DWR – June 2011

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Meetings

- ❖ Kickoff Meeting – April 20
- ❖ Regional Water Resources Outlook – June 2010
- ❖ Review of Retailer Projections – August 2010
- ❖ Review of 3 Individual Agency Chapters – September 2010
- ❖ Review of 2 Individual Agency Chapters – October 2010
- ❖ Review of DWR 20x2020 Guidance and UWMP Guidelines – November 2010
- ❖ Review of Admin Draft RUWMP – December 2010

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Meetings

- ❖ Pick Future Meeting Day and Time

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Extranet/Website

- ❖ Contents
 - Announcements
 - Contacts
 - Shared Documents
 - Meetings
 - Data from Retailers
 - Regional Data
 - Documents for Review
 - Completed Documents
 - Other

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Public Meeting No. 2

Meeting Agenda

Project: RUWMP for the San Bernardino Valley
Subject: Regional Urban Water Management Plan Meeting #2

Date: June 9, 2010
Time: 2 pm to 3:30 pm
Location: Valley District Board Room

1. Introductions
2. Update on Development of UWMP Guidelines
3. Regional Water Supply Outlook
 - a. Imported
 - b. Groundwater
 - c. Recycled
4. Water Demand Estimates and Assumptions of Retailers
5. Review of RUWMP Upcoming Tasks and Schedule
 - a. Missing Data
6. Schedule Next Meeting

Meeting Time: 2PM to 3:30PM **Page:** 1 of 4
Meeting Location: Valley District Office **Date:** 11 June 2010
Meeting Date: 9 June 2010 **K/J Job No.:** 1089014.00
Project: RUWMP San Bernardino Valley

Persons Attending:

<i>Kennedy/Jenks</i>	<i>Client/Contractor</i>	<i>Other</i>	<i>Organization</i>
Mary Lou Cotton	Mike Medina		City of Colton
Meredith Clement	Russ Handy		City of Loma Linda
	Chris Diggs		City of Redlands
	Woody Hynes		City of Redlands
	Peter Fox		City of Rialto
	Greg Gage		City of San Bernardino
	Ron Buchwald		East Valley Water District
	Linda Jadeski		West Valley Water District
	Jennifer Ares		Yucaipa Valley Water District

Subject:

Update on UWMP Guidelines, Regional Water Supply Outlook, Individual Agency Data and Projections

- 1) Introductions
- 2) The Department of Water Resources has convened various committees and groups to address various aspects of SBx7-7. To date, DWR and the various groups have raised the issue of how to calculate:
 - a) base gross water use,
 - b) service area population,
 - c) base daily per capita use,
 - d) compliance daily per capita use,
 - e) landscape area water use,
 - f) baseline CII use,
 - g) compliance year adjustment criteria,
 - h) indoor residential use, and
 - i) Reduction Target Option 4

At the time of the Kickoff Meeting, it was anticipated that the methodologies for calculating current water use (in gallons per capita per day) and targeted water use would not be well developed until October 2010. DWR is now stating that some of these methodologies won't be finalized until December 2010. In addition, DWR has indicated that they may proscribe the manner for calculating service area population. This raised concerns among the group because the calculation of service area population will affect the water demand projections as well as the reduction target. The group asked Kennedy/Jenks to redo the schedule so that work related to

population estimates, demand projections, and reduction targets will occur after more concrete guidance is provided by DWR. In the near future, work should focus on demand management measures, recycled water and supply projections.

- 3) Kennedy/Jenks had taken a rough look at the regional water supply outlook based on data provided by the retailers, the 2009 DWR Supply Reliability Study, and the 2007 IRWMP. The data emphasized the need to implement conservation. However, it was determined that some of the data used was old. Valley District will provide K/J with the most up to date (Nov 2008) water budget.
- 4) The group went over the data provided by the retailers, specifically:
 - a) Population projections
 - b) Water demand estimates
 - c) Water supply reliability

The intent of the discussion was to review the various data sources and methodologies and to decide if the group wanted all agencies to use similar data sources and methods. With regard to population projections some agencies had used 2004 SCAG projections, some used 2008 SCAG projections, some agencies used number of connections and an estimate of persons per connection, some applied a long-term growth rate. The group agreed that using number of connections and assumed estimates of persons per connection was probably the best method for calculating past service area population because connection data is readily available and works even for those agencies whose service area includes multiple jurisdictions. To estimate future population, a long-term growth rate could be applied to the assumed year 2010 population. The long-term growth rate could come from the Department of Finance. The Department of Finance provides growth projections for cities as well as the unincorporated county. However, because there is uncertainty about whether or not DWR will proscribe a method for calculating population, the group decided to postpone population estimates until DWR has made a decision. Because assumptions about population will also affect water demand estimates, this topic will also be postponed.

In order for the UWMP to be of the most use to the retail agencies, entities should include the demands of potential developments in their water demand projections. These potential developments and their associated water use should be detailed to the extent possible. In this manner the UWMP will simplify future Water Supply Assessments.

Many agencies have assumed water quality will not affect water supply reliability. However, water quality is expected to necessitate treatment. In order to demonstrate that water quality will not affect the reliability of the water supply it will be necessary for the UWMP to discuss the potential contaminants and to detail the proposed treatment method, schedule for treatment, and associated costs.

Within the materials submitted by the retailers, commonly missing data includes:

- a) Year 2035 population, year 2035 demand projections, and year 2035 water supply
- b) Water demands of low income households
- c) Legal, economic, and other justification for not implementing DMMs.

The group has decided to hold off on additional work related to 2035 population and demand projections until additional guidance is provided by DWR. Kennedy/Jenks will work with Valley District to develop the year 2035 water supply.

Senate Bill 1087 created the requirement for agencies to evaluate the current and future amount of

water needed by low income communities. The definition of low income communities is supposed to come from the applicable general plan. However, Kennedy/Jenks is finding that general plans typically do not define low income communities nor provide information on the location of these communities. Kennedy/Jenks is proposing language similar to the following to comply with SB 1087:

“Senate Bill 1087 requires that water use projections of a UWMP include the projected water use for single-family and multi-family residential housing for lower income households as identified in the housing element of any city, county, or city and county in the service area of the supplier. The name of entity last updated its housing element in year. The name of entity's housing element does not identify the number or specific location of low income households in the service area of name of entity. Nor does the housing element project the number or location of low-income households in the future. For this reason, it is not possible to project water use for lower income households separate from overall residential demand. However, the name of entity will not deny or condition approval of water services, or reduce the amount of services applied for by a proposed development that includes housing units affordable to lower income households unless one of the following occurs:

- the name of entity specifically finds that it does not have sufficient water supply
- the name of entity is subject to a compliance order issued by the State Department of Health Services that prohibits new water connections
- the applicant has failed to agree to reasonable terms and conditions relating to the provision of services”

The group will discuss the appropriate justifications and calculations needed for any DMMs not implemented during the upcoming DMM workshop.

- 5) A question arose at the meeting about what specific information is needed to address “Catastrophic Supply Interruption” within the RUWMP. Many agencies have large unwieldy documents and want to avoid having to upload such large files. Within an UWMP the water code requires an agency to describe the 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. Catastrophic events are non-drought related. For our RUWMP we will need to be able to describe the vulnerabilities of each water supply source (e.g., water treatment plant vulnerable during heavy flooding) and a summary of the plans in place to minimize the impacts of supply interruption on your service area (e.g., have intertie to, and have contracted with, adjacent agency to use water from their WTP). We need enough information to demonstrate that your agency has a plan in place, we do not need to detail the specific types of equipment, details on intertie pipelines, etc.
- 6) The next meeting will be a workshop focused on DMMs. This meeting has been scheduled on July 19, 2010 from 10 am to 2 pm in the Board Room of Valley District.
- 7) The table below includes action items from the meeting:

Action Item/Task	Due Date	Responsible Party
Add link to DWR/UWMP Guidelines Materials to the RUWMP Extranet	June 10, 2010	Kennedy/Jenks
Revised RUWMP Schedule	June 17, 2010	Kennedy/Jenks
Outline specific information needed to address catastrophic supply interruption within the UWMP (see Item 5 above)	June 17, 2010	Kennedy/Jenks
Review data provided by Loma Linda (2010 UWMP form)	June 20, 2010	Kennedy/Jenks
Complete Regional Water Supply Outlook (Water	Sept 8, 2010	Kennedy/Jenks

Meeting Memorandum No. 2
RUWMP San Bernardino Valley
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Budget)		
Complete Individual Agency Chapters	January 10, 2011	Riverside Highland Water Company City of Redlands Yucaipa Valley Water District

“

Distribution: Team
Extranet

By: Meredith Clement

Regional Urban Water Management Plan San Bernardino Valley



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Kennedy/Jenks
Consultants

Outline

- ❖ Introductions
- ❖ Update on Development of UWMP Guidelines
- ❖ Regional Water Supply Outlook
- ❖ Water Demand Estimates and Assumptions
- ❖ Review of RUWMP Upcoming Tasks and Schedule
 - Next meeting

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Kennedy/Jenks
Consultants

Update on Guidelines

SBx7-7

- ❖ DWR has convened the Urban Stakeholder Committee ("USC")
 - Co-chaired by DWR and CUWCC
- ❖ Has formed an Agency Team: DWR, SWRCB, CPUC, CDPH, CBDA, USBR
- ❖ Has hired a consultant team (mainly economists and statisticians)

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Kennedy/Jenks
Consultants

Update on Guidelines

SBx7-7

- ❖ USC had two meetings to date
- ❖ Members have agreed to a Charter regarding their charge (per statute), facilitated consensus-based process and input to methodologies
 - Note: "DWR may accept or modify, or may not follow, the recommendations of the USC...as it prepares final documents or final products."

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Kennedy/Jenks
Consultants

Update on Guidelines

SBx7-7

- ❖ DWR has defined several technical methodologies efforts, based on statute
- ❖ DWR Legal has reviewed statute and provided guidance to DWR staff and consultant team
- ❖ Developed a set of Issue Papers for each methodology in statute
- ❖ Has created groupings according to task:

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Kennedy/Jenks
Consultants

Update on Guidelines

SBx7-7

- ❖ US:
 - Gross water use
 - Service area population*
 - Base daily per capita use*
 - Compliance daily per capita use
 - Landscape area water use
 - Baseline CII use
 - Compliance year adjustment criteria*
 - Indoor residential use
- *significant issue

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Kennedy/Jenks
Consultants

Update on Guidelines

SBx7-7

- ❖ U4: Target Reduction Option 4
 - Proposal from ACWA
 - Pending proposal from CUWCC
 - DWR/Consulting Team proposal
- ❖ U4 Workgroup (voluntary) set up, will focus on how to formulate methodology
 - Note: *comments at last USC meeting showed difference between DWR and stakeholder approaches to Option 4*

Update on Guidelines

SBx7-7

- ❖ U5: Process Water
- ❖ U6 TBP:
 - Guidance for Regional UWMPs and Conservation Target Reductions

Update on Guidelines

SBx7-7

- ❖ Tentative Schedule:
 - June 22 USC and U4 Meetings at IEUA
 - July: USC and U4 Meetings TBD
 - August: **U3 Public Workshops (mid-late Aug)** and USC Meeting
 - September USC Meeting
 - October 1 finalize U3 methodologies, **U4 Public Meetings/Comment Period**
 - November USC Meeting
 - December 31 U4 method finalized

Update on Guidelines

- ❖ ALL MEETINGS ARE OPEN TO PUBLIC
- ❖ Website contains all materials:
<http://www.dwr.water.ca.gov/wateruseefficiency/sb7/>

Update on Guidelines

- ❖ Questions?

Outline

- ❖ Introductions
- ❖ Update on Development of UWMP Guidelines
- ❖ **Regional Water Supply Outlook**
- ❖ Water Demand Estimates and Assumptions
- ❖ Review of RUWMP Upcoming Tasks and Schedule
 - Next meeting

Regional Water Supply Outlook

Imported Water

Imported Supplies	Table A Amount	Average Reliability	Multi-Year Drought	Single-Year Drought
Valley District Supplies Shown in 2007 IRWMP	102,400	77% 79,000 AF	39% 40,000 AF	21% 21,500 AF
Valley District Supplies, Based on 2009 DWR Supply Reliability Report*	102,400	60% 61,400 AF	32% 32,800 AF	7% 7,200 AF

* Single-Dry Year based on repeat of 1977 hydrologic conditions, Multiple-Dry Year based on repeat of 1987 to 1992 hydrologic conditions

Regional Water Supply Outlook

Groundwater

Groundwater Basin	Management	Issues Affecting Reliability
San Bernardino Basin Area	Western Judgment, recharge by Valley District, Conservation District, and others	Contaminant plumes requiring wellhead treatment
Rialto-Colton	Western Judgment, replenishment as needed by Valley District	Perchlorate plume requiring treatment
Yucaipa	Recharge by YVWD with recycled water and purchased water	High nitrate levels
Riverside-North	Western Judgment, replenishment as needed by Valley District	Perchlorate plumes requiring treatment

Regional Water Supply Outlook

Groundwater – Normal Year

	2005	2010	2015	2020	2025	2030
SBBA Groundwater	193,100	193,100	193,100	193,100	193,100	193,100
SBBA Return Flow from Extractions above safe yield ¹	8,400	9,500	15,485	19,260	21,845	22,950
SBBA return flow from SWP deliveries ¹	1,000	5,000	5,130	5,220	4,930	4,930
Rialto-Colton Groundwater	17,300	17,300	17,300	17,300	17,300	17,300
Riverside North Groundwater	9,000	9,000	9,000	9,000	9,000	9,000
Yucaipa Groundwater	10,000	10,000	10,000	10,000	10,000	10,000
Other Groundwater	8,700	8,800	8,300	8,700	9,000	9,300
Groundwater Total	247,500	252,700	258,315	262,580	265,175	266,580

¹ Data from 2007 IRWMP but assumes conservation of 5% in year 2015, 10% in year 2020, 15% in year 2025 and onward.

Regional Water Supply Outlook

Groundwater – Dry Years

- In Single-Dry Year, SWP supplies could be as low as 7,200 AF. Need to maintain groundwater credits and infrastructure to pump, treat, and deliver groundwater in the event of a severe Single-Dry Year.
- ❖ In Multiple-Dry Year, SWP supplies anticipated to be 32,800 AF for up to 5 years. Groundwater credits sufficient through year 2020, after year 2020 conservation of up to an additional 20% needed.

Regional Water Supply Outlook

Recycled Water

- ❖ No new recycled water projections provided, should 2007 IRWMP projections be used?

Agency	2005	2010	2015	2020	2025	2030	2035
San Bernardino MWD	0	800	800	800	800	800	?
Yucaipa Valley WD	1,300	2,500	3,800	5,000	5,500	6,000	?
West Valley WD	900	3,700	3,700	3,700	3,700	3,700	?
Total	2,200	7,000	8,300	9,500	10,000	10,500	?

From 2007 IRWMP

Regional Water Supply Outlook

Summary

- ❖ Conservation is needed in order to ensure long-term water demands do not exceed anticipated supplies
 - Law requires reduction of 10% in gpcpd by 2015 and 20% in gpcpd by year 2020
- ❖ Aggressive conservation or new supplies needed in the event of a multi-year drought year 2020 and later
- ❖ Need to maintain groundwater credits
- ❖ Need to maintain groundwater infrastructure

Outline

- ❖ Introductions
- ❖ Update on Development of UWMP Guidelines
- ❖ Regional Water Supply Outlook
- ❖ **Water Demand Estimates and Assumptions**
- ❖ Review of RUWMP Upcoming Tasks and Schedule
 - Next meeting

Water Demand Estimates and Assumptions

- ❖ See Handout
- ❖ Source of population estimates varied
 - used SCAG 2004, 2008 projections
 - used number of connections
 - used long-term average growth rate
- ❖ Water demand estimate methodology varied
 - most common method - take population assumption and apply a demand factor of between 200 to 250 gallons per capita per day
 - West Valley and San Bernardino MWD considered future land uses and known developments

Water Demand Estimates and Assumptions

- ❖ Assumed water supply reliability varied
 - some agencies assumed no shortage
 - range of 45-100% reliable supply in single-dry or multiple-dry year
 - no agency identified water quality as cause of water shortage

Water Demand Estimates and Assumptions

- ❖ Commonly missing data
 - Year 2035 population, water supply, and demand projections
 - Water demands of disadvantaged communities
 - Legal, economic, and other justification for not implementing DMMs

Outline

- ❖ Introductions
- ❖ Update on Development of UWMP Guidelines
- ❖ Regional Water Supply Outlook
- ❖ Water Demand Estimates and Assumptions
- ❖ **Review of RUWMP Upcoming Tasks and Schedule**
 - Next meeting

RUWMP Upcoming Tasks

- ❖ Kennedy/Jenks developing water supply and demand estimates
- ❖ Kennedy/Jenks evaluating agency DMMs for UWMP and AB 1420 compliance
- ❖ Next meeting proposed to be workshop to review DMMs

Public Meeting No. 3

Workshop Agenda

Project: RUWMP for the San Bernardino Valley
Subject: Preparing the Demand Management Measures Section of the 2010 Urban Water Management Plan

Date: July 19, 2010
Time: 10 am to 2 pm
Location: Valley District Board Room

1. New legislation and the UWMP requirements
2. UWMP background
3. DMMs: requirements, compliance, implementation options and exemptions
4. Getting it done: assessing activity levels, options for compliance and developing implementation plans
5. Breakout sessions: status updates, FAQs, discussion of case-specific questions, problems and issues

Meeting Time: 10 AM to 2 PM **Page:** 1 of 5
Meeting Location: Valley District Office **Date:** 21 July 2010
Meeting Date: 19 July 2010 **K/J Job No.:** 1089014.00
Project: RUWMP San Bernardino Valley

Persons Attending:

<i>Kennedy/Jenks</i>	<i>Client/Contractor</i>	<i>Other</i>	<i>Organization</i>
Mary Lou Cotton	Mike Medina		City of Colton
Meredith Clement	Russ Handy		City of Loma Linda
Dana Haasz	T. Jarb Thaipejr		City of Loma Linda
Leila Khatib	Chris Diggs		City of Redlands
	Woody Hynes		City of Redlands
	Greg Gage		City of San Bernardino
	Ted Brunson		City of San Bernardino
	Ron Buchwald		East Valley Water District
	Bob Tincher		San Bernardino Valley MWD
	Linda Jadeski		West Valley Water District
	Thomas Crowley		West Valley Water District
	Amanda Kasten		West Valley Water District
	Jennifer Ares		Yucaipa Valley Water District
	Jack Nelson		Yucaipa Valley Water District
		Max Rasouli	City of Riverside

Subject:

Workshop on Demand Management Measures Section of the 2010 Urban Water Management Plan

Introductions and Announcements

- 1) On August 5, 2010 the Department of Water Resources will be holding a public workshop on implementation of SBX7-7. This workshop is anticipated to cover methodologies for calculating baseline population and baseline water gallons per capita. Everyone is encouraged to attend. The meeting will be held at the Metropolitan Water District, starting at 10 am running until as late as 3 pm (past workshops have been less than 2 hours). Metropolitan is located immediately adjacent to Union Station, so it is convenient to take Amtrak or Metrolink to the meeting.

New Legislation and the UWMP Requirements

- 1) New legislation since the 2005 UWMPs includes SBx7-7 and AB 1420. Most legislation since the 2005 UWMP is directed at water conservation. The Demand Management Measures (DMMs) section is not a new requirement for UWMPs, *but* the new legislation requires reporting, accountability, and targets related to DMMs. More detailed information is now required related to implementation levels, cost-effectiveness calculations, and plans for implementing water conservation activities.
- 2) If a water supplier fails to comply with the new requirements of the UWMP Act and the associated DMM section requirements, that water supplier will be ineligible for state grant and loan funding.

Further, if a water supplier fails to meet its SBX7-7 water use reduction targets by the end of 2020, it is possible that the water supplier could be the target of a waste and unreasonable use filing with the SWRCB, or could be subject to litigation.

DMMs and BMPs

- 1) The terms “Demand Management Measures” and “Best Management Practices (BMPs)” are used interchangeably. They are programs or activities through which a water supplier can communicate with their customers and encourage or incentivize water conservation. During the 2005 UWMP cycle water suppliers had to describe their compliance with 14 DMMs. The DMMs have been revised and now are grouped as follows:
 - a) Foundational BMPs. These are mandatory. There are no exemptions from the Foundational BMPs.
 - b) Programmatic BMPs. These may or may not be implemented, depending on which compliance option a water supplier chooses: BMP implementation, Flex Track, or Gallons Per Capita Per Day (GPCD). If the water supplier chooses to comply using the BMP option, then they must implement the BMPs that are cost-effective.

Compliance Options

- 1) There are three DMM compliance options. In addition to implementing the Foundational BMPs, a water supplier may:
 - a) Implement Programmatic BMPs as defined by the California Urban Water Conservation Council (CUWCC). If the water supplier can document an exemption to a particular BMP, the water supplier will not have to implement that particular BMP. There are three exemption categories: cost-effectiveness, legal authority and budgetary limitation. However, the budgetary exemption cannot be used if another less cost-effective water supply program is implemented instead of the BMP.
 - b) Develop a Flex Track program. Under this option a water supplier develops and implements a program that will achieve water savings greater than or equal to using the BMP option (the total savings volume of all the BMPs).
 - c) Develop a Plan to reduce GPCD. Under this option a water supplier develops a means to reduce GPCD by 18% by year 2018. To also be consistent with SBX7-7, the water supplier must develop a plan to reduce GPCD 20% by year 2020. Therefore agencies may want to consider this option.

Foundational BMPs

- 1) 1.1 Operations Practices (formerly BMPs 10, 12, and 13). Requires:
 - a) creation of a conservation coordinator (can be a part-time position or consultant)
 - b) enactment and enforcement of ordinances that prohibit water waste, require efficient indoor and outdoor design principles, describe actions to be taken in a water shortage
 - c) wholesale agency assistance programs (apply only to wholesalers). Programs must be mutually agreed upon between a retailer and the wholesaler.
- 2) 1.2 Water Loss Control (formerly BMP 3)
 - a) This requires quantifying real and apparent water losses using the AWWA Water Audit M36 manual (manual here: www.awwa.org/Resources/WaterLossControl.cfm?ItemNumber=47957, software here:

www.awwa.org/Resources/WaterLossControl.cfm?ItemNumber=48511&navItemNumber=48158&showLogin=N). During the meeting there was some discussion about exactly what DWR would require a water supplier to report related to this BMP. Based on information from the CUWCC, a water supplier should be prepared to provide the following information to demonstrate compliance with this BMP:

- b) the completed AWWA Standard Water Audit and Water Balance worksheets
 - c) a discussion on apparent (meter under-read, fire flows) and real losses (leaks) and their causes by quantity and type
 - i) the economic value of real loss recovery
 - ii) document how the agency has, and will, reduce real losses when cost-effective.
 - iii) document how the agency has, and will, reduce advise customers when it appears that a leak exists on the customer's side of the meter
- 3) 1.3 Metering with Commodity Rates (formerly BMP 4). This requires meters for all new service connections and establishment of a program to retrofit unmetered connections. A water supplier must document that they have a meter maintenance and replacement plan. Finally, a water supplier must bill customers based on volume of use based on actual meter reads (see also BMP 1.4)
- 4) 1.4 Retail Conservation Pricing (formerly BMP 11). A water supplier must implement a volumetric rate structure, which can be uniform, tiered, allocation-based, or seasonal rates as long as the volumetric portion is at least 70% of the rate.
- 5) 2.1 Public Information Programs (formerly BMP 7). Quarterly, a water supplier must contact customers with a water conservation message. Methods include events, paid and public service advertising, mailers, billings, social marketing websites, and a maintained agency website.
- 6) 2.2 School Education Programs (formerly BMP 8). A water supplier must implement a school education program and provide support and educational materials to local school districts.

Programmatic BMPs

- 1) Residential Assistance (BMPs 1 and 2) require that a water supplier implement all three of the following:
 - a) Leak detection assistance to 1.5 % of single family and multi-family units, each year, during the first 10 years
 - b) Thereafter, maintain a program whereby leak detection assistance is given to customers complaining about high bills or 0.75% of single family and multi-family units.
 - c) Distribute low-flow showerheads until 75% market saturation is achieved.

Regarding market saturation, these estimates should take into account the fact that houses built post-1992 will have low flow showerheads (as required by the building code that went into effect in 1992) and the fact that showerheads typically only last about 8 years.

- 2) Landscape Water Surveys (BMP 1) requires a water supplier to provide landscape water surveys to 1.5% of single family accounts each year during the first 10 years and thereafter maintain a program whereby landscape water surveys are provided to customers complaining of high water bills or at least 0.75% of single family accounts per year. A single survey that looks at indoor and outdoor water use will count towards BMP 1 and BMP 2.
- 3) High-Efficiency clothes washers (BMP 6) requires that a water supplier provide incentives for the purchase of high efficiency clothes washers, targeting 1% of single family accounts or 1.4% per of

the market penetration during the first 10 years.

