Appendix A

DWR Checklist

CMWD 2005 Urban Water Management Plan
Check List

Report Requirements

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Actions Required

Code Section	Code Title	CMWD Action	Report Location
10642	Public notice to adopt plan advertised in two papers.	Copy of advertisments provided.	Appendix D
10644	Adopt UWMP prior to December 31, 2005.	Copy of adoption resolution provided.	Appendix D
10644	File UWMP with all City/County offices.	Will be filed within 30 days of adoption.	Not applicable

Appendix B

Documents Related to Groundwater Management

ORDINANCE NO. 8.1

An Ordinance to Adopt the Fox Canyon Groundwater Management Agency Code

The Board of Directors of the Fox Canyon Groundwater Management Agency ordains as follows:

1. The Board hereby repeals Ordinance No 8.0.

2. The Board will periodically review the effectiveness of this Ordinance toward meeting its purpose and intent. This review shall occur at least once every five years. If necessary, this Ordinance will be amended by the Board to ensure that the goals of the Agency are met.

3. The Board hereby adopts the Fox Canyon Groundwater Management Agency Ordinance Code as follows:

Fox Canyon Groundwater Management Agency Ordinance Code

Adopted July 27, 2005

CHAPTER 1.0
Definitions

As used in this code, the following terms shall have the meanings stated below:

1.1. **"Agency"** means the Fox Canyon Groundwater Management Agency.

1.2. **"Agency Boundary"** shall be as depicted on the map adopted by the Ventura County Board of Supervisors and recorded as an official record with the Ventura County Recorder's Office, and as may be updated as provided in the Agency's enabling legislation.

1.3. **"Agricultural extraction facility"** means a facility whose groundwater is used on lands in the production of plant crops or livestock for market, and uses incidental thereto.

1.4. **"Annual"** means the calendar year January 1 through December 31.

1.5. **"Aquifer"** means a geologic formation or structure that yields water in sufficient quantities to supply pumping wells or springs. A confined aquifer is an aquifer with an overlying less permeable or impermeable layer.

1.6. **"Board"** means the Board of Directors of the Fox Canyon Groundwater Management Agency.

1.7. **"Developed Acreage"** means that portion of a parcel within the boundaries of the Agency that is receiving water for reasonable and beneficial agricultural, domestic or municipal and industrial (M & I) use.

1.8. **"East Las Posas Basin"** That part of the former North Las Posas Basin that is East of the subsurface anomaly described by significant changes in groundwater levels and located for record purposes on maps in the Agency Offices.

1.9. **"Excess extraction"** means those extractions in excess of an operator's extraction allocation or adjusted extraction allocation.

1.10. **"Executive Officer"** means the individual appointed by the Board to administer Agency functions. Replaces the former title of Agency Coordinator.

1.11. **"Exempt well operators"** means all well operators operating extraction facilities supplying a single family dwelling on one acre or less, with no income producing operations and those operators granted an exemption by the Board of Directors.

1.12. **"Expansion area"** means the lower aquifer system (LAS) outcrop in the north and northeasterly portion of the Agency. Map Number Two, entitled Fox Canyon Outcrop, Las Posas Basin, 1995 shows the expansion area and is available in the County Water Resources Division office.

1.13. **"Extraction"** means the act of obtaining groundwater by pumping or other controlled means.

1.14. **"Extraction allocation"** means the amount of groundwater that may be obtained from an extraction facility for a given calendar year, before a surcharge is imposed.

1.15. **"Extraction facility"** means any device or method (e.g. water well) for extraction of groundwater within a groundwater basin or aquifer.

1.16. **"Foreign Water"** means water imported to Ventura County through the State Water Project facilities or other newly available water as approved by the Board, such as recycled water that would otherwise be lost to the Ocean.

1.17. **"Groundwater"** means water beneath the surface of the earth within the zone below the water table in which the soil is completely saturated with water.

1.18. **"Groundwater basin"** means a geologically and hydrologically defined area containing one or more aquifers, which store and transmit water yielding significant quantities of water to extraction facilities. For the purposes of this Ordinance Code, groundwater Basins inside the Agency Boundary shall include but not be limited to the Forebay Basin, Oxnard Plain Pressure Basin, Pleasant Valley Basin, East Las Posas Basin, West Las Posas Basin, South Las Posas Basin and the Arroyo Santa Rosa Basin. The boundaries of these basins are shown on maps that have been recorded with the County Recorder. Copies of the maps may be viewed in the Agency Offices and portions of the maps may be available at the Agency web site.

1.19. **"Historical extraction"** means the average annual groundwater extraction based on the five (5) calendar years of reported extractions from 1985 through 1989 within the boundaries of the Agency. This average will be expressed in acre-feet per year. ***All historical extraction allocations became effective on January 1, 1991.***

1.20. **"Inactive Well"** An inactive well is a well that conforms to the County of Ventura Ordinance Code requirements for an active well, but is being held in an idle status in case of future need. Inactive wells are not required to have a flow meter. Pumping to meet Ventura County Ordinance Code requirements shall not exceed 12 hours in a 12 month period. Meters shall be installed on inactive wells and the well shall revert to a groundwater extraction facility if the requirement exists to pump the well for more than 12 hours in any 12 month period. The pumping to meet Ventura County Ordinance Code requirements shall be for beneficial use and the 12 hour pumping limitation shall not be used to justify the lack of a meter for any well that serves a primary purpose. The application of an inactive well status implies that there is a minimum of one additional source of water to serve as a primary supply.

1.21. **"Injection/storage Program"** means any device or method for injection/storage of water into a groundwater basin or aquifer within the boundaries of the Agency, including a program to supply foreign water in lieu of pumping.

1.22. **"Las Posas outcrop"** or **"outcrop"** means the area of Lower Aquifer System surface exposure as defined by Map Number One, Fox Canyon Outcrop, Las Posas Basin, 1982. This map is available for inspection in the Ventura County Water Resources Division office.

1.23. **"May"** as used in this Ordinance Code, permits action but does not require it.

1.24. **"Metering Equipment"** or **"Meters"** means a manufactured instrument for accurately measuring and recording the flow of water in a pipeline.

1.25. **"Municipal and Industrial (M & I) Provider"** means an entity or person which provides water for domestic, industrial, commercial, or fire protection purposes within the boundaries of the Agency.

1.26. **"Municipal and Industrial (M & I) Operator"** An owner or operator that supplied groundwater for M & I use during the historical allocation period and did not supply a significant amount of agricultural irrigation during the historical period."

1.27. **"Municipal and Industrial (M & I) User"** means a person or other entity that used or uses water for any purpose other than agricultural irrigation. **"Municipal and Industrial (M & I) use"** means any use other than agricultural irrigation.

1.28. **"Operates"** means to manage the use of groundwater and report the well extraction data to the Agency.

1.29. **"Operator"** means a person who operates a groundwater extraction facility. In the event the Agency is unable to determine who operates a particular extraction facility, then "operator" shall mean the person to whom the extraction facility is assessed by the County Assessor, or, if not separately assessed, the person who owns the land upon which the extraction facility is located.

1.30. **"Overdraft"** means the condition of a groundwater basin or aquifer where the average annual amount of water extracted exceeds the average annual supply of water to a basin or aquifer.

1.31. **"Owner"** means a person who owns a groundwater extraction facility. Ownership shall be determined by reference to whom the extraction facility is assessed by the County Assessor, or if not separately assessed, the person who owns the land upon which the extraction facility is located.

1.32. **"Perched or Semi-Perched Aquifer"** means the water bearing area that is located between the earth's surface and clay deposits that exist above an Aquifer.

1.33. **"Person"** includes any state or local governmental agency, private corporation, firm, Partnership, individual, group of individuals, or, to the extent authorized by law, any federal agency.

1.34. **"Recharge"** means natural or artificial replenishment of groundwater in storage by percolation or injection of one or more sources of water.

1.35. **"Safe Yield"** means the condition of groundwater basin when the total average annual groundwater extractions are equal to or less than total average annual groundwater recharge, either naturally or artificially.

1.36. **"Section"** as used in this Ordinance Code, is a numbered paragraph of a chapter.

1.37. **"Semi Annual Report of Groundwater Extractions"** is a statement filed by each well operator containing the information required by Section 2.2 and 2.3.1 and shall cover the periods from January 1 to June 30 and from July 1 to December 31 annually.

1.38. **"Shall"** as used in this Ordinance Code, is an imperative requirement.

1.39. **"West Las Posas Basin"** is that part of the former North Las Posas Basin that is West of the subsurface anomaly described by significant changes in groundwater levels and located for record purposes on maps in the Agency Offices.

CHAPTER 2.0
Registration of Wells and Levying of Charges

2.1. Registration of Wells

2.2. All groundwater extraction facilities within the boundaries of the Agency shall be registered with the Agency. All new extraction facilities constructed within the Agency Boundary shall obtain a no-fee permit from the Agency prior to the issuance of a Well Permit by the Ventura County Watershed Protection District. No extraction facility may be operated or otherwise utilized so as to extract groundwater within the boundaries of the Agency, or in the Expansion Area unless that facility is registered with the Agency, metered and permitted, if required, and all extractions reported to the Agency as required. The operator of an extraction facility shall register his extraction facility and

provide in full, the information required to complete the form provided by the Agency that includes the following:

2.2.1. Name and address of the operator(s).

2.2.2. Name and address of the owner(s) of the land upon which the extraction facility is located.

2.2.3 A description of the equipment associated with the extraction facility.

2.2.4 Location, parcel number and state well number of the water extraction facility.

2.3. **Reporting Extractions -** The method for computing extractions shall be as specified by Chapter 3. The Agency shall send a "Semi-Annual Report of Groundwater Extractions" form to each well owner on or about the first of January and the first of July each year. Each operator of a registered extraction facility shall enter the necessary information and return the "Semi Annual Report of Groundwater Extractions" covering all wells they operate on or before the due date. Statements are due on or before February 1st or August 1st annually or thirty days after the date on top right of the Semi Annual report form. Statements shall contain the following information on forms provided by the Agency:

2.3.1. The information required under Section 2.2 above.

2.3.2. The method of measuring or computing groundwater extractions.

2.3.3. The crop types or other uses and the acreage served by the extraction facility.

2.3.4. Total extractions from each extraction facility in acre-feet for the proceeding six (6) month period.

2.4. **Groundwater Extraction Charges**

2.4.1. All persons operating groundwater extraction facilities shall pay a groundwater extraction charge for all groundwater extracted after July 1, 1993, in the amount as established by Resolution of the Board. Payments are due semi-annually, and shall accompany the statement required pursuant to Section 2.3.

2.4.2. Payments not received or postmarked by the date due forty-five days after the billing date shall be charged interest in the amount of 1.5 percent per month, or part of month that the charge remains unpaid. Late Penalty. The operator shall pay a late penalty for any extraction charge not satisfied by the due and payable date. The late penalty shall be 1½ percent per month, or any portion thereof, of the amount of the unsatisfied extraction charge. The late penalty shall not exceed 100% of the original charge, provided the penalty is paid within 60 days of the due date. If the fee is not paid within the 60 days, the penalty will continue to accrue at 1.5 percent per month with a final maximum of 200% of the original penalty due.

2.4.3. Owners of extraction facilities are ultimately responsible for payment of pumping charges and penalties should an operator not pay. Consequently, owners must consider this liability in respect to their agreements with well operators and water users.

2.5 **Collection of Delinquent Extraction Charges and Late Penalties** - The Board may order that any given extraction charge and/or late penalty shall be a personal obligation of the operator or shall be an assessment against the property on which the extraction facility is located. Such assessment constitutes a lien upon the property, which lien attaches upon recordation in the office of the County Recorder. The assessment may be collected at the same time and in the same manner as ordinary ad valorem taxes are collected, and shall be subject to the same penalties and the same procedure and sale, in case of delinquency as provided for such taxes. All laws applicable to the levy, collection and enforcement of ad valorem taxes shall be applicable to such assessment, except that if any real property to which such lien would attach has been transferred or conveyed to a bona fide purchaser for value, or if a lien of a bona fide encumbrance for value has been created and attaches thereon, prior to the date on which the first installment of such taxes would become delinquent, then the lien which would otherwise be imposed by this section shall not attach to such real property and an assessment relating to such property shall be transferred to the unsecured roll for collection.

2.6 **Use of Extraction Charges and Late Penalties -** Revenues generated from extraction charges and late penalties shall be used exclusively for authorized Agency purposes, including financial assistance to support Board approved water supply, conservation, monitoring programs and water reclamation projects that demonstrate significant reductions in overdraft.

CHAPTER 3.0
Installation and Use of Metering Equipment for Groundwater Extraction Facilities

3.1. Installation and Use of Metering Equipment

3.1.1. Installation Requirement - Operators of extraction facilities shall install metering equipment on each well that extracts groundwater. Meters are not required on inactive wells as defined in this Ordinance Code, nor are meters required for extraction facilities supplying a single family dwelling on one acre or less, with no income producing operations. If more than one operator uses the same extraction facility, meters shall be installed to record the water use of each operator. Well operators were required to install metering equipment on wells by July 1, 1994.

3.1.2. Back-up Metering Equipment - Water meters occasionally fail, losing periods of record before the disabled or inaccurate meter is either replaced or repaired. Well operators shall be prepared to provide another acceptable method of computing extractions during these periods of meter failure to avoid the loss of record on wells that require metering under this Ordinance Code.

3.1.3. Back-up Methods - It is the operator's responsibility to maintain the flow meter. Any allowable or acceptable method for backup metering will be specified in a

separate resolution of the Board, and may be changed as technology improves or changes.

3.1.4. Special Cases - If special circumstances exist where specified back-up procedures cannot be used or are impracticable to use, the operator shall request the Executive Officer's approval of another alternative back-up procedure.

3.1.5. Meter Readings - Functional meters shall be read and the readings reported semi-annually on the extraction statements required under Section 2.3 above.

3.1.6 Inspection of Metering Equipment - The Agency may inspect metering equipment installations for compliance with this Ordinance Code at any reasonable time.

3.2. **Meter Testing and Calibration -** All water flow meters shall be tested for accuracy at a frequency interval determined by the Board to meet specific measurement standards. Calibration methods and procedures approved by the Board of Directors shall be detailed in an adopted Resolution of the Board.

3.3 **Altering Metering Equipment** - Any person who alters, removes, resets, adjusts, manipulates, obstructs or in any manner interferes or tampers with any metering equipment affixed to any groundwater extraction facility required by this Ordinance Code, resulting in said metering equipment to improperly or inaccurately measure and record groundwater extractions, is guilty of an intentional violation of this Ordinance Code, and will be subject to any and all penalties as described in Chapter 8.

