

APPENDIX A

Urban Water Management Planning Act

Appendix A

California Water Code

Urban Water Management Planning

California Water Code Division 6, Part 2.6.

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Chapter 1. General Declaration and Policy

SECTION 10610-10610.4

10610. This part shall be known and may be cited as the "Urban Water Management Planning Act."

10610.2. (a) The Legislature finds and declares all of the following:

- (1) The waters of the state are a limited and renewable resource subject to ever-increasing demands.
- (2) The conservation and efficient use of urban water supplies are of statewide concern; however, the planning for that use and the implementation of those plans can best be accomplished at the local level.
- (3) A long-term, reliable supply of water is essential to protect the productivity of California's businesses and economic climate.
- (4) As part of its long-range planning activities, every urban water supplier should make every effort to ensure the appropriate level of reliability in its water service sufficient to meet the needs of its various categories of customers during normal, dry, and multiple dry water years.
- (5) Public health issues have been raised over a number of contaminants that have been identified in certain local and imported water supplies.
- (6) Implementing effective water management strategies, including groundwater storage projects and recycled water projects, may require specific water

quality and salinity targets for meeting groundwater basins water quality objectives and promoting beneficial use of recycled water.

(7) Water quality regulations are becoming an increasingly important factor in water agencies' selection of raw water sources, treatment alternatives, and modifications to existing treatment facilities.

(8) Changes in drinking water quality standards may also impact the usefulness of water supplies and may ultimately impact supply reliability.

(9) The quality of source supplies can have a significant impact on water management strategies and supply reliability.

(b) This part is intended to provide assistance to water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies to meet existing and future demands for water.

10610.4. The Legislature finds and declares that it is the policy of the state as follows:

(a) The management of urban water demands and efficient use of water shall be actively pursued to protect both the people of the state and their water resources.

(b) The management of urban water demands and efficient use of urban water supplies shall be a guiding criterion in public decisions.

(c) Urban water suppliers shall be required to develop water management plans to actively pursue the efficient use of available supplies.

Chapter 2. Definitions

SECTION 10611-10617

10611. Unless the context otherwise requires, the definitions of this chapter govern the construction of this part.

10611.5. "Demand management" means those water conservation measures, programs, and incentives that prevent the waste of water and promote the reasonable and efficient use and reuse of available supplies.

10612. "Customer" means a purchaser of water from a water supplier who uses the water for municipal purposes, including residential, commercial, governmental, and industrial uses.

10613. "Efficient use" means those management measures that result in the most effective use of water so as to prevent its waste or unreasonable use or unreasonable method of use.

10614. "Person" means any individual, firm, association, organization, partnership, business, trust, corporation, company, public agency, or any agency of such an entity.
10615. "Plan" means an urban water management plan prepared pursuant to this part. A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. The components of the plan may vary according to an individual community or area's characteristics and its capabilities to efficiently use and conserve water. The plan shall address measures for residential, commercial, governmental, and industrial water demand management as set forth in Article 2 (commencing with Section 10630) of Chapter 3. In addition, a strategy and time schedule for implementation shall be included in the plan.
10616. "Public agency" means any board, commission, county, city and county, city, regional agency, district, or other public entity.
- 10616.5. "Recycled water" means the reclamation and reuse of wastewater for beneficial use.
10617. "Urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers. This part applies only to water supplied from public water systems subject to Chapter 4 (commencing with Section 116275) of Part 12 of Division 104 of the Health and Safety Code.

Chapter 3. Urban Water Management Plans

Article 1. General Provisions

SECTION 10620-10621

10620. (a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).
- (b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.
- (c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.
- (d) (1) An urban water supplier may satisfy the requirements of this part by participation in areawide, regional, watershed, or basinwide urban water management

planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.

- (2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.
 - (e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.
 - (f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.
10621. (a) Each urban water supplier shall update its plan at least once every five years on or before December 31, in years ending in five and zero, except as provided in subdivision (d).
- (b) Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days before the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.
 - (c) The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).
 - (d) Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.

Article 2. Contents of Plan

SECTION 10630-10634

10630. It is the intention of the Legislature, in enacting this part, to permit levels of water management planning commensurate with the numbers of customers served and the volume of water supplied.
10631. A plan shall be adopted in accordance with this chapter that shall do all of the following:
- (a) Describe the service area of the supplier, including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.

- (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:
- (1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.
 - (2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For basins that a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.
 - (3) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
 - (4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
- (c) (1) Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:
- (A) An average water year.
 - (B) A single-dry water year.
 - (C) Multiple-dry water years.
- (2) For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe

plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.

- (d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.
- (e) (1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors, including, but not necessarily limited to, all of the following uses:
 - (A) Single-family residential.
 - (B) Multifamily.
 - (C) Commercial.
 - (D) Industrial.
 - (E) Institutional and governmental.
 - (F) Landscape.
 - (G) Sales to other agencies.
 - (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.

Article 2.5. Water Service Reliability

SECTION 10635

10635. (a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.
- (b) The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.

- (c) Nothing in this article is intended to create a right or entitlement to water service or any specific level of water service.
- (d) Nothing in this article is intended to change existing law concerning an urban water supplier's obligation to provide water service to its existing customers or to any potential future customers.

Article 3. Adoption and Implementation of Plans

SECTION 10640-10645

- 10640. Every urban water supplier required to prepare a plan pursuant to this part shall prepare its plan pursuant to Article 2 (commencing with Section 10630). The supplier shall likewise periodically review the plan as required by Section 10621, and any amendments or changes required as a result of that review shall be adopted pursuant to this article.
- 10641. An urban water supplier required to prepare a plan may consult with, and obtain comments from, any public agency or state agency or any person who has special expertise with respect to water demand management methods and techniques.
- 10642. Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan. Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area.

After the hearing, the plan shall be adopted as prepared or as modified after the hearing.
- 10643. An urban water supplier shall implement its plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan.
- 10644. (a) (1) An urban water supplier shall submit to the department, the California State Library, and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. Copies of amendments or changes to the plans shall be submitted to the department, the California State Library, and any city or county within which the supplier provides water supplies within 30 days after adoption.

- (2) The plan, or amendments to the plan, submitted to the department pursuant to paragraph (1) shall be submitted electronically and shall include any standardized forms, tables, or displays specified by the department.
- (b) (1) Notwithstanding Section 10231.5 of the Government Code, the department shall prepare and submit to the Legislature, on or before December 31, in the years ending in six and one, a report summarizing the status of the plans adopted pursuant to this part.

The report prepared by the department shall identify the exemplary elements of the individual plans. The department shall provide a copy of the report to each urban water supplier that has submitted its plan to the department. The department shall also prepare reports and provide data for any legislative hearings designed to consider the effectiveness of plans submitted pursuant to this part.

- (2) A report to be submitted pursuant to paragraph (1) shall be submitted in compliance with Section 9795 of the Government Code.
- (c) (1) For the purpose of identifying the exemplary elements of the individual plans, the department shall identify in the report water demand management measures adopted and implemented by specific urban water suppliers, and identified pursuant to Section 10631, that achieve water savings significantly above the levels established by the department to meet the requirements of Section 10631.5.
- (2) The department shall distribute to the panel convened pursuant to Section 10631.7 the results achieved by the implementation of those water demand management measures described in paragraph (1).
- (3) The department shall make available to the public the standard the department will use to identify exemplary water demand management measures.

Chapter 4. Miscellaneous Provisions

SECTION 10650-10656

10650. Any actions or proceedings to attack, review, set aside, void, or annul the acts or decisions of an urban water supplier on the grounds of noncompliance with this part shall be commenced as follows:

- (a) An action or proceeding alleging failure to adopt a plan shall be commenced within 18 months after that adoption is required by this part.

- (b) Any action or proceeding alleging that a plan, or action taken pursuant to the plan, does not comply with this part shall be commenced within 90 days after filing of the plan or amendment thereto pursuant to Section 10644 or the taking of that action.
10651. In any action or proceeding to attack, review, set aside, void, or annul a plan, or an action taken pursuant to the plan by an urban water supplier on the grounds of noncompliance with this part, the inquiry shall extend only to whether there was a prejudicial abuse of discretion. Abuse of discretion is established if the supplier has not proceeded in a manner required by law or if the action by the water supplier is not supported by substantial evidence.
10652. The California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) does not apply to the preparation and adoption of plans pursuant to this part or to the implementation of actions taken pursuant to Section 10632. Nothing in this part shall be interpreted as exempting from the California Environmental Quality Act any project that would significantly affect water supplies for fish and wildlife, or any project for implementation of the plan, other than projects implementing Section 10632, or any project for expanded or additional water supplies.
10653. The adoption of a plan shall satisfy any requirements of state law, regulation, or order, including those of the State Water Resources Control Board and the Public Utilities Commission, for the preparation of water management plans or conservation plans; provided, that if the State Water Resources Control Board or the Public Utilities Commission requires additional information concerning water conservation to implement its existing authority, nothing in this part shall be deemed to limit the board or the commission in obtaining that information. The requirements of this part shall be satisfied by any urban water demand management plan prepared to meet federal laws or regulations after the effective date of this part, and which substantially meets the requirements of this part, or by any existing urban water management plan which includes the contents of a plan required under this part.
10654. An urban water supplier may recover in its rates the costs incurred in preparing its plan and implementing the reasonable water conservation measures included in the plan. Any best water management practice that is included in the plan that is identified in the "Memorandum of Understanding Regarding Urban Water Conservation in California" is deemed to be reasonable for the purposes of this section.
10655. If any provision of this part or the application thereof to any person or circumstances is held invalid, that invalidity shall not affect other provisions or applications of this part which can be given effect without the invalid provision or application thereof, and to this end the provisions of this part are severable.
10656. An urban water supplier that does not prepare, adopt, and submit its urban water management plan to the department in accordance with this part, is ineligible to receive funding pursuant to Division 24 (commencing with Section 78500) or Division 26

(commencing with Section 79000), or receive drought assistance from the state until the urban water management plan is submitted pursuant to this article.

APPENDIX B

Completed Plan Checklist

Checklist Arranged by Water Code Section

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location (Optional Column for Agency Use)
10608.20(b)	Retail suppliers shall adopt a 2020 water use target using one of four methods.	Baselines and Targets	Section 5.7 and App E	Section 5.7
10608.20(e)	Retail suppliers shall provide baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.	Baselines and Targets	Chapter 5 and App E	Chapter 5 Appendix G
10608.22	Retail suppliers' per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use of the 5 year baseline. This does not apply if the suppliers base GPCD is at or below 100.	Baselines and Targets	Section 5.7.2	Section 5.7.2
10608.24(a)	Retail suppliers shall meet their interim target by December 31, 2015.	Baselines and Targets	Section 5.8 and App E	Section 5.8
10608.24(d)(2)	If the retail supplier adjusts its compliance GPCD using weather normalization, economic adjustment, or extraordinary events, it shall provide the basis for, and data supporting the adjustment.	Baselines and Targets	Section 5.8.2	Section 5.8.2
10608.26(a)	Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets.	Plan Adoption, Submittal, and Implementation	Section 10.3	Section 10.3
10608.36	Wholesale suppliers shall include an assessment of present and proposed future measures, programs, and policies to help their retail water suppliers achieve targeted water use reductions.	Baselines and Targets	Section 5.1	Not Applicable
10608.40	Retail suppliers shall report on their progress in meeting their water use targets. The data shall be reported using a standardized form.	Baselines and Targets	Section 5.8 and App E	Section 5.8
10620(b)	Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.	Plan Preparation	Section 2.1	Section 2.1
10620(d)(2)	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	Plan Preparation	Section 2.5.2	Section 2.5.2