- 4) WaterSense Specification toilets (BMP 14) requires that until market saturation of 75% is achieved or until the universal retrofit statute goes into effect in 2014, an agency provide incentives for toilets meeting the WaterSense Specification and replace at least as many toilets using 3.5 or more gallons per flush as would occur with a retrofit on resale ordinance. A water agency can offer rebates or offer reduced connection fees for new housing that includes WaterSense specification toilets.
- 5) Commercial, Industrial, and Institutional BMPs (BMP 9). This requires a water agency to reduce CII use by 10% over a 10-year period using measures on the CUWCC's CII list or implementing unique conservation measures with quantifiable water savings. This particular BMP may be influenced by requirements in SBX7-7 for a 10% reduction in the CII sector statewide by 2020; guidance will not be available until 2012.
- 6) Landscape BMP (BMP 5). Requires a water agency to provide incentives to non-residential large landscape customers. A water supplier must:
 - a) Develop water use budgets for 90% of landscape accounts with dedicated meters within a 10 year period. Water budgets should be consistent with the Model Water Efficient Landscape Ordinance.
 - b) Provide audits or irrigation checks for all landscape accounts that are 20% over their water budget within six years.
 - c) Provide surveys to 15% of un-metered and mixed use meter accounts in 10 years (CII surveys that include both indoor and outdoor can be credited to both the landscape and CII BMPs).
 - i) Provide incentives for irrigation equipment retrofits
 - ii) Provide notices each billing cycle with water use budgets.

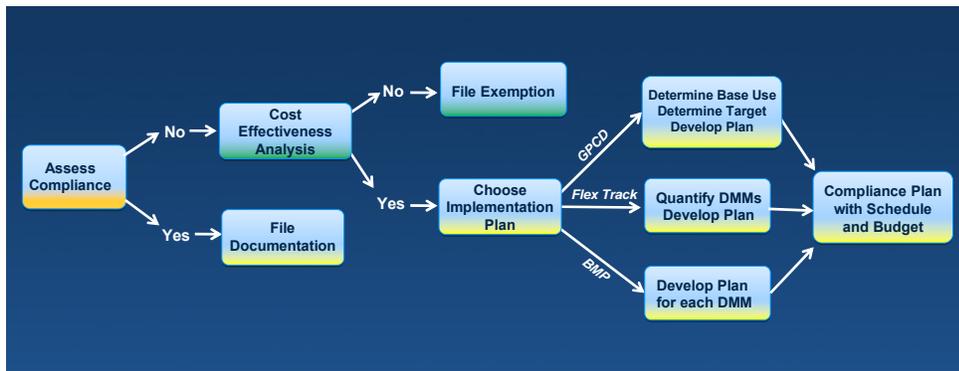
Exemptions from Programmatic BMPs

- 1) Exemptions are allowed from the Programmatic BMPs. A supplier can be exempted from a BMP if:
 - a) The BMP is not cost-effective (cost-effectiveness should be demonstrated using the CUWCC cost-effectiveness model, which has been loaded to the RUWMP Extranet site).
 - b) Lack of funding. The argument to not implement a particular BMP cannot be used if a less cost-effective BMP is being implemented.
 - c) Legal impediments.

Regardless of whether or not a BMP is cost-effective, a water supplier may need to implement it in order to meet the requirements of SBx7-7 (reduction in GPCD by 20% by year 2020)

Steps to Preparing DMM section of the UWMP

- 1) As shown below, there are several steps in preparing the DMM section of the UWMP, we are currently at the first step, "Assess Compliance."



- 2) In order to assess compliance, Kennedy/Jenks needs complete data forms. Commonly agencies have provided the data they used for the 2005 UWMP, but data for years 2005 to 2010 is missing. Kennedy/Jenks will contact each agency with a list describing the missing data. The goal is to provide the missing data by August 6.

Upcoming Meetings and Action Items

- 1) The next meeting is anticipated mid- to late- September and will focus on Regional Water Supply.
 2) The table below includes action items from the meeting:

Action Item/Task	Due Date	Responsible Party
Provide link to CA Green Building Code on Extranet (done)	July 21, 2010	Kennedy/Jenks
Provide link to AWWA Water Audit Manual M36 on Extranet (done)	July 21, 2010	Kennedy/Jenks
Load DMM Cost-Effectiveness Worksheets to Extranet	July 23, 2010	Kennedy/Jenks
Provide list of missing DMM data to agencies	July 23, 2010	Kennedy/Jenks
Provide missing DMM data	August 6, 2010	All agencies
Complete Regional Water Supply Outlook	Sept 8, 2010	Kennedy/Jenks
Complete Individual Agency Chapters	January 10, 2011	Riverside Highland Water Company City of Redlands Yucaipa Valley Water District

Distribution: Team
 Extranet

By: Meredith Clement

On July 19th SBVMWD will be hosting a Demand Management Measures (DMM) Workshop for our retailers, which will focus on the DMM section of the 2010 Urban Water Management Plan (UWMP). The Workshop will be led by the Kennedy/Jenks Consultants team that is developing our plan.

What will be covered:

As you all probably know, the demand management requirements of the 2010 UWMP mark a dramatic shift from previous years. Included in the 2010 UWMP are the new legislative requirements of SBX7-7 (“20% \times 2020”) and AB 1420, which set water use reduction targets and link compliance with DMMs to eligibility for grant and loan funding. This workshop will explain the 2010 UWMP and related legislative requirements, define all the DMMs and their compliance standards, reporting and scheduling requirements, briefly outline various methods of compliance, define exemptions, and discuss data needs. Finally, we will provide guidance on how to start and make your way through the DMM reporting process.

Preparing for the workshop:

This workshop is for *you*, so please come prepared to participate and ask questions! Our break-out sessions will be an opportunity for us to help you address issues specific to your service area, customers and data limitations.

To enable Kennedy/Jenks to help you, please bring the following information for your service area:

- 2010 DMM data forms (from Kennedy/Jenks), completed to the extent possible
- Brief written descriptions of your current conservation programs, including all activities from 2005 through 2010
- Information on any regional or cooperative programs
- DMM section of your 2005 UWMP
- Consumption and population data for 1994-2008 (this is needed for SBX7-7)

Also, please review the DMM section of the UWMP as well as the language of SBX7-7 (attached)

Who should attend:

This is a technical workshop designed for conservation coordinators and/or retailer staff responsible for preparing the DMM section of the 2010 UWMP. It will also be informative for managers.

If you have any thoughts or suggestions, please let us know. We look forward to seeing you.

Regional Urban Water Management Plan San Bernardino Valley

Demand Management Measures (DMMs) Workshop

July 19, 2010



Enduring Relationships - Trusted Expertise - Promises Delivered

Kennedy/Jenks
Consultants

Agenda

1. UWMP background
2. New legislation and UWMP requirements
3. DMMs: requirements, compliance, implementation options and exemptions
4. Getting it done: assessing activity levels, options for compliance and developing implementation plans
5. Breakout sessions: status updates, FAQs, discussion of case-specific questions, problems and issues

Enduring Relationships - Trusted Expertise - Promises Delivered

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UWMPs: The Basics

When	Every 5 years. Extension to June 31, 2011 Guidebook not expected until January 2011
Who	Urban agencies with 3,000+ connections or AFY deliveries
Why	Identify gaps between supply and demand
How	Detailed Description of: <ul style="list-style-type: none"> • Supply sources: surface, recycled, groundwater • Hydrologic year types: normal, multiple dry, critical dry • Water quality problems • Demand Management Measures • Water shortage contingency planning

Enduring Relationships - Trusted Expertise - Promises Delivered

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2010 UWMPs: What's New

- ❖ Most new legislated requirements target water conservation
- ❖ DMM section is not new
- ❖ What is new: reporting, accountability, targets, measurements and oversight
- ❖ Detailed information on implementation levels, cost-effectiveness evaluations, schedules and budgets
- ❖ **Requires more effort!**

Enduring Relationships - Trusted Expertise - Promises Delivered

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New Legislative Requirements

- ❖ SBX7-7 ("20% x 2020"):
 - 20% demand reduction statewide by 2020
 - Sets mandatory demand reduction goal for each retail agency
- ❖ AB 1420 and SBX7-7: tie compliance with DMMs to eligibility for all water management grants and loans
 - Funding can be available to bring an agency into compliance

Enduring Relationships - Trusted Expertise - Promises Delivered

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SBX7-7 : Determining Your Target

Target reduction methodology options:

1. 20% reduction from base (80% of average gross water use in gpcd)
2. Combination of state standards:
 - 55 gpcd indoor residential + landscape use at 70% - 80% ETo + 10% reduction in commercial/industrial/institutional use
3. DWR 20x2020 hydrologic region target (South Lahontan region = 149 gpcd)
4. Option to be developed by October 2010

All retailers must reduce by a minimum of 5%!

Enduring Relationships - Trusted Expertise - Promises Delivered

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New 2010 Plan Requirements

- ❖ Identification of 2015 and 2020 goals AND
- ❖ Compliance with DMMs, OR
- ❖ A plan to get into compliance that includes:
 - Implementation Schedule
 - Financing plan
 - Budget, OR
- ❖ Documentation that the DMM is not cost-effective

What Happens If You Don't Do It?

- ❖ Measure at 2016 – DWR to evaluate statewide and individual agency progress toward 20%
- ❖ Grants and loans eligibility
- ❖ We don't know what, but something else likely coming based on Legislature interest in subject
- ❖ January 1, 2021: potential waste and unreasonable use filing with SWRCB, or litigation

DMMs, BMPs and the CUWCC

DWR DMM = CUWCC BMP (What is the CUWCC?)

- ❖ Created during the drought of 1987-92, in 1991
- ❖ Partnership between water suppliers, public interest groups and private sector
- ❖ Conducts research, manages programs, develops BMPs and provides forum for collaboration
- ❖ Goal: integrate urban water conservation into planning and management of water resources
- ❖ Revised BMPs and compliance options in 2008 to increase agency flexibility

What are DMMs?

- ❖ Programs that allow suppliers to access their customers and either *encourage* or *incentivize* them to reduce water demand
- ❖ Active and passive savings
- ❖ Savings are quantifiable (“hardware-based”) or non-quantifiable (“support” programs)

BMPs: The “Original” 14

1. Residential water surveys
2. Residential plumbing retrofits
3. System audits, leak detection and repair
4. Metering with commodity rates for new connections and retrofit of existing ones
5. Large landscape programs/incentives
6. High-efficiency clothes washers
7. Public information
8. School education
9. Conservation programs for CII accounts
10. Wholesale agency assistance programs
11. Conservation pricing
12. Conservation coordinator
13. Water waste prohibition
14. Residential toilet replacement

(Non-quantifiable)

The Revised BMPs

BMPs are now grouped into:

- ❖ Foundational:
 - Public education, metering, pricing, system water loss control
 - Mandatory
 - Non-quantifiable
- ❖ Programmatic:
 - Three categories: Residential, Landscape, CII
 - Requirement contingent on cost-effectiveness
 - Quantifiable

Compliance Options

Three Options:

1. **BMP implementation** (original method) – implement BMPs as defined. Prescriptive approach.
2. **Flex track** – Implement tailored program that will achieve water savings greater than or equal to using the BMPs. Can use CUWCC program list or your own. Proper documentation required.
3. **GPCD** - 18% reduction by 2018 (Baseline = the average annual potable GPCD between 1997 through 2006).

Foundational BMPs: Utility Operations

1.1 Operations Practices

- a. Conservation Coordinator (formerly BMP 12)
Establish a conservation coordinator position.
- b. Water Waste Prevention (BMP 13)
Enact and enforce ordinances that either prohibit waste, require efficient indoor or outdoor design principles, establish shortage measures, etc.

Foundational BMPs: Utility Operations

- c. Wholesale Agency Assistance Programs (BMP 10)
 - Cost-effectiveness assessments
 - Technical support, incentives, staff or consultant support
 - Program management and BMP reporting assistance
 - Water shortage allocations plans that encourage long-term conservation
 - Reporting on non-signatory BMP implementation
 - Encouraging CUWCC membership

Foundational BMPs: Utility Operations

1.2 Water Loss Control (formerly BMP 3)

Implementation consists of at least the following:

- ❖ Quantifying real and apparent losses using AWWA Water Audit per the M36 manual
- ❖ Data validation
- ❖ Determining the economic value of loss recovery (avoided cost)
- ❖ Component analysis of apparent and real losses
- ❖ Loss reduction to cost effective levels
- ❖ Advising customers of leaks

Foundational BMPs: Utility Operations

1.3 Metering with commodity rates for all new connections and retrofit of existing connections (BMP 4)

Implementation consists of at least the following:

- ❖ Requiring meters for all new service connections
- ❖ Establishing a program to retrofit unmetered connections
- ❖ Reading meters and billing customers by volume of use
- ❖ Preparing a meter maintenance and replacement plan
- ❖ Exploring mixed-use metering and dedicated landscape meters

Foundational BMPs: Utility Operations

1.4 Retail Conservation Pricing (BMP 11)

Volumetric rate structure, which can be uniform, tiered, allocation-based or seasonal rates as long as the volumetric portion is at least 70% of rate.

Foundational BMPs: Education

2.1 Public Information Programs (BMP 7)

Quarterly customer contact through events, paid and public service advertising, mailers, billings and social marketing and an actively maintained website.

Foundational BMPs: Education

2.2 School Education Programs (BMP 8)

Implementing of a school education program and providing support and educational materials to local school district.

Residential BMPs

1. Residential Assistance Program (BMPs 1 & 2)

- Leak detection assistance to 1.5% of SF and MF units during the first 10 years.
- Maintaining a program at least at the level of high-bill complaints or 0.75%/year of SF and MF units.
- Distributing showerheads until 75% market saturation is achieved.

Residential BMPs

2. Landscape Water Surveys (BMP 1)

- Landscape water surveys to 1.5%/yr of SF accounts during the first 10 years.
- Maintaining the program at the level of high-bill complaints or at least 0.75%/yr.

Residential BMPs

3. High-efficiency clothes washers (BMP 6)

- Financial incentives for the purchase of HECWs.
- Annual target is 1.0% of SF accounts or 1.4% per year of the market penetration during the first 10 years.

Residential BMPs

4. WaterSense Specification toilets (BMP 14)

- Incentive for toilets meeting WSS standard.
- Replacement of a number of toilets of 3.5 gpf+, at least as effective as a retrofit on resale ordinance until 2014, OR
- Market saturation of 75%.

Residential BMPs

5. WSS for new residential development

- Incentives such as rebates, recognition programs, reduced connection fees, or ordinances requiring residential construction meeting WSS for SF and MF housing.
- Continue until a local, state or federal regulation is passed requiring water efficient fixtures.

Commercial, Industrial, and Institutional BMPs (BMP 9)

Reduce CII use by 10% over a 10-year period by:

- i. Implementing measures on the CUWCC's CII list with well-documented savings (e.g. toilets, urinals, clothes washers, etc), AND/OR
- ii. Implementing unique conservation measures whose water savings are calculated on a case-by-case basis (e.g. industrial process water use reduction, industrial laundry retrofits, car wash recycling systems, etc.). Documentation is key.

Landscape BMP (BMP 5)

Support and incentives for non-residential customers.

- ❖ Develop water use budgets at 70% ETo (100% for recreational areas) for 90% of accounts with dedicated irrigation meters in 10 years.
- ❖ Assist all accounts that are 20% over budget within 6 years.
- ❖ Surveys on 15% of un-metered and mixed use meter accounts in 10 years (CII surveys that include both indoor and outdoor can be credited for both the Landscape and CII BMPs).
- ❖ Incentive program for irrigation equipment retrofits.
- ❖ Provide notices each billing cycle with water use budgets.

Landscape BMP (cont'd)

For accounts without Meters or with Mixed-Use Meters:

- ❖ Develop and implement a strategy for marketing surveys.
- ❖ Offer financial incentives.

Exemptions

According to MOU, supplier can exempt from a BMP if:

1. BMP is not cost-effective (c-e). The CUWCC provides the analysis tool. Supplier needs to provide documentation, avoided cost values and good faith effort.
2. Lack of funding. Cannot be used if a less c-e water management option is implemented.
3. Legal impediments exist. Supplier must make a good faith effort to remove barriers.

BUT...

Exemptions (cont'd)

Exemptions are not what they used to be because:

1. Flex Track: an agency can design their own program to be more c-e.
2. **SBX7-7: exemption from a DMM does not obviate "20 x 2020" requirement. Still need to meet demand reduction goals!**

Demand Management Flowchart



The Steps - Compliance

1. Data Collection – DMM forms, conservation activities, SBX7-7 data
 2. Determine DMM compliance
 3. Ensure compliance with foundational BMPs
- Depending on results:
4. File supporting documentation, OR
 5. Perform c-e evaluations, AND
 6. Prepare exemption materials, OR
 7. Prepare implementation plans

The Steps - Implementation

Decide on implementation method:

- ❖ If BMP – develop plan for each BMP
 - Provides a prescriptive, formulaic, pre-designed approach
 - Requires less analysis
 - Regional programs easier as everyone's doing same thing
 - Not tailored to specific needs
- ❖ If Flex Track – quantify BMPs and develop plan
 - More tailored, customer-specific approach. Less likely to implement programs that won't give you savings
 - CUWCC CII list fairly extensive
 - Requires additional analysis, customer information and, potentially, supporting documentation

The Steps – Implementation (cont'd)

- ❖ If gpcd – determine base use, develop plan
 - Full flexibility for program design
 - Focus on one goal: SBX7-7 is gpcd-based as well and consistent with DMM compliance goals
 - Regional applicability of approach
 - Requires additional analysis, customer information and, potentially, supporting documentation

Kennedy/Jenks' Support

Kennedy/Jenks needs:

- ❖ Population and consumption data
- ❖ DMM forms (filled out as much as possible)
- ❖ All available information on conservation activities

Kennedy/Jenks will:

- ❖ Calculate SBX7-7 goals options
- ❖ Help determine DMM compliance levels
- ❖ Provide general recommendations for achieving compliance

Breakout Sessions

Public Meeting No. 4

Meeting Agenda

Project: RUWMP for the San Bernardino Valley
Subject: Regional Urban Water Management Plan Meeting #4

Date: October 28, 2010
Time: 1 to 3:30 pm
Location: Valley District Board Room

1. Update on SBx7-7 compliance
 - a. DWR Guidelines/Methodologies (30 min)
 - b. Strategy for DMM compliance (20 min)
 - c. Strategy for 20% reduction by 2020 compliance (30 minutes)
 - d. Estimating Population (30 minutes)
2. Finalize approach to Regional Urban Water Management Plan (20 min)

Meeting Time: 1:30 PM to 4 PM **Page:** 1 of 4
Meeting Location: Valley District Office **Date:** 5 November 2010
Meeting Date: 28 October 2010 **K/J Job No.:** 1089014.00
Project: RUWMP San Bernardino Valley

Persons Attending:

<i>Kennedy/Jenks</i>	<i>Client/Contractor</i>	<i>Other</i>	<i>Organization</i>
Mary Lou Cotton	Mike Medina		City of Colton
Meredith Clement	Russ Handy		City of Loma Linda
Dana Haasz	T. Jarb Thaipejr		City of Loma Linda
	Chris Diggs		City of Redlands
	Woody Hynes		City of Redlands
	Greg Gage		City of San Bernardino
	Ted Brunson		City of San Bernardino
	Ron Buchwald		East Valley Water District
	Don Hough		Riverside Highland Water Company
	Bob Tincher		San Bernardino Valley MWD
	Doug Headrick		San Bernardino Valley MWD
	San Fuller		San Bernardino Valley MWD
	Linda Jadeski		West Valley Water District
	Thomas Crowley		West Valley Water District
	Amanda Kasten		West Valley Water District
	Jennifer Ares		Yucaipa Valley Water District
	Jack Nelson		Yucaipa Valley Water District
		Susan Lien Longville	Water Resources Institute

Subject:

DMM Compliance, SBx7-7 Compliance, Approach to Regional Urban Water Management Plan

Introductions and Announcements

- 1) The Department of Water Resources was originally going to hold a webinar on the Urban Water Management Plan Guidelines on November 18, 2010. **The webinar has been moved to November 30 from 9 am to 3 pm.** Here is the link:
<http://www.water.ca.gov/calendar/index.cfm?meeting=15102>
- 2) SB 1478 was approved, this means wholesale agencies, like Valley District, have the same deadline for the 2010 Urban Water Management Plan as retailers, July 1, 2011.

Demand Management Measures (DMMs)

- 1) Demand Management Measures are required to be discussed in the UWMP and are an important tool for achieving the 20% reduction by 2020 required by SBx7-7)

- 2) An agency must implement Foundational DMMs. In addition, an agency must:
 - a) demonstrate compliance with DMMs OR
 - b) develop a DMM implementation plan that includes a schedule and budget showing how the agency will come into compliance with DMMs, OR
 - c) Prepare documentation supporting an exemption

Examples of a compliance plan and documentation supporting an exemption are provided on the Extranet site in the "Other" Category. The Water Use Efficiency Plan prepared by Western Municipal Water District has also been posted to the website as an example of a compliance plan.

- 3) An agency cannot exempt from a Foundational DMM. An agency can exempt from a Programmatic DMM, but will still need to comply with "20x2020".
- 4) K/J has assessed DMM compliance for the participating agencies. Agencies now need to prepare their cost effectiveness analyses, prepare the paperwork to document DMM exemptions, and prepare an applicable DMM implementation plans. *Kennedy/Jenks will prepare draft cost-effectiveness evaluations for Colton, Loma Linda, San Bernardino Municipal Water Department, East Valley, West Valley, and Valley District.* Agencies will be responsible for reviewing and finalizing these evaluations and then developing their DMM implementation plans.
- 5) Agencies should complete their cost-effectiveness evaluations, exemption documentation, and compliance plan by December 3, 2010.
- 6) The group determined to hold a meeting to discuss whether implementing some conservation programs as a regional group (sharing costs and sharing expertise) would be beneficial. This meeting will be held December 8, 2010, 3 pm, at the offices of Valley District.

SBx7-7 Compliance - Base Water Use Calculation

- 1) The two primary calculations required by SBx7-7 are:
 - a) Base Water Use Calculation (gallons per capita per day used in past years)
 - b) Compliance Water Use (target gallons per capita per day in 2015 and 2020)
- 2) The Base Water Use calculation can be based on:
 - a) a 10-year average ending no earlier than 2004 and no later than 2010 or
 - b) a 15-year average if 10% of 2008 demand met by recycled water
- 3) In addition, an agency must report their 5-year base water use calculation. This 5-year period can end no earlier than 2007 and no later than 2010.
- 4) **The group determined that no agency qualifies to use the 15-year average in their Base Water Use calculation.**
- 5) Base Water Use must account for all water sent to retail customers, excluding:
 - o Recycled water
 - o Water sent to another water agency
 - o Water that went into storage
 - o Water sent to ag customers
 - o Optional - an agency may exclude process water if its industrial water use comprises a substantial percentage of its total water use.
- 6) Population estimates used in the Base Water Use calculation must relate to data from the California Department of Finance or the US Census, but can be refined using local data sources

such as SCAG.

- 7) **In June the group decided to calculate population using the number of connections: (# connections) x (persons per connection)**
- 8) Kennedy/Jenks will recommend a persons per connection number based on Department of Finance or US Census data. Agencies, if they haven't done so already, need to provide information on number of connections by Single-Family and Multi-Family for years 1994 to present.
- 9) A handout on the Base Water Use calculation is attached to these meeting minutes.

SBx7-7 Compliance (20% reduction by 2020) - Compliance Water Use Calculation

- 1) There are four methods for calculating Compliance Water Use:
 - o Method 1: 20% reduction from Base Water Use
 - o Method 2: Meet separate targets for indoor water use (55 ppcd), outdoor water use (consistent with water use allowed under Model Landscape Ordinance), and CII customers
 - o Method 3: Meet DWR South Coast region target of 149 gpcd
 - o Method 4: Still in process

The group determined that Method 2 required data not readily available and eliminated it from further consideration. The group also determined that Method 3 would not be reasonable for the San Bernardino area. All indications are that Method 4 will incorporate some of the approach of Method 2 which renders it highly unlikely. Thus, Method 1 is the most likely method for the San Bernardino area.

Formal Regional Compliance with SBx7-7?

- 1) Compliance with SBx7-7 can be done individually or as a region.
- 2) DWR has developed a formal process whereby agencies can form a "Regional Alliance". Compliance with SBx7-7 targets would then be evaluated for the Regional Alliance as a whole. This could help agencies struggling with compliance, but would mean that some agencies would have to achieve more than a 20% water savings in order to bring the Regional Alliance group into compliance.
- 3) **After discussion on the pros and cons of forming a Regional Alliance, the group decided against it for the 2010 submittal. However, this concept may be considered prior to preparation of a 2015 RUWMP.**

One Document or Multiple Documents

- 1) One of the agencies heard about litigation filed against the Castaic Lake Water Agency joint urban water management plan. All of the agencies in the joint plan were brought into the lawsuit. The question was whether these other agencies were brought into the litigation solely based on the fact that they were in the joint document. A separate handout was distributed with the pros and cons (see attached).
- 2) **After discussion of the pros and cons of preparing a single joint UWMP versus multiple individual UWMPs, the group confirmed their approach to prepare a single UWMP for the entire region.**

Upcoming Meetings and Action Items

- 1) The next RUWMP meeting is scheduled December 8, 2010 from 1:30 to 3 pm at the Valley District office.
- 2) A meeting to discuss regional coordination on conservation measures is scheduled December 8, 2010 from 3 to 4 pm at the Valley District office (this meeting will immediately follow the RUWMP meeting).
- 3) The table below includes action items from the meeting:

Action Item/Task	Due Date	Responsible Party
Kennedy/Jenks to review data provided by agencies, identify any missing data needed to complete SBx7-7 calculations	Nov 11, 2010	Kennedy/Jenks
Provide missing data needed to complete SBx7-7 calculations	Nov 18, 2010	City of Colton City of Loma Linda City of San Bernardino East Valley Water District West Valley Water District
Provide draft cost-effectiveness evaluations to Colton, Loma Linda, San Bernardino Municipal Water Department, East Valley Water District, and West Valley Water District	Nov 19, 2010	Kennedy/Jenks
Complete DMM cost-effectiveness evaluations, exemption documentation, and compliance plans	Dec 3, 2010	City of Colton City of Loma Linda City of San Bernardino East Valley Water District West Valley Water District
Answer the following questions: 1) how to account for service area base gross water use if customers within the service area drill private wells to reduce or remove reliance on the water retailer. 2) status of stormwater offsets: not specifically called out in statute, but could be part of a residential landscape water conservation program	Nov 30, 2010	Kennedy/Jenks
Perform SBx7-7 Base Water Use Calculation for each agency	Nov 30, 2010	Kennedy/Jenks
Perform SBx7-7 Compliance Water Use Calculation for each agency	Nov 30, 2010	Kennedy/Jenks
Review regional DMM options to determine those most cost-effective (Extranet) prior to December 8 meeting.	Dec 3, 2010	All agencies
Complete calculations and Chapter	Feb 18, 2011	Riverside Highland Water Company City of Redlands Yucaipa Valley Water District

Distribution: Team
Extranet

By: Meredith Clement

SBx7-7 Calculations

Baseline Gross Water Use

Primary Calculations:

- Calculation of Baseline Gross Water Use
- Calculation of Compliance Gross Water Use (Targets)

Calculation of Baseline Gross Water Use

- 1.1 Calculate Gross Water Use
- 1.2 Calculate Population
- 1.3 Calculate Average Gallons per Capita per Day Water Use
- 1.4 Determine Appropriate Timeframe for Reporting Average Gallons per Capita per day base

1.1 Calculate Gross Water Use

Goal here is to account for all water sent for delivery to retail customers. Remember, you will need to do this calculation for each possible year from December 31, 1994 through December 31, 2010 (this will make it possible to select what timeframe is most advantageous).