3.4 **Costs Of Testing and Calibration**. All costs incurred with flow meter testing or calibration shall be the personal obligation of the well owner. Non-compliance with any provision of the meter calibration requirements will subject the owner to financial penalties and/or liens as described below or in Chapter 8 of the Ordinance Code.

3.5 **Fees and Enforcement.** If any water production facility within the Agency's boundaries is used to produce water without a flow meter, or with a non-operating flow meter, the Agency shall assess a Non-Metered Water Use Fee against the water production facility owner. The Non-Metered Water Use Fee shall be assessed during each Meter Report period until the first full Meter Report period after the Agency meter is installed. The amount of the fee shall be calculated as follows:

3.5.1 Ground water extraction facilities - The fee shall be equal to double the current ground water extraction charge for all estimated water used. Estimates of water used shall be calculated by the Agency staff using best available information about site use and conditions. Any delinquent extraction charge obligations shall also be charged interest at the rate of 1.5 percent per month on any unpaid balances.

3.6 Upon violation of any meter provision, the Agency may, as allowed by law, petition the Superior Court of the County for a temporary restraining order or preliminary or permanent injunction prohibiting the well owner from operating the facility or for such other injunctive relief as may be appropriate.

CHAPTER 4.0
Protection of the Las Posas Basins

4.1 **This chapter has the following purpose and intent:**

4.1.1 To eliminate overdraft from the aquifer systems within the boundary of the East and West Las Posas basins and bring these basins to a "safe yield" condition by the year 2010.

4.1.2 To protect the Las Posas outcrop as a source of groundwater recharge into the East and West Las Posas basins.

4.1.3 To prevent groundwater quality degradation of the East and West Las Posas basins by influence from the Expansion area.

4.1.4 This Ordinance Code is only one means by which these goals will be met.

4.2 **Anti-degradation and Extraction Prohibition**

4.2.1 Extraction Facility Permits.

4.2.1.1 Permit Required - Prior to: (a) initiating any new or increased use of groundwater in the Expansion area, obtained from any source within the Agency including the Expansion area; or (b) constructing a new or replacement extraction facility in the East or West Las Posas basins, or the Expansion area, a permit must be obtained from the Agency as provided in this Chapter. For the purpose of this Chapter, a new or increased use is that which did not exist or occur before June 30, 1988.

4.2.1.2 Permit Application - Application shall be made to the Agency on the approved Ventura County Water Well Ordinance form available from the Ventura County Public Works Agency and shall include all information required by the Ventura County Well Ordinance and the following:

4.2.1.2.1 Location of each water well to be used, along with the associated state well number.

4.2.1.2.2 Location(s) of groundwater use, including acreage accurately plotted on copy of the Ventura County Assessor's Parcel Map.

4.2.1.2.3 The proposed crop type(s) or Municipal and Industrial use(s) at each location.

4.2.1.2.4 A brief description of the type of irrigation or distribution system and metering equipment to be used.

4.2.1.2.5 The estimated average annual quantity of water use proposed for each location of use.

4.2.1.2.6 An identification of the source of historical allocation to supply the proposed water use by the well.

4.2.1.2.7 An analysis of the potential impacts on the water balance in the Las Posas Basins resulting from the proposed use(s).

4.2.1.3 Findings - A permit may only be granted if the Executive Officer finds that the proposed groundwater use will result in no net detriment to the East or West Las Posas Basins by determining that:

4.2.1.3.1 The Las Posas outcrop is not exposed to potential degradation of water quality of any type, and

4.2.1.3.2 Recharge to the East and West Las Posas Basins from the Las Posas outcrop is not diminished, and

4.2.1.3.3 Neither baseline nor efficiency allocation will be used, directly or indirectly, to support groundwater use on the Expansion Area, and (an example of indirect use is using efficiency to supply a demand inside the Agency and using the replaced historical allocation on the outcrop)

4.2.1.3.4 No increased or new uses of groundwater from inside the Agency boundary will be applied on any area outside the Expansion area (or outside the East or West Las Posas boundary).

4.2.1.4 Permit Conditions. The Executive Officer may include in the permit granted, any conditions consistent with the purpose of this Chapter, including:

4.2.1.4.1 Any proposed agricultural use shall include the installation of irrigation systems that employ irrigation best management practices consistent with then current industry standards.

4.2.1.4.2 Any proposed municipal or industrial use shall include the installation of systems that employ municipal and industrial best management practices consistent with the then current industry standards.

4.2.1.4.3 A permit term, not to exceed 10 years from the date of issuance.

4.2.1.4.4 Mitigation, monitoring, and periodic reporting, as may be appropriate given the proposed use.

4.2.2 Permit Renewal - Permits may be renewed pursuant to the requirements of Section 4.2.1.

4.3 **Registration of Existing Uses** - The owners of groundwater wells located within the East or West Las Posas basins shall register their wells with the Agency no later than January 1, 2006, through the following procedure:

4.3.1 Registration Form - The Agency shall make available a registration form which shall be completed, and filed with the Agency for each well, which shall include the following:

4.3.1.1 Location(s) of all water well(s), along with the associated state well number(s) including offsite well(s) serving the proposed use. Information concerning wells shall also include any other use for the water well.

4.3.1.2 Location(s) of groundwater use for the well including acreage accurately plotted on a copy of the Ventura County Assessor's Parcel Map.

4.3.1.3 The proposed crop type(s) or Municipal and Industrial use(s) at each location.

4.3.1.4 A brief description of the type of irrigation or distribution system and metering equipment in use.

4.3.1.5 The estimated average annual quantity of water use at each location and for each well.

4.4 **Monitoring** - The Agency shall monitor compliance with this Chapter by reviewing County well permit applications and reported groundwater extractions and by conducting field surveys as may be necessary.

4.5 **Unreasonable Uses** - The Agency may commence and prosecute legal actions to enjoin unreasonable uses or methods of use of water within the agency or outside the territory of the agency to the extent those uses or methods of use adversely affect the groundwater supply within the Agency.

CHAPTER 5.0
Reduction of Groundwater Extractions

5.1. **Purpose** - The purpose of this Chapter is to eliminate overdraft from the aquifer systems within the boundaries of the Agency and bring the groundwater basins to safe yield by the year 2010. It is not the purpose of this Chapter to determine or allocate water right entitlements, including those, which may be asserted pursuant to California Water Code sections 1005.1, 1005.2 or 1005.4.

5.2. Extraction Allocations

5.2.1. General Limitations

5.2.1.1. The Executive Officer shall establish an operator's extraction allocation for each extraction facility located within the boundaries of the Agency. The extraction allocation shall be the historical extraction as reported to the United Water Conservation District and/or to the Agency pursuant to Chapter 2 (or its successor), reduced as provided by Section 5.4, or as otherwise provided for in Section 5.6 of this Ordinance Code. An alternative allocation, either baseline or efficiency, may also be approved as explained in Sections 5.6.1.1 and 5.6.1.2. All extraction facilities have an allocation of zero unless the Executive Officer determines otherwise. The operator may determine whether the annual allocation used shall be either a combination of baseline and historical allocation, or based on an efficiency allocation. All wells used by an operator in any given basin shall be operated on either a combination of historical and baseline or an efficiency allocation except water purveyors as approved by the Executive Officer. As explained by Section 5.6.1.2, an efficiency allocation may not be combined with either a baseline or a historical allocation. Extraction allocations may be adjusted or transferred only as provided ion Section 5.3.

5.2.1.2. Regardless of allocation, the total water use for agricultural purposes must be at least 60 percent efficient as determined by the formula described in Section 5.6.1.2.4. This 60 percent irrigation efficiency is totally unrelated to the 80 percent efficiency described in Section 5.6.1.2, "Annual Efficiency Extraction Allocation".

5.2.1.3. Where an operator operates more than one extraction facility in the same basin, the extraction allocations for the individual facilities may be combined.

5.2.1.4. Where there is more than one operator for any agricultural extraction facility, each operator shall be entitled to a pro rata share of the facility's historical allocation based on either usage or acreage irrigated during the historical extraction period. Such pro rata shares shall be determined by the owner of the extraction facility, and this determination shall be subject to the approval of the Executive Officer.

5.2.1.5. When an operator is no longer entitled to use an extraction facility, that operator is no longer entitled to any portion of the extraction allocation attributed to that extraction facility.

5.2.1.6. A historical allocation is assigned to an extraction facility and a baseline allocation is assigned to the land, both may be used, but neither is owned by the operator.

5.2.1.7. Where there is a sale or transfer of a part of the acreage served by any extraction facility, the extraction allocation for that facility shall be equitably apportioned between the real property retained and the real property transferred by the owner of the extraction facility, This apportionment shall be approved by the Executive Officer who may modify the apportionment to assure equity.

5.2.1.8. The name of the owner of each extraction facility, the parcel number on which the well is located along with the names of all operators for each extraction facility shall be reported to the Agency with each semi-annual report and upon any change of ownership or operators, together with such other information required by the Executive Officer.

5.2.1.9. The Executive Officer may, on written request from a land owner or well operator, waive allocation requirements for the extraction of groundwater from the Perched or Semi-perched aquifer of Sealing Zone III when the pumping of that groundwater is specifically for the purpose of lowering the water table to reduce the high water table threat to property, including the root zone of crops, or for dewatering construction sites. The Executive Officer shall require that the groundwater extraction facility used for this purpose be perforated only in the Perched or Semi-perched zone, and shall also require the landowner and/or the operator to protect the Agency from damage potentially caused by transferring water to another location.

5.2.2 General Limitations: Special Board Approval Requirements - Notwithstanding any other provisions of this Ordinance Code, the following uses of water resources associated with the aquifers within the Agency may only be undertaken with prior Board approval of and subject to the conditions and restrictions established by the Board.

5.2.2.1 Direct or indirect export of groundwater extracted from within the Agency boundary for use outside the Agency boundary.

5.2.2.2 The direct or indirect use of surface water or Foreign Water from within the Agency outside the Agency in a manner that may adversely affect the groundwater supply within the Agency.

5.2.2.3 Application to the Board - To obtain the approval of the Board for any use provided in Sections 5.2.2.1 and 5.2.2.2, application shall be made to the Agency describing the details of the proposed use, including all the following information:

5.2.2.3.1 The location of each water well to be used, along with the associated state well number, and/or the location of each surface diversion and a description of the associated water right.

5.2.2.3.2 Location(s) of groundwater use, including acreage, accurately plotted on copy of the Ventura County Assessor's Parcel Map.

5.2.2.3.3 The proposed crop type(s) or Municipal and Industrial use(s) at each location.

5.2.2.3.4 A brief description of the type of irrigation or distribution system and metering equipment to be used.

5.2.2.3.5 The estimated average annual quantity of water use proposed for each location of use.

5.2.2.3.6 An identification of the source of historical allocation, if any, to supply the proposed water use by the well.

5.2.2.3.7 An analysis of the potential impacts on the water balance in any Basin or Subbasin within the Agency Boundaries resulting from the proposed use(s).

5.2.2.4 Findings - The Board may approve the proposed use if, after a public hearing, it finds that the proposed use will result in no net detriment to the Basin, or any subbasin, or aquifer associated with the use, by determining that:

5.2.2.4.1 The proposed use does not result in the material degradation of water quality of any type, or

5.2.2.4.2 Recharge to any aquifer within the Agency is not materially diminished.

5.2.2.4.3 In granting approval to projects subject to this subsection, the Board may impose any conditions as may be appropriate, including limitations on the quantity of water use, term of the approval, and periodic reporting to the Agency.

5.2.3. An operator shall comply with all provisions of this Ordinance Code and Resolutions prior to receiving an extraction allocation.

5.3. Adjustments to Extraction Allocations

5.3.1 Adjustments to extraction allocations may be necessary to provide some flexibility, while still maintaining the goal of reaching a safe yield condition by the year 2010. Adjustments may be accomplished by a transfer, an assignment of historical extraction allocation, or a demonstration of a new water source.

5.3.2 Subject to the provisions in this Section 5.3, transfers of extraction allocation are authorized provided they result in no net detriment to the Basins within the Agency. In making this determination, consideration shall be given to the location

of extraction facilities, the aquifer systems being used, potential groundwater quality impacts, and the overall assessment of the cumulative impacts of transfers of extraction allocation.

5.3.3 Types of Transfers of Allocation. When irrigated agricultural land(s) changes to M & I use, a basic extraction allocation of 2 acre-feet per acre shall be transferred. In addition, a historical extraction allocation shall be transferred from the agricultural extraction facility(s) operators to the M & I provider in accordance with the following conditions:

5.3.3.1 When the extraction facility is located on the land transitioning and did not serve other land during the historical allocation determination period, the M & I Operator shall receive a historical extraction allocation of 2 acre-feet per acre per year for the acreage transitioning to M & I use. Any historical allocation in excess of 2 acre-feet per acre for the land transitioning to M & I use shall be eliminated.

5.3.3.2 When the extraction facility is located on the land transitioning and served other land during the historical allocation determination period, the historical allocation associated with the transitioning property shall be allocated on a pro rata basis by acreage to the total property served. The pro rata share for the property transitioning shall be eliminated. Two acre-feet per acre per year, based upon the acreage being transferred, shall be provided to the M & I provider.

5.3.3.3 When the extraction facility serving the lands transitioning is not located on the land transitioning, the Executive Officer shall determine the allocation on an equitable basis for the remaining properties not transitioning to M & I. Two acre-feet per acre per year, based upon the acreage being transferred, shall be provided to the M & I provider.

5.3.3.4 The transfer shall be effective upon the approval of the Executive Officer, taking into account the ongoing use of the property.

5.3.3.5 Allocation originating from an agricultural extraction facility shall not be transferred to an M & I use except as provided in this Section 5.3.3.

5.3.4 Allocation may be transferred between M & I extraction facilities provided there is no net detriment to the aquifer system. In making this determination, the Executive Officer shall, at a minimum, consider the location of extraction facilities, the aquifer system being used and groundwater quality impacts of the transfer.

5.3.5 Transfer of Allocation - Upon request, the Executive Officer may transfer allocation from one agricultural operator to another agricultural operator or from one M & I operator to another M & I operator provided there is no net detriment to the basins and the transfer is equitable. The transfer of allocation will be of indefinite duration, approved on a "case-by-case" basis, and the Executive Officer shall determine the rate of extraction and the point or points of extraction. Requests for the transfer of allocations shall be submitted jointly by the parties

involved and shall include the specific details of their proposal. To ensure that there is no net detriment to the aquifer systems, transfers of allocation shall be subject to other conditions as approved by the Board. Transfers of allocation from Agricultural use to M & I use shall only be approved as provided by Section 5.3.3.

5.3.6. The Executive Officer may approve a temporary assignment of allocation from one operator to another operator when there is no net detriment to the aquifer system. The temporary assignment shall not exceed one year.