10620(f)	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	Water Supply Reliability Assessment	Section 7.4	Section 7.4
10621(b)	Notify, at least 60 days prior to the public hearing, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.	Plan Adoption, Submittal, and Implementation	Section 10.2.1	Section 10.2.1
10621(d)	Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.	Plan Adoption, Submittal, and Implementation	Sections 10.3.1 and 10.4	Sections 10.3.1 and 10.4
10631(a)	Describe the water supplier service area.	System Description	Section 3.1	Section 3.1
10631(a)	Describe the climate of the service area of the supplier.	System Description	Section 3.3	Section 3.3
10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Sections 3.4 and 5.4	Sections 3.4 and 5.4
10631(a)	Provide population projections for 2020, 2025, 2030, and 2035.	System Description	Section 3.4	Section 3.4
10631(a)	Describe other demographic factors affecting the supplier's water management planning.	System Description	Section 3.4	Section 3.4
10631(b)	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, 2030, and 2035.	System Supplies	Chapter 6	Chapter 6
10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Section 6.2	Section 6.2
10631(b)(1)	Indicate whether a groundwater management plan has been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	System Supplies	Section 6.2.2	Section 6.2.2
10631(b)(2)	Describe the groundwater basin.	System Supplies	Section 6.2.1	Section 6.2.1
10631(b)(2)	Indicate if the basin has been adjudicated and include a copy of the court order or decree and a description of the amount of water the supplier has the legal right to pump.	System Supplies	Section 6.2.2	Section 6.2.2
10631(b)(2)	For unadjudicated basins, indicate whether or not the department has identified the basin as overdrafted, or projected to become overdrafted. Describe efforts by the supplier to eliminate the long-term overdraft condition.	System Supplies	Section 6.2.3	Section 6.2.3
10631(b)(3)	Provide a detailed description and analysis of the location, amount, and sufficiency of	System Supplies	Section 6.2.4	Section 6.2.4

	groundwater pumped by the urban water supplier for the past five years			
10631(b)(4)	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	System Supplies	Sections 6.2 and 6.9	Sections 6.2 and 6.9
10631(c)(1)	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage.	Water Supply Reliability Assessment	Section 7.1	Section 7.1
10631(c)(1)	Provide data for an average water year, a single dry water year, and multiple dry water years	Water Supply Reliability Assessment	Section 7.2	Section 7.2
10631(c)(2)	For any water source that may not be available at a consistent level of use, describe plans to supplement or replace that source.	Water Supply Reliability Assessment	Section 7.1	Section 7.1
10631(d)	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System Supplies	Section 6.7	Section 6.7
10631(e)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Section 4.2	Section 4.2
10631(e)(3)(A)	Report the distribution system water loss for the most recent 12-month period available.	System Water Use	Section 4.3	Section 4.3
10631(f)(1)	Retail suppliers shall provide a description of the nature and extent of each demand management measure implemented over the past five years. The description will address specific measures listed in code.	Demand Management Measures	Sections 9.2 and 9.3	Sections 9.2 and 9.3
10631(f)(2)	Wholesale suppliers shall describe specific demand management measures listed in code, their distribution system asset management program, and supplier assistance program.	Demand Management Measures	Sections 9.1 and 9.3	Not Applicable
10631(g)	Describe the expected future water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years.	System Supplies	Section 6.8	Section 6.8
10631(h)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Section 6.6	Section 6.6
10631(i)	CUWCC members may submit their 2013-2014 CUWCC BMP annual reports in lieu of, or in addition to, describing the DMM implementation in their UWMPs. This option is only allowable if the supplier has been found to be in full compliance with the CUWCC MOU.	Demand Management Measures	Section 9.5	Section 9.5
10631(j)	Retail suppliers will include documentation that they have provided their wholesale supplier(s) – if any - with water use	System Supplies	Section 2.5.1	Section 2.5.1

	projections from that source.			
10631(j)	Wholesale suppliers will include documentation that they have provided their urban water suppliers with identification and quantification of the existing and planned sources of water available from the wholesale to the urban supplier during various water year types.	System Supplies	Section 2.5.1	Not Applicable
10631.1(a)	Include projected water use needed for lower income housing projected in the service area of the supplier.	System Water Use	Section 4.5	Section 4.5
10632(a) and 10632(a)(1)	Provide an urban water shortage contingency analysis that specifies stages of action and an outline of specific water supply conditions at each stage.	Water Shortage Contingency Planning	Section 8.1	Section 8.1
10632(a)(2)	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency.	Water Shortage Contingency Planning	Section 8.9	Section 8.9
10632(a)(3)	Identify actions to be undertaken by the urban water supplier in case of a catastrophic interruption of water supplies.	Water Shortage Contingency Planning	Section 8.8	Section 8.8
10632(a)(4)	Identify mandatory prohibitions against specific water use practices during water shortages.	Water Shortage Contingency Planning	Section 8.2	Section 8.2
10632(a)(5)	Specify consumption reduction methods in the most restrictive stages.	Water Shortage Contingency Planning	Section 8.4	Section 8.4
10632(a)(6)	Indicated penalties or charges for excessive use, where applicable.	Water Shortage Contingency Planning	Section 8.3	Section 8.3
10632(a)(7)	Provide an analysis of the impacts of each of the actions and conditions in the water shortage contingency analysis on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts.	Water Shortage Contingency Planning	Section 8.6	Section 8.6
10632(a)(8)	Provide a draft water shortage contingency resolution or ordinance.	Water Shortage Contingency Planning	Section 8.7	Section 8.7
10632(a)(9)	Indicate a mechanism for determining actual reductions in water use pursuant to the water shortage contingency analysis.	Water Shortage Contingency Planning	Section 8.5	Section 8.5
10633	For wastewater and recycled water, coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.1	Section 6.5.1
10633(a)	Describe the wastewater collection and treatment systems in the supplier's service area. Include quantification of the amount of	System Supplies (Recycled Water)	Section 6.5.2	Section 6.5.2

	wastewater collected and treated and the methods of wastewater disposal.			
10633(b)	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	System Supplies (Recycled Water)	Section 6.5.2.2	Section 6.5.2.2
10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.3 and 6.5.4	Section 6.5.3 and 6.5.4
10633(d)	Describe and quantify the potential uses of recycled water and provide a determination of the technical and economic feasibility of those uses.	System Supplies (Recycled Water)	Section 6.5.4	Section 6.5.4
10633(e)	Describe the projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected.	System Supplies (Recycled Water)	Section 6.5.4	Section 6.5.4
10633(f)	Describe the actions which may be taken to encourage the use of recycled water and the projected results of these actions in terms of acre-feet of recycled water used per year.	System Supplies (Recycled Water)	Section 6.5.5	Section 6.5.5
10633(g)	Provide a plan for optimizing the use of recycled water in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.5	Section 6.5.5
10634	Provide information on the quality of existing sources of water available to the supplier and the manner in which water quality affects water management strategies and supply reliability	Water Supply Reliability Assessment	Section 7.1	Section 7.1
10635(a)	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing the total water supply sources available to the water supplier with the total projected water use over the next 20 years.	Water Supply Reliability Assessment	Section 7.3	Section 7.3
10635(b)	Provide supporting documentation that Water Shortage Contingency Plan has been, or will be, provided to any city or county within which it provides water, no later than 60 days after the submission of the plan to DWR.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Section 10.4.4
10642	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	Plan Preparation	Section 2.5.2	Section 2.5.2
10642	Provide supporting documentation that the urban water supplier made the plan available for public inspection, published notice of the public hearing, and held a public hearing	Plan Adoption, Submittal, and Implementation	Sections 10.2.2, 10.3, and 10.5	Sections 10.2.2, 10.3, and 10.5

Appendix F **Checklist** Final

	about the plan.			
10642	The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water.	Plan Adoption, Submittal, and Implementation	Sections 10.2.1	Sections 10.2.1
10642	Provide supporting documentation that the plan has been adopted as prepared or modified.	Plan Adoption, Submittal, and Implementation	Section 10.3.1	Section 10.3.1
10644(a)	Provide supporting documentation that the urban water supplier has submitted this UWMP to the California State Library.	Plan Adoption, Submittal, and Implementation	Section 10.4.3	Section 10.4.3
10644(a)(1)	Provide supporting documentation that the urban water supplier has submitted this UWMP to any city or county within which the supplier provides water no later than 30 days after adoption.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Section 10.4.4
10644(a)(2)	The plan, or amendments to the plan, submitted to the department shall be submitted electronically.	Plan Adoption, Submittal, and Implementation	Sections 10.4.1 and 10.4.2	Sections 10.4.1 and 10.4.2
10645	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the supplier has or will make the plan available for public review during normal business hours.	Plan Adoption, Submittal, and Implementation	Section 10.5	Section 10.5

Checklist Arranged by Subject

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location <i>(Optional Column for Agency Use)</i>
10620(b)	Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.	Plan Preparation	Section 2.1	Section 2.1
10620(d)(2)	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	Plan Preparation	Section 2.5.2	Section 2.5.2
10642	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	Plan Preparation	Section 2.5.2	Section 2.5.2
10631(a)	Describe the water supplier service area.	System Description	Section 3.1	Section 3.1
10631(a)	Describe the climate of the service area of the supplier.	System Description	Section 3.3	Section 3.3
10631(a)	Provide population projections for 2020, 2025, 2030, and 2035.	System Description	Section 3.4	Section 3.4
10631(a)	Describe other demographic factors affecting the supplier's water management planning.	System Description	Section 3.4	Section 3.4
10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Sections 3.4 and 5.4	Sections 3.4 and 5.4
10631(e)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Section 4.2	Section 4.2
10631(e)(3)(A)	Report the distribution system water loss for the most recent 12-month period available.	System Water Use	Section 4.3	Section 4.3
10631.1(a)	Include projected water use needed for lower income housing projected in the service area of the supplier.	System Water Use	Section 4.5	Section 4.5
10608.20(b)	Retail suppliers shall adopt a 2020 water use target using one of four methods.	Baselines and Targets	Section 5.7 and App E	Section 5.7
10608.20(e)	Retail suppliers shall provide baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along	Baselines and Targets	Chapter 5 and App E	Chapter 5

Appendix F **Checklist** Final

	with the bases for determining those estimates, including references to supporting data.			
10608.22	Retail suppliers' per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use of the 5 year baseline. This does not apply if the suppliers base GPCD is at or below 100.	Baselines and Targets	Section 5.7.2	Section 5.7.2
10608.24(a)	Retail suppliers shall meet their interim target by December 31, 2015.	Baselines and Targets	Section 5.8 and App E	Section 5.8
10608.24(d)(2)	If the retail supplier adjusts its compliance GPCD using weather normalization, economic adjustment, or extraordinary events, it shall provide the basis for, and data supporting the adjustment.	Baselines and Targets	Section 5.8.2	Section 5.8.2
10608.36	Wholesale suppliers shall include an assessment of present and proposed future measures, programs, and policies to help their retail water suppliers achieve targeted water use reductions.	Baselines and Targets	Section 5.1	Not Applicable
10608.40	Retail suppliers shall report on their progress in meeting their water use targets. The data shall be reported using a standardized form.	Baselines and Targets	Section 5.8 and App E	Section 5.8
10631(b)	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, 2030, and 2035.	System Supplies	Chapter 6	Chapter 6
10631(b)	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Section 6.2	Section 6.2
10631(b)(1)	Indicate whether a groundwater management plan has been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	System Supplies	Section 6.2.2	Section 6.2.2
10631(b)(2)	Describe the groundwater basin.	System Supplies	Section 6.2.1	Section 6.2.1
10631(b)(2)	Indicate if the basin has been adjudicated and include a copy of the court order or decree and a description of the amount of water the supplier has the legal right to pump.	System Supplies	Section 6.2.2	Section 6.2.2
10631(b)(2)	For unadjudicated basins, indicate whether or not the department has identified the basin as overdrafted, or projected to become overdrafted. Describe efforts by the supplier to eliminate the long-term overdraft condition.	System Supplies	Section 6.2.3	Section 6.2.3
10631(b)(3)	Provide a detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years	System Supplies	Section 6.2.4	Section 6.2.4

Appendix F **Checklist** Final

10631(b)(4)	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	System Supplies	Sections 6.2 and 6.9	Sections 6.2 and 6.9
10631(d)	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System Supplies	Section 6.7	Section 6.7
10631(g)	Describe the expected future water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years.	System Supplies	Section 6.8	Section 6.8
10631(h)	Describe desalinated water project opportunities for long-term supply.	System Supplies	Section 6.6	Section 6.6
10631(j)	Retail suppliers will include documentation that they have provided their wholesale supplier(s) – if any - with water use projections from that source.	System Supplies	Section 2.5.1	Section 2.5.1
10631(j)	Wholesale suppliers will include documentation that they have provided their urban water suppliers with identification and quantification of the existing and planned sources of water available from the wholesale to the urban supplier during various water year types.	System Supplies	Section 2.5.1	Not Applicable
10633	For wastewater and recycled water, coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.1	Section 6.5.1
10633(a)	Describe the wastewater collection and treatment systems in the supplier's service area. Include quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.	System Supplies (Recycled Water)	Section 6.5.2	Section 6.5.2
10633(b)	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	System Supplies (Recycled Water)	Section 6.5.2.2	Section 6.5.2.2
10633(c)	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.3 and 6.5.4	Section 6.5.3 and 6.5.4
10633(d)	Describe and quantify the potential uses of recycled water and provide a determination of the technical and economic feasibility of those uses.	System Supplies (Recycled Water)	Section 6.5.4	Section 6.5.4
10633(e)	Describe the projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected.	System Supplies (Recycled Water)	Section 6.5.4	Section 6.5.4
10633(f)	Describe the actions which may be taken to	System Supplies	Section 6.5.5	Section 6.5.5

	encourage the use of recycled water and the projected results of these actions in terms of acre-feet of recycled water used per year.	(Recycled Water)		
10633(g)	Provide a plan for optimizing the use of recycled water in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.5	Section 6.5.5
10620(f)	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	Water Supply Reliability Assessment	Section 7.4	Section 7.4
10631(c)(1)	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage.	Water Supply Reliability Assessment	Section 7.1	Section 7.1
10631(c)(1)	Provide data for an average water year, a single dry water year, and multiple dry water years	Water Supply Reliability Assessment	Section 7.2	Section 7.2
10631(c)(2)	For any water source that may not be available at a consistent level of use, describe plans to supplement or replace that source.	Water Supply Reliability Assessment	Section 7.1	Section 7.1
10634	Provide information on the quality of existing sources of water available to the supplier and the manner in which water quality affects water management strategies and supply reliability	Water Supply Reliability Assessment	Section 7.1	Section 7.1
10635(a)	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing the total water supply sources available to the water supplier with the total projected water use over the next 20 years.	Water Supply Reliability Assessment	Section 7.3	Section 7.3
10632(a) and 10632(a)(1)	Provide an urban water shortage contingency analysis that specifies stages of action and an outline of specific water supply conditions at each stage.	Water Shortage Contingency Planning	Section 8.1	Section 8.1
10632(a)(2)	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency.	Water Shortage Contingency Planning	Section 8.9	Section 8.9
10632(a)(3)	Identify actions to be undertaken by the urban water supplier in case of a catastrophic interruption of water supplies.	Water Shortage Contingency Planning	Section 8.8	Section 8.8
10632(a)(4)	Identify mandatory prohibitions against specific water use practices during water shortages.	Water Shortage Contingency Planning	Section 8.2	Section 8.2
10632(a)(5)	Specify consumption reduction methods in the most restrictive stages.	Water Shortage Contingency Planning	Section 8.4	Section 8.4
10632(a)(6)	Indicated penalties or charges for excessive use, where applicable.	Water Shortage Contingency Planning	Section 8.3	Section 8.3