- 1.1.1 Define the distribution system that serves water to retail customers. Measurement locations for distribution include the:
 - Exit points for water treatment plants
 - Exit points for treated water reservoirs
 - Wells feeding directly into the distribution system
 - Imported water entering directly into the distribution system
 - 1.1.2 Tabulate all water sent for delivery to retail customers from the sources defined in 1.1.1.
 - 1.1.3 Subtract from 1.1.2, any water sent through the distribution system to another water utility or jurisdiction
 - 1.1.4 Subtract from 1.1.3, any water that entered the distribution system but went into storage
 - 1.1.5 Add to 1.1.4, any water that was sent from storage to retail delivery
 - 1.1.6 Subtract from 1.1.5, any recycled water that directly entered the distribution system
 - 1.1.7 Subtract from 1.1.6, any recycled water indirectly entering the distribution system (this would be recycled water that augments surface supply reservoirs, recycled water used for groundwater recharge).
- Optional Subtract from 1.1.7, water delivered to agricultural users*
- Optional Subtract from 1.1.7, water delivered for process water use**

* if a retailer decides to *include* ag water use in the base gross water use calculation that retailer must use Method 2 to calculate their Target Gross Water Use. Under Method 2 targets are set as follows: 55 gpcd for indoor residential use, landscape irrigation set at 0.7 to 0.8 ETo, a 10 percent reduction in base CII use, and an ag water use standard of 100 percent reference evapotranspiration multiplied by the crop coefficient for irrigated acres. *In short, including ag water in your base gross water use greatly complicates the calculation of water reduction targets and may result in unreasonably low targets.*

** "Process water" means water used for producing a product or product content or water used for research and development, including, but not limited to, continuous manufacturing processes, water used for testing and maintaining equipment used in producing a product or product content, and water used in combined heat and power facilities used in producing a product or product content. Process water does not mean incidental water uses not related to the production of a product or product content, including, but not limited to, water used for restrooms, landscaping, air conditioning, heating, kitchens, and laundry.

1.2 Calculate Population

Remember, you will need to do this calculation for each possible year from 1995 through 2010. This part must use the same retail service area as used in 1.1.1.

DWR strongly recommends using data published by the California Department of Finance (DOF) or US Census Bureau, but this data can be refined using local data sources (county assessor records, Southern California Association of Governments, San Bernardino Association of Governments).

Potential Options

- 1.2.1A For those agencies whose service area substantially overlaps with city boundaries, use corresponding DOF data
- 1.2.1B For those agencies whose service area does not overlap with city boundaries:
 - Get service area population from SCAG or SBAG (if their estimates use DOF or Census as basis)
 - Other GIS calculation of population
- 1.2.3C Use DOF, Census, SCAG, or SBAG to define persons per single-family, then calculate yearly population based on number of single-family and multi-family connections each year
- 1.2.2 Calculate Population for each year of the each year 1995 to 2010
- 1.2.3 Subtract from 1.2.2 any residents of large water users that depend on private supply (example would be prisons, colleges)

1.3 Calculate Average Gallons per Capita per Day Water Use

Remember, you will need to do this calculation for each possible year from 1995 to 2010.

- 1.3.1 Calculate daily per capita water use for each year by dividing gross water use in that year (from part 1.1) by the estimated population in that year (from part 1.2)
- 1.3.2 Calculate Base Daily Per Capita Water Use. Calculate rolling 5-year and 10-year or 15-year average per capita water use by summing the values calculated in Step 1.3.1 and dividing by the number of years in the base period. The result is Base Daily Per Capita Water Use for the selected base period.

1.4 Determine Appropriate Timeframe for Reporting

SBx7-7 requires that Baseline Gross Water Use be calculated using either a 10-year period or a 15-year period and an agency must also report data for 5-year period.

- 14.1 An agency should use the average of a 10-year period ending no earlier than December 31, 2004 and ending no later than December 31, 2010,
OR
An agency can use the average of a 15-year period, ending no earlier than December 31, 1999 and no later than December 31, 2010 *if* 10% of 2008 demand met by recycled water, AND
- 1.4.2 The average of a 5-year period, ending no earlier than December 31, 2007 and not later than December 31, 2010.



Overview

- ❖ Demand Management Measures (DMMs)
- ❖ SBx7-7 Compliance
 - Legislative update
 - Next Steps
 - Calculate Base Daily Per Capita Water Use
 - Selection of base period
 - Calculating population
 - Calculating Compliance “Target”
 - Overview of methods
 - Choosing a method
 - Compliance regionally vs. individually

SBx7-7 Compliance

- ❖ New Law: SBX7-7 (“20% x 2020”) for 2010 UWMPs
- ❖ Four methods are available for determining compliance:
 - Method 1: 20% reduction from base (gpcd)
 - Method 2: Meet separate targets for indoor (55 gpcd), landscaped area and CII
 - Method 3: Meet DWR target (South Coast region = 149 gpcd)
 - Method 4: In process (December 2010)

SBx7-7 Compliance

- ❖ Legislative Update
 - SB 1478 – APPROVED: Provides the same deadline extension (July 2011) to wholesale water agencies.
 - Update on Method 4
 - Other

Demand Management Requirements (DMMs)

- ❖ Required in UWMPs
- ❖ Required by AB 1420
- ❖ Used to achieve 20% reduction by 2020

NEW DMM Requirements

Compliance requires one of the following:

- ❖ Implementation of Foundation DMMs
- ❖ Compliance with DMMs, OR
- ❖ A plan to get into compliance that includes:
 - Implementation Schedule
 - Financing plan
 - Budget, OR
- ❖ Documentation supporting exemption

Exemptions are not what they used to be

Things are different in 2010:

- ❖ Can't exempt from a Foundational DMM
- ❖ Can exempt from a Programmatic DMM but not from "20 x 2020"
- ❖ UWMP must identify 2015 and 2020 water use targets and develop a plan for getting there
- ❖ Every retail water supplier must comply with 20x2020 – NO EXEMPTIONS

DMM Compliance Process



Strategy for DMM Compliance

1. Data Collection ✓
 2. Determine DMM compliance ✓
 3. Ensure compliance with foundational BMPs **Some** ✓
- Depending on results:
4. File supporting documentation, **Some** ✓ OR
 5. Perform c-e evaluations, AND
 6. Prepare exemption materials, OR
 7. Prepare implementation plans

DMM Compliance – Next Steps

Each agency knows their current implementation status NOW each agency must:

1. Implement the Foundationals (or develop plan)
2. Determine implementation resources
3. Analyze non-compliant Programmatic DMMs for cost-effectiveness
4. Choose an implementation option (option should track with "20x2020" implementation plan)
5. Calculate "20x2020" targets

Regional DMM Programs?

Is there interest in implementing some or all programs regionally with Valley District providing funding? Sharing in the cost of a Water Conservation Coordinator?

If Yes:

- a) Which DMM option(s) is/are best?
- b) How will it be managed?
- c) What are the programs and desired participation level by Valley District?

SBx7-7 Compliance

- ❖ All methods require calculation of Base Use (current use)
- ❖ Choose most favorable Method for Target



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SBx7-7 Compliance – Base Use

- ❖ Base Use (required for all Methods)

$$\frac{\text{Base water use (base period)}}{\text{Population}} = \text{gpc}$$

Enduring Relationships - Trusted Expertise - Promises Delivered



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Base Daily Per Capita Water Use

- ❖ 10-year average
 - ending no earlier than 2004 – no later than 2010
- ❖ 15-year average if 10% of 2008 demand met by recycled water
 - get to add 5 years to calculation
- ❖ 5-year average
 - at least 5% reduction
 - ending no earlier than 2007 – no later than 2010

Action Point: K/J will look at all possible periods so that an agency can choose the reduction target that is most realistic to achieve

Enduring Relationships - Trusted Expertise - Promises Delivered



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Base Daily Per Capita Water Use

- ❖ Base Water Use Calculation
 - All water sent to retail customers
 - Exclude
 - Recycled water
 - Water sent to another water utility
 - Water that went into storage
 - Water sent to Ag customers (if known)
 - Water used as process water (if known)

Action Point: Each agency must provide this data to K/J.

Enduring Relationships - Trusted Expertise - Promises Delivered



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Population

- ❖ Population
 - Must use data from California Department of Finance or US Census (can be refined using local data sources (county assessor records, SCAG, SBAG)
 - Can revise based on 2010 Census data
 - Exclude any residents of large water users that depend on private water supply

Enduring Relationships - Trusted Expertise - Promises Delivered



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Population (cont.)

- ❖ Options for Calculating Population
 - At our June 9, 2010 meeting, we decided to calculate population using:

$$(\# \text{ connections}) \times (\text{people/connection}) = \text{POPULATION}$$
 - Required data
 - # Connections: do all agencies have this data (back to '94)?
 - People/connection
 - Varies by agency and area (apartments, etc.)
 - To be calculated by K/J

Enduring Relationships - Trusted Expertise - Promises Delivered



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Base Daily Per Capita Water Use

- ❖ Agency Action Items
 - ✓ Provide connection data to K/J by _____
 - ✓ Provide connection data to K/J by _____
- ❖ K/J Action Items
 - ✓ K/J will calculate the Base Daily Per Capita Water Use by _____
 - ✓ K/J will calculate the Target amount for all of the Methods that apply to determine the one most favorable to each agency

Enduring Relationships - Trusted Expertise - Promises Delivered



Finalize Approach: One Document vs. Multiple Documents

❖ **QUESTION:** WE HAVE HEARD ABOUT THE LITIGATION AGAINST THE CASTAIC LAKE WATER AGENCY JOINT URBAN WATER MANAGEMENT PLAN AND THAT THE RETAIL AGENCIES WERE BROUGHT INTO THE LITIGATION. WERE THE RETAIL WATER AGENCIES BROUGHT INTO THIS LITIGATION SIMPLY BECAUSE THEY WERE PART OF THE REGIONAL DOCUMENT?

❖ **Action Point:** One document or multiple documents?

Regional Compliance?

- Regional compliance through a “Regional Alliance”
 - Through wholesale supplier
 - Regional water management group
 - IRWMP area
 - Hydrologic region
 - Other?

Regional Compliance?

- Options
 1. $T_{\text{regional}(R)} = \frac{\sum T*P}{RP}$
 2. Sum individual base water use and population then apply one of the Methods.
 3. Calculate base water use and population for the region then apply one of the Methods

Regional Compliance?

- Pros
 - Helps agencies that may have difficulty complying
 - Looks good on grant applications
- Cons
 - Could result in some agencies not taking responsibility for achieving compliance
 - Could cause tension if one, or more, agencies are keeping the region from compliance.
- **Action point:** Do we want regional compliance or individual compliance?

Schedule

- DWR UWMP Guidebook Webinar - November 18th
- K/J Starts 20x2020 Calculations/Works with Agencies to Develop Missing Data - December 2010
- Meeting 5 – December 2010
- K/J completes individual agency chapters - February 2011
- Chapters from Redlands, Yucaipa, and Riverside-Highland Due – February 2011
- K/J holds meetings with individual agencies – March 2011
- K/J prepared Draft RUWMP – April 2011
- Adoption of RUWMP by agencies – May 2011
- **Submit RUWMP to DWR – June 2011**

Action Items

- ❖ **Agency Action Items**
 - ✓ DMMs
 - Implement the Foundational (or develop plan)
 - Determine implementation resources
 - Analyze non-compliant Programmatic DMMs for cost-effectiveness
 - Choose an implementation option (option should track with “20x2020 implementation plan)
 - Provide connection data to K/J by _____
- ❖ **K/J Action Items**
 - ✓ Calculate the Base Daily Per Capita Water Use by _____
 - ✓ Calculate the Target amount for all of the Methods that apply to determine the one most favorable to each agency

Public Meeting No. 5

Workshop Agenda

Project: RUWMP for the San Bernardino Valley
Subject: Regional Urban Water Management Plan Meeting #5

Date: TBD
Time: TBD
Location: Valley District Board Room

1. Update on Guidelines/Methodologies
2. Population Estimates
3. Regional Water Supply
4. Climate Change

Meeting Time: 1:30 PM to 3 PM **Page:** 1 of 5
Meeting Location: Valley District Office **Date:** 17 December 2010
Meeting Date: 8 December 2010 **K/J Job No.:** 1089014.00
Project: RUWMP San Bernardino Valley

Persons Attending:

<i>Kennedy/Jenks</i>	<i>Client/Contractor</i>	<i>Other</i>	<i>Organization</i>
Meredith Clement	Mike Medina		City of Colton
Dana Haasz	Adrienne Rogers		City of Colton
	Russ Handy		City of Loma Linda
	T. Jarb Thaipejr		City of Loma Linda
	Chris Diggs		City of Redlands
	Woody Hynes		City of Redlands
	Greg Gage		City of San Bernardino
	Ted Brunson		City of San Bernardino
	Matt Litchfield		City of San Bernardino
	Ron Buchwald		East Valley Water District
	Don Hough		Riverside Highland Water Company
	Bob Tincher		San Bernardino Valley MWD
	Linda Jadeski		West Valley Water District
	Amanda Kasten		West Valley Water District
	Jennifer Ares		Yucaipa Valley Water District

Subject:

Update on Guidebook, SBx7-7 Calculations, DMM Cost-Effectiveness Analysis, Growth and Water Demand Projections

Introductions and Announcements

- 1) The Department of Water Resources will host a webinar on January 5, 2011 from 9:30 am to 12:30 pm to go over SBx7-7 Base Gross Per Capita Water Use and Compliance Water Use calculations.

SBx7-7 Compliance Option 4

- 1) As part of RUWMP Meeting 4, the group determined that SBx7-7 Compliance Option 4 would not be a favorable method for the RUWMP because it would require data that was not collected by any of the agencies. However, since that time, significant revisions to Option 4 have been proposed. Under the proposed revisions, Option 4 may simply require an agency to fully implement their Demand Management Measures. If that is the case, this Option will be worth consideration. Kennedy/Jenks will continue to follow developments related to Option 4 and will report back to the group.

Update on Guidebook

- 1) Draft Guidebook anticipated mid-December 2010
- 2) Final Guidebook anticipated late January or early February 2011
- 3) UWMPs can be (but are not required to be) submitted electronically
- 4) 2010 UWMPs will have much the same content as 2005 plans but with the addition of SBx7-7 and DMM requirements
- 5) Its unclear how much detail needs to be provided about how an agency will achieve 20% water savings by year 2020. Kennedy/Jenks will continue to seek guidance on this from DWR.

SBx7-7 Calculations

- 1) Draft SBx7-7 Base Gross Water Use calculations were prepared for the City of Loma Linda, the City of San Bernardino, East Valley Water District, and West Valley Water District.
- 2) The Base Gross Water Use calculations include a calculation of the base gross water use for a 10-year average as well as a 5-year average. The 10-year average base gross water use is what is used for determining the compliance/target water use. The 5-year average base gross water use is used to determine whether a supplier's 2015 and 2020 per capita water use targets meet the minimum water use reduction of the SBx7-7 legislation. Within the 2010 UWMP it will be necessary to report the maximum allowable GPCD - which is 95% of the 5-year average Daily Per Capita Water Use. The following example is taken from the *Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use*:

Suppose a water supplier has a 10-yr baseline per capita water use of 170 GPCD and a 5-year baseline per capita water use of 168 GPCD.

The maximum allowable GPCD target in 2020 is $0.95 \times 168 \text{ GPCD} = 160 \text{ GPCD}$.

The 2020 target based on the 10-year average (using Option 1) is $0.8 \times 170 \text{ GPCD} = 136 \text{ GPCD}$.

Because the target under Option 1 is less than 160 GPCD, no adjustment to the 2020 target is needed.

- 3) Rough estimates of the water savings the City of Loma Linda, San Bernardino Water Department, East Valley Water District, and West Valley Water District would need to achieve compliance with SBx7-7 in year 2015 and 2020 was provided in the powerpoint presentation. Please use CAUTION, these are estimates and are based on assumptions of future growth. These estimates are just intended to provide agencies with an idea of the scale of their needed conservation. Agencies are encouraged to annually examine their GPCD to see if they are on track to be in compliance with SBx7-7.
- 4) There was a question about what constituted "compliance" with SBx7-7, both in year 2015 and 2020. Since the meeting Kennedy/Jenks researched this specific question.

SBx7-7 section 10608.24 states, " (a)Each urban retail water supplier shall meet its interim urban water use target by December 31, 2015. (b) Each urban retail water supplier shall meet its urban water use target by December 31, 2020." Section 10608.56 states "(a) On and after July 1, 2016, an urban retail water supplier is not eligible for a water grant or loan awarded or administered by the state unless the supplier complies with this part...(c) Notwithstanding subdivision (a), the department shall determine that an urban retail water supplier is eligible for a water grant or loan even though the supplier has not met the per capita reductions required pursuant to Section 10608.24, if the urban retail water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the

grant or loan agreement, for achieving the per capita reductions.”

So it appears “compliance” with SBx7-7 in year 2015 is more than simply reporting per capita water use; an agency will need to achieve their interim target or provide a plan for coming into compliance in order to be eligible for state grants and loans. DWR has not given any indication how daily per capita water use will be measured in the compliance years (will it be a single year?, a 5-year average?, a trend line over a 5-year period?).

For year 2020 the same provisions apply, but in addition, section 10608.8(a)(2) comes into play, “Because an urban agency is not required to meet its urban water use target until 2020 pursuant to subdivision (b) of Section 10608.24, and urban retail water suppliers’ failure to meet those targets shall not establish a violation of law for purposes of any state administrative or judicial proceeding prior to January 1, 2021.” Meaning an agency that does not meet the water use targets by December 2020 could be subject to lawsuits for unreasonable use and water waste.

DMM Cost-Effectiveness Analysis

- 1) Draft DMM cost-effectiveness calculations were prepared for the City of Colton, City of Loma Linda, the City of San Bernardino, and East Valley Water District. The cost-effectiveness calculations used the California Urban Water Conservation Council protocols and standard assumptions. Results of the analysis varied by agency, depending on avoided cost of water. Basic results are as follows:
 - a) Residential Audit Programs (indoor and outdoor surveys) are not cost-effective for any agency.
 - b) High Efficiency Clothes Washers and certain CII programs are cost-effective for all agencies
 - c) High Efficiency Toilet incentives and Large Landscape programs could be cost effective if implemented as a regional program.

Please see the DMM cost-effectiveness handout (attached to these minutes) for more details.

- 2) If a DMM is not cost-effective, an agency can exempt from the requirement to perform that DMM BUT, an agency must implement the Foundational DMMs and will still have to implement a combination of conservation programs and recycled water as needed to reduce per capita daily water use consistent with SBx7-7.
- 3) DMM next steps:
 - a) Implement the Foundational DMMs
 - b) Evaluate the cost-effectiveness memos
 - c) Use the cost-effectiveness results to identify best programs, quantify costs and savings
 - d) Work with Valley District, identify regional opportunities, and develop commitments
 - e) Develop implementation plan for SBx7-7 and DMM compliance
- 4) During the meeting there was a question about some of the assumptions used to calculate cost per AF of water saved for various DMMs. Attached to these meeting minutes is a table of Kennedy/Jenks assumptions

Water Demand Growth Projections

- 1) Kennedy/Jenks proposes to use Southern California Association of Governments (SCAG) Regional Transportation Improvement Plan growth forecasts for 2008, 2020, and 2035 as a proxy

for growth in water demand. SCAG provides a growth rate for each city and unincorporated San Bernardino County. The proposal is to assume an agency's water growth rate as follows:

$$(\% \text{ of agency in City A} * \text{annual growth rate City A}) + (\% \text{ of agency in City B} * \text{annual growth rate City B}) + (\% \text{ of agency in unincorporated County} * \text{annual growth rate unincorporated County}).$$

In addition to these growth projections, Kennedy/Jenks proposes to also include any water demands from known upcoming development projects in each agency's service area.

- 2) The group agreed to using the method proposed by Kennedy/Jenks to estimate future water demands. However, in addition, for East Valley Water District, the UWMP will also present information on growth projections from their Water Masterplan.**

Upcoming Meetings and Action Items

- 1) The next RUWMP meeting is scheduled January 26, 2011 from 1:30 to 3 pm at the Valley District office.
- 2) A meeting to discuss regional coordination on conservation measures is scheduled January 26, 2011 from 3 to 4 pm at the Valley District office (this meeting will immediately follow the RUWMP meeting).
- 3) The table below includes action items from the meeting:

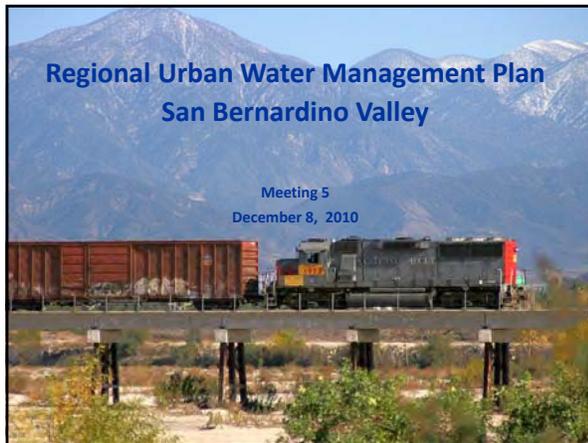
Action Item/Task	Due Date	Responsible Party
Kennedy/Jenks to prepare "missing data" sheet	Dec 17, 2010	Kennedy/Jenks
Provide missing data needed to complete SBx7-7 calculations	Dec 31, 2010	City of Colton
Provide data needed to complete cost-effectiveness evaluations.	Dec 31, 2010	Loma Linda, West Valley Water District
Review and provide any comments on Draft SBx7-7 calculations, DMM cost-effectiveness analysis	Jan 7, 2011	City of Colton City of Loma Linda City of San Bernardino East Valley Water District West Valley Water District
Provide information on upcoming developments in your service area that you want included in water demand projections. Data needs to include: <ul style="list-style-type: none"> o Name and location of development (e.g., Cypress Oaks Estates, northwest corner of Main and C Street in the City of Colton) o Description of development (e.g., 400 single family homes, one school, 10,000 square feet commercial) o Whether the development will be dual plumbed o A description of the current land use (e.g., irrigated ag) and whether or not your agency serves the current land use o Any assumptions about water demands for the project o A schedule for the development (e.g., 100 	Jan 14, 2011	City of Colton City of Loma Linda City of San Bernardino East Valley Water District West Valley Water District

Meeting Memorandum No. 5
 RUWMP San Bernardino Valley
 Page 5 of 5

homes a year starting in 2015)		
Prepare water demand growth projections for City of Colton, City of Loma Linda, City of San Bernardino, East Valley Water District, and West Valley Water District	Jan 21 2011	Kennedy/Jenks
Complete individual chapters	Feb 18, 2011	Riverside Highland Water Company City of Redlands Yucaipa Valley Water District

Distribution: Team
 Extranet

By: Meredith Clement



Agenda

- ❖ Update on Guidebook
- ❖ SBx7-7 Calculations
- ❖ DMM Cost-Effectiveness Analysis
- ❖ Next Steps for Conservation Programs
- ❖ Growth and Water Demand Projections
- ❖ Schedule
- ❖ Action Items

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Update on SBx7-7 Methodologies

- 20x2020 Compliance Method 4 may be significantly revised
 - Originally group had decided to eliminate consideration of Method 4
 - If revised, Method 4 may be favorable means to calculate 20x2020 target
- Method 4 to be released in January 2011

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Update on Guidebook

- Draft Guidebook anticipated mid-December 2010
- Final Guidebook anticipated late January early February 2011
- UWMPs can be (but are not required to be) submitted electronically

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Update on Guidebook

- 2010 UWMPs will have much the same content as 2005 plans, with the addition of SBx7-7 and DMM requirements, but has been significantly reordered
- Unclear how much detail needs to be provided about how an agency will achieve 20x2020
- Some confusion about by when a Regional Alliance must be formed
 - *Regional Alliance not required for regional implementation*

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SBx7-7 Compliance – Base Use

- ❖ Base Use (required for all Methods)

$$\frac{\text{Base water use (base period)}}{\text{Population}} = \text{gpc}$$

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Base Daily Per Capita Water Use

- ❖ 10-year average
 - ending no earlier than 2004 – no later than 2010
- ❖ 15-year average if 10% of 2008 demand met by recycled water
 - ~~get to add 5 years to calculation~~
- ❖ 5-year average (this is a tool for DWR to estimate maximum allowable GPCD)
 - at least 5% reduction
 - ending no earlier than 2007 – no later than 2010

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Base Daily Per Capita Water Use

- ❖ Base Water Use Calculation
 - All water sent to retail customers
 - Exclude
 - Recycled water
 - Water sent to another water utility
 - Water that went into storage
 - Water sent to Ag customers (optional)
 - Water used as process water (optional)

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Population (cont.)