5.3.7 Adjustments to M & I Allocations - The Board may adjust the historical allocation of an M & I operator when that operator has supplied groundwater to either an agricultural or M & I user during the historical allocation period and discontinues service to that user. This adjustment may be made by transferring the supplied portion of the historical allocation from the M & I operator to the new user. This adjustment will avoid increased pumping due to windfall allocations that could otherwise result when the M & I operator discontinues service. To avoid retroactive inequities, where an M & I operator has discontinued service to a user prior to July 1, 2005, the amount of the supplied portion of the historical allocation may be allocated to both the M & I operator and the user.

5.3.8 Historical allocation is subject to adjustment as provided in Section 5.4 below.

5.3.9 Procedures for Adjustment

5.3.9.1 It shall be necessary for the operator of the extraction facility to file a verified Application for Adjustment with the Executive Officer.

5.3.9.2 Adjustments of extraction allocations, pursuant to the Applications for Adjustment, shall be considered for approval by the Board after reviewing the findings and recommendations of the Executive Officer and, if approved, shall be effective for the remainder of the calendar year and for all subsequent calendar years until modified by a subsequent Board approved adjustment.

5.4 Reduction of Extraction Allocations

5.4.1 Historical extraction allocations, adjusted or otherwise, shall be reduced in order to eliminate overdraft from the aquifer systems within the boundaries of the Agency for agricultural and M & I uses. The reductions shall be as set forth below:

1992 - 1994 extraction allocation = 95% of historical extraction, as adjusted.
1995 - 1999 extraction allocation = 90% of historical extraction, as adjusted.
2000 - 2005 extraction allocation = 85% of historical extraction, as adjusted.
2005 - 2009 extraction allocation = 80% of historical extraction, as adjusted.
After 2009 extraction allocation = 75% of historical extraction, as adjusted.

5.4.2 Following the appropriate public review, the Board may exempt historical extraction allocations from these adjustments on a basin-by-basin basis.

5.5 Exemptions from Reductions

5.5.1 The following types of extraction allocations are exempt from the reductions set forth in Section 5.4.1:

5.5.1.1 Baseline Extraction Allocations as set forth in 5.6.1.1.

5.5.1.2 Annual Efficiency Extraction Allocations as set forth in 5.6.1.2.

5.5.1.3 Non-metered Extraction Facilities. Reductions in extraction allocations shall not apply to those extraction facilities as identified in Chapter 3 that do not require meters. Neither retroactive adjustments nor refunds will be made, except that any outstanding surcharges for non-metered extractions that existed prior to June 26, 2002 will be waived.

5.6 Alternative Extraction Allocations

5.6.1 As an alternative to historical extractions, the Executive Officer may establish a Baseline or an Annual Efficiency extraction allocation for an operator, as follows:

5.6.1.1 Baseline Extraction Allocations. If no historical extraction exists, or the historical allocation is less than one acre-foot per acre per year, a Baseline extraction allocation may be established by the Executive Officer at one acre-foot per acre per year.

5.6.1.1.1 A Baseline Extraction Allocation specifically applies to undeveloped acreage that is being developed and once approved shall remain with that developed acreage. A Baseline allocation may be combined with a historical allocation for commonly operated facilities in the same basin. A baseline allocation shall not be used with an efficiency allocation.

5.6.1.1.2 To obtain a Baseline Extraction Allocation, a detailed report must be submitted to the Executive Officer. The report shall describe the historical extraction of groundwater use, if any, during the period between the end of calendar year 1984 and the end of calendar year 1989, the type (crop type or M & I) and the amount of water use and acreage involved. The report shall include copies of Assessor's maps identifying the parcels where groundwater is presently being used. For the purpose of this ordinance, one (1) acre-foot per acre per year represents a reasonable use of water for a Baseline extraction allocation.

5.6.1.1.3 Application for the initial Baseline Extraction Allocation must be submitted prior to submission of the annual report of pumping. If approved, the Baseline Extraction Allocation shall apply beginning with the current calendar year.

5.6.1.1.4 To facilitate accounting procedures, an operator shall use Baseline Extraction Allocation before using Historical Allocation.

5.6.1.2 Annual Efficiency Extraction Allocation - If an operator can demonstrate to the Executive Officer that water used for agriculturally developed land is at least 80 percent overall irrigation efficient, based on evapotranspiration requirements, an Annual Efficiency extraction allocation shall be established for one calendar year. An 80 percent overall irrigation efficiency has been determined by the Agency to be reasonable on agricultural lands within the Agency's boundaries.

5.6.1.2.1 An Efficiency Allocation may be used when no historical allocation exists or when the historical allocation is not sufficient for the crop being grown. A historical allocation shall not be used in conjunction with an efficiency allocation.

5.6.1.2.2 To prove that irrigation efficiency is at least 80 percent, the operator must submit a detailed report covering a minimum period of the immediately preceding calendar year. This report shall be submitted to the Executive Officer no later than February 1st of the following year unless otherwise extended by the Board of Directors. The report shall include a complete crop and irrigation history for the extraction facility and actual acreage irrigated. The report shall include the reference evapotranspiration (ETo) rates and crop factors (Kc) for the calendar year period similar to that provided by the California Irrigation Management Information System (CIMIS) as developed and modified by the California Department of Water Resources. The report shall include a summary sheet that compares the water use to the evapotranspiration requirements for each crop and the corresponding acreage covered in the calendar year. The Board may extend the time to apply for an efficiency allocation for any year.

5.6.1.2.3 Irrigation efficiency will include an appropriate amount of water necessary to avoid salt build-up based on the quality of irrigation water used.

5.6.1.2.4 Irrigation Efficiency (I.E.) will be calculated using the following formula:

$$\text{I.E.} = \frac{[\text{ETo} \times \text{Kc}] - \text{ER} \times 100}{\text{Actual Water Applied (inches)}}$$

Where:

ETo is the reference evapotranspiration measured in inches

Kc is a crop factor, which is a dimensionless number that relates water use by a given plant in comparison to ETo.

ER is the effective rainfall measured in inches as determined by the Executive Officer.

5.6.2 Exceptions - The Board may grant exceptions to Sections 5.6.1.1 and 5.6.1.2 on a case-by-case basis. However, individual exceptions shall not become the norm. Where agricultural efficiency cannot be measured as set forth in Section 5.6.1.2, then the most efficient practices of record for the type of agricultural use shall be the measurement of efficiency utilized by the Board in its deliberations.

5.7 Credits

5.7.1 Credits can be obtained by operators, but are not considered as extraction allocations or adjustments to extraction allocations. Credits are not subject to any reductions as set forth in Section 5.4.1. Credits, if available, shall be used to avoid paying extraction surcharges. Credits shall be accounted for through the normal reporting and accounting procedure and are carried forward from year to year. Except as provided below, credits may be transferred between commonly operated extraction facilities and within the basin where the credits were earned.

5.7.2 The Board may transfer credits between facilities that are not commonly operated within a basin or beyond the basin where such credits were earned, provided that there is no net detriment to the aquifers within the Agency. In determining whether there is no net detriment, the Board may, among other things, consider whether the transfer will help bring the aquifers within the Agency into equilibrium or whether the transfer is a part of an Agency or inter-Agency management plan or program to bring the aquifers of the Agency into balance. Also, in making this determination of no net detriment the Board may consider quality of water as well as the quantity. The transfer of credits will be of indefinite duration, approved on a "case-by-case" basis, and the Executive Officer shall determine the rate of extraction and the point or points of extraction.

5.7.2.1 Requests for the transfer of credits shall be submitted jointly by the parties involved and shall include the specific details of their proposal. To ensure that there is no net detriment to the aquifer systems, transfers of credits shall be subject to other conditions as approved by the Board. Under no circumstances shall credits earned as a result of agricultural use be transferred to an M & I Provider, M & I Operator or an M & I User unless the transfer is specifically approved by the Board and no net detriment to the aquifer systems involved can be shown. Credits earned by an M & I facility shall remain with that facility unless transferred by the Board or transferred as part of a program such as an Agency or inter-Agency management plan or program approved by the Board. The types of credits are:

5.7.2.1.1 Conservation credits. An operator can obtain conservation credits by extracting less groundwater than the historical

extraction allocation. Annual Efficiency, Baseline, or an allocation assigned to an extraction facility that is not required to have a meter shall not earn credits. Credits shall be determined by the Executive Officer after receipt of annual extraction data. Subsequent to determining the amount of credits earned, a confirmation shall be mailed to the operator indicating the current allocation, the groundwater extracted during the previous calendar year, and the credits or surcharges for the previous year.

5.7.2.1.2 Storage credits - An operator may obtain storage credits for water that has been determined by the Board to qualify for credits or foreign water stored, injected or spread and percolated or delivered in lieu of pumping in a Board approved injection/storage program used within the boundaries of the GMA. A written application for approval of a program or an injection/storage facility shall include:

5.7.2.1.2.1 Operator of proposed injection/storage program.

5.7.2.1.2.2 Purpose of proposed injection/storage program.

5.7.2.1.2.3 Location, depth, casing diameter, perforated interval and other information regarding proposed injection/extraction facilities, if applicable.

5.7.2.1.2.4 Method of operation including source, quantity and quality of water, planned scheduling of storage, injection/extraction, delivery or percolation operations and proposed use of extracted water.

5.7.2.1.2.5 Any other information deemed necessary by the Executive Officer.

5.7.3 Following Board approval of the application, successful storage, delivery or injection of water and reporting of results, an operator will obtain credit as determined by the Executive Officer.

5.8 Extraction Surcharges and Late Penalty

5.8.1 Necessity for Surcharges

5.8.1.1 Extraction surcharges are necessary to achieve safe yield from the groundwater basins within the Agency and shall be assessed annually when annual extractions exceed the historical and/or baseline allocation for a given extraction facility or the combined sum of historical allocation and baseline allocation for combined facilities. The extraction surcharge

shall be fixed by the Board and shall be based upon (1) the cost to import potable water from the Metropolitan Water District of Southern California, or other equivalent water sources that can or do provide non-native water within the Agency jurisdiction; and (2) the current groundwater conditions within the Agency jurisdiction.

5.8.2 At the discretion of the Board, the extraction surcharge may be structured, tiered, and varied between basins and or aquifers.

5.8.3 The Board shall fix the surcharge by resolution at a cost sufficiently high to discourage extraction of groundwater in excess of the approved allocation when that extraction will adversely affect achieving safe yield of any basin within the Agency and may adjust the surcharge by resolution; provided however, that the then existing extraction surcharge shall remain in effect until adjusted by the Board.

5.8.4 Surcharge for No Allocation - In circumstances where an individual or entity extracts groundwater from a facility(s) having no valid extraction allocation, the extraction surcharge shall be applied to the entire quantity of water extracted. Imposition and acceptance of payment of the surcharge imposed on an individual or entity that extracts water from a facility(s) that holds no extraction allocation shall not be deemed a waiver of the Agency's authority to limit or enjoin the unauthorized extractions.

5.8.5 Efficiency Surcharge Facilities relying on the annual, efficiency, allocation shall also be subject to surcharge for inefficient use. The extraction allocation for efficiency is the amount of water used at 80% efficiency as defined in 5.6.1.2 of this ordinance. Extraction surcharges will be applied to the difference between the water extracted which correlates with the actual efficiency achieved and the water that would have been extracted to attain the 80% efficiency allocation. For example, an actual efficiency of 70% would be subject to surcharges on the difference between the amount of water used at 70% efficiency and the amount of water that would have been used at 80% efficiency. If an efficiency of less than 60% is achieved, no efficiency allocation will be available, and the operator shall revert to a historical, baseline or to no allocation whichever applies to that facility. Extraction surcharges would then apply to the difference between actual water used and the applicable allocation, if any. For example, a facility operating at an actual efficiency of 59% with no historical or baseline allocation, would be subject to surcharges on all water used.

5.8.6 Payment of Extraction Surcharges

5.8.6.1 Surcharges are assessed annually in respect to the annual allocation and shall become due and payable by the owner/operator on February 1st each year or 30 days after the date shown on the upper right of the "Semi Annual Report of Groundwater Extractions" statement. Payments shall be made with credits, if available. The Board may extend the 30-day time allowed to pay surcharges for a period of up to twelve months when circumstances exist that in the opinion of the Board warrant such

extension. The Board may also approve the payment of surcharges in installments of up to 24 months with terms suitable to the Board.

5.8.6.2 Late Penalty - The operator shall pay a late penalty for any extraction surcharge not satisfied by the due and payable date. The late penalty shall be 1.5 percent per month, or any portion thereof, of the amount of the unsatisfied extraction surcharge. The late penalty shall not exceed 100% of the original surcharge, provided the penalty is paid within 60 days of billing. If the fee is not paid within the 60 days, the penalty will continue to accrue at 1.5 percent per month with a final maximum of 200% of the original penalty due.

5.8.6.3 Collection of Delinquent Extraction Surcharges and Late Penalties - The Board may order that any given extraction surcharge and/or late penalty shall be a personal obligation of the operator or shall be an assessment against the property on which the extraction facility is located. Such assessment constitutes a lien upon the property, which lien attaches upon recordation in the office of the County Recorder. The assessment may be collected at the same time and in the same manner as ordinary ad valorem taxes are collected, and shall be subject to the same penalties and the same procedure and sale, in case of delinquency as provided for such taxes. All laws applicable to the levy, collection and enforcement of ad valorem taxes shall be applicable to such assessment, except that if any real property to which such lien would attach has been transferred or conveyed to a bona fide purchaser for value, or if a lien of a bona fide encumbrance for value has been created and attaches thereon, prior to the date on which the first installment of such taxes would become delinquent, then the lien which would otherwise be imposed by this section shall not attach to such real property and an assessment relating to such property shall be transferred to the unsecured roll for collection.

5.8.6.4 Use of Extraction Surcharges and Late Penalties. Revenues generated from extraction surcharges and late penalties shall be used exclusively for authorized Agency purposes, including financial assistance to support Board approved water supply, conservation, monitoring programs and water reclamation projects that demonstrate significant reductions in overdraft.

CHAPTER 6.0
Appeals

6.1 Any person aggrieved by a decision or determination made by the Executive Officer may appeal to the Board within forty-five (45) calendar days thereof by filing with the Clerk, or Deputy Clerk, of the Board a written request that the Board review the decision of the Executive Officer. The Board shall equitably act on the appeal within 120 days after all relevant information has been provided by the appellant.

CHAPTER 7.0
Severability

7.1 If any section, part, clause or phrase in this Ordinance Code is for any reason held invalid or unconstitutional, the remaining portion of this Ordinance Code shall not be affected but shall remain in full force and effect.

CHAPTER 8.0
Penalties

8.1 Any operator or other person who violates the provisions of this Ordinance Code is subject to the criminal and civil sanctions set forth in the Agency's enabling act and its Ordinances.