10632(a)(7)	Provide an analysis of the impacts of each of the actions and conditions in the water shortage contingency analysis on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts.	Water Shortage Contingency Planning	Section 8.6	Section 8.6
10632(a)(8)	Provide a draft water shortage contingency resolution or ordinance.	Water Shortage Contingency Planning	Section 8.7	Section 8.7
10632(a)(9)	Indicate a mechanism for determining actual reductions in water use pursuant to the water shortage contingency analysis.	Water Shortage Contingency Planning	Section 8.5	Section 8.5
10631(f)(1)	Retail suppliers shall provide a description of the nature and extent of each demand management measure implemented over the past five years. The description will address specific measures listed in code.	Demand Management Measures	Sections 9.2 and 9.3	Sections 9.2 and 9.3
10631(f)(2)	Wholesale suppliers shall describe specific demand management measures listed in code, their distribution system asset management program, and supplier assistance program.	Demand Management Measures	Sections 9.1 and 9.3	Not Applicable
10631(i)	CUWCC members may submit their 2013-2014 CUWCC BMP annual reports in lieu of, or in addition to, describing the DMM implementation in their UWMPs. This option is only allowable if the supplier has been found to be in full compliance with the CUWCC MOU.	Demand Management Measures	Section 9.5	Section 9.5
10608.26(a)	Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets.	Plan Adoption, Submittal, and Implementation	Section 10.3	Section 10.3
10621(b)	Notify, at least 60 days prior to the public hearing, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.	Plan Adoption, Submittal, and Implementation	Section 10.2.1	Section 10.2.1
10621(d)	Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.	Plan Adoption, Submittal, and Implementation	Sections 10.3.1 and 10.4	Sections 10.3.1 and 10.4
10635(b)	Provide supporting documentation that Water Shortage Contingency Plan has been, or will be, provided to any city or county within which it provides water, no later than 60 days after the submission of the plan to DWR.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Section 10.4.4
10642	Provide supporting documentation that the urban water supplier made the plan available for public inspection, published notice of the public hearing, and held a public hearing	Plan Adoption, Submittal, and Implementation	Sections 10.2.2, 10.3, and 10.5	Sections 10.2.2, 10.3, and 10.5

Appendix F **Checklist** Final

	about the plan.			
10642	The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water.	Plan Adoption, Submittal, and Implementation	Sections 10.2.1	Sections 10.2.1
10642	Provide supporting documentation that the plan has been adopted as prepared or modified.	Plan Adoption, Submittal, and Implementation	Section 10.3.1	Section 10.3.1
10644(a)	Provide supporting documentation that the urban water supplier has submitted this UWMP to the California State Library.	Plan Adoption, Submittal, and Implementation	Section 10.4.3	Section 10.4.3
10644(a)(1)	Provide supporting documentation that the urban water supplier has submitted this UWMP to any city or county within which the supplier provides water no later than 30 days after adoption.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Section 10.4.4
10644(a)(2)	The plan, or amendments to the plan, submitted to the department shall be submitted electronically.	Plan Adoption, Submittal, and Implementation	Sections 10.4.1 and 10.4.2	Sections 10.4.1 and 10.4.2
10645	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the supplier has or will make the plan available for public review during normal business hours.	Plan Adoption, Submittal, and Implementation	Section 10.5	Section 10.5

APPENDIX C

Wholesale and Retail Coordination



Board of Directors

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Randy A. Record

Vice President

David J. Slawson

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Philip E. Paule
Ronald W. Sullivan

General Manager

Paul D. Jones II, P.E.

Treasurer

Joseph J. Kuebler, CPA

***Chairman of the Board,
The Metropolitan Water
District of So. Calif.***

Randy A. Record

Legal Counsel

Lemieux & O'Neill

February 4, 2016

sent via email: DMudrovich@sanjacintoca.us

City of San Jacinto
Dan Mudrovich
270 Bissell Street
San Jacinto, CA 92583

Subject: Notification of Urban Water Management Plan Update

Dear Dan Mudrovich,

Eastern Municipal Water District (EMWD) is currently preparing an update to the EMWD's 2010 Urban Water Management Plan (UWMP), which evaluates EMWD's water supplies and water use efficiency over a long term planning horizon. An UWMP is required to be prepared by every urban water supplier as defined in the California Water Code, and must be updated every five years for calendar years ending in "0" or "5". The 2015 update is due to the California Department of Water Resources on July 1, 2016.

Prior to adoption of the 2015 UWMP, EMWD will be holding a public hearing to review the updated plan and to accept comments. EMWD will provide further notice once this hearing has been scheduled. A draft of the plan will be made available for review once it has been completed, and a final UWMP will be available to the public after it has been adopted by EMWD's Board of Directors.

Should you have any questions regarding the 2015 UWMP update process, please contact me by phone at (951) 928-3777 extension 4307, or via email at lovstede@emwd.org.

Sincerely,

Elizabeth Lovsted, P.E.
Senior Civil Engineer

EL:gn



Board of Directors

President

Randy A. Record

Vice President

David J. Slawson

Directors

Joseph J. Kuebler, CPA

Philip E. Paule

Ronald W. Sullivan

General Manager

Paul D. Jones II, P.E.

Treasurer

Joseph J. Kuebler, CPA

***Chairman of the Board,
The Metropolitan Water
District of So. Calif.***

Randy A. Record

Legal Counsel

Lemieux & O'Neill

January 22, 2016

City of San Jacinto
595 S. San Jacinto Ave
San Jacinto, CA 92583

Subject: 2015 Urban Water Management Plan Update

To Dan Mudrovich and Mike Emberton:

The Eastern Municipal Water District (EMWD), a wholesale supplier to the City of San Jacinto (City), has received the City's notification of its 2015 Urban Water Management Plan Update. Pursuant to the Urban Water Management Planning Act, please provide EMWD with the City's water use projections in five-year increments to 20 years once the data is available. Likewise, EMWD will be providing the City with projections of its water supplies available over the same five-year increments.

Sincerely,

Elizabeth Lovsted
Senior Civil Engineer

EL:gn



MEMORANDUM

TO: Elizabeth Lovsted, Eastern Municipal Water District

FROM: Dan Mudrovich, City of San Jacinto

SUBJECT: 2015 Urban Water Management Plan Update

DATE: March 1, 2016

As an urban water supplier that rely upon a wholesale agency for a source of water, the City is required pursuant to Section 10631(j) of the Urban Water Management Plan (UWMP) Act to provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. Attached is the City's water use projection of treated imported water from EMWD in five-year increments to 2040.

In addition, Section 10631(j) requires the wholesale agency to provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent possible, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c). Please provide the data to the City once available.

**City of San Jacinto's
Projected Water Use on Treated Imported Water from EMWD
(acre-feet)**

Year	Normal Year (2008)	Single Dry Year (2009)	Multi-Dry Year		
			Year 1 (2011)	Year 2 (2012)	Year 3 (2013)
2020	0	0	0	0	0
2025	0	0	0	0	0
2030	0	0	0	0	0
2035	0	0	0	0	0
2040	0	0	0	0	0

APPENDIX D

Notification Memo of Preparation of Plan



MEMORANDUM

TO: City of San Jacinto City Clerk

FROM: City of San Jacinto

SUBJECT: 2015 Urban Water Management Plan Update

DATE: January 7, 2016

The Urban Water Management Planning Act requires every “urban water supplier¹” to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. Pursuant to Section 10621(d) of the UWMP Act, each urban water supplier shall update and submit its 2015 UWMP by July 1, 2016 to the California Department of Water Resources. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. City of San Jacinto (City) is currently in the process of preparing the 2015 UWMP Update.

As an urban water supplier, City is required pursuant to Section 10620(d)(2) of the UWMP Act to coordinate with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP. City will be reviewing the UWMP and will make amendments and changes, as appropriate. City invites you to submit comments in anticipation of the development of our 2015 UWMP Update.

Please provide written comments within the next 15 business days to City.

¹Section 10617 of the Urban Water Management Planning Act states, “*Urban Water Supplier*” means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.



MEMORANDUM

TO: County of Riverside
FROM: City of San Jacinto
SUBJECT: 2015 Urban Water Management Plan Update
DATE: January 7, 2016

The Urban Water Management Planning Act requires every “urban water supplier¹” to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. Pursuant to Section 10621(d) of the UWMP Act, each urban water supplier shall update and submit its 2015 UWMP by July 1, 2016 to the California Department of Water Resources. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. City of San Jacinto (City) is currently in the process of preparing the 2015 UWMP Update.

As an urban water supplier, City is required pursuant to Section 10620(d)(2) of the UWMP Act to coordinate with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP. City will be reviewing the UWMP and will make amendments and changes, as appropriate. City invites you to submit comments in anticipation of the development of our 2015 UWMP Update.

Please provide written comments within the next 15 business days to City.

¹Section 10617 of the Urban Water Management Planning Act states, “Urban Water Supplier” means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.



MEMORANDUM

TO: Eastern Municipal Water District

FROM: City of San Jacinto

SUBJECT: 2015 Urban Water Management Plan Update

DATE: January 7, 2016

The Urban Water Management Planning Act requires every “urban water supplier¹” to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. Pursuant to Section 10621(d) of the UWMP Act, each urban water supplier shall update and submit its 2015 UWMP by July 1, 2016 to the California Department of Water Resources. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. City of San Jacinto (City) is currently in the process of preparing the 2015 UWMP Update.

As an urban water supplier, City is required pursuant to Section 10620(d)(2) of the UWMP Act to coordinate with water management agencies, relevant public agencies and other water suppliers on the preparation of the UWMP. City will be reviewing the UWMP and will make amendments and changes, as appropriate. City invites you to submit comments in anticipation of the development of our 2015 UWMP Update.

Please provide written comments within the next 15 business days to City.

¹Section 10617 of the Urban Water Management Planning Act states, “*Urban Water Supplier*” means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.

APPENDIX E

AWWA Water Loss Audit Calculation

AWWA Free Water Audit Software v5.0

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This spreadsheet-based water audit tool is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. It provides a "top-down" summary water audit format, and is not meant to take the place of a full-scale, comprehensive water audit format.

Auditors are strongly encouraged to refer to the most current edition of AWWA M36 Manual for Water Audits for detailed guidance on the water auditing process and targetting loss reduction levels

The spreadsheet contains several separate worksheets. Sheets can be accessed using the tabs towards the bottom of the screen, or by clicking the buttons below.