- ❖ At our June 9, 2010 meeting, we decided to calculate population using:
 - $(\# \text{ connections}) \times (\text{people/connection}) = \text{POPULATION}$

1. Used GIS data to determine what census blocks fell in each agencies service area
2. Determined number of occupied SF and MF units
3. Determined Population by structure type (SF or MF)
4. Used data from 2 and 3 to come up with persons per SF and MF household

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Base Daily Per Capita Water Use

- ❖ Outstanding Data
 - Colton
 - Data on water sent to retail customers and number of connections for years 2003 to 2006.
 - If possible, data on water sent to retail customers and number of connections for years 1995 to 1999.
 - San Bernardino Municipal Water Department
 - If possible, data on SF and MF connections 1995 to 1999

Please provide missing data by end of December.

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Base Daily Per Capita Water Use

- ❖ Initial Results
 - East Valley Water District
 - 3.00 persons per SF household, 2.42 persons per MF
 - Gross Base Water Use 310-332 GPCD
 - Highest Base Water Use 2000-2009, 333 GPCD
 - Compliance Target $(0.80 \times 333) = 266$ GPCD
 - West Valley Water District
 - 3.64 persons per SF household, 2.80 persons per MF
 - Gross Base Water Use 294-316 GPCD
 - Highest Base Water Use 2000-2009, 316 GPCD
 - Compliance Target $(0.80 \times 339) = 253$ GPCD

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Base Daily Per Capita Water Use

- ❖ Initial Results
 - Loma Linda
 - 2.54 persons per SF household, 2.06 persons per MF
 - Gross Base Water Use 443 to 456 GPCD
 - Highest Base Water Use 1995-2005, 456 GPCD
 - Compliance Target $(0.80 \times 456) = 365$ GPCD
 - City of San Bernardino
 - 3.10 persons per SF household, 2.46 persons per MF
 - Highest Base Water Use 2000-2009, 374 GPCD
 - Compliance Target $(0.80 \times 374) = 299$ GPCD

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Water Savings Needed to be in Compliance*

Agency	Est. Growth 2010 to 2015	Est. Growth 2010 to 2020	Year 2015 Savings Target (AF)	Year 2020 Savings Target (AF)
City of Loma Linda	1%	2%	100	600
City of San Bernardino	1%	2%	1,600	7,100
East Valley	1%	2%	3,100	6,000
West Valley	1%	2%	400	2,900

*Rough estimates!

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Questions on SBx7-7 Calculations

?

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DMM C-E Analysis

- ❖ K/J Analyzed cost-effectiveness of implementing each DMM
- ❖ Used CUWCC protocol and standard assumptions
- ❖ Results vary by agency, depending on avoided cost
- ❖ All agencies have relatively low avoided cost
- ❖ Focus on regional collaboration?

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Results of C-E Analysis

Not Cost Effective for any agency: (> \$300/AF)

- Residential Audit Programs - indoor and landscape

Cost Effective for all agencies: (<\$200/AF)

- High Efficiency Clothes Washers
- CII Program – depending on design

Potentially Cost Effective as Regional Program: (\$200-\$300/AF)

- High Efficiency Toilet Incentives
- Large Landscape Programs

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Results of C-E Analysis

Program	\$/AF	Program	\$/AF
BMP9: CII HE Washer Rebates	\$ 71.30	BMP5: CII Precision Nozzles Distr.	\$ 441.60
BMP5: CII WBICs Rebates	\$ 115.74	Residential WBICs Rebate Program	\$ 550.00
BMP6: Residential HE Washer Rebates	\$ 167.43	BMP5: CII Cash for Grass (Turf rebates)	\$ 611.11
BMP5: Dedicated Irrigation Surveys	\$ 203.03	BMP1: Residential Cash for Grass (Turf Rebates)	\$ 622.46
BMP14: Residential HET Rebates (MFR)	\$ 205.13	BMP1: Residential Assistance (Surveys)	\$ 622.46
BMP9: CII HET Rebates	\$ 205.22	BMP5: CII Outdoor Surveys	\$ 800.24
BMP2: Residential Plumbing retrofit kits	\$ 221.05	BMP9: CII Indoor Surveys	\$ 5,143.94
BMP14: Residential HET Rebates (SFR)	\$ 258.60	BMP9: CII Indoor Surveys	\$ 819.61
BMP9: CII ULV Urinal Rebates	\$ 299.93		
BMP5: CII WBICs Direct Install	\$ 385.80	Average	\$ 661.28

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C-E Analysis – things to think about

- ❖ Traditional fixture rebate programs for both residential and CII are c-e.
 - Opportunities exist due to lack of historic programs
- ❖ There is considerable savings potential in landscape – need to evaluate what type of approach would fit best.
- ❖ Regional programs are generally more efficient (\$) and effective (reach)

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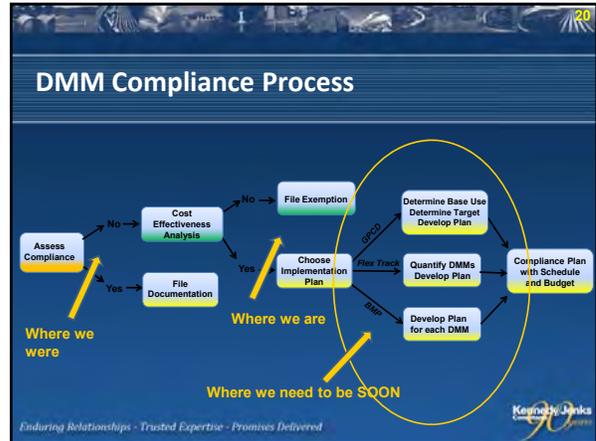
C-E: next steps

IF a DMM is not c-e, can file a c-e exemption
BUT

- ❖ Still have to implement Foundationals
- ❖ Still have to reduce by 20%

IF a DMM is c-e, need to address implementation

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DMM Compliance – Next Steps for Retail Agencies

1. Implement the Foundationals (or develop plan)
2. Evaluate c-e memos
3. Use c-e results to identify best programs, quantify costs and savings
4. Work with Valley District, identify regional opportunities, and develop commitments
5. Develop implementation plan for SBX7 and DMM compliance

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Questions on C-E Evaluations

?

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Water Demand Growth Projections

- In 2005 UWMPs, most agencies relied on SCAG data
- IRWMP relied on 2005 UWMPs
- For 2010 UWMPs recommend:
 1. SCAG RTIP 2012 growth forecasts for 2008, 2020, and 2035
Assumed Agency Water Demand Growth Rate
= (% in City A x annual rate City A) + (% in City B x annual rate City B)

AND

 2. Demands from any large development projects in your service area

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Schedule

- K/J Works with Agencies to Develop Missing Data - December 2010
- Meeting 6 – January 2010 (growth projections/regional water supply)
- K/J completes individual agency chapters - February 2011
- Chapters from Redlands, Yucaipa, and Riverside-Highland Due – February 2011
- K/J holds meetings with individual agencies – March 2011
- K/J prepared Draft RUWMP – April 2011
- Adoption of RUWMP by agencies – May 2011
- **Submit RUWMP to DWR – June 2011**

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Action Items

❖ Retail Agency Action Items

- ✓ DMMs
 - Implement the Foundationals (or develop plan)
 - Determine implementation resources
 - Choose an implementation option (option should track with "20x2020 implementation plan")
- ✓ Provide any missing data
- ✓ Provide contact information for developments in service area

❖ Valley District

- ✓ Work with K/J to complete regional water supply outlook

❖ K/J Action Items

- ✓ Prepare water demand growth scenarios for each agency
- ✓ Work with Valley District to complete regional water supply outlook

Public Meeting No. 6

Meeting Agenda

Project: RUWMP for the San Bernardino Valley
Subject: Regional Urban Water Management Plan Meeting #6

Date: January 26, 2011
Time: 1:30 to 3:30
Location: Valley District Board Room

1. Update on Guidelines/Methodologies
2. Regional Water Supply Outlook
 - a. Water Quality Impacts on Supply Reliability
3. Water Demand Calculations
4. Public Outreach/Required Notices and Hearings
5. Schedule
6. Action Items
7. Next Meeting

Meeting Time: 1:30 PM to 3 PM **Page:** 1 of 5
Meeting Location: Valley District Office **Date:** 17 December 2010
Meeting Date: 8 December 2010 **K/J Job No.:** 1089014.00
Project: RUWMP San Bernardino Valley

Persons Attending:

<i>Kennedy/Jenks</i>	<i>Client/Contractor</i>	<i>Other</i>	<i>Organization</i>
Meredith Clement	Mike Medina		City of Colton
Ric Corona	Russ Handy		City of Loma Linda
Dana Haasz (phone)	T. Jarb Thaipejr		City of Loma Linda
	Chris Diggs		City of Redlands
	Woody Hynes		City of Redlands
	Greg Gage		City of San Bernardino
	Ted Brunson		City of San Bernardino
	Ron Buchwald		East Valley Water District
	Don Hough		Riverside Highland Water Company
	Bob Tincher		San Bernardino Valley MWD
	Linda Jadeski		West Valley Water District
	Amanda Kasten		West Valley Water District
	Jack Nelson		Yucaipa Valley Water District
	Jennifer Ares		Yucaipa Valley Water District

Subject:

Update on Guidebook, Regional Water Supply Outlook, Water Quality Impacts on Supply Reliability, Water Demand Calculations, Public Outreach, Notices and Hearings, Schedule

Overview of Process

- 1) So far the group has completed calculation of water use targets (using Target Methodology 1), prepared estimates of future demands, and prepared an estimate of future supplies.
- 2) Major upcoming tasks:
 - a) Agencies to determine how to meet water use targets
 - b) Kennedy/Jenks to prepare individual agency chapters
 - c) Agencies review individual agency chapters
 - d) Public and agency outreach

Update on Guidebook

- 1) The Draft Guidebook was released December 21, 2010, a copy of this guidebook can be found here: www.water.ca.gov/urbanwatermanagement/docs/UWMP_ReviewDraft.pdf
 A copy has also been loaded to the RUWMP extranet site (under the "Other" category).

- 2) DWR will be sending out errata/addenda to the Draft Guidelines, specifically related to AB 1420 and the relationship to DMMs, and the SBx7-7 implementation plan.
- 3) The comment deadline for the Draft Guidebook will be extended until sometime after errata provided.
- 4) One item described in the Draft Guidebook and during DWR webinars on the Draft Guidebook, is the need to include a map that displays both the service area boundary for an agency as well as the area actually served within that boundary. Kennedy/Jenks has received from Valley District GIS data on the service area boundaries. The group had a discussion about what data might serve to show area actually served. Potential resources include maps showing the actual distribution system. Kennedy/Jenks would like to be provided GIS maps or maps of high enough quality to be digitized.

Target Method 4

- 1) Target Method 4 has undergone several iterations. The early versions of Method 4 required data that the group did not collect. So, this method was initially eliminated from further consideration. However, since that time, Method 4 has been drastically revised and preliminary calculations by K/J indicate that it may be a good option for City of San Bernardino, East Valley Water District, and West Valley Water District.
- 2) DWR released a public draft of Method 4 on January 24, 2011 and held webinars on Method 4 on January 27 and January 28. A recording of the January 28th webinar can be found here: www.water.ca.gov/calendar/materials/webinar_recording_01-28-11_10812.pdf
- 3) Statewide workshops on Method 4 will be held in February 2011.
- 4) A copy of DWR's description of Method 4 can be found here: www.water.ca.gov/calendar/materials/provisional_method_4_1-24-11_10821.pdf
A copy of this methodology has also been loaded to the RUWMP extranet site (under the "Other" category).
- 5) The Urban Water Use Target Under Method 4 is Baseline Daily GPCD less:
 - a) Indoor Residential Water Savings (default is 15 GPCD)
 - b) 20% savings on all unmetered uses
 - c) 10% savings on Baseline CII (CII must be converted to GPCD)
 - d) 21.6% savings on current landscape and water loss uses (must be expressed as GPCD)

The following formula for calculating landscape and water loss uses is provided by DWR.

Landscape and Water Loss Use = Base Daily Per Capita Water Use - Default Indoor Water Use (70 GPCD) - Baseline CII

Regional Water Supply Outlook

- 1) The Water Supply Outlook illustrates all the potential water supplies available in a given water year type (e.g., normal, single-dry, multi-dry). Kennedy/Jenks prepared the Regional Water Supply Outlook based on water budget prepared for the IRWMP as revised by Valley District in 2008. A table displaying the draft Regional Water Supply Outlook is attached to these minutes. Demands by retailers were updated (using data prepared for the RUWMP) to calculate return flows. Potential State Water Project supply was updated based on the 2009 State Water Project Reliability Report which assumes:
 - a) Long-term SWP supplies 60% of Table A allocation
 - b) Dry-Year Supplies assumed to be 7 - 11% of Table A allocation

- c) Multiple-Dry Year assumed to be 32 - 34% of Table A allocation
- 2) The Regional Water Supply Outlook does not currently contain any benefits associated with the water management strategy of storing water in wet years for later use during droughts (IRWMP). Storage would take place locally and could take place in other groundwater "banks". The modeling conducted for the IRWMP includes this management strategy. Kennedy/Jenks will coordinate with Valley District and Geoscience (modeler) to add this benefit to the Regional Water Supply Outlook.
- 3) Recycled water has been left out of the Regional Water Supply Outlook because it has to be accounted for as a local supply under SBx7-7.
- 4) A comparison of the draft Regional Water Supplies vs draft Regional Demands has indicated that supplies are greater than demands for years 2010 to 2035 in a Normal Year, even without accounting for reductions that will occur under SBx7-7. In a Single-Dry Year, a shortage of 10% could be experienced, but this could be "made-up" with conservation, recycled water, and stored water. In a Multiple-Dry Year, shortage of up to 3% could be experienced, but not until year 2020; this could be "made-up" with conservation, recycled water, and stored water.

Water Quality Impacts on Supply

- 1) The UWMP Act requires that an UWMP discuss impacts of water quality on supply reliability. Water quality was the issue in the 2005 Castaic Lake Urban Water Management Plan litigation. The plaintiff's argued that the Castaic plan failed to address the time needed to implement the treatment of contaminated water and failed to describe the reliability of the groundwater supply while the treatment project was being constructed.
- 2) Identified water quality issues include:
 - a) The Muscoy and Newmark plume. In this plume contaminant practices are in place, extraction and treatment are underway. **The group agreed that, given the current data on this plume, no water supply impacts are anticipated related to this plume.**
 - b) The Norton Air Force Base plume. Extraction and treatment of this plume has occurred and the treatment facility now operates in standby mode. **The group agreed, given the current data on this plume, that it is not expected to have water supply impacts.**
 - c) The Santa Fe plume. The group had no particular information on this plume. Valley District may have some data on this plume and will provide whatever data they have.
 - d) The Redlands-Crafton plume. Contaminant practices are in place, extraction and treatment is underway. **The group agreed, given the current data on this plume, that it is not expected to have water supply impacts.**
 - e) TDS in State Water. Based on groundwater modeling in dry years the TDS in State Water could exceed levels that are typically acceptable to the Regional Water Quality Control Board for groundwater spreading during some times of the year in specific groundwater basins. Valley District to provide Kennedy/Jenks with the Cooperative Agreement with the Regional Water Quality Control Board regarding the use of SWP water for groundwater spreading.
 - f) The group discussed the need to not discount the potential impacts of water quality. Based on current conditions water quality is not anticipated to affect supply, BUT water quality issues are constantly evolving. Water agencies will take action to protect supply and treat supply when needed, but it is well recognized that water quality treatment can have significant costs.

Water Demand Growth Projections

- 1) Draft water demand calculations 2010 to 2035 have been sent to agencies. The water demand

calculations assumed growth in water demand consistent with population growth described in the Southern California Association of Governments (SCAG) Regional Transportation Improvement Plan. SCAG provides a growth rate for each city and unincorporated San Bernardino County. Water demand estimates need to be enhanced with any specific information on upcoming developments (this data has been provided by East Valley Water District and West Valley Water District).

Public Outreach/Public Notices

- 1) Required to coordinate preparation of UWMP with other appropriate agencies in the area.
- 2) Should encourage the active involvement of diverse social, cultural, and economic elements of the service area population.
- 3) Required to notify any city or county where the supplier provides water that plan is being prepared/reviewed. Must notify at least 60 days prior to public hearing. **The group agreed that the preferred method to comply with this notification requirement would be to send letters to each land use entity letting them know that a plan is under preparation and to offer to meet with them to go over the UWMP.** Notification of any hearings on the UWMP will also be sent to the various cities and counties. Kennedy/Jenks will prepare a draft letter to the land use entities that each entity can tailor for their use. Copies of letters sent to land use entities should also be provided to Kennedy/Jenks. If land use entities express a desire to be given more information on the RUWMP, the group will schedule a meeting to brief the interested agencies.
- 4) Each agency is required to make plan available for public inspection and hold a hearing prior to adoption. Each agency must provide notice of the hearing consistent with Section 6066 of Government Code (must publish notice of hearing once a week for two consecutive weeks in a newspaper of general circulation. First notice must be 2 weeks before hearing). Each agency should also follow their internal policies for public notice. Kennedy/Jenks will prepare a draft public notice that each agency can tailor for their use. Copies of public notices/newspaper proof sheets should be provided to Kennedy/Jenks.
- 5) Finally, an agency is required to hold a hearing to get community input on the compliance water use target, their plan for complying with SBx7-7, and the economic impacts of plan for complying with SBx7-7. This hearing can be combined with the hearing on the UWMP.
- 6) A question was raised about the implications of not meeting the 20x2020 plan - specifically if an agency does not meet their demand reduction goals will they be ineligible for *water* related grants and loans or *all* state grants and loans? Since the meeting Kennedy/Jenks researched this specific question.

SBx7-7 section 10608.56 states "(a) On and after July 1, 2016, an urban retail water supplier is not eligible for a water grant or loan awarded or administered by the state unless the supplier complies with this part... (c) Notwithstanding subdivision (a), the department shall determine that an urban retail water supplier is eligible for a water grant or loan even though the supplier has not met the per capita reductions required pursuant to Section 10608.24, if the urban retail water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the grant or loan agreement, for achieving the per capita reductions." In addition, SBx7-7 section 1 states, "The bill, with certain exceptions, would provide that urban retail water suppliers, on and after July 1, 2016, and agricultural water suppliers, on and after July 1, 2013, are not eligible for state water grants or loans unless they comply with the water conservation requirements established by the bill." Therefore it appears that SBx7-7's provisions affect only water-related grants and loans.

In addition to the above language. There has also been some discussion about the possibility of charging an agency that does not achieve a 20% reduction by 2020 with a "waste and unreasonable use" of water.

Schedule

In order to submit the document by the required deadline, the following milestones must be met:

- 1) K/J completes draft individual agency chapters – early March 2011
- 2) Chapters from Redlands, Yucaipa, and Riverside-Highland Due – early March 2011
- 3) K/J holds meetings with individual agencies – March 2011
- 4) K/J prepared Draft RUWMP – April 2011
- 5) Notification to cities/counties of UWMP update – April 2011
- 6) Hearings/Adoption of RUWMP by agencies – June 2011
- 7) Submit RUWMP to DWR – July 2011

Action Items

- 1) See the attached Action Items List.

Distribution: Team
Extranet

By: Meredith Clement



Agenda

- ❖ Update on Guidelines/Methodologies
- ❖ Regional Water Supply Outlook
 - Water Quality Impacts on Supply Reliability
- ❖ Water Demand Calculations
- ❖ Public Outreach/Required Notices and Hearings
- ❖ Schedule
- ❖ Action Items
- ❖ Next Meeting

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Overview

- ✓ Calculation of Water Use Targets
- ✓ Estimation of Future Demands
- ✓ Estimation of Future Supplies
- ⇒ Agencies determine how to meet water use targets
- ⇒ Prepare individual agency chapters
- ⇒ Agencies review individual agency chapters
- ⇒ Public and agency outreach

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Update on Guidebook

- DWR will be sending out errata/addenda to the Draft Guidelines.
 - AB 1420 and the relationship to DMIMs, SBx7-7 implementation plan
- Comment deadline for the Draft Guidebook will be extended until sometime after errata provided.
- **For SBx7-7, maps of the service area need to show the service area boundary and the area actually served within that boundary**

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Update on Guidebook

- Method 4
 - DWR released a draft of Method 4 on January 24, 2011
 - Target Method 4 Webinar January 25, 2011
 - Workshops to solicit comment on Method 4 to be held January 27 (10 am to noon at Met) and January 28 (Sacramento)
- Statewide workshops on the UWMP will start mid-February

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Method 4

Method 4 may be a good option

- Urban Water Use Target under Method 4 is Baseline Daily GPCD less:
 - Indoor Residential Water Savings (default is 15 GPCD)
 - 20 % savings on all unmetered uses (GPCD)
 - 10 % savings on Baseline CII (GPCD)
 - 21.6 % savings on current Landscape and Water Loss Uses (GPCD)
- But how do we calculate Landscape and Water Loss Uses?
 - DWR provides this formula: Landscape and Water Loss = $\text{Base Daily Per Capita Water Use} - \text{Default Indoor Water Use (70 gpcd)} - \text{Baseline CII}$

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Regional Water Supply Outlook

- Updated water budget prepared for IRWMP and revised by Valley District in 2008
 - Updated to be UWMP format
 - In UWMP show total amount of supply potentially available in given water year, not amount of supply used
- Updated demands by retailers to calculate return flows
- Updated SWP availability based on 2009 Reliability Report
 - Long-term SWP supplies assumed to be 60% of Table A allocation
 - Dry Year Supplies assumed to be 7-11% of Table A allocation
 - Multiple-Dry Year assumed to be 32-34% of Table A allocation

Kennedy Jenks
90 years

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Regional Water Supply Outlook

- Supplies greater than demands 2010-2035 in a Normal Year (even without accounting for 20x2020)
- In Single-Dry Year, shortage of up to 10% experienced
 - Could be “made-up” with conservation, recycled water, SBBA credits
- In Multiple-Dry Year, shortage of up to 3% experienced, but not until year 2020
 - Could be “made-up” with conservation, recycled water, SBBA credits

Kennedy Jenks
90 years

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Water Quality Impacts on Supply

- UWMP Act requires that UWMP discuss impacts of water quality on supply reliability
- Water Quality was the issue in the CLWA UWMP litigation. Plaintiff’s argued CLWA Plan:
 - failed to address the time needed to implement the available method for treating the contaminated water
 - failed to describe the reliability of the groundwater supply while the treatment project was being constructed

Kennedy Jenks
90 years

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Water Quality Impacts on Supply

- Identified Water Quality Issues:
 - Muscoy and Newmark Plume
 - Norton AFB Plume
 - Santa Fe Plume
 - Redlands-Crafton Plume
 - SWP TDS

Kennedy Jenks
90 years

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Water Demand Calculations

- Draft water demand calculations 2010-2035 sent to agencies
- Based on SCAG Integrated Growth Forecast
- Water demand estimates do not include conservation
- Need to enhance water demand estimates with any information on specific developments

Kennedy Jenks
90 years

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Water Demand Calculations

Water Agency	Annual 2008-2020 SCAG Growth Rate	Annual 2021-2029 SCAG Growth Rate
City of Colton	1.43%	1.13%
City of Loma Linda	1.16%	1.21%
City of San Bernardino	0.90%	0.80%
East Valley Water District	0.97%	1.08%
West Valley Water District	0.80%	1%

Kennedy Jenks
90 years

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13

Water Demand Calculations

- Questions/Comments on Water Demand Calculations

?

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14

Public Outreach/Public Notices

- Required to coordinate preparation of plan with other appropriate agencies in the area.
- Should encourage the active involvement of diverse social, cultural, and economic elements of the service area population.
- Required to notify any city or county where the supplier provides water that plan is being prepared/reviewed. Must notify at least 60 days prior to public hearing.

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15

Public Outreach/Public Notices

- Required to make plan available for public inspection and hold a hearing prior to adoption. Must provide notice of the hearing consistent with Section 6066 of Government Code.
 - Must publish notice of hearing once a week for two consecutive weeks in a newspaper of general circulation. First notice must be 2 weeks before hearing.

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16

Public Outreach/Public Notices

- Required to hold a hearing to get community input on:
 - compliance water use target
 - plan for complying with SBx7-7
 - economic impacts of plan for complying with SBx7-7
 - This hearing can be combined with the hearing on the UWMP

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17

Schedule

- Meeting 6 – January 2010 (growth projections/regional water supply)
- K/J completes draft individual agency chapters – early March 2011
- Chapters from Redlands, Yucaipa, and Riverside-Highland Due – early March 2011
- K/J holds meetings with individual agencies – March 2011
- K/J prepared Draft RUWMP – April 2011
- Notification to cities/counties of UWMP update – April 2011
- Hearings/Adoption of RUWMP by agencies – June 2011
- Submit RUWMP to DWR – July 2011

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18

Action Items

- Agency Action Items
 - ✓ DMMs
 - Implement the Foundational (or develop plan)
 - Determine implementation resources
 - Choose an implementation option (option should track with "20x2020 implementation plan)
 - ✓ Provide any missing data
 - ✓ Service area maps
 - ✓ Provide contact information for developments in service area
- K/J Action Items
 - ✓ Prepare draft chapters for agency review

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Public Meeting No. 7

2010 Urban Water Management Plan



Regional Urban Water Management Plan San Bernardino Valley

Meeting with City of San Bernardino Planning
and County of San Bernardino Department of Public Works
April 2011

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Requirements of an UWMP

❖ Major Contents

- UWMP Act applies to all CA water suppliers with 3,000 or more service connections or selling at least 3,000 AFY (retail or wholesale)
- Main focus: to identify gaps between supply and demand through time (20-year analysis required)
- UWMP must describe how demand will be met through time, in all hydrologic year types (normal, multiple dry, critical dry)

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Requirements of an UWMP

❖ Major Contents (cont'd.)