8.2 Any person who intentionally violates any provision of this Ordinance Code shall be guilty of an infraction and may be required to pay a fine to the Agency in an amount not to exceed five hundred dollars ($500).

8.3 Any person who negligently or intentionally violates any provision of this Ordinance Code may also be liable civilly to the Agency for a sum not to exceed one thousand dollars ($1,000) per day for each day of such violation, in addition to any other penalties that may be prescribed by law.

8.4 Upon the failure of any person to comply with any provision of this Ordinance Code, the Agency may petition the Superior Court for a temporary restraining order, preliminary or permanent injunction, or such other equitable relief as may be appropriate. The right to petition for injunctive relief is an additional right to those, which may be provided elsewhere in this Ordinance Code or otherwise allowed by law. The Agency may petition the Superior Court of the County to recover any sums due the Agency.

This Ordinance Code shall become effective on the thirty-first day after adoption.

ADOPTED this 27TH day of July 2005 by the following vote:

AYES: Directors Maulhardt, Borchard, Craven, Flynn and Fox

NOES: None

ABSENT: None

Lynn Maulhardt, Chair, Board Of Directors
Fox Canyon Groundwater Management Agency

ATTEST: I hereby certify that the above is a true and correct copy of Ordinance 8.1

Kathy Miller, Clerk of the Board

FOX CANYON GROUNDWATER MANAGEMENT AGENCY

BOARD OF DIRECTORS
Lynn E. Maulhardt, Chair
John K. Flynn
Sam McIntyre
James Daniels
Michael Courey

AGENCY COORDINATOR
Lowell Preston, Ph.D.

July 12, 1994

Eric Berg, Projects Administrator
Calleguas Municipal Water District
2100 Olsen Road
Thousand Oaks, CA 91360-6800

SUBJECT: BOARD APPROVAL OF CMWD APPLICATION FOR INJECTION/STORAGE FACILITIES IN NORTH LAS POSAS GROUNDWATER BASIN

Dear Mr. Berg:

At the Board of Directors meeting on February 23, 1994, the Board approved the CMWD application for injection/storage facilities in the North Las Posas Basin. The approval of this application, as provided for under Ordinance 5.3, was subject to the conditions that follow. These conditions include several changes and additions requested by the Board of Directors.

NORTH LAS POSAS BASIN INJECTION/STORAGE FACILITIES CONDITIONS

1. *The identification, size, depth, well logs and location of wells used for injection/extraction will be registered with the GMA. A maximum of twenty (20) wells all to be permitted by the County of Ventura, Public Works Agency, and registered with the GMA.*

2. *Calleguas will inject/extract on a schedule determined by availability of water to inject and the needs of their customers. The number of acre-feet injected/extracted from each well shall be reported to the GMA monthly. The monthly report shall also include a water quality analysis for the injected water that covers and conforms to the limits listed for the following items:*

a.	*Sodium Adsorption Ratio (SAR) calculated in meq/l as* $SAR=NA/((CA + Mg)/2)^{.5}$	≥1≤4	
b.	*Total Dissolved Solids (TDS)* *Electrical conductivity (EC)*	≥100≤800 <1100	*mg/l* *ulMHO*
c.	*Chloride (Cl)*	<120	*mg/l*
d.	*Boron* (H_3Bo_3)	<1	*mg/l*
e.	*Nitrates*	<45	*mg/l*

(NOTE: These limits are based on University of California research. Should the University reverse these limits, the recommended changes will be incorporated into these conditions.)

800 South Victoria Avenue, Ventura, CA 93009
(805) 654-2888 FAX:(805) 654-3951

Testing shall be conducted monthly during periods of continuous injection, prior to beginning an injection of more than one hundred (100) acre-feet (but no more frequently than monthly), and as frequently as necessary when a change in water quality is suspected or known to exist.

3. *The total water in storage at any one time shall not exceed three hundred thousand (300,000) acre-feet (AF) unless approved by the GMA Board of Directors.*

4. *The point of extraction shall be the same as the point of injection or in the near vicinity. Extraction from points other than that of injection may be desirable and shall be coordinated with, and approved by the GMA.*

5. *Water stored by the facility shall be used in Ventura County.*

6. *Calleguas shall periodically review the effects of the injection on surrounding basins to ensure no detrimental effects result from the injection alone or in combination with natural recharge. Should negative effects exist, Calleguas shall take action to mitigate those effects caused by the injection program.*

7. *Should the injected water or conditions deviate from these standards, injection will stop, or not be started until the condition has been corrected.*

If you have any questions regarding this Agency's approval of your project facilities, please call Rick Farnsworth at 654-2327 or myself at 648-9204.

Very truly yours,

Lowell Preston, Ph.D.
Agency Coordinator

RF:vg

JOG/berg

Excerpts From The Las Posas Aquifer Storage And Recovery Project Feasibility Study

NORTH LAS POSAS BASIN

The North Las Posas Basin is an east-west trending basin which occupies an area of about 34,400 acres (53.8 square miles; Calleguas and Metropolitan, 1989) in the north-central portion of the Calleguas service area. The basin is managed by the (Fox Canyon) GMA. The basin is bounded by South Mountain and Oak Ridge on the north, Big Mountain on the east, the Moorpark Anticline on the southeast, and the Camarillo Hills and Las Posas Hills on the south. Surface runoff in the basin drains southwest through Beardsley Wash into the Oxnard Plain Pressure Basin west of the Camarillo Hills, and to the south through Arroyo Las Posas into the Pleasant Valley Basin between the Camarillo Hills and the Las Posas Hills.

Water-bearing formations underlying the North Las Posas Basin include Recent alluvium, lower Pleistocene to Pliocene nonmarine and marine deposits, and older Miocene to Oligocene sedimentary and volcanic rocks. With the exception of the Recent alluvium, the older formations have been folded into a major gently west-plunging syncline with additional smaller anticlinal and synclinal structures also formed in these deposits.

The primary aquifers in the North Las Posas Basin consist of the Fox Canyon and Grimes Canyon aquifers, collectively called the LAS. Geologic studies performed by CH_2M Hill (1993) and SWRCB (1953) indicate that the San Pedro formation consists of up to 1,400 feet of interbedded sand, gravel, silt and clay. The Fox Canyon aquifer, composed predominantly of sand and gravel, occurs at the base of the San Pedro formation and is typically 200 to 400 feet in thickness. The Santa Barbara formation generally grades from sandstone and conglomerate in the east-central portion of the basin to sandstone and mudstone in the western portion of the basin. The Grimes Canyon aquifer, composed mostly of sandstone with minor conglomerate, occurs near the top of the Santa Barbara formation and ranges in thickness from about 100 to 400 feet. Throughout much of the basin the uppermost 50 to 100 feet of the Santa Barbara formation consists of low permeability fine-grained sediments which separate the Grimes Canyon aquifer from the Fox Canyon aquifer. Groundwater also occurs in interbedded sand and gravel lenses of the San Pedro formation above the Fox Canyon aquifer, in the Recent alluvium and in underlying sedimentary and volcanic rocks. However, these water-bearing formations do not provide the bulk of the groundwater demands in the basin but may locally be important where the LAS is absent.

Groundwater in the LAS is confined except in the outcrop areas along portions of the hills that border the northern and southern margins of the basin. Groundwater generally flows in a westerly direction in the eastern portion of the basin and south in the western portion of the basin where large pumping centers exist. Depth to groundwater may vary considerably and generally ranges from about 800 feet in the northeastern part of the basin to as little as 100 feet near the western boundary of the basin (VCPWA, 1986).

Groundwater recharge to the LAS in the North Las Posas Basin primarily occurs through deep percolation of direct precipitation in the outcrop areas of this aquifer system in the hills bordering the basin and as subsurface recharge from the South Las Posas Basin (Calleguas and Metropolitan, 1989). Recharge to the LAS also occurs as subsurface inflow from the Pleasant Valley Basin west of the Camarillo Hills toward the localized pumping depression in the southwestern portion of the basin and eastward from the Oxnard Forebay Basin due to artificial recharge operations at the Saticoy Spreading Grounds (United, 1996; VCPWA, 1986).

Groundwater depletion chiefly occurs as pumpage for municipal, irrigation, and industrial use. Groundwater outflow in the shallow alluvial aquifer(s) to the Pleasant Valley Basin beneath Arroyo Las Posas near Somis presumably also occurs; however, this quantity has not been reported. Subsurface outflow in the LAS to the Pleasant Valley Basin reportedly occurred under natural unstressed conditions (SWRCB, 1953) and may still occur to the large pumping depression that continues to exist in the Camarillo area.

The maximum storage capacity of the LAS has been estimated to be 3,500,000 acre-feet in 1951 (Calleguas and Metropolitan, 1989). Based on groundwater modeling of this basin (Calleguas and Metropolitan, 1989), groundwater storage in the LAS is estimated to have been depleted by at least 300,000 acre-feet since 1951, and the average annual overdraft for the base period 1980-1987 was estimated to be about 11,000 acre-feet. The natural recharge to the groundwater basin was estimated to be 10,800 acre-feet year (DWR, 1975).

Groundwater quality in the North Las Posas Basin is typified by wide variations in TDS, SO_4, NO_3, iron and manganese concentrations which locally and/or occasionally exceed drinking water MCLs. TDS has varied between about 200-300 mg/l in the northeastern part of the basin to more than 1,800 mg/l in wells adjacent to Arroyo Las Posas in the south-central part of the basin. However, TDS concentrations generally range between 250 and 1,000 mg/l. SO_4 concentrations also vary widely, ranging from 10 to 806 mg/l. The greatest SO_4 concentrations have been encountered in wells located adjacent to Arroyo Las Posas east of Somis. The elevated TDS and SO_4 concentrations encountered near Arroyo Las Posas may be related to the recharge of treated wastewater effluent from the Simi Valley Water Quality Control Plant (SVWQCP) and/or the Moorpark

Wastewater Treatment Plant (MWWTP) into the alluvial and underlying Fox Canyon aquifers. Cl concentrations have only occasionally exceeded the secondary MCLs and have ranged between 8 and 284 mg/l. NO_3 concentrations have ranged from ND to 144 mg/l. The two highest concentrations reported (132 and 144 mg/l) were detected in wells adjacent to Arroyo Las Posas and Beardsley Wash, suggesting possible impact from irrigation return flows.

Manganese and iron concentrations also occasionally exceeded the secondary drinking water MCLs. Manganese and iron were encountered at concentrations ranging between ND and 0.31 mg/l and ND and 8.4 mg/l, respectively. The greatest manganese concentrations were detected north of Somis, while the highest iron concentrations were detected near the western margin of the basin.

Owing to the existing and projected overdraft in the North Las Posas Basin, the estimated 300,000 acre-feet of available storage in the LAS and the degradation of the alluvium and LAS by poor quality recharge from the South Las Posas Basin, an LAS aquifer storage and recovery (ASR) project is currently being implemented in the North Las Posas Basin. As proposed, the ASR project will require the installation of 30 injection/extraction wells which will ultimately inject as much as 300,000 acre-feet of imported water into the LAS for storage during low water demand periods. The stored water could then be recovered or extracted for use during peak normal year water demand periods, during droughts or in emergencies

Appendix C

Water Supply and Demand Justification

CMWD 2005 UWMP - Purveyor Forecast Summary

Normal Year Scenario

Camarillo Region

Retail Water Demand	2005	2010	2015	2020	2025	2030
Agricultural	7,730	6,908	6,635	6,037	5,639	5,242
Municipal and Industrial	21,386	23,861	26,588	29,412	31,239	33,064
Total Retail Demand	29,116	30,769	33,223	35,449	36,878	38,306
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	8,200	5,200	4,200	4,200	4,200	4,200
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	1,669	4,735	5,750	5,770	5,790	5,810
Desalinated Brackish Groundwater		1,050	1,575	2,100	2,100	2,100
Other (Please Explain)						
Sub-Total Local Potable Supply	9,869	10,985	11,525	12,070	12,090	12,110
Non-Potable						
Recycled Wastewater	1,249	1,391	1,534	1,676	1,819	1,961
Untreated Surface Water	2,150	2,703	3,409	4,115	5,190	6,265
Non-Potable Groundwater	1,222	1,745	2,116	2,486	2,486	2,486
Other (Please Explain)						
Subtotal Non-Potable Local Supply	4,621	5,839	7,059	8,277	9,495	10,712
Total Local Supply	14,490	16,824	18,584	20,347	21,585	22,822
Exports to Other Agencies						
Net Local Supplies	14,490	16,824	18,584	20,347	21,585	22,822
Net Projected Requrements of Imported Water from CMWD	14,626	13,945	14,639	15,102	15,293	15,484
Change		*-4.7%*	*5.0%*	*3.2%*	*1.3%*	*1.2%*
Average Change	0.2% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Normal Year Scenario

Moorpark Region

Retail Water Demand	2005	2010	2015	2020	2025	2030
Agricultural	11,007	11,358	11,358	11,408	11,433	11,458
Municipal and Industrial	11,633	13,342	15,318	16,447	16,476	16,505
Total Retail Demand	22,640	24,700	26,676	27,855	27,909	27,963
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	3,953	2,909	2,909	2,909	2,909	2,909
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	750	1,500	1,500	1,500	1,500	1,500
Desalinated Brackish Groundwater		2,000	5,000	5,000	5,000	5,000
Other (Please Explain)						
Sub-Total Local Potable Supply	4,703	6,409	9,409	9,409	9,409	9,409
Non-Potable						
Recycled Wastewater	1,008	2,016	2,016	2,016	2,016	2,016
Untreated Surface Water						
Non-Potable Groundwater	4,500	4,750	4,750	4,775	4,775	4,800
Other (Please Explain)						
Subtotal Non-Potable Local Supply	5,508	6,766	6,766	6,791	6,791	6,816
Total Local Supply	10,211	13,175	16,175	16,200	16,200	16,225
Exports to Other Agencies						
Net Local Supplies	10,211	13,175	16,175	16,200	16,200	16,225
Net Projected Requrements of Imported Water from CMWD	12,429	11,525	10,501	11,655	11,709	11,738
Change		*-7.3%*	*-8.9%*	*11.0%*	*0.5%*	*0.2%*
Average Change	-0.2% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Normal Year Scenario

Simi Valley Region

Retail Water Demand	2005	2010	2015	2020	2025	2030
Agricultural	90	99	110	121	134	150
Municipal and Industrial	33,080	35,201	38,670	41,891	45,448	49,414
Total Retail Demand	33,170	35,300	38,780	42,012	45,582	49,564
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	500	500	500	500	500	500
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	500	500	500	500	500	500
Non-Potable						
Recycled Wastewater	100	110	121	133	147	162
Untreated Surface Water						
Non-Potable Groundwater	1,000	1,104	1,219	1,345	1,486	1,640
Other (Please Explain)						
Subtotal Non-Potable Local Supply	1,100	1,214	1,340	1,478	1,633	1,802
Total Local Supply	1,600	1,714	1,840	1,978	2,133	2,302
Exports to Other Agencies						
Net Local Supplies	1,600	1,714	1,840	1,978	2,133	2,302
Net Projected Requrements of Imported Water from CMWD	31,570	33,586	36,940	40,034	43,449	47,262
Change		*6.4%*	*10.0%*	*8.4%*	*8.5%*	*8.8%*
Average Change	2.0% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Normal Year Scenario