Please begin by providing the following information

Name of Contact Person:

Email Address:

Telephone | Ext.:

Name of City / Utility:

City/Town/Municipality:

State / Province:

Country:

Year: Calendar Year

Audit Preparation Date:

Volume Reporting Units:

PWSID / Other ID:

The following guidance will help you complete the Audit

All audit data are entered on the [Reporting Worksheet](#)

- Value can be entered by user
- Value calculated based on input data
- These cells contain recommended default values

Use of Option (Radio) Buttons: Pcnt: Value:

Select the default percentage by choosing the option button on the left

To enter a value, choose this button and enter a value in the cell to the right

The following worksheets are available by clicking the buttons below or selecting the tabs along the bottom of the page

<p><u>Instructions</u></p> <p>The current sheet. Enter contact information and basic audit details (year, units etc)</p>	<p><u>Reporting Worksheet</u></p> <p>Enter the required data on this worksheet to calculate the water balance and data grading</p>	<p><u>Comments</u></p> <p>Enter comments to explain how values were calculated or to document data sources</p>	<p><u>Performance Indicators</u></p> <p>Review the performance indicators to evaluate the results of the audit</p>	<p><u>Water Balance</u></p> <p>The values entered in the Reporting Worksheet are used to populate the Water Balance</p>	<p><u>Dashboard</u></p> <p>A graphical summary of the water balance and Non-Revenue Water components</p>
<p><u>Grading Matrix</u></p> <p>Presents the possible grading options for each input component of the audit</p>	<p><u>Service Connection Diagram</u></p> <p>Diagrams depicting possible customer service connection line configurations</p>	<p><u>Definitions</u></p> <p>Use this sheet to understand the terms used in the audit process</p>	<p><u>Loss Control Planning</u></p> <p>Use this sheet to interpret the results of the audit validity score and performance indicators</p>	<p><u>Example Audits</u></p> <p>Reporting Worksheet and Performance Indicators examples are shown for two validated audits</p>	<p><u>Acknowledgements</u></p> <p>Acknowledgements for the AWWA Free Water Audit Software v5.0</p>

If you have questions or comments regarding the software please contact us via email at: wlc@awwa.org



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association

? Click to access definition
+ Click to add a comment

Water Audit Report for: City of San Jacinto (3310032)
Reporting Year: 2015 1/2015 - 12/2015

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: ACRE-FEET PER YEAR

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

WATER SUPPLIED

<----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+ ?	8	2,270.000	acre-ft/yr
Water imported:	+ ?	n/a	0.000	acre-ft/yr
Water exported:	+ ?	n/a	0.000	acre-ft/yr

Master Meter and Supply Error Adjustments

Pcmt:	n/a	Value:		acre-ft/yr
				acre-ft/yr
				acre-ft/yr

Enter negative % or value for under-registration
Enter positive % or value for over-registration

WATER SUPPLIED: 2,270.000 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	6	2,268.000	acre-ft/yr
Billed unmetered:	+ ?	5	0.000	acre-ft/yr
Unbilled metered:	+ ?	5	0.000	acre-ft/yr
Unbilled unmetered:	+ ?	1	0.000	acre-ft/yr

AUTHORIZED CONSUMPTION: 2,268.000 acre-ft/yr

Click here: ? for help using option buttons below

Pcmt: Value: acre-ft/yr

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

2.000 acre-ft/yr

Apparent Losses

Unauthorized consumption:	+ ?	1	0.000	acre-ft/yr
Customer metering inaccuracies:	+ ?	5	0.000	acre-ft/yr
Systematic data handling errors:	+ ?	1	1.000	acre-ft/yr

Apparent Losses: 1.000 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 1.000 acre-ft/yr

WATER LOSSES: 2.000 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 2.000 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	+ ?	8	125.0	miles
Number of <u>active AND inactive</u> service connections:	+ ?	8	4,200	
Service connection density:	?		34	conn./mile main

Are customer meters typically located at the curbside or property line?

Average length of customer service line: + ? (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: + ? 6 65.0 psi

COST DATA

Total annual cost of operating water system:	+ ?	6	\$3,312,000	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?	6	\$2.12	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+ ?	6	\$518.00	\$/acre-ft <input type="checkbox"/> Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 61 out of 100 ***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

- 1: Volume from own sources
- 2: Unauthorized consumption
- 3: Systematic data handling errors

APPENDIX F

Water Conservation Bill of 2009

Appendix B

California Water Code

Sustainable Water Use and Demand Reduction

California Water Code Division 6, Part 2.55.

- Chapter 1. General Declarations and Policy §10608-10608.8
- Chapter 2. Definitions §10608.12
- Chapter 3. Urban Retail Water Suppliers §10608.16-10608.44
- Chapter 4. Agricultural Water Suppliers §10608.48
- Chapter 5. Sustainable Water Management §10608.50
- Chapter 6 Standardized Data Collection §10608.52
- Chapter 7 Funding Provisions §10608.56-10608.60
- Chapter 8 Quantifying Agricultural Water Use Efficiency §10608.64

Chapter 1. General Declarations and Policy

SECTION 10608-10608.8

10608. The Legislature finds and declares all of the following:

- (a) Water is a public resource that the California Constitution protects against waste and unreasonable use.
- (b) Growing population, climate change, and the need to protect and grow California's economy while protecting and restoring our fish and wildlife habitats make it essential that the state manage its water resources as efficiently as possible.
- (c) Diverse regional water supply portfolios will increase water supply reliability and reduce dependence on the Delta.
- (d) Reduced water use through conservation provides significant energy and environmental benefits, and can help protect water quality, improve streamflows, and reduce greenhouse gas emissions.
- (e) The success of state and local water conservation programs to increase efficiency of water use is best determined on the basis of measurable outcomes related to water use or efficiency.
- (f) Improvements in technology and management practices offer the potential for increasing water efficiency in California over time, providing an essential water management tool to meet the need for water for urban, agricultural, and environmental uses.
- (g) The Governor has called for a 20 percent per capita reduction in urban water use statewide by 2020.

- (h) The factors used to formulate water use efficiency targets can vary significantly from location to location based on factors including weather, patterns of urban and suburban development, and past efforts to enhance water use efficiency.
- (i) Per capita water use is a valid measure of a water provider's efforts to reduce urban water use within its service area. However, per capita water use is less useful for measuring relative water use efficiency between different water providers. Differences in weather, historical patterns of urban and suburban development, and density of housing in a particular location need to be considered when assessing per capita water use as a measure of efficiency.

10608.4. It is the intent of the Legislature, by the enactment of this part, to do all of the following:

- (a) Require all water suppliers to increase the efficiency of use of this essential resource.
- (b) Establish a framework to meet the state targets for urban water conservation identified in this part and called for by the Governor.
- (c) Measure increased efficiency of urban water use on a per capita basis.
- (d) Establish a method or methods for urban retail water suppliers to determine targets for achieving increased water use efficiency by the year 2020, in accordance with the Governor's goal of a 20-percent reduction.
- (e) Establish consistent water use efficiency planning and implementation standards for urban water suppliers and agricultural water suppliers.
- (f) Promote urban water conservation standards that are consistent with the California Urban Water Conservation Council's adopted best management practices and the requirements for demand management in Section 10631.
- (g) Establish standards that recognize and provide credit to water suppliers that made substantial capital investments in urban water conservation since the drought of the early 1990s.
- (h) Recognize and account for the investment of urban retail water suppliers in providing recycled water for beneficial uses.
- (i) Require implementation of specified efficient water management practices for agricultural water suppliers.
- (j) Support the economic productivity of California's agricultural, commercial, and industrial sectors.
- (k) Advance regional water resources management.

10608.8. (a) (1) Water use efficiency measures adopted and implemented pursuant to this part or Part 2.8 (commencing with Section 10800) are water conservation measures subject to the protections provided under Section 1011.

- (2) Because an urban agency is not required to meet its urban water use target until 2020 pursuant to subdivision (b) of Section 10608.24, an urban retail water supplier's failure to meet those targets shall not establish a violation of law for purposes of any state administrative or judicial proceeding prior to January 1, 2021. Nothing in this paragraph limits the use of data reported to the department or the board in litigation or an administrative proceeding. This paragraph shall become inoperative on January 1, 2021.
- (3) To the extent feasible, the department and the board shall provide for the use of water conservation reports required under this part to meet the requirements of Section 1011 for water conservation reporting.
- (b) This part does not limit or otherwise affect the application of Chapter 3.5 (commencing with Section 11340), Chapter 4 (commencing with Section 11370), Chapter 4.5 (commencing with Section 11400), and Chapter 5 (commencing with Section 11500) of Part 1 of Division 3 of Title 2 of the Government Code.
- (c) This part does not require a reduction in the total water used in the agricultural or urban sectors, because other factors, including, but not limited to, changes in agricultural economics or population growth may have greater effects on water use. This part does not limit the economic productivity of California's agricultural, commercial, or industrial sectors.
- (d) The requirements of this part do not apply to an agricultural water supplier that is a party to the Quantification Settlement Agreement, as defined in subdivision (a) of Section 1 of Chapter 617 of the Statutes of 2002, during the period within which the Quantification Settlement Agreement remains in effect. After the expiration of the Quantification Settlement Agreement, to the extent conservation water projects implemented as part of the Quantification Settlement Agreement remain in effect, the conserved water created as part of those projects shall be credited against the obligations of the agricultural water supplier pursuant to this part.

Chapter 2 Definitions

SECTION 10608.12

10608.12. Unless the context otherwise requires, the following definitions govern the construction of this part:

- (a) "Agricultural water supplier" means a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding recycled water. "Agricultural water supplier" includes a supplier or contractor for water, regardless of the basis of right, that distributes or sells water for ultimate resale to customers. "Agricultural water supplier" does not include the department.
- (b) "Base daily per capita water use" means any of the following:

- (1) The urban retail water supplier's estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous 10-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.
 - (2) For an urban retail water supplier that meets at least 10 percent of its 2008 measured retail water demand through recycled water that is delivered within the service area of an urban retailwater supplier or its urban wholesale water supplier, the urban retail water supplier may extend the calculation described in paragraph (1) up to an additional five years to a maximum of a continuous 15-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.
 - (3) For the purposes of Section 10608.22, the urban retail water supplier's estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous five-year period ending no earlier than December 31, 2007, and no later than December 31, 2010.
- (c) "Baseline commercial, industrial, and institutional water use" means an urban retail water supplier's base daily per capita water use for commercial, industrial, and institutional users.
- (d) "Commercial water user" means a water user that provides or distributes a product or service.
- (e) "Compliance daily per capita water use" means the gross water use during the final year of the reporting period, reported in gallons per capita per day.
- (f) "Disadvantaged community" means a community with an annual median household income that is less than 80 percent of the statewide annual median household income.
- (g) "Gross water use" means the total volume of water, whether treated or untreated, entering the distribution system of an urban retail water supplier, excluding all of the following:
- (1) Recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier.
 - (2) The net volume of water that the urban retail water supplier places into long-term storage.
 - (3) The volume of water the urban retail water supplier conveys for use by another urban water supplier.
 - (4) The volume of water delivered for agricultural use, except as otherwise provided in subdivision (f) of Section 10608.24.
- (h) "Industrial water user" means a water user that is primarily a manufacturer or processor of materials as defined by the North American Industry Classification

System code sectors 31 to 33, inclusive, or an entity that is a water user primarily engaged in research and development.

- (i) "Institutional water user" means a water user dedicated to public service. This type of user includes, among other users, higher education institutions, schools, courts, churches, hospitals, government facilities, and nonprofit research institutions.
- (j) "Interim urban water use target" means the midpoint between the urban retail water supplier's base daily per capita water use and the urban retail water supplier's urban water use target for 2020.
- (k) "Locally cost effective" means that the present value of the local benefits of implementing an agricultural efficiency water management practice is greater than or equal to the present value of the local cost of implementing that measure.
- (l) "Process water" means water used for producing a product or product content or water used for research and development, including, but not limited to, continuous manufacturing processes, water used for testing and maintaining equipment used in producing a product or product content, and water used in combined heat and power facilities used in producing a product or product content. Process water does not mean incidental water uses not related to the production of a product or product content, including, but not limited to, water used for restrooms, landscaping, air conditioning, heating, kitchens, and laundry.
- (m) "Recycled water" means recycled water, as defined in subdivision (n) of Section 13050, that is used to offset potable demand, including recycled water supplied for direct use and indirect potable reuse, that meets the following requirements, where applicable:
 - (1) For groundwater recharge, including recharge through spreading basins, water supplies that are all of the following:
 - (A) Metered.
 - (B) Developed through planned investment by the urban water supplier or a wastewater treatment agency.
 - (C) Treated to a minimum tertiary level.
 - (D) Delivered within the service area of an urban retail water supplier or its urban wholesale water supplier that helps an urban retail water supplier meet its urban water use target.
 - (2) For reservoir augmentation, water supplies that meet the criteria of paragraph (1) and are conveyed through a distribution system constructed specifically for recycled water.

- (n) "Regional water resources management" means sources of supply resulting from watershed-based planning for sustainable local water reliability or any of the following alternative sources of water:
 - (1) The capture and reuse of stormwater or rainwater.
 - (2) The use of recycled water.
 - (3) The desalination of brackish groundwater.
 - (4) The conjunctive use of surface water and groundwater in a manner that is consistent with the safe yield of the groundwater basin.
- (o) "Reporting period" means the years for which an urban retail water supplier reports compliance with the urban water use targets.
- (p) "Urban retail water supplier" means a water supplier, either publicly or privately owned, that directly provides potable municipal water to more than 3,000 end users or that supplies more than 3,000 acre-feet of potable water annually at retail for municipal purposes.
- (q) "Urban water use target" means the urban retail water supplier's targeted future daily per capita water use.
- (r) "Urban wholesale water supplier," means a water supplier, either publicly or privately owned, that provides more than 3,000 acre-feet of water annually at wholesale for potable municipal purposes.

Chapter 3 Urban Retail Water Suppliers

SECTION 10608.16-10608.44

- 10608.16. (a) The state shall achieve a 20-percent reduction in urban per capita water use in California on or before December 31, 2020.
 - (b) The state shall make incremental progress towards the state target specified in subdivision (a) by reducing urban per capita water use by at least 10 percent on or before December 31, 2015.
- 10608.20. (a) (1) Each urban retail water supplier shall develop urban water use targets and an interim urban water use target by July 1, 2011. Urban retail water suppliers may elect to determine and report progress toward achieving these targets on an individual or regional basis, as provided in subdivision (a) of Section 10608.28, and may determine the targets on a fiscal year or calendar year basis.
 - (2) It is the intent of the Legislature that the urban water use targets described in paragraph (1) cumulatively result in a 20-percent reduction from the baseline daily per capita water use by December 31, 2020.