- Requires detailed description of all supply sources (imported, recycled, groundwater)
- Water quality problems
- Demand Management Measures (water conservation programs)
- Water shortage contingency planning
- Must update every five years, in years ending in 5 and 0 (such as 2010).

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Requirements of an UWMP

❖ Required Coordination and Notification

“Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practical”

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Requirements of an UWMP

❖ Required Coordination and Notification

Other:

- Must hold public hearing prior to adoption of UWMP
- Must provide cities and counties in service area with copies of UWMP within 30 days of adoption

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Requirements of an UWMP

❖ Q&A/Discussion

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New UWMP Requirements

- ❖ New Law: SBX7-7 (“20% x 2020”), reporting starts with 2010 UWMPs
 - Must calculate “baseline” water demand in GPCD
 - Must set GPCD targets for years 2015 and 2020

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New UWMP Requirements

- ❖ Other
 - SB 1087 (Florez) - requires an UWMP to include projected water use for single-family and multi-family residential housing for lower income households as identified in the housing element of any city, county, or city and county in the service area of the supplier.

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New UWMP Requirements

- ❖ Questions/Discussion

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Estimate of Available Supplies

- ❖ Available supplies include:
 - SBBA groundwater. Available supply based on provisions of the Western Judgment and groundwater modeling.
 - Imported water. Based on the Department of Water Resources 2009 State Water Project Reliability Report
 - Estimates of existing available supply:
 - Normal Year – 63,000 AF (current), 74,700 AF (2035)
 - Single Dry Year – 63,000 AF (current), 74,700 AF (2035)
 - Multiple Dry Year – 63,000 AF (current), 74,700 AF (2035)

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Future Supplies

- ❖ Clean Water Factory:
 - Will treat water from the San Bernardino Water Reclamation Plant to standards acceptable for groundwater recharge
 - Will artificially recharge the SBBA.
 - Up to 9,900 AF available in near-term, up to 34,200 AF in future.

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Projected Demands

- Future demands based on existing demands, growing at a rate consistent with growth projected in SCAG 2012 Integrated Growth Forecast for the City of San Bernardino (~1% a year until 2020, ~0.8% after 2020)
- In addition, water demands for known, near term developments were included in addition to “background” growth.
- Projected Demands w/o additional conservation – 52,200 AF (current), 61,100 AF (2035)
- Projected Demands w/ additional conservation – 47,000 AF (current), 48,900 AF (2035)

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Projected Demands – Low Income

- Based on Draft Housing Element
- Assumes ~61 percent all households qualify as very-low (50% or less median state income) or low-income (51-80% of median state income)
- Assumes 61% of all future Single-Family and Multi-Family demand from low income households.

Required Conservation

The 20x2020 law is nuanced:

- Requires agencies to reduce gross water use in terms of GPCD
- BUT allows a water agency to exclude any recycled water from the calculation
- **Recycled water use - good way to comply.**
- Other required conservation includes:
 - Conservation Coordinator
 - Water Waste Prevention Ordinance
 - Water Loss Control (audits)
 - Metering with commodity rates
 - Public Information Programs
 - School Information Programs
 - **Consistency with WSS for New Development/2010 Green Building Standards**

SBMWD's Planned Conservation Actions

- ❖ Development of Recycled Water System
- ❖ Rebates/Discounts
 - High Efficiency Toilets - \$85
 - High Efficiency Clothes Washer - \$200
 - High Efficiency Dishwasher - \$85
 - Low Flow Showerhead - \$15
 - Irrigation Controller – up to \$85
 - 10% discount on drought tolerant trees and shrubs
 - 20% discount on High Efficiency Sprinkler Nozzles
- ❖ Residential and Commercial Indoor and Outdoor Water Audits
- ❖ Water Smart Landscaping Classes and Qualified Water Efficient Landscaper Program
- ❖ Public Outreach
- ❖ Evaporative Cooler Repair Kits

Draft Results

- ❖ Depending on rate at which recycled water is developed in the service area, SBMWD will need to show conservation of up to 20% by the year 2020 to be in compliance with the 20x2020 law
- ❖ During the Planning Period (2010 to 2035) projected supplies are sufficient to meet anticipated demands, even during a single-dry or multiple dry year.

Schedule

- ❖ Draft RUWMP – May 2011
- ❖ Review and Adoption of RUWMP – June 2011
- ❖ Submit RUWMP to DWR – July 2011
- ❖ Provide copies of RUWMP to land use agencies – July 2011

Public Meeting No. 8

2010 Urban Water Management Plan



Regional Urban Water Management Plan San Bernardino Valley

Meeting with City of Highland
April 2011

Enduring Relationships - Trusted Expertise - Promises Delivered



Requirements of an UWMP

❖ Major Contents

- UWMP Act applies to all CA water suppliers with 3,000 or more service connections or selling at least 3,000 AFY (retail or wholesale)
- Main focus: to identify gaps between supply and demand through time (20-year analysis required)
- UWMP must describe how demand will be met through time, in all hydrologic year types (normal, multiple dry, critical dry)

Enduring Relationships - Trusted Expertise - Promises Delivered



Requirements of an UWMP

❖ Major Contents (cont'd.)

- Requires detailed description of all supply sources (imported, recycled, groundwater)
- Water quality problems
- Demand Management Measures (water conservation programs)
- Water shortage contingency planning
- Must update every five years, in years ending in 5 and 0 (such as 2010).

Enduring Relationships - Trusted Expertise - Promises Delivered



Requirements of an UWMP

❖ Required Coordination and Notification

“Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practical”

Enduring Relationships - Trusted Expertise - Promises Delivered



Requirements of an UWMP

❖ Required Coordination and Notification Other:

- Must hold public hearing prior to adoption of UWMP
- Must provide cities and counties in service area with copies of UWMP within 30 days of adoption

Enduring Relationships - Trusted Expertise - Promises Delivered



New UWMP Requirements

- ❖ New Law: SBX7-7 (“20% x 2020”), reporting starts with 2010 UWMPs
 - Must calculate “baseline” water demand in GPCD
 - Must set GPCD targets for years 2015 and 2020

Enduring Relationships - Trusted Expertise - Promises Delivered



New UWMP Requirements

❖ Other

- SB 1087 (Florez) - requires an UWMP to include projected water use for single-family and multi-family residential housing for lower income households as identified in the housing element of any city, county, or city and county in the service area of the supplier.

Estimate of Available Supplies

❖ Available supplies include:

- SBBA groundwater. Available supply based on provisions of the Western Judgment and groundwater modeling.
- Imported water. Based on the Department of Water Resources 2009 State Water Project Reliability Report.
- Santa Ana River. Based on past hydrologic records.
- Estimates of existing available supply:
 - Normal Year – 37,400 AF (current), 62,400 AF (2035)
 - Single Dry Year – 29,100 AF (current), 54,100 AF (2035)
 - Multiple Dry Year – 34,100 AF (current), 59,100 AF (2035)
- Future supplies of ~2,800 AFY through additional stock ownership in North Fork Mutual Water Company

Projected Demands

- Future demands based on existing demands, growing at a rate consistent with growth projected in SCAG 2012 Integrated Growth Forecast for the City of Highland, City of San Bernardino, and unincorporated County (~1% a year until 2020, ~1.1% after 2020)
- In addition, water demands for known, near term development of Sunrise Ranch was added to "background" growth.
- Projected Demands w/o additional conservation – 25,500 AF (current), 48,100 AF (2035)
- Projected Demands w/ additional conservation – 23,000 AF (current), 38,500 AF (2035)

Projected Demands – Low Income

- Based on Draft Housing Element
- Assumes ~45% all households qualify as very-low (50% or less median state income) or low-income (51-80% of median state income) (40% HH of Highland, 61% HH of San Bernardino, 42% HH in unincorporated County)
- Assumes 45% of all future Single-Family and Multi-Family water demand from low income households.

Required Conservation

The 20x2020 law:

- Requires agencies to reduce gross water use in terms of GPCD
- EVWD will need to reduce water use by approximately 20% by year 2020.
- Other required conservation includes:
 - Conservation Coordinator
 - Water Waste Prevention Ordinance
 - Water Loss Control (audits)
 - Metering with commodity rates
 - Public Information Programs
 - School Information Programs
 - Consistency with WSS for New Development/2010 Green Building Standards

Draft Results

- ❖ During the Planning Period (2010 to 2035) projected supplies are sufficient to meet anticipated demands, even during a single-dry or multiple dry year. But without conservation, during a single-dry year, there could be very little excess water.



Schedule

- ❖ Draft RUWMP – May 2011
- ❖ Review and Adoption of RUWMP – June 2011
- ❖ Submit RUWMP to DWR – July 2011
- ❖ Provide copies of RUWMP to land use agencies – July 2011

Notification Letters



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvnmwd.com

February 28, 2011

Stacey R. Aldstadt
General Manager
San Bernardino Municipal Water Department
300 North "D" Street, 5th Floor
San Bernardino, CA 92418

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Stacey,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District. Matt Litchfield, Greg Gage and Ted Brunson have been participating in this process on behalf of the San Bernardino Municipal Water Department.

The RUWMP will include updated water demand projections within Valley District's service area. Water demand projections rely upon growth and population estimates from local land use plans and state and regional agencies. Valley District is encouraging land use agencies and other interested parties to participate in the development of the RUWMP. **We would like to extend an invitation to your agency to meet and go over the various elements of the RUWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs. If you are interested, please contact me at (909) 387-9215 or bobt@sbvmwd.com, no later than March 11, 2011.**

Board of Directors and Officers

MARK ALVAREZ
Division 1

GEORGE A. AGUILAR
Division 2

C.PATRICK MILLIGAN
Division 3

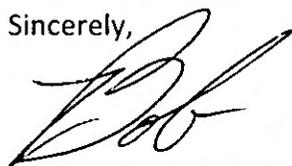
MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

We anticipate that a draft of the RUWMP will be available for public review starting in May 2011 and that Valley District will hold a public hearing in June 2011, prior to adoption of the UWMP. The public hearing will be announced on a Valley District Board Meeting Agenda. Valley District's Board meeting agendas are posted online at sbvmwd.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bob', written over the word 'Sincerely,'.

Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Charlotte VanEck
Clerk of the Board
Bear Valley Mutual Water Company
101 East Olive Avenue
Redlands, CA 92373

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. VanEck,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

The RUWMP will include updated water demand projections within Valley District's service area. Water demand projections rely upon growth and population estimates from local land use plans and state and regional agencies. Valley District is encouraging land use agencies and other interested parties to participate in the development of the RUWMP. **We would like to extend an invitation to your agency to meet and go over the various elements of the RUWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs. If you are interested, please contact me at (909) 387-9215 or bobt@sbvmd.com, no later than March 11, 2011.**

Board of Directors and Officers

MARK ALVAREZ
Division 1

GEORGE A. AGUILAR
Division 2

C.PATRICK MILLIGAN
Division 3

MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

We anticipate that a draft of the RUWMP will be available for public review starting in May 2011 and that Valley District will hold a public hearing in June 2011, prior to adoption of the UWMP. The public hearing will be announced on a Valley District Board Meeting Agenda. Valley District's Board meeting agendas are posted online at sbvmwd.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert M. Tincher', written over a horizontal line.

Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Vicki Sheppard
Clerk of the Board
Big Bear Municipal Water District
PO Box 2863
Big Bear Lake, CA 92315

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Sheppard,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

The RUWMP will include updated water demand projections within Valley District's service area. Water demand projections rely upon growth and population estimates from local land use plans and state and regional agencies. Valley District is encouraging land use agencies and other interested parties to participate in the development of the RUWMP. **We would like to extend an invitation to your agency to meet and go over the various elements of the RUWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs. If you are interested, please contact me at (909) 387-9215 or bobt@sbvmd.com, no later than March 11, 2011.**

Board of Directors and Officers

MARK ALVAREZ
Division 1

GEORGE A. AGUILAR
Division 2

C.PATRICK MILLIGAN
Division 3

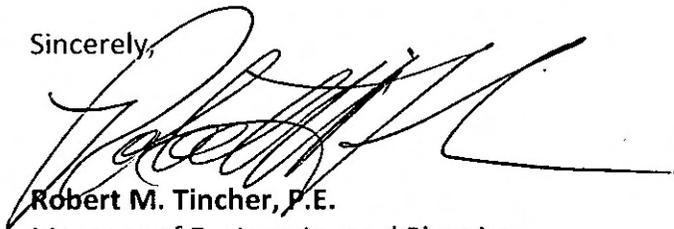
MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

We anticipate that a draft of the RUWMP will be available for public review starting in May 2011 and that Valley District will hold a public hearing in June 2011, prior to adoption of the UWMP. The public hearing will be announced on a Valley District Board Meeting Agenda. Valley District's Board meeting agendas are posted online at sbvmwd.com.

Sincerely,

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Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Mr. Mark Tomich
Development Services Director
City of Colton
650 N. La Cadena Drive
Colton, CA 92324

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Tomich,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District. The staff person who has been assigned to this project from the City of Colton is Mike Medina.

The RUWMP will include updated water demand projections within Valley District's service area. Water demand projections rely upon growth and population estimates from local land use plans and state and regional agencies. Valley District is encouraging land use agencies and other interested parties to participate in the development of the RUWMP. **We would like to extend an invitation to your agency to meet and go over the various elements of the RUWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs. If you are interested, please contact me at (909) 387-9215 or bobt@sbvmd.com, no later than March 11, 2011.**

Board of Directors and Officers

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Division 1

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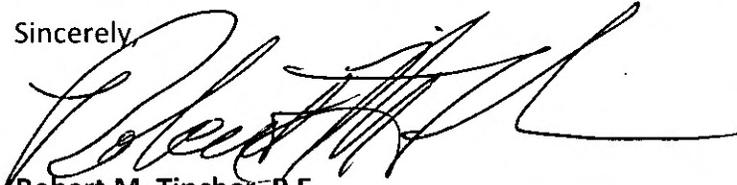
MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

We anticipate that a draft of the RUWMP will be available for public review starting in May 2011 and that Valley District will hold a public hearing in June 2011, prior to adoption of the UWMP. The public hearing will be announced on a Valley District Board Meeting Agenda. Valley District's Board meeting agendas are posted online at sbvmwd.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert M. Tincher", with a long horizontal flourish extending to the right.

Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Don Williams
Community Development Director
City of Fontana
Fontana City Hall
8353 Sierra Avenue
Fontana, CA 92335

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Williams,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

The RUWMP will include updated water demand projections within Valley District's service area. Water demand projections rely upon growth and population estimates from local land use plans and state and regional agencies. Valley District is encouraging land use agencies and other interested parties to participate in the development of the RUWMP. **We would like to extend an invitation to your agency to meet and go over the various elements of the RUWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs. If you are interested, please contact me at (909) 387-9215 or bobt@sbvmd.com, no later than March 11, 2011.**

Board of Directors and Officers

MARK ALVAREZ
Division 1

GEORGE A. AGUILAR
Division 2

C.PATRICK MILLIGAN
Division 3

MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

We anticipate that a draft of the RUWMP will be available for public review starting in May 2011 and that Valley District will hold a public hearing in June 2011, prior to adoption of the UWMP. The public hearing will be announced on a Valley District Board Meeting Agenda. Valley District's Board meeting agendas are posted online at sbvmwd.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert M. Tincher', with a large, sweeping flourish extending to the right.

Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvwmwd.com

February 28, 2011

Ms. Joyce Powers
Community and Economic Development Director
City of Grand Terrace
22795 Barton Road
Grand Terrace, CA 92313

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Powers,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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Board of Directors and Officers

MARK ALVAREZ
Division 1

GEORGE A. AGUILAR
Division 2

C. PATRICK MILLIGAN
Division 3

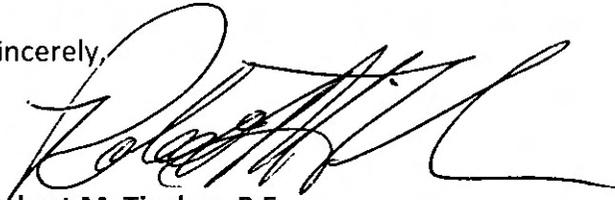
MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

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Sincerely,

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Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvwmwd.com

February 28, 2011

Mr. John Jaquess
Community Development Director
City of Highland
27215 Base Line Highland
Highland, CA 92346

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Jaquess,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

The RUWMP will include updated water demand projections within Valley District's service area. Water demand projections rely upon growth and population estimates from local land use plans and state and regional agencies. Valley District is encouraging land use agencies and other interested parties to participate in the development of the RUWMP. **We would like to extend an invitation to your agency to meet and go over the various elements of the RUWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs. If you are interested, please contact me at (909) 387-9215 or bobt@sbvwmwd.com, no later than March 11, 2011.**

Board of Directors and Officers

MARK ALVAREZ
Division 1

GEORGE A. AGUILAR
Division 2

C.PATRICK MILLIGAN
Division 3

MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

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Sincerely,

A handwritten signature in black ink, appearing to read 'Robert M. Tincher', written over a horizontal line.

Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Ms. Deborah Woldruff
Community Development Director
City of Loma Linda
25541 Barton Road
Loma Linda, CA 92354

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Woldruff,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District. The staff who have been assigned to this project from the City of Loma Linda are Jarb Thaipejr and Russ Handy.

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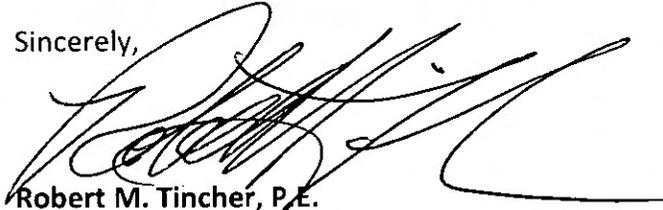
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Manager of Engineering and Planning

cc: Douglas Headrick



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San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Mr. Oscar Orci
Community Development Director
City of Redlands
35 Cajon Street
Redlands, CA 92373

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Orci,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District. The staff that have been assigned to this project from the City of Redlands are Chris Diggs and Woody Hynes.

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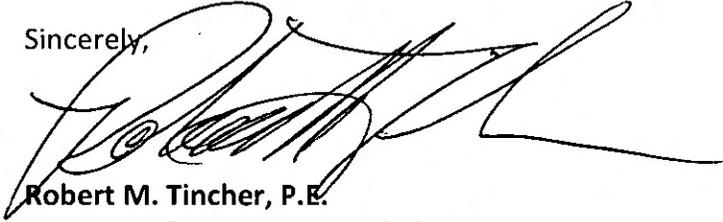
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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



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February 28, 2011

Mr. Mike Story
Development Services Director
City of Rialto
Rialto Civic Center
150 S. Palm Avenue
Rialto, CA 92376

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Story,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



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San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Ms. Margo Wheeler
Director, Community Development Department
City of San Bernardino
300 North "D" Street, 3rd Floor
San Bernardino, CA 92418

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Wheeler,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



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San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Mr. John McMains
Community Development Director
City of Yucaipa
34272 Yucaipa Boulevard
Yucaipa, CA 92399

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. McMains,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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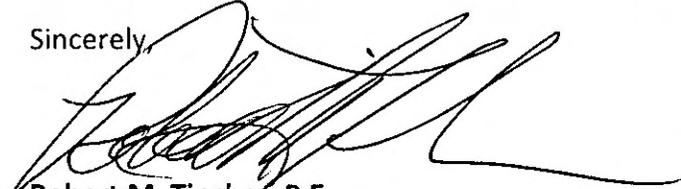
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Manager of Engineering and Planning

cc: Douglas Headrick



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fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Ms. Christine Kelley
Director, Land Use Services Department
County of San Bernardino
385 N. Arrowhead Avenue-1st Floor
San Bernardino, CA 92415-0182

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Kelley,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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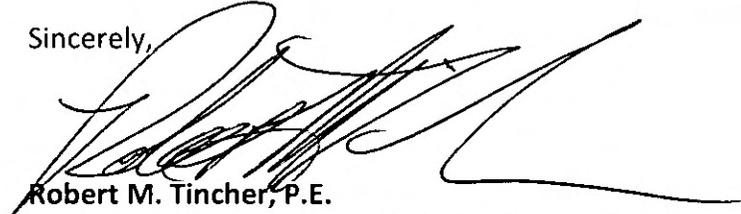
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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Robert Martin
East Valley Water District
3654 E. Highland Avenue, Suite 18
Highland, CA 92346-2607

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Martin,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District. The staff person who has been assigned to this project from East Valley Water District is Ron Buchwald.

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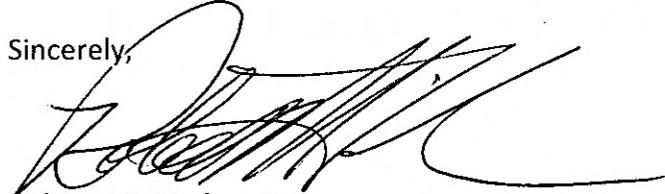
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Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



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San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Mr. Robert Young
Fontana Water Company
15966 Arrow Route
Fontana, CA 92335

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Young,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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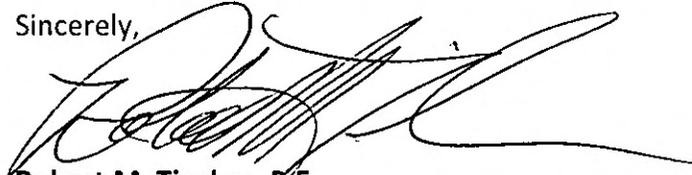
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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



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fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Mr. Don Hough
Riverside Highland Water Company
12374 Michigan Street
Grand Terrace, CA 92313-5602

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Hough,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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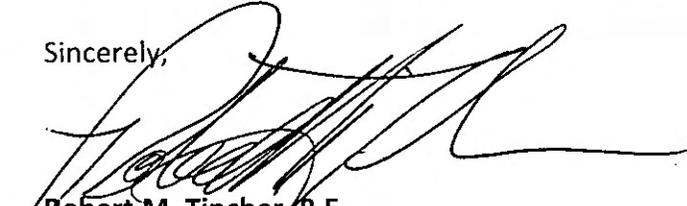
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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



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February 28, 2011

Daniel Cozad
San Bernardino Valley Water Conservation District
1630 West Redlands Blvd. # A
Redlands, CA 92373

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Cozad,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan (RUWMP)* for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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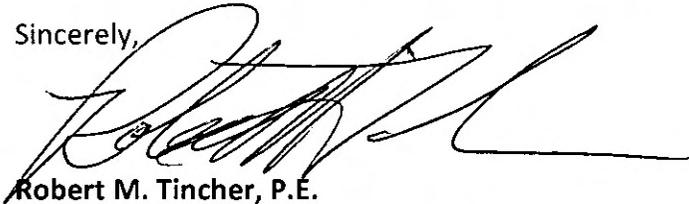
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Manager of Engineering and Planning

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February 28, 2011

Jody Noiron, Forest Supervisor
United States Forest Service
San Bernardino National Forest
1824 South Commercenter Circle
San Bernardino, CA 92408-3430

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Noiron,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

The RUWMP will include updated water demand projections within Valley District's service area. Water demand projections rely upon growth and population estimates from local land use plans and state and regional agencies. Valley District is encouraging land use agencies and other interested parties to participate in the development of the RUWMP. **We would like to extend an invitation to your agency to meet and go over the various elements of the RUWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs. If you are interested, please contact me at (909) 387-9215 or bobt@sbvmd.com, no later than March 11, 2011.**

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Division 2

C.PATRICK MILLIGAN
Division 3

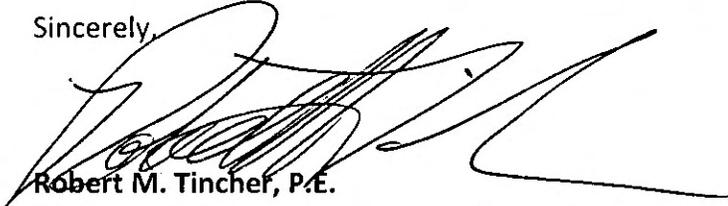
MARK BULOT
Division 4

STEVE COPELAN
Division 5

DOUGLAS D. HEADRICK
General Manager

We anticipate that a draft of the RUWMP will be available for public review starting in May 2011 and that Valley District will hold a public hearing in June 2011, prior to adoption of the UWMP. The public hearing will be announced on a Valley District Board Meeting Agenda. Valley District's Board meeting agendas are posted online at sbvmwd.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert M. Tincher', written over a horizontal line.

Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvmd.com

February 28, 2011

Thomas Crowley
West Valley Water District
855 W. Baseline Road
Rialto, CA 92377

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Crowley,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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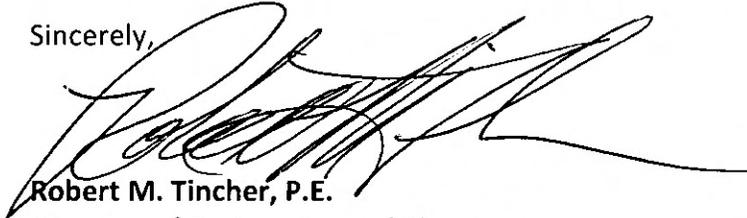
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DOUGLAS D. HEADRICK
General Manager

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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvwmwd.com

February 28, 2011

Jennifer Ares
Yucaipa Valley Water District
12770 Second Street
Yucaipa, CA 92399

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Ares,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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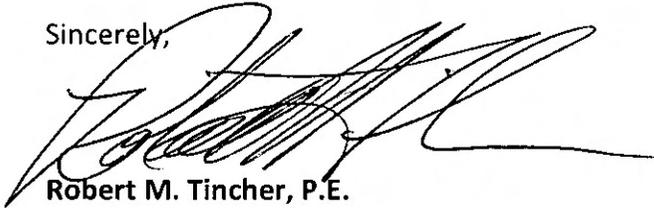
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STEVE COPELAN
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General Manager

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Robert M. Tincher, P.E.
Manager of Engineering and Planning

cc: Douglas Headrick



380 East Vanderbilt Way
San Bernardino, CA 92408
phone: 909.387.9200
fax: 909.387.9247
www.sbvnmwd.com

February 28, 2011

Lee Sena
Muscoy Mutual Water Company
2167 Darby Street
San Bernardino, CA 92407

SUBJECT: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Sena,

The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document which requires water suppliers to analyze the reliability of their water supplies under the affects of increasing demands and the possibility of drought and/or other possible water shortages. An UWMP is necessary for San Bernardino Valley Municipal Water District (Valley District) to remain eligible for state drought water bank assistance and is also a requirement for state grant and loan funding programs. Valley District has been participating in the development of a *Regional Urban Water Management Plan* (RUWMP) for the San Bernardino Valley in cooperation with the City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, West Valley Water District, and Yucaipa Valley Water District.

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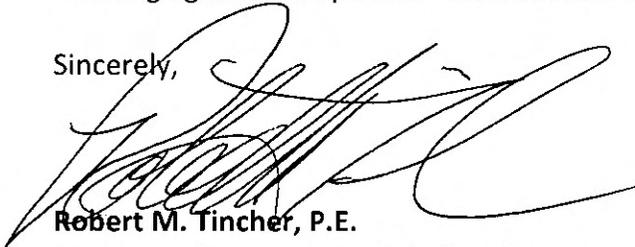
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DOUGLAS D. HEADRICK
General Manager

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Sincerely,

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Robert M. Tincher, P.E.

Manager of Engineering and Planning

cc: Douglas Headrick

CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

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February 14, 2011

"Trusted, Quality Service since 1905"

Mr. Kevin Blakeslee
Chief Public Works Engineer
County of San Bernardino
825 East Third Street
San Bernardino, CA 92415

Dear Mr. Blakeslee:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for San Bernardino Municipal Water Department (SBMWD) to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

The 2010 UWMP will include an update of anticipated water demands in the San Bernardino Valley including the City of San Bernardino, the City of Loma Linda, and the County of San Bernardino. Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. SBMWD is encouraging participation by land use agencies, water use agencies, and other interested parties in the UWMP. The SBMWD would like to extend to your agency an opportunity to meet with us to go over the various elements of the UWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.

300 North "D" Street, San Bernardino, California 92418 P.O. Box 710, 92402 Phone: (909) 384-5141

FACSIMILE NUMBERS: Administration: (909) 384-5215 Engineering: (909) 384-5532 Customer Service: (909) 384-7211

Corporate Yards: (909) 384-5260 Water Reclamation Plant: (909) 384-5258

Mr. Kevin Blakeslee
Page 2
February 14, 2011

We anticipate that a draft UWMP will be available for public review starting in May 2011 and our agency will hold a public hearing in June 2011, prior to adoption of the UWMP. Hence we would like to solicit your input in the near future.

If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Ted Brunson at (909) 384-5931 or Brunson_Te@sbcitywater.org, no later than February 25, 2011.

Sincerely,

A handwritten signature in black ink, appearing to read 'MHL', with a large, sweeping flourish extending to the right.

Matthew H. Litchfield, P.E.
Director of Water Utility

MHL:TB:jmt

CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

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February 14, 2011

"Trusted, Quality Service since 1905"

Mr. Granville M. Bowman
Director of Public Works
County of San Bernardino
825 East Third Street
San Bernardino, CA 92415

Dear Mr. Bowman:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Mr. Granville M. Bowman

Page 2

February 14, 2011

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Matthew H. Litchfield, P.E.
Director of Water Utility

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General Manager
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MATTHEW H. LITCHFIELD, P.E.
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JOHN A. CLAUS
Director of Water Reclamation
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Director of Environmental &
Regulatory Compliance

February 14, 2011

"Trusted, Quality Service since 1905"

Ms. Terri Rahhal
City Planner
City of San Bernardino
300 North "D" Street, 3rd Floor
San Bernardino, CA 92418

Dear Ms. Rahhal:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for San Bernardino Municipal Water Department (SBMWD) to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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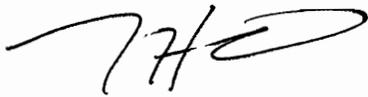
Corporate Yards: (909) 384-5260 Water Reclamation Plant: (909) 384-5258

Ms. Terri Rahhal
Page 2
February 14, 2011

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Director of Water Utility

MHL:TB:jmt

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Regulatory Compliance

February 14, 2011

"Trusted, Quality Service since 1905"

Ms. Margo Wheeler
Director of Community Development
City of San Bernardino
300 North "D" Street, 3rd Floor
San Bernardino, CA 92418

Dear Ms. Wheeler:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Ms. Margo Wheeler

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February 14, 2011

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Director of Environmental &
Regulatory Compliance

February 14, 2011

"Trusted, Quality Service since 1905"

Mr. Peter Fox
City of Rialto
150 South Palm Avenue
Rialto, CA 92376

Dear Mr. Fox:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including City of Colton, City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for San Bernardino Municipal Water Department (SBMWD) to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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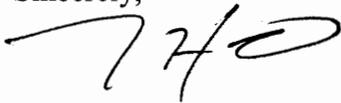
Corporate Yards: (909) 384-5260 Water Reclamation Plant: (909) 384-5258

Mr. Peter Fox
Page 2
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Director of Water Utility

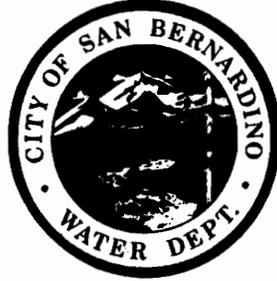
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Director of Environmental &
Regulatory Compliance

February 14, 2011

"Trusted, Quality Service since 1905"

Mr. Tom Crowley
Assistant General Manager
West Valley Water District
855 West Baseline Road
P.O. Box 920
Rialto, CA 92377

Dear Mr. Crowley:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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300 North "D" Street, San Bernardino, California 92418 P.O. Box 710, 92402 Phone: (909) 384-5141

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Corporate Yards: (909) 384-5260 Water Reclamation Plant: (909) 384-5258

Mr. Tom Crowley
Page 2
February 14, 2011

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Sincerely,



Matthew H. Litchfield, P.E.
Director of Water Utility

MHL:TB:jmt

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February 14, 2011

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Mr. T. Jarb Thaipejr
Public Works Director
City of Loma Linda
25541 Barton Road
Loma Linda, CA 92354

Dear Mr. Thaipejr:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Mr. T. Jarb Thaipejr
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Matthew H. Litchfield, P.E.
Director of Water Utility

MHL:TB:jmt

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February 16, 2011

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Mr. Rudy Garcia
Supervisor
Muscoy Mutual Water Department
2167 Darby Street
San Bernardino, CA 92407

Dear Mr. Garcia:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Mr. Rudy Garcia
Page 2
February 16, 2011

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Matthew H. Litchfield, P.E.
Director of Water Utility

MHL:TB:jmt

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February 16, 2011

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Ms. Paula Stevens
Director and Chief Operator
Baseline Garden Mutual Water Company
P.O. Box 3331
San Bernardino, CA 92413

Dear Ms. Stevens:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Ms. Paula Stevens
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Matthew H. Litchfield, P.E.
Director of Water Utility

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February 16, 2011

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Mr. Chris Diggs
Assistant Utilities Director
City of Redlands
35 Cajon Street
Redlands, CA 92373

Dear Mr. Diggs:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Mr. Chris Diggs
Page 2
February 16, 2011

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Matthew H. Litchfield, P.E.
Director of Water Utility

MHL:TB:jmt

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Ms. Jennifer P. Ares
Conservation Manager
Yucaipa Valley Water District
12770 Second Street
Yucaipa, CA 92399

Dear Ms. Ares:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Ms. Jennifer Ares
Page 2
February 16, 2011

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Sincerely,

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Matthew H. Litchfield, P.E.
Director of Water Utility

MHL:TB:jmt

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February 14, 2011

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Mr. Robert E. Martin
General Manager
East Valley Water District
3654 E. Highland Avenue, Suite 18
Highland, CA 92346

Dear Mr. Martin:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Mr. Robert E. Martin
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MHL:TB:jmt

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February 14, 2011

"Trusted, Quality Service since 1905"

Mr. Doug Headrick
General Manager
SBVMWD
380 East Vanderbilt Way
San Bernardino, CA 92408

Dear Mr. Headrick:

RE: 2010 REGIONAL URBAN WATER MANAGEMENT PLAN FOR THE SAN BERNARDINO VALLEY

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Mr. Doug Headrick
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Matthew H. Litchfield, P.E.
Director of Water Utility

MHL:TB:jmt



3654 East Highland Avenue, Suite 18, Highland, CA 92346
P.O. Box 3427, San Bernardino, CA 92413

Serving Our Community for Over 50 Years

February 14, 2011

Ms. Christine Kelley
Director, Land Use Services Department
County of San Bernardino
385 N. Arrowhead Avenue, 1st Floor
San Bernardino, CA 92415-0182

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Kelley,

Multiple agencies in the San Bernardino Valley area are coordinating the preparation of a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for East Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Ron Buchwald at (909) 888-8986 or rbuchwald@eastvalley.org, no later than February 25, 2011.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Martin', is written over a horizontal line.

Robert E. Martin, P.E.
General Manager

REM: etb

Administration (909) 885-4900, Fax (909) 889-5732 • Engineering (909) 888-8986, Fax (909) 383-1481
Customer Service (909) 889-9501, Fax (909) 888-6741 • Finance (909) 381-6463, Fax (909) 888-6741

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General Manager

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Chief Financial Officer

Ronald E. Buchwald
District Engineer



3654 East Highland Avenue, Suite 18, Highland, CA 92346
P.O. Box 3427, San Bernardino, CA 92413

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February 14, 2011

Mr. Mark Tomich
Development Services Director
City of Colton
659 N. La Cadena Drive
Colton, CA 92324

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Tomich

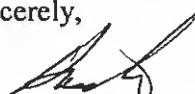
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James Morales, Jr.
Director

Larry Malmberg
Director

Robert E. Martin
General Manager

Brian W. Tompkins
Chief Financial Officer

Ronald E. Buchwald
District Engineer



3654 East Highland Avenue, Suite 18, Highland, CA 92346
P.O. Box 3427, San Bernardino, CA 92413

Serving Our Community for Over 50 Years

February 14, 2011

Ms. Deborah Woldruff
Community Development Director
City of Loma Linda
25541 Barton Road
Loma Linda, CA 92354

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Woldruff

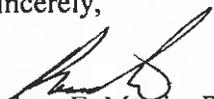
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Sincerely,


Robert E. Martin, P.E.
General Manager

REM. etb

Administration (909) 885-4900, Fax (909) 889-5732 • Engineering (909) 888-8986, Fax (909) 383-1481
Customer Service (909) 889-9501, Fax (909) 888-6741 • Finance (909) 381-6463, Fax (909) 888-6741

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February 14, 2011

Mr. John Jaquess
Community Development Director
City of Highland
27215 Baseline
Highland, CA 92346

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Jaquess

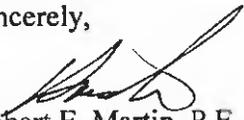
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Serving Our Community for Over 50 Years

February 14, 2011

Mr. Mike Story
Development Services Director
City of Rialto
150 S. Palm Avenue
Rialto, CA 92376

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Story,

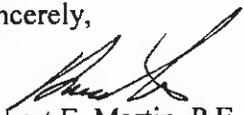
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February 14, 2011

Mr. Don Williams
Community Development Director
City of Fontana
8353 Sierra Avenue
Fontana, CA 92335

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Williams,

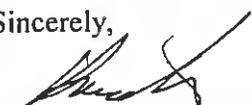
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February 14, 2011

Ms. Joyce Powers
Community and Economic Development Director
City of Grand Terrace
22795 Barton Road
Grand Terrace, CA 92313

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Powers,

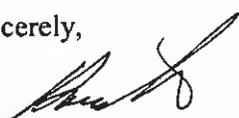
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Serving Our Community for Over 50 Years

February 14, 2011

Mr. Oscar Orci
Community Development Director
City of Redlands
35 Cajon Street
Redlands, CA 92373

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Orci,

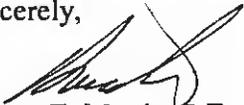
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Serving Our Community for Over 50 Years

February 14, 2011

Mr. John McMains
Community Development Director
City of Yucaipa
34272 Yucaipa Blvd.
Yucaipa, CA 92399

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. McMains,

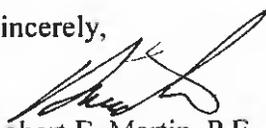
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P.O. Box 3427, San Bernardino, CA 92413

Serving Our Community for Over 50 Years

February 14, 2011

Bear Valley Mutual Water Company
101 East Olive Avenue
Redlands, CA 92373

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

To whom it may concern:

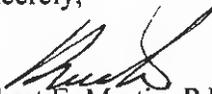
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Serving Our Community for Over 50 Years

February 14, 2011

Mr. Don Hough
Riverside Highland Water Company
12374 Michigan Street
Grand Terrace, CA 92313-5602

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Hough,

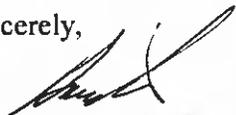
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Serving Our Community for Over 50 Years

February 14, 2011

Mr. Robert Young
Fontana Water Company
15966 Arrow Route
Fontana, CA 92335

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Young,

Multiple agencies in the San Bernardino Valley area are coordinating the preparation of a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for East Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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REM: etb

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District Engineer



3654 East Highland Avenue, Suite 18, Highland, CA 92346
P.O. Box 3427, San Bernardino, CA 92413

Serving Our Community for Over 50 Years

February 14, 2011

Muscoy Mutual Water Company
2167 Darby Street
San Bernardino, CA 92407

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

To whom it may concern:

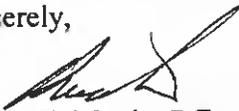
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If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Ron Buchwald at (909) 888-8986 or rbuchwald@eastvalley.org, no later than February 25, 2011.

Sincerely,


Robert E. Martin, P.E.
General Manager

REM: etb

Administration (909) 885-4900, Fax (909) 889-5732 • Engineering (909) 888-8986, Fax (909) 383-1481
Customer Service (909) 889-9501, Fax (909) 888-6741 • Finance (909) 381-6463, Fax (909) 888-6741

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Serving Our Community for Over 50 Years

February 14, 2011

Jeanne Wade Evans, Forest Supervisor
United States Forest Service
San Bernardino National Forest
1824 South Commercenter Circle
San Bernardino, CA 92408-3430

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Evans,

Multiple agencies in the San Bernardino Valley area are coordinating the preparation of a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for East Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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Robert E. Martin, P.E.
General Manager

REM: etb

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P.O. Box 3427, San Bernardino, CA 92413

Serving Our Community for Over 50 Years

February 14, 2011

Clerk of the Board
West Valley Water District
855 W. Baseline Road
Rialto, CA 92377

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

To whom it may concern,

Multiple agencies in the San Bernardino Valley area are coordinating the preparation of a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for East Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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Sincerely,

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Robert E. Martin, P.E.
General Manager

REM: etb

Administration (909) 885-4900, Fax (909) 889-5732 • Engineering (909) 888-8986, Fax (909) 383-1481
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Serving Our Community for Over 50 Years

February 14, 2011

Clerk of the Board
Yucaipa Valley Water District
12770 Second Street
Yucaipa, CA 92399

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

To whom it may concern,

Multiple agencies in the San Bernardino Valley area are coordinating the preparation of a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for East Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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Robert E. Martin, P.E.
General Manager

REM: etb

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February 14, 2011

Clerk of the Board
San Bernardino Valley Municipal
Water Department
380 East Vanderbilt Way
San Bernardino, CA 92408

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

To whom it may concern,

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Sincerely,

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Robert E. Martin, P.E.
General Manager

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P.O. Box 3427, San Bernardino, CA 92413

Serving Our Community for Over 50 Years

February 14, 2011

Clerk of the Board
San Bernardino Valley Water
Conservation District
1630 West Redlands Blvd., #A
Redlands, CA 92373

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

To whom it may concern,

Multiple agencies in the San Bernardino Valley area are coordinating the preparation of a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for East Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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Robert E. Martin, P.E.
General Manager

REM: etb Administration (909) 885-4900, Fax (909) 889-5732 • Engineering (909) 888-8986, Fax (909) 383-1481
Customer Service (909) 889-9501, Fax (909) 888-6741 • Finance (909) 381-6463, Fax (909) 888-6741

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Ronald E. Buchwald
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P.O. Box 3427, San Bernardino, CA 92413

Serving Our Community for Over 50 Years

February 14, 2011

Clerk of the Board
Big Bear Municipal Water District
P.O. Box 2863
Big Bear, CA 92315

Subject: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

To whom it may concern,

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Robert E. Martin, P.E.
General Manager

REM: etb

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Customer Service (909) 889-9501, Fax (909) 888-6741 • Finance (909) 381-6463, Fax (909) 888-6741

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855 West Base Line, P.O. Box 920
Rialto, California 92377-0920
Phone (909) 875-1804

February 23, 2011

Don Williams
Community Development Director
City of Fontana
Fontana City Hall
8353 Sierra Avenue
Fontana, CA 92335

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2010 Regional Urban Water Management Plan for the San Bernardino Valley

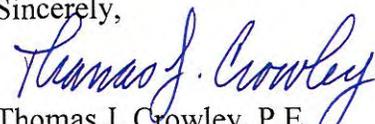
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Sincerely,


Thomas J. Crowley, P.E.
Assistant General Manager



855 West Base Line, P.O. Box 920
Rialto, California 92377-0920
Phone (909) 875-1804

February 23, 2011

Mr. Mike Story
Development Services Director
City of Rialto
Rialto Civic Center
150 S. Palm Avenue

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2010 Regional Urban Water Management Plan for the San Bernardino Valley

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Thomas J. Crowley, P.E.
Assistant General Manager



West Valley Water District

855 West Base Line, P.O. Box 920
Rialto, California 92377-0920
Phone (909) 875-1804

February 23, 2011

Mr. Mark Tomich
Development Services Director
City of Colton
659 N La Cadena Drive
Colton CA 92324

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Assistant General Manager



855 West Base Line, P.O. Box 920
Rialto, California 92377-0920
Phone (909) 875-1804

February 23, 2011

Ms. Christine Kelley
Director, Land Use Services Department
County of San Bernardino
385 N. Arrowhead Avenue - 1st Floor
San Bernardino, California 92415-0182

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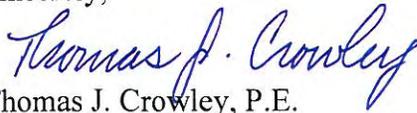
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If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Tom Crowley, Assistant General Manager at (909) 875-1804 ext. 702 or by email at tcrowley@wvwd.org, no later than March 4, 2011.

Sincerely,


Thomas J. Crowley, P.E.
Assistant General Manager



855 West Base Line, P.O. Box 920
Rialto, California 92377-0920
Phone (909) 875-1804

February 23, 2011

Carolyn Syns Luna
County of Riverside Planning Department
P.O. Box 1409
Riverside, CA 92502

Board of Directors

Earl Tillman, Jr.
President
Betty J. Gosney
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Fax (909) 875-7284 Administration

Fax (909) 875-1361 Engineering

Fax (909) 875-1849 Customer Service

2010 Regional Urban Water Management Plan for the San Bernardino Valley

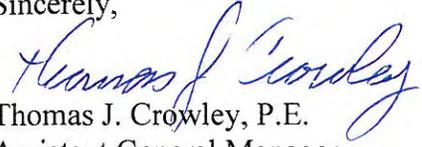
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Thomas J. Crowley, P.E.
Assistant General Manager



855 West Base Line, P.O. Box 920
Rialto, California 92377-0920
Phone (909) 875-1804

February 23, 2011

Clerk of the Board
San Bernardino Valley Municipal Water Department
380 East Vanderbilt Way,
San Bernardino, CA 92408

Board of Directors

Earl Tillman, Jr.
President
Betty J. Gosney
Vice President
Alan G. Dyer
Donald D. Olinger
Jackie Cox

Administrative Staff

Anthony W. Araiza
General Manager-Secretary
Thomas J. Crowley, P.E.
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Fax (909) 875-7284 Administration
Fax (909) 875-1361 Engineering
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2010 Regional Urban Water Management Plan for the San Bernardino Valley

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Sincerely,

Thomas J. Crowley, P.E.
Assistant General Manager

COLTON



Public Utilities

March 14, 2011

Mr. Clyde Graham
President, Terrace Water Company
1095 1/2 Stevenson St
Colton, CA 92324

2010 Regional Urban Water Management Plan for the San Bernardino Valley

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for City of Colton Public Utilities to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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If your agency would like to learn more about the Regional Urban Water Management Plan, please contact me at 909-514-4210 or by email at vortiz@ci.colton.ca.us no later than April 7, 2011.

Sincerely,

A handwritten signature in black ink, appearing to read "Victor Ortiz", with a large, stylized flourish extending to the right.

Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street
Colton, California 92324
(909) 370-5099

Committed to Our Community

COLTON



Public Utilities

March 24, 2011

Clerk of the Board
San Bernardino Valley Municipal Water District
380 East Vanderbilt Way,
San Bernardino CA 92408

2010 Regional Urban Water Management Plan for the San Bernardino Valley

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for City of Colton Public Utilities to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street
Colton, California 92324
(909) 370-5099

Committed to Our Community

COLTON



Public Utilities

March 24, 2011

Ms. Christine Kelley
Director, Land Use Services Department
County of San Bernardino
385 N. Arrowhead Avenue – 1st Floor
San Bernardino CA 92415-0182

2010 Regional Urban Water Management Plan for the San Bernardino Valley

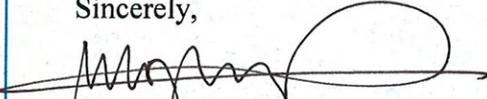
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Sincerely,


Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street
Colton, California 92324
(909) 370-5099

Committed to Our Community

COLTON



Public Utilities

March 24, 2011

Ms. Deborah Woldruff
Community Development Director
City of Loma Linda
25541 Barton Road
Loma Linda, CA 92354

2010 Regional Urban Water Management Plan for the San Bernardino Valley

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for City of Colton Public Utilities to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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Sincerely,

Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street
Colton, California 92324
(909) 370-5099

Committed to Our Community

COLTON



Public Utilities

March 24, 2011

Ms. Joyce Powers
Community and Economic Development Director
City of Grand Terrace
22795 Barton Road
Grand Terrace, CA 92313

2010 Regional Urban Water Management Plan for the San Bernardino Valley

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Sincerely,

Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street
Colton, California 92324
(909) 370-5099

Committed to Our Community

COLTON



Public Utilities

March 24, 2011

Mr. Don Hough
Riverside Highland Water Company
12374 Michigan Street
Grand Terrace, CA 92313-5602

2010 Regional Urban Water Management Plan for the San Bernardino Valley

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Sincerely,

Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street

Colton, California 92324

[909] 370-5099

Committed to Our Community

COLTON



Public Utilities

March 24, 2011

Clerk of the Board
San Bernardino Valley Water
Conservation District
1630 West Redlands Blvd #A
Redlands, CA 92373

2010 Regional Urban Water Management Plan for the San Bernardino Valley

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Sincerely,

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Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street
Colton, California 92324
(909) 370-5099

Committed to Our Community

COLTON



Public Utilities

March 24, 2011

Clerk of the Board
East Valley Water District
3654 E. Highland Avenue, Suite 18
Highland, CA 92346-2607

2010 Regional Urban Water Management Plan for the San Bernardino Valley

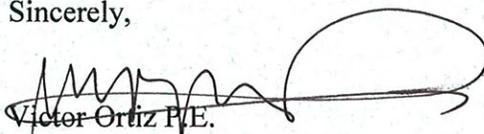
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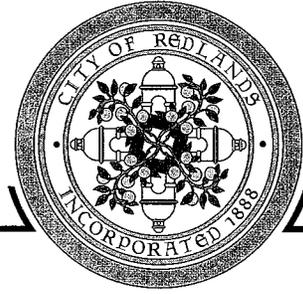
Sincerely,


Victor Ortiz P.E.
Engineering Manager
Public Works and Utility Services Department
City of Colton

160 South 10th Street
Colton, California 92324
(909) 370-5099

Committed to Our Community

City of Redlands



February 16, 2011

Clerk of the Board
San Bernardino Valley Municipal Water Department
380 East Vanderbilt Way, San Bernardino, CA 92408

Dear Clerk of the Board,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

The 2010 Redlands UWMP will include anticipated water demands in the San Bernardino Valley for all or portions of the cities of Redlands, Loma Linda, San Bernardino, Yucaipa, and unincorporated areas of San Bernardino County. Water demand projections will rely on growth and population estimates from local land use plans and state and regional agencies. Redlands is encouraging participation by land use agencies, water use agencies, and other interested parties.