Conejo Valley Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural						
Municipal and Industrial	44,308	46,496	48,260	48,896	49,546	50,211
Total Retail Demand	44,308	46,496	48,260	48,896	49,546	50,211
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment						
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	0	0	0	0	0	0
Non-Potable						
Recycled Wastewater	10,969	11,475	11,981	11,987	11,994	12,000
Untreated Surface Water						
Non-Potable Groundwater	50	50	50	50	50	50
Other (Please Explain)						
Subtotal Non-Potable Local Supply	11,019	11,525	12,031	12,037	12,044	12,050
Total Local Supply	11,019	11,525	12,031	12,037	12,044	12,050
Exports to Other Agencies	10,500	11,000	11,500	11,500	11,500	11,500
Net Local Supplies	519	525	531	537	544	550
Net Projected Requrements of Imported Water from CMWD	43,789	45,971	47,729	48,359	49,002	49,661
Change		*5.0%*	*3.8%*	*1.3%*	*1.3%*	*1.3%*
Average Change	0.5% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Normal Year Scenario

Oak Park Region

Retail Water Demand	2005	2010	2015	2020	2025	2030
Agricultural						
Municipal and Industrial	4,300	4,300	4,300	4,300	4,300	4,300
Total Retail Demand	4,300	4,300	4,300	4,300	4,300	4,300
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment						
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	0	0	0	0	0	0
Non-Potable						
Recycled Wastewater	850	850	870	880	890	900
Untreated Surface Water						
Non-Potable Groundwater						
Other (Please Explain)						
Subtotal Non-Potable Local Supply	850	850	870	880	890	900
Total Local Supply	850	850	870	880	890	900
Exports to Other Agencies						
Net Local Supplies	850	850	870	880	890	900
Net Projected Requrements of Imported Water from CMWD	3,450	3,450	3,430	3,420	3,410	3,400
Change		*0.0%*	*-0.6%*	*-0.3%*	*-0.3%*	*-0.3%*
Average Change	-0.1% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Normal Year Scenario

Oxnard Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	21	21	21	21	21	21
Municipal and Industrial	37,672	42,555	47,410	51,806	56,659	62,002
Total Retail Demand	37,693	42,576	47,431	51,827	56,680	62,023
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	17,842	10,462	11,082	11,238	3,845	8,964
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater	4,750	13,000	13,200	13,400	21,600	21,850
Other (Please Explain)						
Sub-Total Local Potable Supply	22,592	23,462	24,282	24,638	25,445	30,814
Non-Potable						
Recycled Wastewater		4,029	8,059	12,088	16,117	16,117
Untreated Surface Water						
Non-Potable Groundwater						
Other (Please Explain)						
Subtotal Non-Potable Local Supply	0	4,029	8,059	12,088	16,117	16,117
Total Local Supply	22,592	27,491	32,341	36,726	41,562	46,931
Exports to Other Agencies						
Net Local Supplies	22,592	27,491	32,341	36,726	41,562	46,931
Net Projected Requrements of Imported Water from CMWD	15,101	15,085	15,090	15,101	15,118	15,092
Change		*-0.1%*	*0.0%*	*0.1%*	*0.1%*	*-0.2%*
Average Change	0.0% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Normal Year Scenario

CMWD District-Wide Normal Year

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	18,848	18,386	18,124	17,587	17,227	16,871
Municipal and Industrial	152,379	165,755	180,546	192,752	203,668	215,496
Total Retail Demand	171,227	184,141	198,670	210,339	220,895	232,367
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	30,495	19,071	18,691	18,847	11,454	16,573
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	2,419	6,235	7,250	7,270	7,290	7,310
Desalinated Brackish Groundwater	4,750	16,050	19,775	20,500	28,700	28,950
Other (Please Explain)	0	0	0	0	0	0
Sub-Total Local Potable Supply	37,664	41,356	45,716	46,617	47,444	52,833
Non-Potable						
Recycled Wastewater	14,176	19,871	24,581	28,780	32,983	33,156
Untreated Surface Water	2,150	2,703	3,409	4,115	5,190	6,265
Non-Potable Groundwater	6,772	7,649	8,135	8,656	8,797	8,976
Other (Please Explain)	0	0	0	0	0	0
Subtotal Non-Potable Local Supply	23,098	30,223	36,125	41,551	46,970	48,397
Total Local Supply	60,762	71,579	81,841	88,168	94,414	101,230
Exports to Other Agencies	10,500	11,000	11,500	11,500	11,500	11,500
Net Local Supplies	50,262	60,579	70,341	76,668	82,914	89,730
Net Projected Requrements of Imported Water from CMWD	120,965	123,562	128,329	133,671	137,981	142,637
Change		*2.1%*	*3.9%*	*4.2%*	*3.2%*	*3.4%*
Average Change	0.7% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Isolated Dry Year Scenario

Camarillo Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	8,152	7,530	7,009	6,387	5,966	5,544
Municipal and Industrial	22,415	24,897	27,831	30,862	32,795	34,726
Total Retail Demand	30,567	32,427	34,840	37,249	38,761	40,270
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	8,200	5,200	4,200	4,200	4,200	4,200
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	1,617	4,730	5,740	5,750	5,765	5,747
Desalinated Brackish Groundwater		1,050	1,575	2,100	2,100	2,100
Other (Please Explain)						
Sub-Total Local Potable Supply	9,817	10,980	11,515	12,050	12,065	12,047
Non-Potable						
Recycled Wastewater	1,249	1,391	1,534	1,676	1,819	1,961
Untreated Surface Water	2,150	2,703	3,409	4,115	5,190	6,265
Non-Potable Groundwater	1,222	1,745	2,116	2,486	2,486	2,486
Other (Please Explain)						
Subtotal Non-Potable Local Supply	4,621	5,839	7,059	8,277	9,495	10,712
Total Local Supply	14,438	16,819	18,574	20,327	21,560	22,759
Exports to Other Agencies						
Net Local Supplies	14,438	16,819	18,574	20,327	21,560	22,759
Net Projected Requrements of Imported Water from CMWD	16,129	15,608	16,266	16,922	17,201	17,511
Change		-3.2%	4.2%	4.0%	1.6%	1.8%
Average Growth	0.3% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Isolated Dry Year Scenario

Moorpark Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	12,748	13,169	13,169	13,194	13,219	13,292
Municipal and Industrial	13,019	14,932	17,142	18,395	18,427	18,456
Total Retail Demand	25,767	28,101	30,311	31,589	31,646	31,748
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	3,953	2,909	2,909	2,909	2,909	2,909
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	750	1,500	1,500	1,500	1,500	1,500
Desalinated Brackish Groundwater		2,000	5,000	5,000	5,000	5,000
Other (Please Explain)						
Sub-Total Local Potable Supply	4,703	6,409	9,409	9,409	9,409	9,409
Non-Potable						
Recycled Wastewater	1,008	2,016	2,016	2,016	2,016	2,016
Untreated Surface Water						
Non-Potable Groundwater	4,300	4,575	4,575	4,575	4,575	4,575
Other (Please Explain)						
Subtotal Non-Potable Local Supply	5,308	6,591	6,591	6,591	6,591	6,591
Total Local Supply	10,011	13,000	16,000	16,000	16,000	16,000
Exports to Other Agencies						
Net Local Supplies	10,011	13,000	16,000	16,000	16,000	16,000
Net Projected Requrements of Imported Water from CMWD	15,756	15,101	14,311	15,589	15,646	15,748
Change		*-4.2%*	*-5.2%*	*8.9%*	*0.4%*	*0.7%*

Average Change 0.00% Per Year

CMWD 2005 UWMP - Purveyor Forecast Summary

Isolated Dry Year Scenario

Simi Valley Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	90	99	110	121	134	150
Municipal and Industrial	33,130	35,251	38,720	41,941	45,498	49,464
Total Retail Demand	33,220	35,350	38,830	42,062	45,632	49,614
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	500	500	500	500	500	500
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	500	500	500	500	500	500
Non-Potable						
Recycled Wastewater	100	110	121	133	147	162
Untreated Surface Water						
Non-Potable Groundwater						
Other (Please Explain)						
Subtotal Non-Potable Local Supply	100	110	121	133	147	162
Total Local Supply	600	610	621	633	647	662
Exports to Other Agencies						
Net Local Supplies	600	610	621	633	647	662
Net Projected Requrements of Imported Water from CMWD	32,620	34,740	38,209	41,429	44,985	48,952
Change		*6.5%*	*10.0%*	*8.4%*	*8.6%*	*8.8%*

Average Change 2.0% Per Year

CMWD 2005 UWMP - Purveyor Forecast Summary

Isolated Dry Year Scenario

Conejo Valley Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural						
Municipal and Industrial	45,357	47,758	49,637	50,377	51,137	51,918
Total Retail Demand	45,357	47,758	49,637	50,377	51,137	51,918
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment						
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	0	0	0	0	0	0
Non-Potable						
Recycled Wastewater	10,469	10,975	11,481	11,487	11,494	11,500
Untreated Surface Water						
Non-Potable Groundwater	50	50	50	50	50	50
Other (Please Explain)						
Subtotal Non-Potable Local Supply	10,519	11,025	11,531	11,537	11,544	11,550
Total Local Supply	10,519	11,025	11,531	11,537	11,544	11,550
Exports to Other Agencies	10,000	10,500	11,000	11,000	11,000	11,000
Net Local Supplies	519	525	531	537	544	550
Net Projected Requrements of Imported Water from CMWD	44,838	47,233	49,106	49,840	50,593	51,368
Change		*5.3%*	*4.0%*	*1.5%*	*1.5%*	*1.5%*
Average Change	0.6% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Isolated Dry Year Scenario

Oak Park Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural						
Municipal and Industrial	4,400	4,400	4,400	4,400	4,400	4,400
Total Retail Demand	4,400	4,400	4,400	4,400	4,400	4,400
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment						
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	0	0	0	0	0	0
Non-Potable						
Recycled Wastewater	900	900	920	940	950	964
Untreated Surface Water						
Non-Potable Groundwater						
Other (Please Explain)						
Subtotal Non-Potable Local Supply	900	900	920	940	950	964
Total Local Supply	900	900	920	940	950	964
Exports to Other Agencies						
Net Local Supplies	900	900	920	940	950	964
Net Projected Requrements of Imported Water from CMWD	3,500	3,500	3,480	3,460	3,450	3,436
Change		*0.0%*	*-0.6%*	*-0.6%*	*-0.3%*	*-0.4%*

Average Change -0.1% Per Year

CMWD 2005 UWMP - Purveyor Forecast Summary

Isolated Dry Year Scenario

Oxnard Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	21	21	21	21	21	21
Municipal and Industrial	37,672	42,555	47,410	51,806	56,659	62,002
Total Retail Demand	37,693	42,576	47,431	51,827	56,680	62,023
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	17,842	10,462	11,082	11,238	3,845	8,964
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater	4,750	13,000	13,200	13,400	21,600	21,850
Other (Please Explain)						
Sub-Total Local Potable Supply	22,592	23,462	24,282	24,638	25,445	30,814
Non-Potable						
Recycled Wastewater		4,029	8,059	12,088	16,117	16,117
Untreated Surface Water						
Non-Potable Groundwater						
Other (Please Explain)						
Subtotal Non-Potable Local Supply	0	4,029	8,059	12,088	16,117	16,117
Total Local Supply	22,592	27,491	32,341	36,726	41,562	46,931
Exports to Other Agencies						
Net Local Supplies	22,592	27,491	32,341	36,726	41,562	46,931
Net Projected Requrements of Imported Water from CMWD	15,101	15,085	15,090	15,101	15,118	15,092
Change		*-0.1%*	*0.0%*	*0.1%*	*0.1%*	*-0.2%*
Average Change	0.0% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Isolated Dry Year Scenario

CMWD District-Wide Dry Year

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	21,011	20,819	20,309	19,723	19,340	19,007
Municipal and Industrial	155,993	169,793	185,140	197,781	208,916	220,966
Total Retail Demand	177,004	190,612	205,449	217,504	228,256	239,973
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	30,495	19,071	18,691	18,847	11,454	16,573
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	2,367	6,230	7,240	7,250	7,265	7,247
Desalinated Brackish Groundwater	4,750	16,050	19,775	20,500	28,700	28,950
Other (Please Explain)	0	0	0	0	0	0
Sub-Total Local Potable Supply	37,612	41,351	45,706	46,597	47,419	52,770
Non-Potable						
Recycled Wastewater	13,726	19,421	24,131	28,340	32,543	32,720
Untreated Surface Water	2,150	2,703	3,409	4,115	5,190	6,265
Non-Potable Groundwater	5,572	6,370	6,741	7,111	7,111	7,111
Other (Please Explain)						
Subtotal Non-Potable Local Supply	21,448	28,494	34,281	39,566	44,844	46,096
Total Local Supply	59,060	69,845	79,987	86,163	92,263	98,866
Exports to Other Agencies	10,000	10,500	11,000	11,000	11,000	11,000
Net Local Supplies	49,060	59,345	68,987	75,163	81,263	87,866
Net Projected Requrements of Imported Water from CMWD	127,944	131,267	136,462	142,341	146,993	152,107
Change		*2.6%*	*4.0%*	*4.3%*	*3.3%*	*3.5%*

Average Change 0.8% Per Year

CMWD 2005 UWMP - Purveyor Forecast Summary

Multiple Dry Year Scenario

Camarillo Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	9,493	8,796	8,198	7,501	7,003	6,506
Municipal and Industrial	24,824	27,768	31,036	34,401	36,667	38,932
Total Retail Demand	34,317	36,564	39,234	41,902	43,670	45,438
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	6,940	3,940	2,940	2,940	2,940	2,940
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	1,605	6,025	8,540	8,555	8,565	8,575
Desalinated Brackish Groundwater		490	980	1,470	1,470	1,470
Other (Please Explain)						
Sub-Total Local Potable Supply	8,545	10,455	12,460	12,965	12,975	12,985
Non-Potable						
Recycled Wastewater	1,249	1,391	1,534	1,676	1,819	1,961
Untreated Surface Water	2,150	2,703	3,409	4,115	5,190	6,265
Non-Potable Groundwater	1,042	1,594	2,041	2,486	2,486	2,486
Other (Please Explain)						
Subtotal Non-Potable Local Supply	4,441	5,688	6,984	8,277	9,495	10,712
Total Local Supply	12,986	16,143	19,444	21,242	22,470	23,697
Exports to Other Agencies						
Net Local Supplies	12,986	16,143	19,444	21,242	22,470	23,697
Net Projected Requrements of Imported Water from CMWD	21,331	20,421	19,790	20,660	21,200	21,741
Change		*-4.3%*	*-3.1%*	*4.4%*	*2.6%*	*2.6%*
Average Growth	0.1% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Multiple Dry Year Scenario