- (b) An urban retail water supplier shall adopt one of the following methods for determining its urban water use target pursuant to subdivision (a):
- (1) Eighty percent of the urban retail water supplier's baseline per capita daily water use.
 - (2) The per capita daily water use that is estimated using the sum of the following performance standards:
 - (A) For indoor residential water use, 55 gallons per capita daily water use as a provisional standard. Upon completion of the department's 2016 report to the Legislature pursuant to Section 10608.42, this standard may be adjusted by the Legislature by statute.
 - (B) For landscape irrigated through dedicated or residential meters or connections, water efficiency equivalent to the standards of the Model Water Efficient Landscape Ordinance set forth in Chapter 2.7 (commencing with Section 490) of Division 2 of Title 23 of the California Code of Regulations, as in effect the later of the year of the landscape's installation or 1992. An urban retail water supplier using the approach specified in this subparagraph shall use satellite imagery, site visits, or other best available technology to develop an accurate estimate of landscaped areas.
 - (C) For commercial, industrial, and institutional uses, a 10-percent reduction in water use from the baseline commercial, industrial, and institutional water use by 2020.
 - (3) Ninety-five percent of the applicable state hydrologic region target, as set forth in the state's draft 20x2020 Water Conservation Plan (dated April 30, 2009). If the service area of an urban water supplier includes more than one hydrologic region, the supplier shall apportion its service area to each region based on population or area.
 - (4) A method that shall be identified and developed by the department, through a public process, and reported to the Legislature no later than December 31, 2010. The method developed by the department shall identify per capita targets that cumulatively result in a statewide 20-percent reduction in urban daily per capita water use by December 31, 2020. In developing urban daily per capita water use targets, the department shall do all of the following:
 - (A) Consider climatic differences within the state.
 - (B) Consider population density differences within the state.
 - (C) Provide flexibility to communities and regions in meeting the targets.
 - (D) Consider different levels of per capita water use according to plant water needs in different regions.

- (E) Consider different levels of commercial, industrial, and institutional water use in different regions of the state.
 - (F) Avoid placing an undue hardship on communities that have implemented conservation measures or taken actions to keep per capita water use low.
- (c) If the department adopts a regulation pursuant to paragraph (4) of subdivision (b) that results in a requirement that an urban retail water supplier achieve a reduction in daily per capita water use that is greater than 20 percent by December 31, 2020, an urban retail water supplier that adopted the method described in paragraph (4) of subdivision (b) may limit its urban water use target to a reduction of not more than 20 percent by December 31, 2020, by adopting the method described in paragraph (1) of subdivision (b).
 - (d) The department shall update the method described in paragraph (4) of subdivision (b) and report to the Legislature by December 31, 2014. An urban retail water supplier that adopted the method described in paragraph (4) of subdivision (b) may adopt a new urban daily per capita water use target pursuant to this updated method.
 - (e) An urban retail water supplier shall include in its urban water management plan due in 2010 pursuant to Part 2.6 (commencing with Section 10610) the baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.
 - (f) When calculating per capita values for the purposes of this chapter, an urban retail water supplier shall determine population using federal, state, and local population reports and projections.
 - (g) An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan required pursuant to Part 2.6 (commencing with Section 10610).
 - (h) (1) The department, through a public process and in consultation with the California Urban Water Conservation Council, shall develop technical methodologies and criteria for the consistent implementation of this part, including, but not limited to, both of the following:
 - (A) Methodologies for calculating base daily per capita water use, baseline commercial, industrial, and institutional water use, compliance daily per capita water use, gross water use, service area population, indoor residential water use, and landscaped area water use.
 - (B) Criteria for adjustments pursuant to subdivisions (d) and (e) of Section 10608.24.
 - (2) The department shall post the methodologies and criteria developed pursuant to this subdivision on its Internet Web site, and make written copies available, by October 1, 2010. An urban retail water supplier shall use the methods developed by the department in compliance with this part.

(i) (1) The department shall adopt regulations for implementation of the provisions relating to process water in accordance with subdivision (l) of Section 10608.12, subdivision (e) of Section 10608.24, and subdivision (d) of Section 10608.26.

(2) The initial adoption of a regulation authorized by this subdivision is deemed to address an emergency, for purposes of Sections 11346.1 and 11349.6 of the Government Code, and the department is hereby exempted for that purpose from the requirements of subdivision (b) of Section 11346.1 of the Government Code. After the initial adoption of an emergency regulation pursuant to this subdivision, the department shall not request approval from the Office of Administrative Law to readopt the regulation as an emergency regulation pursuant to Section 11346.1 of the Government Code.

(j) (1) An urban retail water supplier is granted an extension to July 1, 2011, for adoption of an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) due in 2010 to allow the use of technical methodologies developed by the department pursuant to paragraph (4) of subdivision (b) and subdivision (h). An urban retail water supplier that adopts an urban water management plan due in 2010 that does not use the methodologies developed by the department pursuant to subdivision (h) shall amend the plan by July 1, 2011, to comply with this part.

(2) An urban wholesale water supplier whose urban water management plan prepared pursuant to Part 2.6 (commencing with Section 10610) was due and not submitted in 2010 is granted an extension to July 1, 2011, to permit coordination between an urban wholesale water supplier and urban retail water suppliers.

10608.22. Notwithstanding the method adopted by an urban retail water supplier pursuant to Section 10608.20, an urban retail water supplier's per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use as defined in paragraph(3) of subdivision (b) of Section 10608.12. This section does not apply to an urban retail water supplier with a base daily per capita water use at or below 100 gallons per capita per day.

10608.24. (a) Each urban retail water supplier shall meet its interim urban water use target by December 31, 2015.

(b) Each urban retail water supplier shall meet its urban water use target by December 31, 2020.

(c) An urban retail water supplier's compliance daily per capita water use shall be the measure of progress toward achievement of its urban water use target.

(d) (1) When determining compliance daily per capita water use, an urban retail water supplier may consider the following factors:

(A) Differences in evapotranspiration and rainfall in the baseline period compared to the compliance reporting period.

(B) Substantial changes to commercial or industrial water use resulting from increased business output and economic development that have occurred during the reporting period.

(C) Substantial changes to institutional water use resulting from fire suppression services or other extraordinary events, or from new or expanded operations, that have occurred during the reporting period.

(2) If the urban retail water supplier elects to adjust its estimate of compliance daily per capita water use due to one or more of the factors described in paragraph (1), it shall provide the basis for, and data supporting, the adjustment in the report required by Section 10608.40.

(e) When developing the urban water use target pursuant to Section 10608.20, an urban retail water supplier that has a substantial percentage of industrial water use in its service area may exclude process water from the calculation of gross water use to avoid a disproportionate burden on another customer sector.

(f) (1) An urban retail water supplier that includes agricultural water use in an urban water management plan pursuant to Part 2.6 (commencing with Section 10610) may include the agricultural water use in determining gross water use. An urban retail water supplier that includes agricultural water use in determining gross water use and develops its urban water use target pursuant to paragraph (2) of subdivision (b) of Section 10608.20 shall use a water efficient standard for agricultural irrigation of 100 percent of reference evapotranspiration multiplied by the crop coefficient for irrigated acres.

(2) An urban retail water supplier, that is also an agricultural water supplier, is not subject to the requirements of Chapter 4 (commencing with Section 10608.48), if the agricultural water use is incorporated into its urban water use target pursuant to paragraph (1).

10608.26. (a) In complying with this part, an urban retail water supplier shall conduct at least one public hearing to accomplish all of the following:

(1) Allow community input regarding the urban retail water supplier's implementation plan for complying with this part.

(2) Consider the economic impacts of the urban retail water supplier's implementation plan for complying with this part.

(3) Adopt a method, pursuant to subdivision (b) of Section 10608.20, for determining its urban water use target.

(b) In complying with this part, an urban retail water supplier may meet its urban water use target through efficiency improvements in any combination among its customer sectors. An urban retail water supplier shall avoid placing a disproportionate burden on any customer sector.

(c) For an urban retail water supplier that supplies water to a United States Department of Defense military installation, the urban retail water supplier's

implementation plan for complying with this part shall consider the conservation of that military installation under federal Executive Order 13514.

- (d) (1) Any ordinance or resolution adopted by an urban retail water supplier after the effective date of this section shall not require existing customers as of the effective date of this section, to undertake changes in product formulation, operations, or equipment that would reduce process water use, but may provide technical assistance and financial incentives to those customers to implement efficiency measures for process water. This section shall not limit an ordinance or resolution adopted pursuant to a declaration of drought emergency by an urban retail water supplier.
- (2) This part shall not be construed or enforced so as to interfere with the requirements of Chapter 4 (commencing with Section 113980) to Chapter 13 (commencing with Section 114380), inclusive, of Part 7 of Division 104 of the Health and Safety Code, or any requirement or standard for the protection of public health, public safety, or worker safety established by federal, state, or local government or recommended by recognized standard setting organizations or trade associations.

10608.28. (a) An urban retail water supplier may meet its urban water use target within its retail service area, or through mutual agreement, by any of the following:

- (1) Through an urban wholesale water supplier.
 - (2) Through a regional agency authorized to plan and implement water conservation, including, but not limited to, an agency established under the Bay Area Water Supply and Conservation Agency Act (Division 31 (commencing with Section 81300)).
 - (3) Through a regional water management group as defined in Section 10537.
 - (4) By an integrated regional water management funding area.
 - (5) By hydrologic region.
 - (6) Through other appropriate geographic scales for which computation methods have been developed by the department.
- (b) A regional water management group, with the written consent of its member agencies, may undertake any or all planning, reporting, and implementation functions under this chapter for the member agencies that consent to those activities. Any data or reports shall provide information both for the regional water management group and separately for each consenting urban retail water supplier and urban wholesale water supplier.

10608.32. All costs incurred pursuant to this part by a water utility regulated by the Public Utilities Commission may be recoverable in rates subject to review and approval by the Public Utilities Commission, and may be recorded in a memorandum account and reviewed for reasonableness by the Public Utilities Commission.

- 10608.36. Urban wholesale water suppliers shall include in the urban water management plans required pursuant to Part 2.6 (commencing with Section 10610) an assessment of their present and proposed future measures, programs, and policies to help achieve the water use reductions required by this part.
- 10608.40. Urban water retail suppliers shall report to the department on their progress in meeting their urban water use targets as part of their urban water management plans submitted pursuant to Section 10631. The data shall be reported using a standardized form developed pursuant to Section 10608.52.
- 10608.42. (a) The department shall review the 2015 urban water management plans and report to the Legislature by July 1, 2017, on progress towards achieving a 20-percent reduction in urban water use by December 31, 2020. The report shall include recommendations on changes to water efficiency standards or urban water use targets to achieve the 20-percent reduction and to reflect updated efficiency information and technology changes.
- (b) A report to be submitted pursuant to subdivision (a) shall be submitted in compliance with Section 9795 of the Government Code.
- 10608.43. The department, in conjunction with the California Urban Water Conservation Council, by April 1, 2010, shall convene a representative task force consisting of academic experts, urban retail water suppliers, environmental organizations, commercial water users, industrial water users, and institutional water users to develop alternative best management practices for commercial, industrial, and institutional users and an assessment of the potential statewide water use efficiency improvement in the commercial, industrial, and institutional sectors that would result from implementation of these best management practices. The taskforce, in conjunction with the department, shall submit a report to the Legislature by April 1, 2012, that shall include a review of multiple sectors within commercial, industrial, and institutional users and that shall recommend water use efficiency standards for commercial, industrial, and institutional users among various sectors of water use. The report shall include, but not be limited to, the following:
- (a) Appropriate metrics for evaluating commercial, industrial, and institutional water use.
- (b) Evaluation of water demands for manufacturing processes, goods, and cooling.
- (c) Evaluation of public infrastructure necessary for delivery of recycled water to the commercial, industrial, and institutional sectors.
- (d) Evaluation of institutional and economic barriers to increased recycled water use within the commercial, industrial, and institutional sectors.
- (e) Identification of technical feasibility and cost of the best management practices to achieve more efficient water use statewide in the commercial, industrial, and institutional sectors that is consistent with the public interest and reflects past investments in water use efficiency.
- 10608.44. Each state agency shall reduce water use at facilities it operates to support urban retail water suppliers in meeting the target identified in Section 10608.16.