We anticipate a draft UWMP will be available for public review starting in May 2011, and we will hold a public hearing in June 2011 prior to adoption of the UWMP. If you would like to learn more about our UWMP, review information to be included, and/or participate in the development of this important document, please contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read "Chris Diggs".

Chris Diggs
Assistant Utilities Director

"Preserving the Past, Protecting the Future"

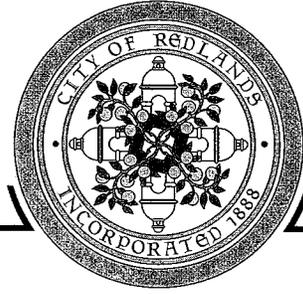
P.O. BOX 3005

•

REDLANDS, CA 92373



City of Redlands



February 16, 2011

Clerk of the Board
Yucaipa Valley Water District
12770 Second Street
Yucaipa, CA 92399

Dear Clerk of the Board,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

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Chris Diggs
Assistant Utilities Director

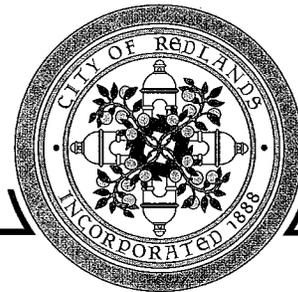
"Preserving the Past, Protecting the Future"

P.O. BOX 3005

• REDLANDS, CA 92373



City of Redlands



February 16, 2011

Clerk of the Board
East Valley Water District
3654 E. Highland Avenue, Suite 18
Highland, California 92346-2607

Dear Clerk of the Board,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

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Chris Diggs
Assistant Utilities Director

"Preserving the Past, Protecting the Future"

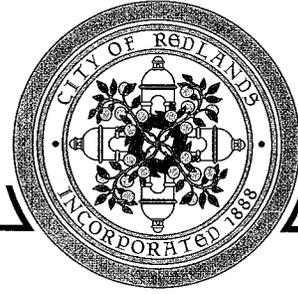
P.O. BOX 3005

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REDLANDS, CA 92373



City of Redlands



February 16, 2011

Clerk of the Board
San Bernardino Valley Water Conservation District
1630 West Redlands Blvd. # A
Redlands, CA 92373

Dear Clerk of the Board,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

The 2010 Redlands UWMP will include anticipated water demands in the San Bernardino Valley for all or portions of the cities of Redlands, Loma Linda, San Bernardino, Yucaipa, and unincorporated areas of San Bernardino County. Water demand projections will rely on growth and population estimates from local land use plans and state and regional agencies. Redlands is encouraging participation by land use agencies, water use agencies, and other interested parties.

We anticipate a draft UWMP will be available for public review starting in May 2011, and we will hold a public hearing in June 2011 prior to adoption of the UWMP. If you would like to learn more about our UWMP, review information to be included, and/or participate in the development of this important document, please contact me.

Very truly yours,

Chris Diggs
Assistant Utilities Director

"Preserving the Past, Protecting the Future"

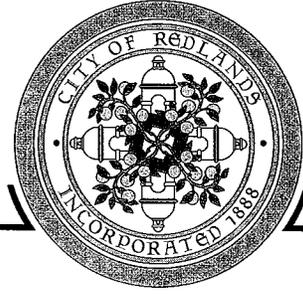
P.O. BOX 3005



REDLANDS, CA 92373



City of Redlands



February 16, 2011

Bear Valley Mutual Water Company
101 East Olive Avenue
Redlands, CA 92373

Dear Bear Valley Mutual Water Company,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

The 2010 Redlands UWMP will include anticipated water demands in the San Bernardino Valley for all or portions of the cities of Redlands, Loma Linda, San Bernardino, Yucaipa, and unincorporated areas of San Bernardino County. Water demand projections will rely on growth and population estimates from local land use plans and state and regional agencies. Redlands is encouraging participation by land use agencies, water use agencies, and other interested parties.

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Very truly yours,

Chris Diggs
Assistant Utilities Director

"Preserving the Past, Protecting the Future"

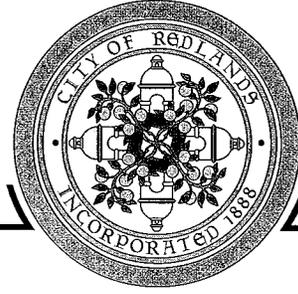
P.O. BOX 3005

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REDLANDS, CA 92373



City of Redlands



February 16, 2011

Mr. John McMains
Community Development Director
City of Yucaipa
34272 Yucaipa Boulevard
Yucaipa, CA 92399

Dear Mr. John McMains,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

The 2010 Redlands UWMP will include anticipated water demands in the San Bernardino Valley for all or portions of the cities of Redlands, Loma Linda, San Bernardino, Yucaipa, and unincorporated areas of San Bernardino County. Water demand projections will rely on growth and population estimates from local land use plans and state and regional agencies. Redlands is encouraging participation by land use agencies, water use agencies, and other interested parties.

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Very truly yours,

Chris Diggs
Assistant Utilities Director

"Preserving the Past, Protecting the Future"

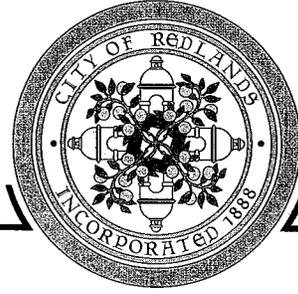
P.O. BOX 3005

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REDLANDS, CA 92373



City of Redlands



February 16, 2011

Mr. John Jaquess
Community Development Director
City of Highland
27215 Base Line
Highland, CA 92346

Dear Mr. John Jaquess,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

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Very truly yours,

Chris Diggs
Assistant Utilities Director

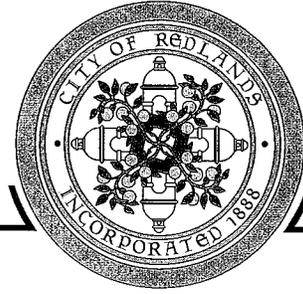
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P.O. BOX 3005

• REDLANDS, CA 92373



City of Redlands



February 16, 2011

Ms. Margo Wheeler
Director, Community Development Department
City of San Bernardino
300 North "D" Street, 3rd Floor
San Bernardino, CA 92418

Dear Ms. Margo Wheeler,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

The 2010 Redlands UWMP will include anticipated water demands in the San Bernardino Valley for all or portions of the cities of Redlands, Loma Linda, San Bernardino, Yucaipa, and unincorporated areas of San Bernardino County. Water demand projections will rely on growth and population estimates from local land use plans and state and regional agencies. Redlands is encouraging participation by land use agencies, water use agencies, and other interested parties.

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Very truly yours,

A handwritten signature in black ink, appearing to read "Chris Diggs".

Chris Diggs
Assistant Utilities Director

"Preserving the Past, Protecting the Future"

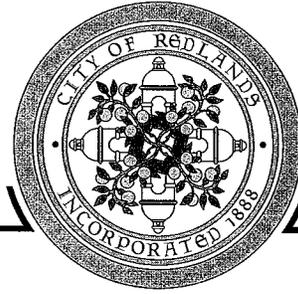
P.O. BOX 3005

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REDLANDS, CA 92373



City of Redlands



February 16, 2011

Ms. Deborah Woldruff
Community Development Director
City of Loma Linda
25541 Barton Road
Loma Linda, CA 92354

Dear Ms. Deborah Woldruff,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

The 2010 Redlands UWMP will include anticipated water demands in the San Bernardino Valley for all or portions of the cities of Redlands, Loma Linda, San Bernardino, Yucaipa, and unincorporated areas of San Bernardino County. Water demand projections will rely on growth and population estimates from local land use plans and state and regional agencies. Redlands is encouraging participation by land use agencies, water use agencies, and other interested parties.

We anticipate a draft UWMP will be available for public review starting in May 2011, and we will hold a public hearing in June 2011 prior to adoption of the UWMP. If you would like to learn more about our UWMP, review information to be included, and/or participate in the development of this important document, please contact me.

Very truly yours,

Chris Diggs
Assistant Utilities Director

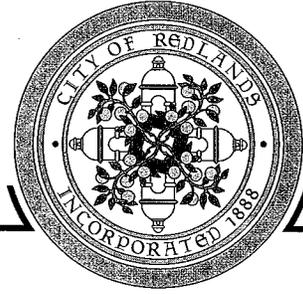
"Preserving the Past, Protecting the Future"

P.O. BOX 3005

• REDLANDS, CA 92373



City of Redlands



February 16, 2011

Ms. Christine Kelley
Director, Land Use Services Department
County of San Bernardino
385 N. Arrowhead Avenue - 1st Floor
San Bernardino, California 92415-0182

Dear Ms. Christine Kelley,

Multiple agencies in the San Bernardino Valley area are preparing a Regional Urban Water Management Plan, including the cities of Colton, Loma Linda, Redlands, San Bernardino, and East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document that includes an evaluation and comparison of a utility's water supply and ability to meet existing and projected demands. The completion of a UWMP is necessary as it allows Redlands to remain eligible for state drought water bank assistance and is a requirement for state grant and loan funding programs.

The 2010 Redlands UWMP will include anticipated water demands in the San Bernardino Valley for all or portions of the cities of Redlands, Loma Linda, San Bernardino, Yucaipa, and unincorporated areas of San Bernardino County. Water demand projections will rely on growth and population estimates from local land use plans and state and regional agencies. Redlands is encouraging participation by land use agencies, water use agencies, and other interested parties.

We anticipate a draft UWMP will be available for public review starting in May 2011, and we will hold a public hearing in June 2011 prior to adoption of the UWMP. If you would like to learn more about our UWMP, review information to be included, and/or participate in the development of this important document, please contact me.

Very truly yours,

Chris Diggs
Assistant Utilities Director

"Preserving the Past, Protecting the Future"

P.O. BOX 3005

• REDLANDS, CA 92373





City of Loma Linda

25541 Barton Road, Loma Linda, California 92354-3160 • (909) 799-2800 • FAX (909) 799-2890

Sister Cities: Manipal, Karnataka, India - Libertadore, San Martin, Argentina • www.lomalinda-ca.gov

March 28, 2011

Clerk of the Board
San Bernardino Valley Municipal Water Department
380 East Vanderbilt Way
San Bernardino, Ca. 92408

2010 Regional Urban Water Management Plan for the San Bernardino Valley

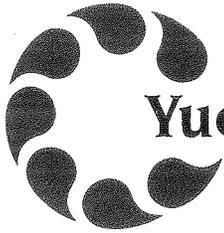
Multiple agencies in the San Bernardino Valley area are coordinating the prepare a Regional Urban Water Management Plan, including the Cities of Colton, Loma Linda, Redlands and San Bernardino along with East Valley, West Valley, Yucaipa Valley and San Bernardino Valley Municipal Water Districts and the Riverside Highland Water Company. The Urban Water Management Planning Act requires that every urban water supplier above a certain size prepare and adopt an Urban Water Management Plan (UWMP) every five (5) years. The UWMP is a planning document that water suppliers use to evaluate and compare existing water supplies and reliability to projected demands. A complete UWMP is necessary for the City of Loma Linda to remain eligible for State drought water bank assistance. It is also required for State grant and loan funding opportunities.

The 2010 UWMP will include an update of anticipated water demands in the San Bernardino Valley including the City of Loma Linda. Water demand projections will rely upon growth and population estimates from local land use plans as well as State and regional planning agencies. The City of Loma Linda encourages participation by land use agencies, water use agencies and any other stakeholder or interested party in the UWMP process. The City of Loma Linda extends an invitation to your agency an opportunity to meet with us to review and comment on the various elements of the UWMP. The elements include assumptions concerning population growth, future water supply, demands and conservation efforts.

We anticipate a draft UWMP will be available in May 2011 with a public hearing scheduled in June 2011. Adoption of the UWMP would then follow the review and hearing process. Your timely input will be greatly appreciated. If you have any questions or need additional information please contact me, Russ Handy at (909) 799-4420, or rhandy@lomalinda-ca.gov by April 5, 2011.

Sincerely,

Russ Handy, Utility Services Superintendent



Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

February 10, 2011

Ms. Christine Kelley
Director, Land Use Services Department
County of San Bernardino
385 N. Arrowhead Avenue – 1st Floor
San Bernardino, CA 92415-0182

RE: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Kelley:

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every “urban water supplier” of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

The 2010 Regional UWMP will include an update of anticipated water demands in the San Bernardino Valley including the city of Yucaipa and the County of San Bernardino. Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the Regional UWMP. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Regional UWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

We anticipate that a draft Regional UWMP will be available for public review starting in May 2011 and our agency will hold a public hearing in June 2011, prior to adoption of the Regional UWMP. Hence we would like to solicit your input in the near future. In addition, Yucaipa Valley Water District will host public review and a public hearing for the agency’s individual Urban Water Management Plan that will require a separate hearing date to be determined.

If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Jennifer Ares at (909) 790-3301.

Sincerely,

Jennifer Ares
Resource Sustainability Manager

Directors and Officers

IAN CUTHBERTSON
Division 1

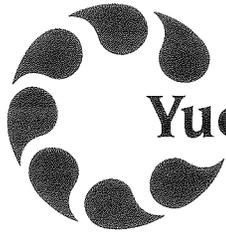
BRUCE GRANLUND
Division 2

JAY BOGH
Division 3

LONNI GRANLUND
Division 4

HANK WOCHHOLZ
Division 5

JOSEPH B. ZOBA
General Manager
and Secretary



Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

February 10, 2011

Mr. John McMains
Community Development Director
City of Yucaipa
34272 Yucaipa Boulevard
Yucaipa, CA 92399

RE: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. McMains:

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

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Sincerely,

Jennifer Ares
Resource Sustainability Manager

Directors and Officers

IAN CUTHBERTSON
Division 1

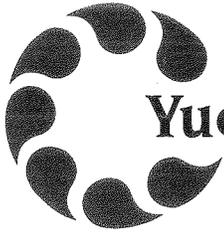
BRUCE GRANLUND
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JOSEPH B. ZOBA
General Manager
and Secretary



Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

February 10, 2011

Clerk of the Board
San Bernardino Valley Water Conservation District
1630 West Redlands Blvd. #A
Redlands, CA 92373

RE: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Clerk of the Board:

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

The 2010 Regional UWMP will include an update of anticipated water demands in the San Bernardino Valley including the City of Yucaipa and the County of San Bernardino. Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the Regional UWMP. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Regional UWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

We anticipate that a draft Regional UWMP will be available for public review starting in May 2011 and our agency will hold a public hearing in June 2011, prior to adoption of the Regional UWMP. Hence we would like to solicit your input in the near future. In addition, Yucaipa Valley Water District will host public review and a public hearing for the agency's individual Urban Water Management Plan that will require a separate hearing date to be determined.

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Sincerely,

Jennifer Ares
Resource Sustainability Manager

Directors and Officers

IAN CUTHBERTSON
Division 1

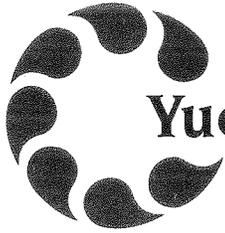
BRUCE GRANLUND
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Division 5

JOSEPH B. ZOBA
General Manager
and Secretary



Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

February 10, 2011

Ms. Jeanne Wade Evans, Forest Supervisor
United States Forest Service
San Bernardino National Forest
1824 South Commercenter Circle
San Bernardino, CA 92408-3430

RE: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Ms. Evans:

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

The 2010 Regional UWMP will include an update of anticipated water demands in the San Bernardino Valley including the City of Yucaipa and the County of San Bernardino. Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the Regional UWMP. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Regional UWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

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If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Jennifer Ares at (909) 790-3301.

Sincerely,

Jennifer Ares
Resource Sustainability Manager

Directors and Officers

IAN CUTHBERTSON
Division 1

BRUCE GRANLUND
Division 2

JAY BOGH
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Division 4

HANK WOCHHOLZ
Division 5

JOSEPH B. ZOBA
General Manager
and Secretary



Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

February 10, 2011

Clerk of the Board
San Bernardino Valley Municipal Water District
380 East Vanderbilt Way
San Bernardino, CA 92408

RE: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Clerk of the Board:

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

The 2010 Regional UWMP will include an update of anticipated water demands in the San Bernardino Valley including the City of Yucaipa and the County of San Bernardino. Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the Regional UWMP. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Regional UWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

We anticipate that a draft Regional UWMP will be available for public review starting in May 2011 and our agency will hold a public hearing in June 2011, prior to adoption of the Regional UWMP. Hence we would like to solicit your input in the near future. In addition, Yucaipa Valley Water District will host public review and a public hearing for the agency's individual Urban Water Management Plan that will require a separate hearing date to be determined.

If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Jennifer Ares at (909) 790-3301.

Sincerely,

Jennifer Ares
Resource Sustainability Manager

Directors and Officers

IAN CUTHBERTSON
Division 1

BRUCE GRANLUND
Division 2

JAY BOGH
Division 3

LONNI GRANLUND
Division 4

HANK WOCHHOLZ
Division 5

JOSEPH B. ZOBA
General Manager
and Secretary



Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

February 10, 2011

Mr. Joe Calpino, District Manager
Western Heights Mutual Water Company
32352 Avenue D
Yucaipa, CA 92399

RE: 2010 Regional Urban Water Management Plan for the San Bernardino Valley

Dear Mr. Calpino:

Multiple agencies in the San Bernardino Valley area are coordinating to prepare a Regional Urban Water Management Plan, including the City of Colton, the City of Loma Linda, City of Redlands, City of San Bernardino, East Valley Water District, Riverside Highland Water Company, San Bernardino Valley Municipal Water District, West Valley Water District, and Yucaipa Valley Water District. The Urban Water Management Planning Act requires every "urban water supplier" of a certain size to prepare and adopt an Urban Water Management Plan (UWMP) at least once every five years. The UWMP is a planning document in which water suppliers evaluate and compare their water supply and reliability to their existing and projected demands. A complete UWMP is necessary for Yucaipa Valley Water District to remain eligible for state drought water bank assistance and is a requirement of state grant and loan funding programs.

The 2010 Regional UWMP will include an update of anticipated water demands in the San Bernardino Valley including the City of Yucaipa and the County of San Bernardino. Water demand projections will rely upon growth and population estimates from local land use plans and state and regional agencies. Yucaipa Valley Water District is encouraging participation by land use agencies, water use agencies, and other interested parties in the Regional UWMP. **Yucaipa Valley Water District would like to extend to your agency an opportunity to meet with us to go over the various elements of the Regional UWMP, including assumptions about future population, future water demand, future water supplies, and upcoming water conservation programs.**

We anticipate that a draft Regional UWMP will be available for public review starting in May 2011 and our agency will hold a public hearing in June 2011, prior to adoption of the Regional UWMP. Hence we would like to solicit your input in the near future. In addition, Yucaipa Valley Water District will host public review and a public hearing for the agency's individual Urban Water Management Plan that will require a separate hearing date to be determined.

If your agency would like to learn more about the Regional Urban Water Management Plan, please contact Jennifer Ares at (909) 790-3301.

Sincerely,

Jennifer Ares
Resource Sustainability Manager

Directors and Officers

IAN CUTHBERTSON
Division 1

BRUCE GRANLUND
Division 2

JAY BOGH
Division 3

LONNI GRANLUND
Division 4

HANK WOCHHOLZ
Division 5

JOSEPH B. ZOBA
General Manager
and Secretary

**Hearing Notices Amended Regional Urban Water
Management Plan <Pending>**

Appendix B

Factors Affecting State Water Project Supply

APPENDIX B

FACTORS AFFECTING STATE WATER PROJECT SUPPLY

Since the last round of Urban Water Management Plans (UWMPs) were prepared in 2005, the California Department of Water Resources (DWR) has twice updated its State Water Project (SWP) Delivery Reliability Report. In each of its updates, DWR has projected further reductions in average SWP water deliveries than were projected in 2005. The 2009 Report is the most recent update, and identifies several emerging factors that have the potential to affect the availability and reliability of SWP supplies. Although the 2009 Report presents an extremely conservative projection of SWP delivery reliability, particularly in light of events occurring since its release, it remains the best available information concerning the SWP. Following is information and a brief summary of several factors identified in the 2009 Report having the potential to affect the availability and reliability of SWP supplies.

New U.S. Fish and Wildlife Service Biological Opinion for Delta Smelt and Related Litigation Matters

SWP operations have been challenged in connection with potential impacts to the delta smelt, a small fish that resides only in the Delta and is protected under CESA and the ESA. In February 2005, the United States Fish and Wildlife Service (FWS) issued a “no jeopardy” determination and biological opinion (B.O.) analyzing potential impacts to the delta smelt in connection with the long-term coordinated operations of the California State Water Project (SWP) and the federal Central Valley Project (CVP) through the year 2030. The project/action evaluated in the B.O., formally known as the “Operations Criteria and Plan” (or OCAP), includes existing pumping operations, proposals to increase SWP pumping over the next 30-year period, and other proposed long-term operational changes. In February 2005, several environmental groups filed suit in federal court against FWS and the Secretary of the Interior challenging the validity of the B.O. (*Natural Resources Defense Council v. Kempthorne*, USDC Case No. 05-CV-1207-OWW.)

In May 2007, the Federal District Court for the Eastern District of California determined that the B.O. violated the requirements of the ESA. In order that the SWP and CVP could continue to operate, the court established interim operating requirements for the Projects that would remain in place until a new B.O. was completed (the Interim Remedies)(December 14, 2007). The Interim Remedies were based on various factors occurring in the Delta, such as prevailing hydrologic and flow conditions, and the distribution and spawning status of delta smelt. For the 2007-2008 water year, the Interim Remedies were reported to have reduced SWP supplies by approximately 500,000 acre-feet.

On December 15, 2008, FWS issued its new B.O. The B.O. concludes that the proposed long-term coordinated CVP and SWP operations will “jeopardize” the delta smelt and “adversely modify” its critical habitat according to ESA standards. Pursuant to the ESA, because the B.O. is a “jeopardy” opinion, FWS was required to formulate and adopt as part of the B.O. a “Reasonable and Prudent Alternative” (RPA) to the proposed action that FWS believes will not cause jeopardy to the delta smelt or adversely modify or destroy its critical habitat, and which can be implemented by Reclamation and DWR. (16 U.S.C. § 1536(b)(3)(A).) The RPA adopted

as part of the B.O. imposed various new operating restrictions upon the CVP and SWP and has the potential to result in substantial water supply reductions from the Projects.

Soon after the B.O. was issued, DWR published information estimating that in comparison to the level of SWP exports from the Delta previously authorized under State Water Resources Control Board (State Board) Decision 1641 (D-1641),¹ the FWS B.O. could reduce those deliveries by 18 to 29 percent during average and dry conditions, respectively. As with the Interim Remedies, potential water supply restrictions under the new B.O. are dependent on highly variable factors such as hydrologic conditions affecting Delta water supplies, flow conditions in the Delta, migratory and reproductive patterns of delta smelt, and numerous other non-Project factors that impact the health and abundance of delta smelt and its critical habitat.

Due to a number of alleged scientific and other deficiencies in the new FWS B.O., in early 2009 the State Water Contractors, the San Luis and Delta-Mendota Water Authority and several individual State and Federal contractor water agencies filed legal challenges against the B.O., which were consolidated in the Federal District Court for the Eastern District of California. (*The Consolidated Delta Smelt Cases*, Lead Case No. 1:09-CV-00407-OWW-GSA.) Early on in the proceedings, several of the plaintiff water agencies and the federal defendants filed cross-motions for summary judgment to determine whether a violation of the National Environmental Policy Act (NEPA) occurred in connection with federal defendants' adoption and implementation of the NMFS B.O. and its RPA. In a Memorandum Decision issued in November 2009, the court ruled that the moving plaintiffs were entitled to summary judgment on their claim that the federal defendants violated NEPA by failing to perform any NEPA analysis prior to adopting and implementing the new FWS B.O. and its RPA. (*The Consolidated Delta Smelt Cases*, Doc. No. 399 at 46-47.)

Separately, several of the plaintiffs filed a motion for preliminary injunction against the implementation of Component 2 (Action 3) of the RPA that proposed to restrict Delta exports during a particular timeframe in spring and summer months, depending on certain biological and environmental parameters. In May 2010, the court issued its Findings of Fact and Conclusions of Law Regarding Plaintiffs' Request for Preliminary Injunction Against Implementation of RPA Component 2 (a/k/a Action 3). In that decision, the court reconfirmed its earlier ruling that the federal defendants failed to examine the potential environmental and human consequences of the RPA actions adopted under the B.O. in violation of NEPA. (*Consolidated Delta Smelt Cases*, Doc. No. 704 at 120-122.) The court also ruled that the plaintiffs were likely to prevail on their claims that FWS violated the ESA and the federal Administrative Procedure Act (APA) in formulating and adopting RPA Component 2 without support of the best available science and without adequate explanation regarding its biological benefit to delta smelt. (*Id.* at 123-125.)

In the meantime, the parties also filed cross motions for summary judgment to obtain a final ruling in the cases. Those motions were argued in early July 2010. In December 2010, the court issued a memorandum decision that invalidated the B.O. and RPA in several respects and remanded the matter to FWS. Further proceedings are expected to address interim operations of the SWP and CVP.

¹ See additional discussion below regarding SWP exports as authorized under D-1641.