Moorpark Region

Retail Water Demand	2005	2010	2015	2020	2025	2030
Agricultural	12,498	12,970	12,970	12,995	13,020	13,045
Municipal and Industrial	13,275	15,221	17,473	18,747	18,780	18,813
Total Retail Demand	25,773	28,191	30,443	31,742	31,800	31,858
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	3,953	2,909	2,909	2,909	2,909	2,909
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	750	1,500	1,500	1,500	1,500	1,500
Desalinated Brackish Groundwater		2,000	5,000	5,000	5,000	5,000
Other (Please Explain)						
Sub-Total Local Potable Supply	4,703	6,409	9,409	9,409	9,409	9,409
Non-Potable						
Recycled Wastewater	1,008	2,016	2,016	2,016	2,016	2,016
Untreated Surface Water						
Non-Potable Groundwater	4,500	4,800	4,800	4,750	4,750	4,750
Other (Please Explain)						
Subtotal Non-Potable Local Supply	5,508	6,816	6,816	6,766	6,766	6,766
Total Local Supply	10,211	13,225	16,225	16,175	16,175	16,175
Exports to Other Agencies						
Net Local Supplies	10,211	13,225	16,225	16,175	16,175	16,175
Net Projected Requrements of Imported Water from CMWD	15,562	14,966	14,218	15,567	15,625	15,683
Change		*-3.8%*	*-5.0%*	*9.5%*	*0.4%*	*0.4%*
Average Change	0.0% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Multiple Dry Year Scenario

Simi Valley Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	90	99	110	121	134	150
Municipal and Industrial	33,180	35,351	38,870	42,141	45,748	49,764
Total Retail Demand	33,270	35,450	38,980	42,262	45,882	49,914
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	500	500	500	500	500	500
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	500	500	500	500	500	500
Non-Potable						
Recycled Wastewater	100	110	121	133	147	162
Untreated Surface Water						
Non-Potable Groundwater	1,000	1,104	1,219	1,345	1,486	1,640
Other (Please Explain)						
Subtotal Non-Potable Local Supply	1,100	1,214	1,340	1,478	1,633	1,802
Total Local Supply	1,600	1,714	1,840	1,978	2,133	2,302
Exports to Other Agencies						
Net Local Supplies	1,600	1,714	1,840	1,978	2,133	2,302
Net Projected Requrements of Imported Water from CMWD	31,670	33,736	37,140	40,284	43,749	47,612
Change		*6.5%*	*10.1%*	*8.5%*	*8.6%*	*8.8%*
Average Change	2.0% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Multiple Dry Year Scenario

Conejo Valley Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural						
Municipal and Industrial	43,935	46,418	48,386	49,221	50,083	50,973
Total Retail Demand	43,935	46,418	48,386	49,221	50,083	50,973
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment						
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	0	0	0	0	0	0
Non-Potable						
Recycled Wastewater	10,469	10,975	11,481	11,487	11,494	11,600
Untreated Surface Water						
Non-Potable Groundwater	50	50	50	50	50	50
Other (Please Explain)						
Subtotal Non-Potable Local Supply	10,519	11,025	11,531	11,537	11,544	11,650
Total Local Supply	10,519	11,025	11,531	11,537	11,544	11,650
Exports to Other Agencies	10,000	10,500	11,000	11,000	11,000	11,000
Net Local Supplies	519	525	531	537	544	650
Net Projected Requrements of Imported Water from CMWD	43,416	45,893	47,855	48,684	49,539	50,323
Change		*5.7%*	*4.3%*	*1.7%*	*1.8%*	*1.6%*
Average Change	0.6% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Multiple Dry Year Scenario

Oak Park Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural						
Municipal and Industrial	4,400	4,400	4,400	4,400	4,400	4,400
Total Retail Demand	4,400	4,400	4,400	4,400	4,400	4,400
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment						
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater						
Other (Please Explain)						
Sub-Total Local Potable Supply	0	0	0	0	0	0
Non-Potable						
Recycled Wastewater	900	900	920	940	950	960
Untreated Surface Water						
Non-Potable Groundwater						
Other (Please Explain)						
Subtotal Non-Potable Local Supply	900	900	920	940	950	960
Total Local Supply	900	900	920	940	950	960
Exports to Other Agencies						
Net Local Supplies	900	900	920	940	950	960
Net Projected Requrements of Imported Water from CMWD	3,500	3,500	3,480	3,460	3,450	3,440
Change		*0.0%*	*-0.6%*	*-0.6%*	*-0.3%*	*-0.3%*
Average Change	-0.1% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Multiple Dry Year Scenario

Oxnard Region

	2005	2010	2015	2020	2025	2030
Retail Water Demand						
Agricultural	21	21	21	21	21	21
Municipal and Industrial	37,672	42,555	47,410	51,806	56,659	62,002
Total Retail Demand	37,693	42,576	47,431	51,827	56,680	62,023
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	18504	11124	11744	11900	4507	9626
Groundwater Disinfected and Treated for Iron and/or Manganese Removal						
Desalinated Brackish Groundwater	4750	13000	13200	13400	21600	21850
Other (Please Explain)						
Sub-Total Local Potable Supply	23,254	24,124	24,944	25,300	26,107	31,476
Non-Potable						
Recycled Wastewater	0	4029	8059	12088	16117	16117
Untreated Surface Water						
Non-Potable Groundwater						
Other (Please Explain)						
Subtotal Non-Potable Local Supply	0	4,029	8,059	12,088	16,117	16,117
Total Local Supply	23,254	28,153	33,003	37,388	42,224	47,593
Exports to Other Agencies						
Net Local Supplies	23,254	28,153	33,003	37,388	42,224	47,593
Net Projected Requrements of Imported Water from CMWD	14,439	14,423	14,428	14,439	14,456	14,430
Change		*-0.1%*	*0.0%*	*0.1%*	*0.1%*	*-0.2%*
Average Change	0.0% Per Year					

CMWD 2005 UWMP - Purveyor Forecast Summary

Multiple Dry Year Scenario

CMWD District-Wide Multiple Dry Year

Retail Water Demand	2005	2010	2015	2020	2025	2030
Agricultural	22,102	21,886	21,299	20,638	20,178	19,722
Municipal and Industrial	157,286	171,713	187,575	200,715	212,337	224,884
Total Retail Demand	179,388	193,599	208,874	221,353	232,515	244,606
Local Supplies						
Potable						
Groundwater with Disinfection as the Only Treatment	29,897	18,473	18,093	18,249	10,856	15,975
Groundwater Disinfected and Treated for Iron and/or Manganese Removal	2,355	7,525	10,040	10,055	10,065	10,075
Desalinated Brackish Groundwater	4,750	15,490	19,180	19,870	28,070	28,320
Other (Please Explain)	0	0	0	0	0	0
Sub-Total Local Potable Supply	37,002	41,488	47,313	48,174	48,991	54,370
Non-Potable						
Recycled Wastewater	13,726	19,421	24,131	28,340	32,543	32,816
Untreated Surface Water	2,150	2,703	3,409	4,115	5,190	6,265
Non-Potable Groundwater	6,592	7,548	8,110	8,631	8,772	8,926
Other (Please Explain)	0	0	0	0	0	0
Subtotal Non-Potable Local Supply	22,468	29,672	35,650	41,086	46,505	48,007
Total Local Supply	59,470	71,160	82,963	89,260	95,496	102,377
Exports to Other Agencies	10,000	10,500	11,000	11,000	11,000	11,000
Net Local Supplies	49,470	60,660	71,963	78,260	84,496	91,377
Net Projected Requrements of Imported Water from CMWD	129,918	132,939	136,911	143,093	148,019	153,229
Change		*2.3%*	*3.0%*	*4.5%*	*3.4%*	*3.5%*
Average Change	0.7% Per Year					

CMWD 2005 UWMP - Net Projected Demands on CMWD by Purveyor

Normal Year

Purveyor	2005	2010	2015	2020	2025	2030
Berylwood Heights Mutual Water Company	0	0	0	25	50	50
Brandeis Mutual Water Company	80	90	95	95	100	150
Butler Ranch Mutual Water Company	0	0	0	0	0	0
California-American Water Company	19,241	19,727	20,225	20,736	21,259	21,796
California Water Service	9,677	9,793	9,910	10,029	10,149	10,271
Camarillo, City of	5,600	5,800	6,600	7,400	7,400	7,400
Camrosa Water District	8,409	7,294	7,151	6,784	6,943	7,104
Capehart Housing - U.S. Navy	186	186	188	188	190	190
Crestview Mutual Water Company	220	350	400	450	500	550
Lake Sherwood CSD	1,130	1,310	1,453	1,453	1,453	1,453
Newbury Park Adacemy Water Company	141	141	141	141	141	141
Oak Park Water Service	3,450	3,450	3,430	3,420	3,410	3,400
Oxnard, City of	15,101	15,085	15,090	15,101	15,118	15,092
Pleasant Valley Mutual Water Company	211	315	300	280	260	240
Simi Valley, City of (VCWWD #8)	23,990	25,946	29,245	32,289	35,649	39,362
Solano Verde Mutual Water Co. (Future)	270	280	290	300	300	300
Southern California Water Company	7,500	7,550	7,600	7,650	7,700	7,750
Thousand Oaks, City of	13,600	15,000	16,000	16,000	16,000	16,000
Ventura County Water Works District No. 1	10,187	8,998	7,937	9,028	9,028	9,028
Ventura County Water Works District No. 19	472	747	774	802	831	860
Zone Mutual Water Company	1,500	1,500	1,500	1,500	1,500	1,500
Total	120,965	123,562	128,329	133,671	137,981	142,637

= No projections provided

CMWD 2005 UWMP - Net Projected Demands on CMWD by Purveyor

Dry Year

Purveyor	2005	2010	2015	2020	2025	2030
Berylwood Heights Mutual Water Company	0	25	25	50	75	100
Brandeis Mutual Water Company	80	90	95	95	100	150
Butler Ranch Mutual Water Company	0	0	0	0	0	0
California-American Water Company	19,260	19,845	20,447	21,068	21,708	22,367
California Water Service	9,169	9,279	9,391	9,504	9,617	9,733
Camarillo, City of	6,000	6,100	7,000	7,900	7,900	7,900
Camrosa Water District	9,431	8,623	8,338	8,054	8,296	8,538
Capehart Housing - U.S. Navy	215	215	218	218	220	220
Crestview Mutual Water Company	270	400	450	500	550	600
Lake Sherwood CSD	1,254	1,454	1,613	1,613	1,613	1,613
Newbury Park Adacemy Water Company	155	155	155	155	155	155
Oak Park Water Service	3,500	3,500	3,480	3,460	3,450	3,436
Oxnard, City of	15,101	15,085	15,090	15,101	15,118	15,092
Pleasant Valley Mutual Water Company	213	270	260	250	235	253
Simi Valley, City of (VCWWD #8)	24,990	27,050	30,464	33,634	37,135	41,002
Solano Verde Mutual Water Co. (Future)	310	320	330	330	330	330
Southern California Water Company	7,550	7,600	7,650	7,700	7,750	7,800
Thousand Oaks, City of	15,000	16,500	17,500	17,500	17,500	17,500
Ventura County Water Works District No. 1	11,991	11,003	10,174	11,396	11,396	11,396
Ventura County Water Works District No. 19	955	1,253	1,282	1,313	1,345	1,422
Zone Mutual Water Company	2,500	2,500	2,500	2,500	2,500	2,500
Total	127,944	131,267	136,462	142,341	146,993	152,107

= No projections provided

CMWD 2005 UWMP - Net Projected Demands on CMWD by Purveyor

Multiple Dry Years

Purveyor	2005	2010	2015	2020	2025	2030
Berylwood Heights Mutual Water Company	0	50	50	125	150	175
Brandeis Mutual Water Company	80	90	95	95	100	150
Butler Ranch Mutual Water Company	0	0	0	0	0	0
California-American Water Company	19,279	19,963	20,672	21,406	22,166	22,952
California Water Service	7,723	7,816	7,910	8,005	8,100	8,098
Camarillo, City of	6,500	5,400	4,800	5,700	5,700	5,700
Camrosa Water District	14,121	14,106	14,042	13,982	14,485	14,991
Capehart Housing - U.S. Navy	215	215	218	218	220	220
Crestview Mutual Water Company	320	450	500	550	600	650
Lake Sherwood CSD	1,254	1,454	1,613	1,613	1,613	1,613
Newbury Park Adacemy Water Company	160	160	160	160	160	160
Oak Park Water Service	3,500	3,500	3,480	3,460	3,450	3,440
Oxnard, City of	14,439	14,423	14,428	14,439	14,456	14,430
Pleasant Valley Mutual Water Company	175	250	230	210	195	180
Simi Valley, City of (VCWWD #8)	23,990	25,946	29,245	32,289	35,649	39,362
Solano Verde Mutual Water Co. (Future)	330	340	350	350	350	350
Southern California Water Company	7,600	7,700	7,800	7,900	8,000	8,100
Thousand Oaks, City of	15,000	16,500	17,500	17,500	17,500	17,500
Ventura County Water Works District No. 1	12,231	11,276	10,487	11,730	11,730	11,730
Ventura County Water Works District No. 19	1,001	1,300	1,331	1,362	1,395	1,428
Zone Mutual Water Company	2,000	2,000	2,000	2,000	2,000	2,000
Total	129,918	132,939	136,911	143,094	148,019	153,229