Chapter 4 Agricultural Water Suppliers

SECTION 10608.48

- 10608.48. (a) On or before July 31, 2012, an agricultural water supplier shall implement efficient water management practices pursuant to subdivisions (b) and (c).
- (b) Agricultural water suppliers shall implement all of the following critical efficient management practices:
- (1) Measure the volume of water delivered to customers with sufficient accuracy to comply with subdivision (a) of Section 531.10 and to implement paragraph (2).
 - (2) Adopt a pricing structure for water customers based at least in part on quantity delivered.
- (c) Agricultural water suppliers shall implement additional efficient management practices, including, but not limited to, practices to accomplish all of the following, if the measures are locally cost effective and technically feasible:
- (1) Facilitate alternative land use for lands with exceptionally high water duties or whose irrigation contributes to significant problems, including drainage.
 - (2) Facilitate use of available recycled water that otherwise would not be used beneficially, meets all health and safety criteria, and does not harm crops or soils.
 - (3) Facilitate the financing of capital improvements for on-farm irrigation systems.
 - (4) Implement an incentive pricing structure that promotes one or more of the following goals:
 - (A) More efficient water use at the farm level.
 - (B) Conjunctive use of groundwater.
 - (C) Appropriate increase of groundwater recharge.
 - (D) Reduction in problem drainage.
 - (E) Improved management of environmental resources.
 - (F) Effective management of all water sources throughout the year by adjusting seasonal pricing structures based on current conditions.

- (5) Expand line or pipe distribution systems, and construct regulatory reservoirs to increase distribution system flexibility and capacity, decrease maintenance, and reduce seepage.
 - (6) Increase flexibility in water ordering by, and delivery to, water customers within operational limits.
 - (7) Construct and operate supplier spill and tailwater recovery systems.
 - (8) Increase planned conjunctive use of surface water and groundwater within the supplier service area.
 - (9) Automate canal control structures.
 - (10) Facilitate or promote customer pump testing and evaluation.
 - (11) Designate a water conservation coordinator who will develop and implement the water management plan and prepare progress reports.
 - (12) Provide for the availability of water management services to water users. These services may include, but are not limited to, all of the following:
 - (A) On-farm irrigation and drainage system evaluations.
 - (B) Normal year and real-time irrigation scheduling and crop evapotranspiration information.
 - (C) Surface water, groundwater, and drainage water quantity and quality data.
 - (D) Agricultural water management educational programs and materials for farmers, staff, and the public.
 - (13) Evaluate the policies of agencies that provide the supplier with water to identify the potential for institutional changes to allow more flexible water deliveries and storage.
 - (14) Evaluate and improve the efficiencies of the supplier's pumps.
- (d) Agricultural water suppliers shall include in the agricultural water management plans required pursuant to Part 2.8 (commencing with Section 10800) a report on which efficient water management practices have been implemented and are planned to be implemented, an estimate of the water use efficiency improvements that have occurred since the last report, and an estimate of the water use efficiency improvements estimated to occur five and 10 years in the future. If an agricultural water supplier determines that an efficient water management practice is not locally cost effective or technically feasible, the supplier shall submit information documenting that determination.
- (e) The data shall be reported using a standardized form developed pursuant to Section 10608.52.

- (f) An agricultural water supplier may meet the requirements of subdivisions (d) and (e) by submitting to the department a water conservation plan submitted to the United States Bureau of Reclamation that meets the requirements described in Section 10828.
- (g) On or before December 31, 2013, December 31, 2016, and December 31, 2021, the department, in consultation with the board, shall submit to the Legislature a report on the agricultural efficient water management practices that have been implemented and are planned to be implemented and an assessment of the manner in which the implementation of those efficient water management practices has affected and will affect agricultural operations, including estimated water use efficiency improvements, if any.
- (h) The department may update the efficient water management practices required pursuant to subdivision (c), in consultation with the Agricultural Water Management Council, the United States Bureau of Reclamation, and the board. All efficient water management practices for agricultural water use pursuant to this chapter shall be adopted or revised by the department only after the department conducts public hearings to allow participation of the diverse geographical areas and interests of the state.
- (i) (1) The department shall adopt regulations that provide for a range of options that agricultural water suppliers may use or implement to comply with the measurement requirement in paragraph (1) of subdivision (b).

(2) The initial adoption of a regulation authorized by this subdivision is deemed to address an emergency, for purposes of Sections 11346.1 and 11349.6 of the Government Code, and the department is hereby exempted for that purpose from the requirements of subdivision (b) of Section 11346.1 of the Government Code. After the initial adoption of an emergency regulation pursuant to this subdivision, the department shall not request approval from the Office of Administrative Law to readopt the regulation as an emergency regulation pursuant to Section 11346.1 of the Government Code.

Chapter 5 Sustainable Water Management

Section 10608.50

- 10608.50. (a) The department, in consultation with the board, shall promote implementation of regional water resources management practices through increased incentives and removal of barriers consistent with state and federal law. Potential changes may include, but are not limited to, all of the following:
- (1) Revisions to the requirements for urban and agricultural water management plans.
 - (2) Revisions to the requirements for integrated regional water management plans.

- (3) Revisions to the eligibility for state water management grants and loans.
 - (4) Revisions to state or local permitting requirements that increase water supply opportunities, but do not weaken water quality protection under state and federal law.
 - (5) Increased funding for research, feasibility studies, and project construction.
 - (6) Expanding technical and educational support for local land use and water management agencies.
- (b) No later than January 1, 2011, and updated as part of the California Water Plan, the department, in consultation with the board, and with public input, shall propose new statewide targets, or review and update existing statewide targets, for regional water resources management practices, including, but not limited to, recycled water, brackish groundwater desalination, and infiltration and direct use of urban stormwater runoff.

Chapter 6 Standardized Data Collection

SECTION 10608.52

- 10608.52. (a) The department, in consultation with the board, the California Bay-Delta Authority or its successor agency, the State Department of Public Health, and the Public Utilities Commission, shall develop a single standardized water use reporting form to meet the water use information needs of each agency, including the needs of urban water suppliers that elect to determine and report progress toward achieving targets on a regional basis as provided in subdivision (a) of Section 10608.28.
- (b) At a minimum, the form shall be developed to accommodate information sufficient to assess an urban water supplier's compliance with conservation targets pursuant to Section 10608.24 and an agricultural water supplier's compliance with implementation of efficient water management practices pursuant to subdivision (a) of Section 10608.48. The form shall accommodate reporting by urban water suppliers on an individual or regional basis as provided in subdivision (a) of Section 10608.28.

Chapter 7 Funding Provisions

Section 10608.56-10608.60

- 10608.56. (a) On and after July 1, 2016, an urban retail water supplier is not eligible for a water grant or loan awarded or administered by the state unless the supplier complies with this part.

- (b) On and after July 1, 2013, an agricultural water supplier is not eligible for a water grant or loan awarded or administered by the state unless the supplier complies with this part.
 - (c) Notwithstanding subdivision (a), the department shall determine that an urban retail water supplier is eligible for a water grant or loan even though the supplier has not met the per capita reductions required pursuant to Section 10608.24, if the urban retail water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the grant or loan agreement, for achieving the per capita reductions. The supplier may request grant or loan funds to achieve the per capita reductions to the extent the request is consistent with the eligibility requirements applicable to the water funds.
 - (d) Notwithstanding subdivision (b), the department shall determine that an agricultural water supplier is eligible for a water grant or loan even though the supplier is not implementing all of the efficient water management practices described in Section 10608.48, if the agricultural water supplier has submitted to the department for approval a schedule, financing plan, and budget, to be included in the grant or loan agreement, for implementation of the efficient water management practices. The supplier may request grant or loan funds to implement the efficient water management practices to the extent the request is consistent with the eligibility requirements applicable to the water funds.
 - (e) Notwithstanding subdivision (a), the department shall determine that an urban retail water supplier is eligible for a water grant or loan even though the supplier has not met the per capita reductions required pursuant to Section 10608.24, if the urban retail water supplier has submitted to the department for approval documentation demonstrating that its entire service area qualifies as a disadvantaged community.
 - (f) The department shall not deny eligibility to an urban retail water supplier or agricultural water supplier in compliance with the requirements of this part and Part 2.8 (commencing with Section 10800), that is participating in a multiagency water project, or an integrated regional water management plan, developed pursuant to Section 75026 of the Public Resources Code, solely on the basis that one or more of the agencies participating in the project or plan is not implementing all of the requirements of this part or Part 2.8 (commencing with Section 10800).
- 10608.60. (a) It is the intent of the Legislature that funds made available by Section 75026 of the Public Resources Code should be expended, consistent with Division 43 (commencing with Section 75001) of the Public Resources Code and upon appropriation by the Legislature, for grants to implement this part. In the allocation of funding, it is the intent of the Legislature that the department give consideration to disadvantaged communities to assist in implementing the requirements of this part.
- (b) It is the intent of the Legislature that funds made available by Section 75041 of the Public Resources Code, should be expended, consistent with Division 43 (commencing with Section 75001) of the Public Resources Code and upon appropriation by the Legislature, for direct expenditures to implement this part.

Chapter 8 Quantifying Agricultural Water Use Efficiency

SECTION 10608.64

10608.64. The department, in consultation with the Agricultural Water Management Council, academic experts, and other stakeholders, shall develop a methodology for quantifying the efficiency of agricultural water use. Alternatives to be assessed shall include, but not be limited to, determination of efficiency levels based on crop type or irrigation system distribution uniformity. On or before December 31, 2011, the department shall report to the Legislature on a proposed methodology and a plan for implementation. The plan shall include the estimated implementation costs and the types of data needed to support the methodology. Nothing in this section authorizes the department to implement a methodology established pursuant to this section.

APPENDIX G

Standardized Tables SB X7-7

Verification Form

SB X7-7 Table 0: Units of Measure Used in UWMP*

(select one from the drop down list)

Acre Feet

**The unit of measure must be consistent with Table 2-3*

NOTES:

SB X7-7 Table-1: Baseline Period Ranges

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	3,029	Acre Feet
	2008 total volume of delivered recycled water	0	Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period ¹	10	Years
	Year beginning baseline period range	1995	
	Year ending baseline period range ²	2004	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2003	
	Year ending baseline period range ³	2007	
<p>¹ If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period.</p>			
<p>² The ending year must be between December 31, 2004 and December 31, 2010.</p>			
<p>³ The ending year must be between December 31, 2007 and December 31, 2010.</p>			
<p>NOTES:</p>			

SB X7-7 Table 2: Method for Population Estimates

Method Used to Determine Population (may check more than one)	
<input type="checkbox"/>	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
<input type="checkbox"/>	2. Persons-per-Connection Method
<input checked="" type="checkbox"/>	3. DWR Population Tool
<input type="checkbox"/>	4. Other DWR recommends pre-review
NOTES:	

SB X7-7 Table 3: Service Area Population

Year	Population	
10 to 15 Year Baseline Population		
Year 1	1995	13,716
Year 2	1996	13,802
Year 3	1997	13,889
Year 4	1998	13,981
Year 5	1999	14,064
Year 6	2000	14,146
Year 7	2001	14,252
Year 8	2002	14,349
Year 9	2003	14,440
Year 10	2004	14,548
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2003	14,440
Year 2	2004	14,548
Year 3	2005	17,447
Year 4	2006	19,202
Year 5	2007	16,767
2015 Compliance Year Population		
2015		17,961
NOTES:		

SB X7-7 Table 4: Annual Gross Water Use *

	Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>Fm SB X7-7 Table(s) 4-A</i>	Deductions					Annual Gross Water Use
			Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>Fm SB X7-7 Table 4-B</i>	Water Delivered for Agricultural Use	Process Water <i>Fm SB X7-7 Table(s) 4-D</i>	
10 to 15 Year Baseline - Gross Water Use								
Year 1	1995	2,644			0		0	2,644
Year 2	1996	3,029			0		0	3,029
Year 3	1997	2,869			0		0	2,869
Year 4	1998	2,934			0		0	2,934
Year 5	1999	2,725			0		0	2,725
Year 6	2000	2,780			0		0	2,780
Year 7	2001	2,742			0		0	2,742
Year 8	2002	3,265			0		0	3,265
Year 9	2003	3,156			0		0	3,156
Year 10	2004	2,969			0		0	2,969
<i>Year 11</i>	0	0			0		0	0
<i>Year 12</i>	0	0			0		0	0
<i>Year 13</i>	0	0			0		0	0
<i>Year 14</i>	0	0			0		0	0
<i>Year 15</i>	0	0			0		0	0
10 - 15 year baseline average gross water use								2,911
5 Year Baseline - Gross Water Use								
Year 1	2003	3,156			0		0	3,156
Year 2	2004	2,969			0		0	2,969
Year 3	2005	3,082			0		0	3,082
Year 4	2006	3,858			0		0	3,858
Year 5	2007	3,681			0		0	3,681
5 year baseline average gross water use								3,349
2015 Compliance Year - Gross Water Use								
2015		2,270			0		0	2,270
* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3								
NOTES: Volume of water is reported during a fiscal year.								

SB X7-7 Table 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

Name of Source Groundwater

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System
---	--	---	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	1995	2,590		2,590
Year 2	1996	2,982		2,982
Year 3	1997	2,269		2,269
Year 4	1998	2,814		2,814
Year 5	1999	2,725		2,725
Year 6	2000	2,780		2,780
Year 7	2001	2,742		2,742
Year 8	2002	3,231		3,231
Year 9	2003	3,154		3,154
Year 10	2004	2,794		2,794
Year 11	0			0
Year 12	0			0
Year 13	0			0
Year 14	0			0
Year 15	0			0

5 Year Baseline - Water into Distribution System

Year 1	2003	3,154		3,154
Year 2	2004	2,794		2,794
Year 3	2005	3,082		3,082
Year 4	2006	3,806		3,806
Year 5	2007	3,681		3,681

2015 Compliance Year - Water into Distribution System

2015		2,270		2,270
-------------	--	-------	--	-------

** Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document*

NOTES: Volume of water is reported during a fiscal year.