Because delta smelt are also protected under the California ESA, the SWP and CVP are required to obtain take authorization from the California Department of Fish and Game (DFG). In July 2009, DFG issued a “consistency determination” pursuant to Fish and Game Code section 2080.1. That determination provides that operations of the SWP and CVP are in compliance with CESA so long as those operations occur in accordance with the FWS delta smelt B.O. and RPA. Because the consistency determination posed a risk that the SWP could remain bound to the terms of the RPA even if the FWS B.O. was eventually overturned by a federal court, DFG’s decision was challenged in state court by the State Water Contractors and the Kern County Water Agency. (*State Water Contractors v. California Department of Fish and Game, et al.*, Kern County Superior Court Case No. S-1500-CV-268074²; *Kern County Water Agency v. Department of Fish and Game, et al.*, Sacramento County Superior Court Case No. 34-2010-80000450.) The challenges assert, among other things, that DFG’s consistency determination is invalid because it relies upon and seeks to enforce restrictions established under the new FWS B.O. that are alleged under *The Consolidated Delta Smelt Cases* to be invalid and unenforceable. The case is currently stayed by stipulation of the parties, pending the outcome of *The Consolidated Delta Smelt Cases*.

These litigation matters challenging the validity of the FWS B.O. and the DFG consistency determination give rise to the possibility that the restrictions on SWP exports could be relaxed and that SWP exports may return to the levels allowed by the Interim Remedies (above) or State Board Decision D-1641³ pending issuance of a new B.O. and/or the implementation of the Bay-Delta Conservation Plan (BDCP). As an additional factor, by letter dated May 3, 2010, the federal Secretaries of the Department of Interior and the Department of Commerce have announced a joint initiative to develop a single integrated B.O. for the Delta and related water operations of the CVP and SWP.⁴ The timing, nature and extent of the regulatory measures to be contained in any such B.O., and whether those measures would be legally challenged or upheld, cannot be predicted with any degree of certainty at this time.

New National Marine Fisheries Service Biological Opinion Salmon/Anadromous Species and Related Litigation Matters

SWP operations have also been challenged in connection with potential impacts to anadromous species in the San Francisco Bay-Delta estuary. In October 2004, the National Marine Fisheries Service (NMFS) issued a “no jeopardy” determination and B.O. analyzing potential impacts to federally listed winter-run and spring-run salmon and steelhead trout related to the long-term coordinated operations of the CVP and SWP through the year 2030. As with the 2005 FWS B.O. and *Kemphorne* case discussed above, OCAP was the project/action evaluated in the 2004

² In June 2010, the case was transferred to Sacramento, California, where it is now referenced as *State Water Contractors v. California Department of Fish and Game, et al.*, Sacramento County Superior Court Case No. 34-2010-80000552.

³ D-1641 implements the objectives of the 1995 Bay-Delta Plan and imposes flow and water quality objectives to assure protection of beneficial uses in the Delta. The requirements of D-1641 address, among other things, standards for fish and wildlife protection, municipal and industrial water quality, agricultural water quality, and salinity. D-1641 imposed a new operating regime for the Delta, including measures such as X2, an export/inflow ratio, and the Vernalis Adaptive Management Program (VAMP). The standards under D-1641 are accomplished through requirements and conditions imposed on the water right permits for the SWP, the CVP and others. (See, California Water Plan Update 2009, Regional Reports Volume 3, Sacramento-San Joaquin River Delta at DB-6.)

⁴ <http://www.doi.gov/news/pressreleases/upload/Roy.pdf>

NMFS B.O., which included the Projects' existing Delta pumping operations, proposals to increase SWP pumping by 20 percent over the long term, and other operational changes. In August 2005, several environmental groups filed suit in federal court against NMFS and the Secretary of Commerce challenging the validity of the B.O. (*Pacific Coast Federation of Fishermen's Associations, et al. v. Gutierrez, et al.*, Case No. 1:06-CV-00245-OWW-GSA.)

In April 2008, the United States District Court for the Eastern District of California issued its decision invalidating the NMFS B.O. for failing to comply with the requirements of the federal ESA. As with the *Kemphorne* case (above), the court did not vacate the B.O., meaning that SWP and CVP operations were authorized to continue pending the preparation of a new B.O. and any interim remedies imposed by the court. Remedy proceedings were held similar to those conducted in the *Kemphorne* case discussed above and, in separate Findings of Fact and Conclusions of Law issued in July and October 2008, Judge Wanger determined that additional water supply restrictions beyond those required in *Kemphorne* (i.e., the Interim Remedies for delta smelt) were not required at that time for the anadromous species.

On June 4, 2009, NMFS issued a new B.O. regarding the effects of SWP and CVP operations on listed winter and spring-run salmon, steelhead trout, green sturgeon, and southern resident killer whales. Like the new FWS B.O. discussed above, the NMFS B.O. concludes that the proposed long-term coordinated operations of the CVP and SWP will jeopardize the species and adversely modify the critical habitats of most of those species. Pursuant to the ESA, because the B.O. is a "jeopardy" opinion, NMFS was required to formulate and adopt a Reasonable and Prudent Alternative (RPA) to the proposed action that NMFS believed would not cause jeopardy to the species or adversely modify or destroy their critical habitats, and which can be implemented by Reclamation and DWR. (16 U.S.C. § 1536(b)(3)(A).) The RPA adopted by NMFS imposed various new operating restrictions upon the CVP and SWP which have the potential to result in substantial reductions in water supply from the Projects.

NMFS calculated that its new B.O. has the potential to reduce SWP deliveries from the Delta by 7 percent in addition to the potential reductions under the new FWS B.O. for delta smelt (above). DWR has estimated that average annual reductions to SWP deliveries could be closer to 10 percent beyond the restrictions imposed under the FWS B.O. (thus, a total of 28 to 39 percent during average and dry conditions, respectively, in comparison to SWP exports authorized under D-1641). As with the FWS B.O., potential water supply restrictions under the NMFS B.O. are dependent on several variable factors, such as hydrologic conditions in the Delta region, migratory and reproductive patterns of protected salmonid species, and other non-Project factors that impact the health and abundance of the species and their habitats.

In June 2009, numerous legal challenges were filed against the new NMFS B.O. and consolidated in the United States District Court for the Eastern District of California alleging, among other things, that the operating restrictions set forth in the B.O. are in violation of the federal ESA, the federal APA, and other laws. (*The Consolidated Salmonid Cases*, Lead Case No. 1:09-CV-1053-OWW-DLB.) Early in the proceedings, several of the plaintiff water agencies and the federal defendants filed cross-motions for summary judgment to determine whether a NEPA violation occurred in connection with federal defendants' adoption and implementation of the NMFS B.O. and its RPA. The court heard oral argument on the motions in February 2010, and took the matter under submission.

Separately, in January 2010, several of the plaintiff water agencies filed applications for a temporary restraining order and motions for preliminary injunction regarding the implementation of RPA Actions IV.2.1 and IV.2.3, which are designed to restrict Delta exports during a particular timeframe in spring and summer months, depending on certain biological and environmental parameters. In February 2010, the court issued its Memorandum Decision and Order Re Plaintiffs' Motion for Temporary Restraining Order. The decision found that federal defendants violated NEPA by failing to consider the potential human and environmental impacts caused by implementation of the RPA Actions, and that a temporary injunction against RPA Action IV.2.3 would not cause jeopardy to the species, whereas a failure to enjoin the Action would cause irreparable water supply impacts to the plaintiffs. (*The Consolidated Salmonid Cases*, Doc. No. 202 at 20-22.) In subsequent rulings issued in March 2010, the court ordered that plaintiffs were entitled to summary judgment on their claims that federal defendants violated NEPA by failing to prepare any NEPA documentation in the adoption and implementation of the NMFS B.O. and its RPA. (*The Consolidated Salmonid Cases*, Doc. Nos. 266 and 288 at 3.)

Plaintiffs' motions for a preliminary injunction were heard in April and May 2010, and in May 2010 the court issued Findings of Fact and Conclusions of Law Re Plaintiffs' Request for Preliminary Injunction. In that decision, the court reconfirmed its previous ruling that federal defendants violated NEPA by failing to undertake an analysis of whether the RPA Actions adopted by NMFS under its new B.O. would adversely impact humans and the human environment. (*The Consolidated Salmonid Cases*, Doc. No. 347 at 129-130, 138.) Further, the court ruled that the plaintiff water agencies had a substantial likelihood of being able to show that the federal defendants violated the ESA and the APA by failing to adequately justify, through generally recognized scientific principles, the precise flow prescriptions imposed by RPA Actions IV.2.1 and IV.2.3. (*Id.* at 130, 133-134.)⁵

Following its May 18th ruling, the court conducted further proceedings and accepted additional evidence to address the proposed injunction and whether the relief requested by the plaintiffs would adversely affect the species (namely, Central Valley spring-run Chinook salmon and Central Valley steelhead). Based on those proceedings, in June 2010, the court issued Supplemental Findings of Fact and Conclusions of Law Re Plaintiffs' Request for Preliminary Injunction. (*The Consolidated Salmonid Cases*, Doc. No. 380.) The Supplemental Findings noted that if RPA Actions IV.2.1 and IV.2.3 were enjoined through June 15, 2010, the FWS B.O. for delta smelt (above) would control Project operations between May 26th and June 15th, unless those restrictions were also enjoined, in which case Project operations would be controlled by D-1641.⁶ (Doc. No. 380 at 12.) Accordingly, the court granted an injunction against RPA Actions

⁵ RPA Action IV.2.1 limits combined water exports by the CVP and SWP based on San Joaquin River flows as measured at Vernalis. (NMFS B.O. at 642.) When flows at Vernalis range from 0 to 6,000 cfs, Action IV.2.1 limits combined CVP and SWP exports to 1,500 cfs. (NMFS B.O. at 642.) When flows at Vernalis range from 6,000 to 21,750 cfs, Action IV.2.1 imposes an inflow to combined CVP and SWP exports ratio of 4:1. (NMFS B.O. at 642.) The pumping restrictions associated with Action IV.2.1 terminate May 31st. (NMFS B.O. at 641-642.) RPA Action IV.2.3 limits Old and Middle River (OMR) flows to no more negative than -2,500 cfs between January 1 and June 15, or until the average daily water temperature at Mossdale is greater than 72 degrees Fahrenheit for seven consecutive days, whichever occurs first. (NMFS B.O. at 648-650.)

⁶ Among other things, D-1641 limits Project exports to a combined total of not more than 35 percent of total Delta inflow and further limits Project operations to ensure that certain water quality standards are met as measured by the location of the isohaline condition referred to as spring X2. (See *The Consolidated Salmonid Cases*, Doc. No. 380 at 12-14.)

IV.2.1 and IV.2.3 and authorized Project operations in accordance with D-1641, provided that export pumping could be reduced on shortened notice upon a showing of jeopardy to the species or adverse modification of its critical habitat. (*Id.* at 17-18.)

In August and November 2010, the parties also filed motions for summary judgment to obtain a final ruling in the cases. Those motions were argued on December 16 and 17, 2010, and the court is expected to issue a memorandum decision on the motions.

Because the salmon species covered by the new NMFS B.O. are also protected under CESA, the SWP and CVP are required to obtain take authorization from DFG. In September 2009, DFG issued a “consistency determination” pursuant to Fish and Game Code section 2080.1. That determination provides that operations of the SWP and CVP are in compliance with CESA so long as those operations occur in accordance with the RPA set forth in the NMFS B.O. Because the consistency determination posed a risk that the SWP could remain bound to the terms of the RPA even if the NMFS B.O. was eventually overturned by a federal court, DFG’s decision was challenged in state court by the State Water Contractors and the Kern County Water Agency. (*State Water Contractors v. California Department of Fish and Game, et al.*, Kern County Superior Court Case No. S-1500-CV-268497.)⁷ The challenge asserts, among other things, that DFG’s consistency determination is invalid because it relies upon and seeks to enforce restrictions established under the NMFS B.O. that are alleged under *The Consolidated Salmon Cases* to be invalid and unenforceable. As described above, the Federal District Court for the Eastern District of California has ruled that plaintiffs have a strong likelihood of being able to show that portions of the NMFS B.O. fail to comply with the ESA and the APA, and has enjoined implementation of several RPA Actions. Because the court’s ruling effectively modified aspects of the NMFS B.O. for 2010, DWR requested that DFG make a determination that the NMFS B.O., as modified by the court, remained consistent with the provisions of CESA. In May 2010, DFG issued a new consistency determination, finding the court-modified NMFS B.O. consistent with CESA. In June 2010, an amended complaint was filed against the May 24th consistency determination. By stipulation of the parties, the case is currently stayed pending the outcome of *The Consolidated Salmonid Cases*.

The current legal challenges regarding the validity of the new NMFS B.O. and the DFG consistency determination give rise to the possibility that the restrictions on SWP exports could be relaxed and that SWP exports may return to the higher levels allowed by the Interim Remedies decision in *Kempthorne* (above) or D-1641 pending the issuance of a new B.O. and/or implementation of the BDCP. Furthermore, as noted above, in May 2010 the Department of Interior and the Department of Commerce announced a joint initiative to develop a single, integrated B.O. for the coordinated operations of the CVP and SWP in the Delta.⁸ The timing, nature, and extent of the regulatory measures to be contained that B.O., and whether those measures would be legally challenged or upheld, cannot be predicted with any degree of certainty at this time.

⁷ In June 2010, the case was transferred to Sacramento, California, where it is now referenced as *State Water Contractors v. California Department of Fish and Game, et al.*, Sacramento County Superior Court Case No. 34-2010-80000560.

⁸ <http://www.doi.gov/news/pressreleases/upload/Roy.pdf>

Watershed Enforcers v. California Department of Water Resources

Another litigation matter concerning SWP operations is *Watershed Enforcers v. Cal. Dept. of Water Resources* (2010) 185 Cal. App. 4th 969 (Alameda County Superior Court Case No. RG06292124). In that case, a plaintiffs group filed suit against DWR alleging the SWP was being operated without “take authorization” under CESA. The case was heard by the Alameda County Superior Court in November 2006 and, in April 2007, the court ordered DWR to cease and desist further operations of the Harvey O. Banks pumping plant facilities of the SWP unless DWR obtained proper authorization from DFG for the take of delta smelt and salmon species listed under CESA. The trial court decision was appealed by DWR and several water agency parties and the court’s order was stayed pending the appeal, meaning that DWR was not required to cease its operations of the Banks facilities.

As discussed above, the new FWS and NMFS B.O.s were issued while the *Watershed Enforcers* case was pending on appeal. Based on those new B.O.s, DFG issued consistency determinations and take authorization for the SWP under CESA with respect to delta smelt and the listed anadromous species. (Also discussed above, those consistency determinations have been challenged in state court.) Thereafter, in September 2009, DWR and one of the water agency parties dismissed their appeals in the *Watershed Enforcers* case. The case remained active in 2009-2010, however, for purposes of resolving the discrete legal issue raised by the remaining water agency parties as to whether DWR is the type of entity that is subject to the take prohibitions under CESA. In a June 2010 decision, the First District Court of Appeal affirmed the trial court decision in all respects, including the determination that DWR qualifies as a “person” within the meaning of CESA, which means that DWR is subject to CESA’s permitting requirements. (*Watershed Enforcers v. Department of Water Resources* (2010) 185 Cal. App. 4th 969, 973.)

California Department of Fish and Game Incidental Take Permit for Longfin Smelt and Related Litigation Matters

Regulatory actions related to longfin smelt also have the potential to affect the availability and reliability of SWP supplies. In February 2008, the California Fish and Game Commission (Commission) approved a petition to list the longfin smelt as a “candidate” species under CESA. Under CESA, once a species is granted candidate status, it is entitled to protections until the Commission determines whether to list the species as threatened or endangered. To afford such interim protection, in February 2008, the Commission adopted the first in a series of emergency take regulations that authorized the CVP and SWP to take longfin smelt, yet established certain operating restrictions on Project exports from the Delta in an effort to protect the species. The emergency regulations were proposed to remain in effect until February 2009, at which time the Commission was required to decide whether to list the longfin as a threatened or endangered species. Initially, the Commission’s take regulation imposed the same Delta export restrictions that were established in the *Kemphorne* case (i.e., the Interim Remedies discussed above). In November 2008, however, the Commission revised its emergency regulations in a manner that threatened to impose export restrictions beyond those established for delta smelt. According to information published by DWR, the Commission’s 2008-2009 revised emergency take regulations had the potential to reduce SWP supplies in the January to February 2009 period by up to approximately 300,000 acre-feet under a worst-case scenario. Under other scenarios,

however, the SWP delivery reductions were expected to be no greater than those imposed under the new FWS B.O. for delta smelt. In December 2008, several water agency interests filed suit against the Commission's revised take regulation, alleging it violated CESA.

In March 2009, the Commission determined that the listing of longfin smelt as a "threatened" species was warranted under CESA. CESA sets forth a general prohibition against the take of a threatened species except as otherwise authorized by statute. One such authorization is provided by California Fish and Game Code section 2081, wherein DFG may authorize the incidental taking of a threatened species in connection with an otherwise lawful activity through the issuance of a permit. In February 2009, in advance of an official listing of the species as threatened, DFG issued Incidental Take Permit No. 2081-2009-001-03 (Permit) to DWR which imposes terms and conditions on the ongoing and long-term operation of SWP facilities in the Delta for the protection of longfin smelt. The operating restrictions under the Permit are based in large part on the restrictions imposed on the SWP by the new FWS B.O. for delta smelt (see above).

In June 2009, the Commission officially listed longfin smelt as a threatened species under CESA. As with the FWS B.O., potential water supply restrictions under the Permit are dependent on several variable factors, such as hydrologic conditions in the Delta region, migratory and reproductive patterns of longfin smelt, and other non-Project factors affecting longfin smelt abundance in the Delta. DWR has not indicated whether any particular reductions in SWP exports are likely to result from the Permit. As noted above, however, DWR has estimated that the restrictions imposed by the FWS B.O. and RPA for delta smelt could reduce SWP deliveries between 18 and 29 percent in comparison to Project deliveries authorized under D-1641. In March 2009, due to a number of alleged scientific and other deficiencies in the Permit, the State Water Contractors challenged the Permit in Sacramento County Superior Court. (*State Water Contractors v. California Dept. of Fish and Game, et al.*, Sac. Sup. Ct. Case No. 34-2009-80000203.) That case puts DFG's ability to enforce the Permit into question.

California Drought Conditions

On June 4, 2008, the Governor of California proclaimed a statewide drought due to record-low rainfall in Spring 2008 and court-ordered restrictions on Delta exports as discussed above. (Executive Order S-06-08.) Soon thereafter, the Governor proclaimed a state of drought emergency to exist within the Counties of Sacramento, San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and Kern. (Proclamation dated June 12, 2008.) On February 27, 2009, the Governor declared a statewide water supply emergency to combat California's third consecutive year of drought conditions, evidenced by low reservoir storage and estimated snowpack water content at that time. (Proclamation dated February 27, 2009.)

Since then, statewide hydrologic conditions have improved, although the State's water supply emergency declaration has not been lifted. In March 2010, DWR announced that both manual and electronic readings indicate that the water content in California's mountain snowpack was 107 percent of normal and stated that the "readings boost our hope that we will be able to increase the State Water Project allocation by this spring to deliver more water to our cities and farms." Among these readings, DWR reported that electronic sensor readings showed northern

Sierra snow water equivalents at 126 percent of normal for that date, central Sierra at 93 percent, and southern Sierra at 109 percent.⁹ As of January 2011, DWR reported snow water equivalents for the northern Sierra at 164 percent of normal, 186 percent of normal for the central Sierra, and 260 percent for the southern Sierra.¹⁰ According to DWR's California Data Exchange Center, hydrologic conditions in California as of December 1, 2010 were as follows: statewide precipitation was 155 percent of average; statewide runoff was 115 percent of average; and key historical average statewide reservoir storage was at 105 percent, with two of the state's largest reservoirs, Lake Shasta (CVP) and Lake Oroville (SWP), respectively storing 116 percent and 75 percent of their historical averages.¹¹

Development of Delta Plan and Delta Flow Criteria Pursuant to New State Laws

In November 2009, the California Legislature enacted SBX7-1 as one of several bills passed as part of a comprehensive water package related to water supply reliability, ecosystem health, and the Delta. SBX7-1 became effective on February 3, 2010 and adds Division 35 to the California Water Code (commencing with Section 85300), referred to as the Sacramento-San Joaquin Delta Reform Act of 2009 (Act). Among other things, the Act creates the Delta Stewardship Council (Council) as an independent agency of the state. (Wat. Code § 85200.) SBX7-1 also amends the California Public Resources Code to specify changes to the Delta Protection Commission and to create the Delta Conservancy. (Pub. Res. Code §§ 29702-29780.) The Act directs the Council to develop a comprehensive management plan for the Delta by January 1, 2012 (Delta Plan) and to first develop an Interim Plan that includes recommendations for early actions, projects, and programs for the Delta. (*See generally*, Second Draft Interim Plan, Prepared for Consideration by the Delta Stewardship Council at 1.)

In addition to these and other requirements, SBX7-1 requires the State Board to use the best available scientific information to develop flow criteria for the Delta ecosystem necessary to protect public trust resources, including fish, wildlife, recreation and scenic enjoyment. Similarly, DFG is required to identify quantifiable biological objectives and flow criteria for species of concern in the Delta. In August 2010, the State Board adopted Resolution No. 2010-0039 approving its report entitled "Development of Flow Criteria for the Sacramento-San Joaquin Delta Ecosystem" (Flow Criteria). The State Board report concludes that substantially higher flows are needed through the Delta than in have occurred in previous decades in order to benefit zooplankton and various fish species. (Flow Criteria at 5-8.) Separately, in September 2010, DFG issued a draft report entitled "Quantifiable Biological Objectives and Flow Criteria for Aquatic and Terrestrial Species of Concern Dependent on the Delta" (DFG Report). The DFG Report is based on similar biological objectives and recommends Delta flows similar to those set forth in the State Board's Flow Criteria. (DFG Report at 13.) Notably, both the State Board and DFG recognize that their recommended flow criteria for the Delta do *not* balance the public interest or the need to provide an adequate and reliable water supply. (Flow Criteria at 4; DFG Report at 16.) Also of importance, both the State Board and DFG acknowledge that their recommended flow criteria do not have any regulatory or adjudicatory effect; however, they may be used to inform the Council as it prepares the Delta Plan, and may be considered as the Bay

⁹ <http://www.water.ca.gov/news/newsreleases/2010/030310snow.pdf>

¹⁰ <http://cdec.water.ca.gov/cgi-progs/snow/DLYSWEQ>

¹¹ <http://cdec.water.ca.gov/cgi-progs/reports/EXECSUM>

Delta Conservation Plan (BDCP) process moves forward. (Flow Criteria at 3, 10; DFG Report at ES-4.)

DWR's Final 2009 SWP Delivery Reliability Report

DWR continues to evaluate the issues affecting SWP exports from the Delta and how those issues may affect the long-term availability and reliability of SWP deliveries to the SWP Contractors. In September 2010, DWR released its Final 2009 SWP Delivery Reliability Report (DWR Report), which forecasts additional reductions to SWP supplies in comparison to the 2007 Report. According to DWR, the long-term average delivery of contractual SWP Table A supply is projected to be 60 percent under current and future conditions over the 20-year projection. (DWR Report at 43, 48, Tables 6.3 and 6.12.) Within that long-term average, SWP Table A deliveries can range from 7 percent (single dry year) to 68 percent (single wet year) of contractual amounts under current conditions, and from 11 percent (single dry year) to 97 percent (single wet year) under future conditions. (Id. at 43-44, 49, Tables 6.4, 6.5, 6.13 and 6.14.) Contractual amounts are projected to range from 32 to 38 percent during multiple-dry year periods, and from 79 to 93 percent during multiple wet periods. (Id. at 49, Tables 6.13 and 6.14.)

To ensure a conservative analysis, the DWR Report expressly assumes and accounts for the institutional, environmental, regulatory, and legal factors affecting SWP supplies, including but not limited to: water quality constraints, fishery protections, other D-1641 requirements, and the operational limitations imposed by the FWS and NMFS B.O.s that are discussed above. The DWR Report also considers the potential effects of Delta levee failures and other seismic or flood events. (See, e.g., DWR Report at 19-24, 25-28, 29-35, Appendices A, A-1, A-2, B.) Notably, the DWR Report assumes that all of these restrictions and limitations will remain in place over the next 20-year period and that no actions to improve the Delta will occur, even though numerous legal challenges, various Delta restoration processes, and new legal requirements for Delta improvements are currently underway (i.e., BDCP, Delta Vision, Delta Plan, etc.). Finally, DWR's long-term SWP delivery reliability analyses incorporate assumptions that are intended to account for potential supply shortfalls related to global climate change. (See, e.g., DWR Report at 19, 29-30, Appendices A-B.) Based on these and other factors, the DWR Report presents an extremely conservative projection of SWP delivery reliability.

Conclusion

DWR's most recently published SWP Delivery Reliability Report (September 2010) demonstrates that the projected long-term average delivery amounts of contractual SWP Table A supplies have decreased in comparison to previous estimates. However, as noted, the projections developed by DWR are predicated on extremely conservative assumptions, which make the projections useful from a long-range urban water supply planning perspective.¹² Indeed, recent rulings in various legal actions and other factors described above, among others, support higher estimates of average annual SWP deliveries than projected in DWR's 2009 Report. While this

¹² See, e.g., *Sonoma County Water Coalition v. Sonoma County Water Agency* (2010) 189 Cal.App.4th 33; *Watsonville Pilots Association v. City of Watsonville* (2010) 183 Cal.App.4th 1059; *Vineyard Area Citizens for Responsible Growth v. City of Rancho Cordova* (2007) 40 Cal.4th 412.

may lead DWR to increase its projections in its next scheduled Report, the 2009 Report remains the best available information concerning the long-term delivery reliability of SWP supplies.