= No projections provided

Calleguas Municipal Water District
Historic Water Sales By Month

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
1965	454.8	447.3	537.0	499.3	1,031.0	1,081.8	1,353.9	1,575.7	1,203.7	1,434.4	748.8	531.2	10,898.9
1966	600.6	527.5	907.1	1,330.9	1,513.1	1,943.1	2,244.9	2,327.6	1,872.2	1,711.5	959.8	837.2	16,775.5
1967	1,149.1	952.3	1,054.7	724.9	1,590.8	2,031.7	2,775.5	2,931.9	2,047.2	1,959.8	1,457.7	1,045.1	19,720.7
1968	1,137.8	970.1	1,348.8	1,843.7	2,377.3	2,591.8	3,122.1	2,930.6	2,702.7	2,015.9	1,628.1	1,285.1	23,954.0
1969	1,105.7	899.7	1,408.3	1,692.7	2,167.9	2,397.7	3,322.1	3,311.2	2,782.5	2,621.8	1,715.0	1,606.0	25,030.6
1970	1,236.9	1,261.9	1,691.9	2,902.3	3,808.7	3,824.5	4,448.9	3,977.8	3,525.7	2,783.3	2,086.8	1,207.0	32,755.7
1971	1,408.8	1,532.4	2,135.7	2,512.3	2,915.1	3,533.9	4,621.9	4,530.3	3,616.7	3,327.0	2,216.6	1,789.1	34,139.8
1972	1,947.1	2,267.2	3,085.2	3,491.4	4,040.8	4,338.7	5,034.3	4,937.6	3,865.4	3,377.0	2,597.8	2,436.2	41,418.7
1973	2,186.5	1,659.2	1,993.6	3,240.6	3,948.3	4,929.7	5,248.7	4,861.0	4,196.6	3,987.0	2,699.2	2,315.8	41,266.2
1974	1,990.7	2,580.7	2,285.2	3,438.9	4,424.5	5,212.4	5,741.9	5,240.3	4,813.1	3,656.4	3,264.5	2,610.6	45,259.2
1975	2,898.0	2,109.3	2,258.1	2,675.6	4,333.1	4,847.0	6,051.9	5,717.5	4,920.1	4,373.4	4,043.9	3,601.3	47,829.2
1976	4,112.0	2,763.7	3,460.4	3,941.7	5,713.3	6,883.2	6,975.6	6,410.4	4,302.8	4,606.3	4,516.7	4,885.1	58,571.2
1977	3,106.2	3,796.1	3,359.7	4,277.3	3,661.6	5,082.1	6,277.6	5,595.6	5,240.7	4,688.5	4,310.1	3,429.6	52,825.1
1978	2,517.3	2,425.0	2,696.3	2,778.1	5,799.3	6,971.1	7,155.0	7,189.2	6,252.6	5,732.8	3,715.5	3,222.7	56,454.9
1979	2,864.0	2,554.1	3,101.6	4,564.9	6,231.8	7,345.4	7,973.3	7,878.8	7,834.8	5,694.2	4,747.4	5,113.8	65,904.1
1980	3,217.3	2,949.6	3,236.0	5,272.8	5,521.0	7,632.0	9,133.5	8,948.0	7,135.0	7,124.0	6,050.2	4,993.5	71,212.9
1981	4,849.3	3,739.6	3,637.8	5,553.4	7,603.4	9,863.4	10,294.7	9,792.3	8,456.0	6,699.6	5,571.2	4,346.7	80,407.4
1982	3,606.7	3,780.3	3,775.1	4,704.5	6,964.5	7,409.0	9,452.9	9,311.8	7,386.4	7,432.3	4,555.3	3,775.4	72,154.2
1983	4,375.4	3,073.2	3,439.9	4,419.5	6,386.3	7,569.3	9,256.8	8,204.4	8,129.4	5,487.6	3,897.1	3,441.4	67,680.3
1984	4,752.2	5,344.2	6,948.8	7,032.8	8,957.0	9,055.7	10,650.6	10,179.5	8,978.4	7,564.9	4,557.2	3,636.9	87,658.2
1985	4,574.1	4,568.3	5,350.1	7,208.3	8,511.3	9,823.5	10,905.1	10,543.8	9,011.3	8,093.6	5,671.9	5,149.7	89,411.0
1986	5,436.8	3,726.2	4,586.2	6,203.2	8,474.7	9,414.0	10,627.1	10,468.6	8,353.2	7,752.1	6,920.5	6,089.9	88,052.5
1987	5,480.3	5,082.2	5,434.7	8,783.8	9,342.2	10,113.8	10,631.1	10,604.6	9,863.3	7,855.3	5,261.8	5,073.9	93,527.0
1988	4,829.4	6,212.4	7,506.2	7,389.7	9,816.0	10,517.9	11,305.6	10,921.9	9,955.2	9,018.3	6,386.9	6,489.8	100,349.3
1989	5,791.6	4,981.8	6,832.0	9,040.1	9,755.1	10,601.5	11,974.9	11,482.5	10,444.6	9,090.4	9,248.1	9,085.3	108,327.9
1990	6,711.3	5,741.5	7,852.4	7,907.2	9,371.1	10,122.6	11,512.1	11,152.4	10,778.1	10,946.2	9,019.1	8,774.1	109,888.1
1991	6,812.0	6,243.4	3,623.2	5,896.4	7,556.3	7,477.7	8,356.9	8,450.6	7,929.8	7,868.2	7,280.2	6,306.2	83,800.9
1992	5,251.7	4,282.8	4,345.3	6,830.5	8,458.2	9,073.3	9,547.3	10,646.2	10,018.7	8,627.7	7,512.0	5,410.6	90,004.3
1993	4,554.4	4,206.7	5,603.8	7,435.3	9,612.7	9,603.0	10,130.8	10,218.3	9,647.5	8,379.3	7,172.2	5,885.5	92,449.5
1994	6,031.3	3,978.7	5,253.6	6,454.8	6,916.1	9,666.5	10,227.7	10,968.8	9,298.6	8,498.9	6,830.5	6,337.4	90,462.9
1995	4,005.6	4,428.1	4,262.4	6,944.3	7,140.2	8,733.8	11,265.0	12,344.7	11,424.0	10,434.4	7,945.4	6,524.4	95,452.3
1996	6,515.8	4,867.4	5,849.5	8,161.2	11,694.7	12,611.8	12,683.9	13,188.1	12,548.0	11,042.1	7,688.7	6,091.4	112,942.6
1997	4,173.9	5,151.9	8,749.9	9,289.9	10,455.5	11,448.8	12,188.7	12,378.2	11,732.8	10,302.9	6,807.9	4,735.8	107,416.1
1998	4,785.0	3,737.6	4,987.8	5,540.8	7,225.5	9,761.6	11,582.3	11,938.7	10,524.8	9,559.0	8,142.6	7,194.3	94,980.0
1999	7,660.2	5,756.7	6,106.2	6,852.7	10,139.1	10,413.0	12,305.9	13,399.3	11,170.2	12,521.8	8,189.3	9,156.8	113,671.2
2000	7,486.4	4,893.0	6,454.7	9,463.0	11,239.5	12,848.7	13,513.9	14,068.9	11,838.3	10,156.7	9,216.0	8,949.8	120,128.9
2001	6,736.1	5,226.7	6,048.7	8,370.6	10,631.9	11,519.0	13,674.4	13,455.0	12,337.4	10,997.6	6,696.0	5,595.9	111,289.3
2002	6,452.0	7,683.7	9,847.0	9,700.8	11,725.6	13,145.3	13,559.8	13,549.6	13,788.2	10,986.3	8,121.3	6,269.6	124,829.2
2003	8,182.0	6,049.2	6,813.7	8,286.5	8,963.0	10,605.5	13,341.5	13,883.2	12,244.7	11,198.3	8,231.4	7,327.7	115,126.7
2004	7,109.9	6,597.2	8,245.7	10,597.2	14,566.0	12,540.7	13,721.3	14,587.5	13,321.8	9,238.5	7,603.8	7,547.7	125,677.3

Appendix D

2003 and 2004 CUWCC Reports

Reported as of 3/1

Water Supply & Reuse

Reporting Unit:
Calleguas Municipal Water District

Year:
2003

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
MWD/State Water Project	115126.1	Imported
Simi Valley/VCWW Dist.8 and Triunfo Sanitation District	1343.6	Recycled

Total AF: 116469.7

Purchaser Information

Name of Agency	Quantity (AF) Supplied	Retailer or Wholesaler
Brandeis Mutual Water Company	79.9	retail
Berylwood Heights Mutual Water Company	0	retail
Cal-American Water Company	18339.1	retail
City of Camarillo	4678.9	retail
Camrosa Water District	7955.7	retail
Capehart Navy Housing	185	retail
Crestview Mutual Water Company	258.3	retail
Lake Sherwoodk CSD	1065	retail
Mesa Water Company	0	retail
Newbury park Academy Water Company	140.7	retail
Oak Park Water Service	3184	retail
City of Oxnard	12857.6	retail
Pleasant Valley Mutual Water	193.6	retail
Port Hueneme Water Agency	65.5	retail
California Water Service	8761.4	retail
City of Simi Valley, VCWW Dist. 8	21959.8	retail
Southern California Water Company	7531.2	retail
City of Thousand Oaks	13429.9	retail
Ventura County Water Works Dist 1	11757	retail
Ventura County Water Works Dist. 19	2672.3	retail
Zone Mutual Water Company	0	retail
Butler Ranch	0	retail

Total AF: 115114.9

Reported as of 3/1

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2003**

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year?	yes
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:	
a. Determine metered sales (AF)	115466.7
b. Determine other system verifiable uses (AF)	0
c. Determine total supply into the system (AF)	119681.4
d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required.	0.96
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production?	yes
4. Did your agency complete a full-scale audit during this report year?	yes
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit?	yes
6. Does your agency operate a system leak detection program?	yes

a. If yes, describe the leak detection program:

The transmission system is continually audited by District operations and maintenance staff.

B. Survey Data

1. Total number of miles of distribution system line.	144
2. Number of miles of distribution system line surveyed.	0

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	150000	150000
2. Actual Expenditures	150000	

D. "At Least As Effective As"

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

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

E. Comments

Reported as of 3/1

BMP 07: Public Information Programs

Reporting Unit:
Calleguas Municipal Water District

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

The District promotes conservation programs through it's website, tours speaking engagements, and class presentations.

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

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	no	
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	10
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	yes	2
f. Special Events, Media Events	yes	10
g. Speaker's Bureau	yes	7
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	10000	5000
2. Actual Expenditures	2686.5	

C. "At Least As Effective As"

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

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

D. Comments

Reported as of 3/1

BMP 08: School Education Programs

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2003**

A. Implementation

1.Has your agency implemented a school information program to promote water conservation? yes

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

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	16	240	1
Grades 4th-6th	yes	5	125	0
Grades 7th-8th	yes	0	0	0
High School	yes	1	32	1

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

4. When did your Agency begin implementing this program? 6/3/1991

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	2300	2500
2. Actual Expenditures	7086	

C. "At Least As Effective As"

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

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

D. Comments

Calleguas Partners with MWD to implement education programs

Reported as of 3/1

BMP 10: Wholesale Agency Assistance Programs

Reporting Unit:
Calleguas Municipal Water District

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Financial Support by BMP

BMP	Financial Incentives Offered?	Budgeted Amount	Amount Awarded	BMP	Financial Incentives Offered?	Budgeted Amount	Amount Awarded
1	yes	7500	0	8	yes	2300	7086
2	yes	7500	0	9	yes	12000	0
3	No			10	No		
4	No			11	No		
5	yes	12000	0	12	No		
6	yes	5000	5000	13	No		
7	yes	10000	2686.5	14	yes	15000	48255

2. Technical Support

a. Has your agency conducted or funded workshops addressing CUWCC procedures for calculating program savings, costs and cost-effectiveness?	No
b. Has your agency conducted or funded workshops addressing retail agencies' BMP implementation reporting requirements?	yes
c. Has your agency conducted or funded workshops addressing:	
1) ULFT replacement	yes
2) Residential retrofits	yes
3) Commercial, industrial, and institutional surveys	yes
4) Residential and large turf irrigation	yes
5) Conservation-related rates and pricing	No

3. Staff Resources by BMP

BMP	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	BMP	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP
1	yes	1	8	yes	1
2	yes	1	9	yes	1
3	No		10	No	
4	No		11	No	
5	yes	1	12	No	
6	yes	1	13	No	
7	yes	1	14	yes	1

4. Regional Programs by BMP

BMP	Implementation/ Management Program?	BMP	Implementation/ Management Program?
1	yes	8	yes
2	yes	9	yes
3	yes	10	No
4	No	11	No
5	yes	12	No
6	yes	13	No
7	yes	14	yes

B. Wholesale Agency Assistance Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	75000	80000
2. Actual Expenditures	55951	

C. "At Least As Effective As"

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

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

D. Comments

Reported as of 3/1

BMP 11: Conservation Pricing

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2003**

A. Implementation

Rate Structure Data Volumetric Rates for Water Service by Customer Class

1. Residential

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	$73154766
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$675637.2

2. Commercial

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

3. Industrial

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

4. Institutional / Government

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

5. Irrigation

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

6. Other

a. Water Rate Structure

b. Sewer Rate Structure

c. Total Revenue from Volumetric Rates $

d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources $

B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

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

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

D. Comments

Revenues translates to Agriculture Groundwater Credits.

Reported as of 3/1

BMP 12: Conservation Coordinator

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2003**

A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? yes
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ?
4. Partner agency's name:
5. If your agency supplies the conservation coordinator:
   - a. What percent is this conservation coordinator's position? 50%
   - b. Coordinator's Name Steven Sabbe
   - c. Coordinator's Title Resource Specialist
   - d. Coordinator's Experience and Number of Years 5 years
   - e. Date Coordinator's position was created (mm/dd/yyyy) 6/3/1991
6. Number of conservation staff, including Conservation Coordinator. 1

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	40863.15	44509.71
2. Actual Expenditures	40863.15	

C. "At Least As Effective As"

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

D. Comments

50% of Resource Specialist position salary/benefits comes from conservation budget.

Reported as of 3/1

Water Supply & Reuse

Reporting Unit:
Calleguas Municipal Water District

Year:
2004

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
MWD/State Water Project	125677.1	Imported
City of Simi Valley/VCWW Dist. 8 and Triunfo Sanitation District	1555.4	Recycled

Total AF: 127232.5

Purchaser Information

Name of Agency	Quantity (AF) Supplied	Retailer or Wholesaler
Berylwood Heights Mutual Water Company	0	retail
Brandeis Mutual Water Company	88.7	retail
Cal-American Water Company	19818.7	retail
City of Camarillo	5649.4	retail
Camrosa Water District	9118.4	retail
Capehart Navy Housing	211.5	retail
Crestview Mutual Water Company	289.3	retail
Lake Sherwood CSV	1227.4	retail
Mesa Water Company	0	retail
Newbury Park Academy Water Co.	130.4	retail
Oak Park Water Service	3363.3	retail
City of Oxnard	13714.5	retail
Pleasant Valley Mut.Water Co	631.6	retail
California Water Service	9514.8	retail
City of Simi Valley VCWW District 8	23186.9	retail
Southern California Water Company	8239.2	retail
City of Thousand Oaks	14210.5	retail
Ventura County Water Works District 1	13167.6	retail
Ventura County Water Works District 19	3085.6	retail
Zone Mutual Water Company	0	retail
Butler Ranch	0	retail

Total AF: 125647.8

Reported as of 3/1

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2004**

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year?	yes
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:	
a. Determine metered sales (AF)	127232.5
b. Determine other system verifiable uses (AF)	0
c. Determine total supply into the system (AF)	127571.5
d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required.	1.00
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production?	yes
4. Did your agency complete a full-scale audit during this report year?	yes
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit?	yes
6. Does your agency operate a system leak detection program?	yes

a. If yes, describe the leak detection program:

The transmission system is continually audited by District operations and maintenance staff.