SB X7-7 Table 4-A: Volume Entering the Distribution

Name of Source EMWD

This water source is:

The supplier's own water source

A purchased or imported source

Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System
---	--	---	--

10 to 15 Year Baseline - Water into Distribution System

Year 1	1995	54	54
Year 2	1996	47	47
Year 3	1997	600	600
Year 4	1998	120	120
Year 5	1999	0	0
Year 6	2000	0	0
Year 7	2001	0	0
Year 8	2002	34	34
Year 9	2003	2	2
Year 10	2004	175	175
Year 11	0		
Year 12	0		
Year 13	0		
Year 14	0		
Year 15	0		

5 Year Baseline - Water into Distribution System

Year 1	2003	2	2
Year 2	2004	175	175
Year 3	2005	0	0
Year 4	2006	52	52
Year 5	2007	0	0

2015 Compliance Year - Water into Distribution System

2015		0	0
-------------	--	---	---

** Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document*

NOTES: Volume of water is reported during a fiscal year.

SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)

Baseline Year <i>Fm SB X7-7 Table 3</i>	Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)	
10 to 15 Year Baseline GPCD				
Year 1	1995	13,716	2,644	172
Year 2	1996	13,802	3,029	196
Year 3	1997	13,889	2,869	184
Year 4	1998	13,981	2,934	187
Year 5	1999	14,064	2,725	173
Year 6	2000	14,146	2,780	175
Year 7	2001	14,252	2,742	172
Year 8	2002	14,349	3,265	203
Year 9	2003	14,440	3,156	195
Year 10	2004	14,548	2,969	182
<i>Year 11</i>	0	0	0	
<i>Year 12</i>	0	0	0	
<i>Year 13</i>	0	0	0	
<i>Year 14</i>	0	0	0	
<i>Year 15</i>	0	0	0	
10-15 Year Average Baseline GPCD			184	
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>	Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use	
Year 1	2003	14,440	3,156	195
Year 2	2004	14,548	2,969	182
Year 3	2005	17,447	3,082	158
Year 4	2006	19,202	3,858	179
Year 5	2007	16,767	3,681	196
5 Year Average Baseline GPCD			182	
2015 Compliance Year GPCD				
2015	17,961	2,270	113	
NOTES:				

SB X7-7 Table 6: Gallons per Capita per Day
Summary From Table SB X7-7 Table 5

10-15 Year Baseline GPCD	184
5 Year Baseline GPCD	182
2015 Compliance Year GPCD	113
NOTES:	

SB X7-7 Table 7: 2020 Target Method*Select Only One*

Target Method		Supporting Documentation
<input checked="" type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D <i>Contact DWR for these tables</i>
<input type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator

NOTES:

SB X7-7 Table 7-A: Target Method 1

20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
184	147

NOTES:

SB X7-7 Table 7-E: Target Method 3

Agency May Select More Than One as Applicable	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets	Method 3 Regional Targets (95%)
<input type="checkbox"/>		North Coast	137	130
<input type="checkbox"/>		North Lahontan	173	164
<input type="checkbox"/>		Sacramento River	176	167
<input type="checkbox"/>		San Francisco Bay	131	124
<input type="checkbox"/>		San Joaquin River	174	165
<input type="checkbox"/>		Central Coast	123	117
<input type="checkbox"/>		Tulare Lake	188	179
<input type="checkbox"/>		South Lahontan	170	162
<input checked="" type="checkbox"/>	100%	South Coast	149	142
<input type="checkbox"/>		Colorado River	211	200
<p align="center">Target <i>(if more than one region is selected, this value is calculated.)</i></p>				142
NOTES:				

SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target

5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target*	Calculated 2020 Target <i>Fm Appropriate Target Table</i>	Confirmed 2020 Target
182	173	147	147

* Maximum 2020 Target is 95% of the 5 Year Baseline GPCD

NOTES:

SB X7-7 Table 8: 2015 Interim Target GPCD

Confirmed 2020 Target <i>Fm SB X7-7 Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7 Table 5</i>	2015 Interim Target GPCD
147	184	166

NOTES:

SB X7-7 Table 9: 2015 Compliance

Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments (in GPCD)					2015 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2015?
		Extraordinary Events	Weather Normalization	Economic Adjustment	TOTAL Adjustments	Adjusted 2015 GPCD		
113	166	<i>From Methodology 8 (Optional)</i>	<i>From Methodology 8 (Optional)</i>	<i>From Methodology 8 (Optional)</i>	0	113	113	YES

NOTES:

APPENDIX H

Groundwater Management Plan (November 2007)

Hemet/San Jacinto Groundwater Management Area



Water Management Plan

Prepared for:



in coordination with:

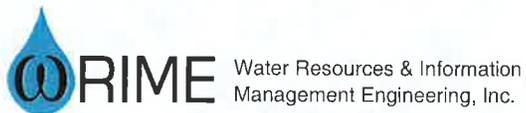


Prepared by:



in association with Stetson Engineers and Geoscience

November 7, 2007



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Hemet/San Jacinto Groundwater Management Area
Water Management Plan

November 7, 2007

Prepared for:

Eastern Municipal Water District
Lake Hemet Municipal Water District
City of Hemet
City of San Jacinto

in coordination with
California Department of Water Resources

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APPENDIX I

Stipulated Judgment, Case Number RIC
1207274 (April 2013)

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8 SUPERIOR COURT OF THE STATE OF CALIFORNIA
 9 IN AND FOR THE COUNTY OF RIVERSIDE

11 EASTERN MUNICIPAL WATER DISTRICT,) CASE NO.:
 12 A California Municipal Water District,)
 13) STIPULATED JUDGMENT
 Plaintiff,)
 14 vs.)
 15)
 CITY OF HEMET;)
 16 CITY OF SAN JACINTO;)
 LAKE HEMET MUNICIPAL WATER)
 17 DISTRICT;)
 DOES 1 through 1,000, inclusive,)
 18)
 Defendants.)
 19)

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FINDINGS

After consideration of the pleadings and the Stipulation for Entry of Judgment, the Court finds that:

1. **Complaint.** On May 16, 2012, Plaintiff Eastern Municipal Water District ("Eastern") filed a Complaint against Defendants Lake Hemet Municipal Water District ("Lake Hemet"), City of Hemet ("Hemet"), City of San Jacinto ("San Jacinto"), and DOES 1 through 1,000, inclusive. The Complaint requests a declaration of Plaintiff's and Defendants' individual and collective rights to Surface Water and Groundwater in the Canyon Subbasin, the San Jacinto Upper Pressure Subbasin downstream to Bridge Street, and the Hemet Basin ("Management Area") and the imposition of a Physical Solution to achieve the optimum, reasonable, beneficial use of the waters of the Management Area pursuant to section 2 of article X of the California Constitution. A map describing the boundaries of the Management Area is attached to this Judgment as Exhibit "A" and to the Complaint.

2. **Parties.**

A. **Eastern.** Eastern is a California municipal water district formed pursuant to the Municipal Water District Law, California Water Code Sections 71000-73001 (West 1966), with its principal place of business in Riverside County, California. Eastern diverts Surface Water from the San Jacinto River, and pumps Groundwater from the Management Area for use by its customers within its boundaries.

B. **Lake Hemet.** Lake Hemet is a California municipal water district formed pursuant to the Municipal Water District Law, California Water Code Sections 71000-73001 (West 1966), with its principal place of business in Riverside County, California. Lake Hemet diverts Surface Water from the Santa Jacinto River and its tributaries, and pumps Groundwater from the Management Area for use by its customers within its boundaries.

C. **Hemet.** Hemet is a California municipal corporation providing utility services pursuant to the California Constitution, article XI, section 9. Hemet pumps Groundwater from the Management Area for use by its customers within its boundaries.

1 **D. San Jacinto.** San Jacinto is a California municipal corporation providing
2 utility services pursuant to the California Constitution, article XI, section 9. San Jacinto pumps
3 Groundwater from the Management Area for use by its customers within its boundaries.

4 **E. Pumpers.** Does 1 through 1,000, inclusive, are Persons or entities who
5 own farms or other property within the Management Area, and pump Groundwater from the
6 Management Area.

7 **3. Answers and Stipulation for Judgment.** All defendants have filed Answers,
8 and all Parties have filed a Stipulation for Entry of Judgment.

9 **4. Sole Producers.** Other than the Soboba Band of Luiseño Indians, and certain
10 overlying users not Parties to this litigation, the Parties claim essentially all of the rights to
11 produce Surface Water and Groundwater in the Management Area.

12 **5. Importance of Surface Water and Groundwater.** Surface water and
13 Groundwater from the Management Area are important water supplies for agriculture, domestic
14 and municipal use. The Parties have a mutual and collective interest in the coordinated
15 management of such water resources to ensure that the common resource is used efficiently and
16 reasonably, and that it is sustained and replenished.

17 **6. Overdraft.** It is estimated that the Overdraft of the Management Area is
18 approximately 10,000 acre-feet per year. This estimate will be refined through further studies to
19 be completed pursuant to the Water Management Plan, including data on the several subbasins
20 within the Management Area. Studies confirm that in recent years the total Groundwater
21 production from the Management Area, including pumping by those Persons not Parties to this
22 litigation, has averaged approximately 54,800 acre-feet per year.

23 **7. Importance of Judgment.** The Parties have an interest in the Physical Solution
24 imposed by this Judgment to promote the efficient and coordinated management of Surface
25 Water and Groundwater, to avoid problems from Overdraft, to assist in protecting the rights of
26 the Soboba Band of Luiseño Indians, to sustain and enhance water resources, and to resolve
27 competing claims to Surface Water and Groundwater.

28 **8. Jurisdiction.** This Court has jurisdiction to enter this Judgment declaring and

1 adjudicating the rights of the Parties to the reasonable and beneficial use of Surface Water and
2 Groundwater in the Management Area, and to impose a Physical Solution pursuant to law,
3 including California Constitution, article X, section 2.
4

5 **JUDGMENT**

6
7 **IT IS ORDERED, ADJUDGED AND DECREED:**

8 **1. DEFINITIONS.**

9 **1.1 Adjusted Production Right** – the Base Production Right of each Public
10 Agency, as adjusted pursuant to Sections 3.2 to 3.2.5.

11 **1.2 Administrative Assessment** – an acre-foot charge to be levied against
12 each Public Agency for water pumped up to its Adjusted Production Right, including any unused
13 amount of such Right that is pumped in a following year (Carry-Over Credit). Such assessments
14 shall be used for Administrative Expenses, and for the purchase of Supplemental Water after
15 Administrative Expenses have been paid. No Administrative Assessment shall be levied on a
16 Party's pumping of its share of Imported, Supplemental, or Stored Water.

17 **1.3 Administrative Expenses** – Include, but are not limited to,
18 Watermaster's expenses for office rental, personnel, supplies, office equipment, general
19 overhead, preparing and collecting assessments, monitoring well pumping, measuring water
20 levels, sampling and analyzing water quality, compiling and interpreting collected data,
21 conducting special studies, litigation, and such other expenses as are reasonable and necessary
22 for the Watermaster to carry out its duties under the Physical Solution and Water Management
23 Plan.

24 **1.4 Advisor.** An independent engineering firm or qualified individual as
25 provided in Section 9.6.3.

26 **1.5 Annual Basin Yield** – the quantity of Groundwater that Watermaster
27 determines the Parties may Produce from the Management Area in a calendar year without a
28 replenishment obligation under the Physical Solution.

1 **1.6 Base Production Right** – a water right of a Public Agency or Class B
2 Participant.

3 **1.7 Carry-Over Credit** – a Public Agency’s or a Class B Participant’s credit
4 against the Replenishment Assessment in a Fiscal Year, based on the Agency’s Adjusted or Base
5 Production Right or share of Imported Water not produced in prior calendar years.

6 **1.8 Class A Participant** – a Private Pumper who stipulates to this Judgment
7 and participates in the Water Management Plan as defined in Sections 4.3 to 4.3.5.

8 **1.9 Class B Participant** – a Private Pumper who stipulates to this Judgment
9 and participates in the Water Management Plan as defined in Sections 4.4 to 4.4.6.

10 **1.10 Fiscal Year** – the period from July 1 through June 30 of the following
11 calendar year.

12 **1.11 Fruitvale Documents** –

13 **(a) Fruitvale Judgment** – The Judgment and Decree entered in the
14 Superior Court for the County of Riverside on June 4, 1954, in an action titled The City of San
15 Jacinto, et al. v. Fruitvale Mutual Water Company, et al., Case No. 51-546;

16 **(b) Fruitvale Mutual Water Company Sale of Assets to Eastern** –
17 That certain “Agreement for the Sale of Assets of the Fruitvale Mutual Water Company to
18 Eastern Municipal Water District” dated September 10, 1971 (“Purchase Agreement”);

19 **(c) Fruitvale Mutual Water Company Agency Agreements** – The
20 Agreement Between the City of San Jacinto and Eastern Municipal Water District dated
21 November 2, 1971, the Agreement Between Lake Hemet Municipal Water District and Eastern
22 Municipal Water District dated June 9, 1972, and the Agreement Between the City of Hemet and
23 Eastern Municipal Water District dated June 13, 1972, all providing for recognition of ownership
24 of stock in Fruitvale Mutual Water Company by the Cities and by Lake Hemet, and making
25 provision for the continued sale of water produced through the Fruitvale facilities by Eastern to
26 the Cities and to Lake Hemet.