B. Survey Data

1. Total number of miles of distribution system line.	144
2. Number of miles of distribution system line surveyed.	144

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	150000	150000
2. Actual Expenditures	150000	

D. "At Least As Effective As"

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

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

E. Comments

Reported as of 3/1

BMP 07: Public Information Programs

Reporting Unit:
Calleguas Municipal Water District

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

The District promotes conservation programs through it's website, tours speaking engagements, and class presentations.

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

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	no	
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	17
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	yes	2
f. Special Events, Media Events	yes	1
g. Speaker's Bureau	yes	12
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	5000	7000
2. Actual Expenditures	41670	

C. "At Least As Effective As"

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

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

D. Comments

Reported as of 3/1

BMP 08: School Education Programs

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2004**

A. Implementation

1.Has your agency implemented a school information program to promote water conservation? yes

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

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	25	375	2
Grades 4th-6th	yes	6	150	4
Grades 7th-8th	yes	0	0	0
High School	yes	0	0	2

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

4. When did your Agency begin implementing this program? 6/3/1991

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	5000	7000
2. Actual Expenditures	7760	

C. "At Least As Effective As"

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

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

D. Comments

Calleguas Partners with MWD to implement education programs.

Reported as of 3/1

BMP 10: Wholesale Agency Assistance Programs

Reporting Unit:
Calleguas Municipal Water District

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Financial Support by BMP

BMP	Financial Incentives Offered?	Budgeted Amount	Amount Awarded	BMP	Financial Incentives Offered?	Budgeted Amount	Amount Awarded
1	yes	2500	0	8	yes	5000	7760
2	yes	2500	0	9	yes	0	0
3	No			10	No		
4	No			11	No		
5	yes	20000	0	12	No		
6	yes	20000	73500	13	No		
7	yes	5000	41670	14	yes	20000	33044.25

2. Technical Support

a. Has your agency conducted or funded workshops addressing CUWCC procedures for calculating program savings, costs and cost-effectiveness?	No
b. Has your agency conducted or funded workshops addressing retail agencies' BMP implementation reporting requirements?	yes
c. Has your agency conducted or funded workshops addressing:	
1) ULFT replacement	yes
2) Residential retrofits	yes
3) Commercial, industrial, and institutional surveys	yes
4) Residential and large turf irrigation	yes
5) Conservation-related rates and pricing	No

3. Staff Resources by BMP

BMP	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP	BMP	Qualified Staff Available for BMP?	No. FTE Staff Assigned to BMP
1	yes	1	8	yes	1
2	yes	1	9	yes	1
3	No		10	No	
4	No		11	No	
5	yes	1	12	No	
6	yes	1	13	No	
7	yes	1	14	yes	1

4. Regional Programs by BMP

BMP	Implementation/ Management Program?	BMP	Implementation/ Management Program?
1	yes	8	yes
2	yes	9	yes
3	yes	10	No
4	No	11	No
5	yes	12	No
6	yes	13	No
7	yes	14	yes

B. Wholesale Agency Assistance Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	82727	85000
2. Actual Expenditures	155974	

C. "At Least As Effective As"

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

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

D. Comments

Reported as of 3/1

BMP 11: Conservation Pricing

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2004**

A. Implementation

Rate Structure Data Volumetric Rates for Water Service by Customer Class

1. Residential

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	$80607443
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$1057207.73

2. Commercial

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

3. Industrial

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

4. Institutional / Government

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

5. Irrigation

a. Water Rate Structure	
b. Sewer Rate Structure	
c. Total Revenue from Volumetric Rates	$
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	$

6. Other

a. Water Rate Structure

b. Sewer Rate Structure

c. Total Revenue from Volumetric Rates $

d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources $

B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

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

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

D. Comments

Revenues translates to Agriculture Groundwater Credits.

Reported as of 3/1

BMP 12: Conservation Coordinator

Reporting Unit:	BMP Form Status:	Year:
Calleguas Municipal Water District	**100% Complete**	**2004**

A. Implementation

1. Does your Agency have a conservation coordinator?	yes
2. Is this a full-time position?	yes
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ?	no
4. Partner agency's name:	
5. If your agency supplies the conservation coordinator:	
a. What percent is this conservation coordinator's position?	50%
b. Coordinator's Name	Steven Sabbe
c. Coordinator's Title	Resource Specialist
d. Coordinator's Experience and Number of Years	6 years
e. Date Coordinator's position was created (mm/dd/yyyy)	6/3/1991
6. Number of conservation staff, including Conservation Coordinator.	1

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	44509.71	46735.17
2. Actual Expenditures	44509.71	

C. "At Least As Effective As"

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

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

D. Comments

50% of Resource Specialist position salary comes from conservation budget.

Appendix E

CMWD's Draft Resolution Adopting Water Shortage Contingency Procedures

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS
OF CALLEGUAS MUNICIPAL WATER DISTRICT
ADOPTING WATER SHORTAGE CONTINGENCY
PROCEDURES

WHEREAS, the Board of Directors Calleguas Municipal Water District (Calleguas) adopted an urban Water Management Plan (the Plan) in 1995 in accordance with the requirements of the California Urban Water Management Planning Act (Water Code Sections 10610 et seq; the Act); and the Plan was updated in accordance with applicable law and adopted by the Board in 2000; and further updated and adopted on October 5th, 2005; and

WHEREAS, the Act requires that the Plan include a course of action in the event of a water shortage; and

WHEREAS, the Plan describes actions Calleguas would follow to manage demand and, if necessary, allocate water in response to reductions in available water supplies; and

WHEREAS, Ordinance No. 12 authorizes the Board of Directors to pass through to member agencies of Calleguas any allocations or penalties for use exceeding allocations that Metropolitan Water District of Southern California may impose or that the Board of Directors might independently judge to be necessary.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF CALLEGUAS MUNICIPAL WATER DISTRICT RESOLVES AS FOLLOWS:

1. The water shortage contingency measures described in the Plan are hereby adopted; and

2. During periods of water shortage, Calleguas staff shall inform the Board monthly of water sales for the past month in comparison to the average sales over the last five years during the same month.

ADOPTED, SIGNED AND APPROVED on _____, _____.

_____
Ted Grandsen,
President of the Board of Directors

ATTEST:

_____
Donald G. Hauser
Secretary of the Board of Directors

STATE OF CALIFORNIA)
) ss
COUNTY OF VENTURA)

I, DONALD G. HAUSER, Secretary of the Board of Directors of Calleguas Municipal Water District, DO HEREBY CERTIFY that the foregoing Resolution was duly adopted by the Board of Directors of said District at an adjourned meeting of said Board held on the _____, 2005.

_____
Secretary of the Board of Directors

Appendix F

Public Hearing Information And Resolution to Adopt the 2005 UWMP

TED GRANDSEN, PRESIDENT
DIVISION 1

GAIL L. PRINGLE, DIRECTOR
DIVISION 4

JEFFREY A. BORENSTEIN, TREASURER
DIVISION 2

WILLIAM R. SEAVER, VICE PRESIDENT
DIVISION 5

DONALD G. HAUSER, SECRETARY
DIVISION 3

DONALD R. KENDALL, Ph.D., P.E.
GENERAL MANAGER

web site: http://www.calleguas.com

2100 OLSEN ROAD • THOUSAND OAKS, CALIFORNIA 91360-6800 805/526-9323 • FAX: 805/522-5730 • FAX: 805/526-3675

August 5, 2005

ALL INTERESTED PARTIES:

Draft 2005 Urban Water Management Plan

Calleguas Municipal Water District (Calleguas) hereby provides public notice that its Draft 2005 Urban Water Management Plan is now available for public review.

Urban Water Management Plan

Calleguas has prepared the Urban Water Management Plan (Plan) for submission to the California Department of Water Resources. The document was developed in response to Water Code Sections 10610 through 10657 of the Urban Water Management Planning Act (Act). These Plans which describe and evaluate reasonable, practical and efficient water supplies, uses, reclamation, and conservation activities, are to be filed with the California Department of Water Resources every five years in years ending in five or zero.

Public Review Period

The Act requires that prior to adopting the Plan, the urban water supplier shall make the plan available for public review. As such, Calleguas has made the Plan available for review at local libraries within Calleguas' service area and on the Calleguas web site at www.calleguas.com. Comments on the Plan are to be submitted by September 7th, 2005 to Cy Johnson, Development Programs Administrator, Calleguas MWD, 2100 Olsen Rd., Thousand Oaks, CA. 91360.

Public Hearing

A public hearing on this matter will be held during the Calleguas Board of Directors meeting September 7th, 2005 at 7:30 p.m. at 2100 Olsen Road in Thousand Oaks. This hearing will provide a final opportunity to submit written and/or verbal comments regarding the Plan.

Certificate of Publication

RECEIVED
AUG 17 2005
CALLEGUAS M.W.D.

Ad #891789

In Matter of Publication of:

Notice of Public Hearing

State of California)
))§
County of Ventura)

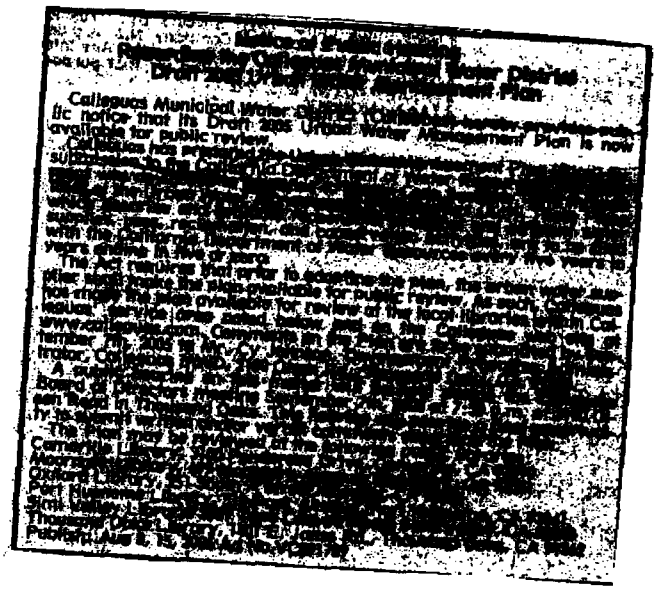
I, **Kim Lumsden**, hereby certify that the **Ventura County Star, Thousand Oaks Star, Oxnard Star, Simi Valley Star, Moorpark Star, Camarillo Star** has been adjudged a newspaper of general circulation by the Superior Court of California, County of Ventura within the provisions of the Government Code of the State of California, printed and published in the City of San Buenaventura, County of Ventura, State of California; that I am the a clerk of the printer of said paper; that the annexed clipping is a true printed copy and publishing in said newspaper on the following dates to wit:

Aug. 8, 15, 2005

I, Kim Lumsden certify under penalty of perjury, that the foregoing is true and correct.

Dated this Aug. 15, 2005, in San Buenaventura, California.

Kim Lumsden
(Signature)



Ted Grandsen
President - Division 1
William R. Seaver
Vice President - Division 5
Donald G. Hanser
Secretary - Division 3
Jeffrey A. Borenstein
Treasurer - Division 2
Gail L. Pringle
Director - Division 4
Donald R. Kendall, Ph.D., P.E.
General Manager

CALLEGUAS

2100 Olsen Road
Thousand Oaks
California 91360-6800
(805) 526-9323
Fax (805) 522-5730
Web site: www.calleguas.com

VOLUNTARY SIGN - IN SHEET

The signing, registering or completion of this sign-in sheet is voluntary, and you may attend this meeting regardless of whether you sign, register or otherwise complete the sign-in sheet. (Gov't Code §54953.3)

MEETING: Board of Directors and Public Hearing

DATE: September 7th, 2005 TIME: 7:30 p.m.

NAME (PLEASE PRINT)	REPRESENTING (PLEASE PRINT)	PHONE #
Vincent Harvey		
Bob Wolin	AFSCME	520-9351
Anthony Emmert	Oxnard	

RESOLUTION NO. 1486

RESOLUTION OF THE BOARD OF DIRECTORS
OF CALLEGUAS MUNICIPAL WATER DISTRICT
ADOPTING THE 2005 URBAN WATER MANAGEMENT PLAN
FOR CALLEGUAS MUNICIPAL WATER DISTRICT

WHEREAS, Calleguas Municipal Water District (Calleguas) has prepared the 2005 Urban Water Management Plan (Plan) for submission to the California Department of Water Resources in accordance with Water Code Sections 10610 through 10657 of the Urban Water Management Planning Act (Act); and

WHEREAS, the Plan, which describes and evaluates reasonable, practical and efficient water supplies, uses, reclamation, and conservation activities, is to be filed with the California Department of Water Resources every five years in years ending in five or zero; and

WHEREAS, Metropolitan Water District of Southern California and member purveyors of Calleguas have provided forecasts of water demand and local water supplies and have conferred on the preparation of the Plan; and

WHERERAS, as the Act requires that prior to adopting the Plan, the urban water supplier shall make the Plan available for public review and Calleguas has made the plan available for review at the local libraries within Calleguas' service area noted below and on the Calleguas web site and held a public hearing to receive public comments; and

WHEREAS, Calleguas considered the comments offered by member agencies and the public and where necessary or appropriate, revised the Plan to respect those comments, and

NOW, THEREFORE, THE BOARD OF DIRECTORS OF CALLEGUAS MUNICIPAL WATER DISTRICT RESOLVES AS FOLLOWS:

1. That the 2005 Urban Water Management Plan dated September 2005 is hereby adopted; and

2. The Plan shall be distributed to all member purveyors, public libraries, cities within the Calleguas service area, the County of Ventura and other concerned agencies within 30 days of the adoption of Resolution No. 1486.

ADOPTED, SIGNED AND APPROVED the fifth day of October, 2005.

Ted Grandsen,
President of the Board of Directors

ATTEST:

Donald G. Hauser
Secretary of the Board of Directors

I certify that this is a true and correct copy of the original Resolution No. 1486, adopted at a regular Board of Directors meeting held on October 5th, 2005.

Alida Inouye, Secretary

STATE OF CALIFORNIA)
) ss
COUNTY OF VENTURA)

I, DONALD G. HAUSER, Secretary of the Board of Directors of Calleguas Municipal Water District, DO HEREBY CERTIFY that the foregoing Resolution was duly adopted by the Board of Directors of said District at an adjourned meeting of said Board held on the fifth day of October, 2005.

Donald G. Hauser
Secretary of the Board of Directors