27 **1.12 Groundwater** – all water within and beneath the ground surface of the
28 Management Area.

1 **1.13 Groundwater Degradation** (also “groundwater quality degradation” and
2 “water quality degradation,” “Degradation” and “Degraded Groundwater”) – Water
3 contamination as defined in state and/or federal law, and other conditions of reduced water
4 quality as determined by the Watermaster to be harmful or undesirable for the operation of the
5 Management Area.

6 **1.14 Imported Water** – An average of 7,500 acre feet annually of water sold
7 by The Metropolitan Water District of Southern California to Eastern pursuant to Section 4.4 of
8 the Soboba Band of Luiseño Indians “Settlement Agreement.”

9 **1.15 In-Lieu Water** – Groundwater that is not pumped, but which would have
10 otherwise been pumped by the holder of an Overlying or Appropriative Right within the
11 Management Area, by virtue of the pumper’s agreement with an Agency or the Watermaster to
12 receive and use Recycled Water or other nonpotable water in lieu of Groundwater.

13 **1.16 Management Area** –the Canyon, the San Jacinto Upper Pressure, and the
14 Hemet North and Hemet South Basins, as delineated on the map attached as Exhibit “A.”

15 **1.17 Metropolitan** – The Metropolitan Water District of Southern California.

16 **1.18 Natural Recharge** – Groundwater replenishment within the Management
17 Area occurring from precipitation on the surface, percolation from surface flows of the San
18 Jacinto River and its tributaries, spreading or injection of such surface flows, return flows from
19 irrigation, and subsurface inflows.

20 **1.19 New Pumper** – a Private Pumper who pumps for the first time after entry
21 of Judgment herein.

22 **1.20 Non-Participant** – a Private Pumper who elects not to participate in the
23 Management Plan, or to be a Party to this Judgment.

24 **1.21 Overdraft** – a condition whereby pumping in the Management Area
25 exceeds the Safe Yield thereof.

26 **1.22 Overlying Right** – the appurtenant right of an owner of land overlying the
27 Management Area to pump water from such land for beneficial use thereon.
28

1 **1.23 Party or Parties** – Eastern, Lake Hemet, Hemet, San Jacinto and the other
2 Persons listed in the attached Exhibit “B.”

3 **1.24 Person** – any individual, partnership, association, corporation, trust,
4 government agency or other organization.

5 **1.25 Physical Solution** – the Court decreed method of managing the water
6 supply of the Management Area to maximize the reasonable and beneficial use of the waters
7 thereof pursuant to the California Constitution, article X, section 2, to eliminate Overdraft
8 pursuant to the provisions of this Judgment, to protect the prior rights of the Soboba Tribe, and to
9 provide for the substantial enjoyment of all water rights recognizing their priorities.

10 **1.26 Private Pumper** – a Person who owns land with an Overlying Right or
11 other right in the Management Area and pumps more than 25 acre-feet per year. Private Pumper
12 includes New Pumps.

13 **1.27 Public Agency or Agencies** – Eastern, Lake Hemet, Hemet and San
14 Jacinto.

15 **1.28 Recharge or Replenish** – to sink, spread or inject water directly or
16 indirectly underground in the Management Area.

17 **1.29 Recharge Right** – the rights of Eastern and Lake Hemet to pump and use
18 water previously replenished to the Management Area as provided in Section 6.7.4.

19 **1.30 Recycled Water** – treated wastewater which is processed and suitable for
20 controlled use in the Management Area, including Recharge.

21 **1.31 Replenishment Assessment** – a charge to be levied against each Public
22 Agency for each acre foot, or portion thereof, of Groundwater pumped in excess of the sum of its
23 respective Adjusted Production Right, its share of Imported Water, Stored Water, Supplemental
24 Water, and applicable Carry-Over Credits and Recharge Rights; and against each Class B
25 Participant for pumping in excess of its 1995-99 average production, i.e., its Base Production
26 Right. The rate of such assessments shall be determined by the Watermaster and shall be used
27 for Replenishment Expenses.
28

1 **1.32 Replenishment Expenses** – Watermaster expenses, including, but not
2 limited to, the acquisition of Supplemental Water supplies, development of In-Lieu Water
3 projects, acquisition or improvement of land, and for the construction, maintenance and
4 operation of facilities necessary to replenish Groundwater in the Management Area, or otherwise
5 to provide water to Parties within the Management Area.

6 **1.33 Safe Yield** – the long term, average quantity of water supply in the
7 Management Area that can be pumped without causing undesirable results, including the gradual
8 reduction of natural Groundwater in storage over long-term hydrologic cycles. The initial Safe
9 Yield of the Management Area is estimated to be approximately 45,000 acre feet per year.

10 **1.34 Settlement Agreement** – that Agreement titled “The Soboba Band of
11 Luiseño Indians Settlement Agreement” among the Soboba Tribe, the United States, as Trustee
12 for the Tribe, Eastern Municipal Water District, Lake Hemet Municipal Water District, and The
13 Metropolitan Water District of Southern California.

14 **1.35 Soboba Tribe (sometimes the “Tribe”)** – the Soboba Band of Luiseño
15 Indians.

16 **1.36 Soboba Action** – the lawsuit entitled Soboba Band of Mission Indians,
17 etc., v. Metropolitan, etc., et al, U.S. District Court, Central District of California, Case No.
18 00-84208 GAF (MANx).

19 **1.37 Storage Agreement** – an agreement between Watermaster and a Party to
20 store Supplemental Water (other than a Party’s share of Imported Water) by sinking, spreading,
21 injecting or in-lieu procedures in the Management Area, and to establish a manner of accounting
22 for the credit therefore and subsequently to recover such water, without payment of
23 Administrative or Replenishment Assessments.

24 **1.38 Storage Right** – a Party's right to store and pump Supplemental Water
25 (not required for a Party’s share of Imported Water) pursuant to a Storage Agreement.

26 **1.39 Stored Water** – Supplemental Water (other than a Party’s share of
27 Imported Water) stored by a Party pursuant to a Storage Agreement.
28

1 **1.40 Supplemental Water** – nontributary water imported into the Management
2 Area, including imported water (i.e., other than or in addition to Imported Water as defined in
3 Section 1.14), Recycled Water, In-Lieu Water, and other nonpotable water.

4 **1.41 Surface Water** – all water tributary to the Management Area and flowing
5 above the ground surface.

6 **1.42 Transfer** – a temporary or permanent authorized conveyance, assignment,
7 sale, contract or lease of part or all of a Public Agency’s Carry-Over Credit, Storage Right or
8 Recharge Right to any other Party, or a temporary assignment, contract, lease or sale of a Public
9 Agency’s share of Imported Water.

10 **1.43 Tribal Water Rights** – the Soboba Tribe’s rights to water set forth in
11 Section 4.1 of the Settlement Agreement and Section 5 of this Stipulated Judgment.

12 **1.44 Tunnel** – the San Jacinto Tunnel in Riverside County, California,
13 constructed by Metropolitan in the 1930s.

14 **1.45 Watermaster** – the Board with the powers and duties defined in Section
15 9.

16 **1.46 Water Management Plan** (sometimes the “Plan”) – the Plan adopted by
17 the Watermaster, as it may be modified from time to time, to implement the Physical Solution, to
18 ensure an adequate and reliable source of future water supply for the Management Area, and to
19 protect the prior rights of the Soboba Tribe.

20 **2. EXHIBITS.**

21 The following exhibits are attached to this Judgment and incorporated in it:

22 “A.” Map of the Management Area and the Management Area Watershed.

23 “B.” List of Parties to this Judgment.

24 “C.” Description of each Public Agency’s and Class A and Class B Participant’s
25 Base Production Right.

1 **3. PUBLIC AGENCIES' WATER RIGHTS.**

2 **3.1 Base Production Right.** The Public Agencies are owners of rights to
3 pump Groundwater from the Management Area as set forth in Exhibit "C." These rights are for
4 a calendar year and were calculated as follows:

5 **3.1.1 Eastern.** The Base Production Right of Eastern is based upon its
6 respective average pumping for calendar years 1995-1999, less an adjustment of 1800 acre-feet
7 representing a portion of a credit which it receives from Metropolitan for seepage into
8 Metropolitan's San Jacinto Tunnel, for Eastern's use of Fruitvale water elsewhere, and for use of
9 Fruitvale water by Lake Hemet, San Jacinto, and Hemet. The 1995-1999 period was chosen to
10 reflect recent production prior to the commencement of negotiations leading to this Stipulated
11 Judgment.

12 **3.1.2 Lake Hemet.** The Base Production Right of Lake Hemet is based
13 on its average production for calendar years 1995-1999.

14 **3.1.3 Hemet.** The Base Production Right of Hemet is based on its
15 average production for calendar years 1995-99, plus an adjustment of 900 acre feet per year
16 representing a portion of the seepage credit referenced in Section 3.1.1.

17 **3.1.4 San Jacinto.** The Base Production Right of San Jacinto is based
18 upon its average Production for calendar years 1995-1999, plus 500 acre-feet per year, and plus
19 an adjustment of 900 acre feet per year representing a portion of the seepage credit referenced in
20 Section 3.1.1. The 500 acre-feet per year has been added because San Jacinto's recent pumping
21 does not reflect its historic production, due to water purchases and other factors.

22 **3.1.5 Adjustments.** The Base Production Rights of Hemet and San
23 Jacinto each include 900 acre-feet per year that have been added to their respective amounts of
24 pumping for calendar years 1995-1999. These amounts have been added to provide Hemet and
25 San Jacinto a fair share of water from, and to resolve disputes regarding, Eastern's use of tunnel
26 seepage, Eastern's use of Fruitvale waters, and Lake Hemet's surface stream diversions. These
27 additional amounts of 900 acre-feet per year shall be treated as the first amounts pumped by
28 Hemet and San Jacinto, shall not be subject to reduction by the Watermaster as provided in

1 Sections 3.2 to 3.2.2, and shall not be subject to any Administrative or Replenishment
2 Assessments as provided in Sections 3.4 to 3.4.2, or to any other fee or charge imposed under the
3 Management Plan.

4 **3.2 Adjusted Production Rights.** It is the goal of the Physical Solution to
5 adjust the Base Production Rights of the Public Agencies over time on a pro-rata basis to a level
6 consistent with the Watermaster's determination of Safe Yield. The reduction will be based on
7 periodic demand, hydrology, Recharge, and the community's ability to pay for Supplemental
8 Water, and protection of the Tribal Water Rights. In order to implement this reduction in a
9 phased manner, each Public Agency's Base Production Right shall be subject to adjustment as
10 follows:

11 3.2.1 Subject to Section 3.1.5, a 10% reduction from each Base
12 Production Right in the first full year after entry of this Judgment.

13 3.2.2 Until Adjusted Production Rights are consistent with the Public
14 Agencies' share of Safe Yield, Watermaster shall determine the required reductions in Adjusted
15 Production Rights in each subsequent year to achieve Safe Yield within a reasonable period of
16 time as determined by the Watermaster, considering the extent of the Overdraft, the economic
17 impact on the Parties bound by this Judgment, and other relevant factors. The goal is to achieve
18 Safe Yield over a six (6) year period assuming an annual Overdraft of 10,000 acre feet. In the
19 event the extent of the Overdraft is greater or lesser than assumed, then the period of time
20 reasonably required to reach Safe Yield may be extended or reduced accordingly. However, in
21 no event shall any reduction be more than 10% of the Adjusted Production Rights of the prior
22 year.

23 3.2.3 A Public Agency Party may pump in excess of its Adjusted
24 Production Right, without any additional Administrative or Replenishment Assessment, by an
25 amount equal to its share of the 7,500 acre feet per year of Imported Water that is not used by the
26 Tribe provided such water has been previously delivered and is stored or will be delivered during
27 the current water year. The amount of the Tribe's unused portion of the 7,500 acre feet shall be
28 determined annually by the Watermaster. Shares of unused Imported Water shall be allotted to

1 the Public Agency Parties in proportion to Base Production Rights, and shall be acquired and
2 paid for pursuant to contract with Eastern.

3 3.2.4 A Base Production Right of a Public Agency serving the land of a
4 Class B Participant shall be increased in an amount equal to such Participant's Base Production
5 Right, adjusted and reduced pursuant to Sections 3.2.1 and 3.2.2, when the Participant's land is
6 converted from agricultural use to water service from the Public Agency, pursuant to Section
7 4.4.3.

8 3.2.5 The Adjusted Production Rights of the Public Agencies may be
9 increased by the Watermaster on a prorata basis to the extent that pumping by Class A
10 participants, or pumping by Persons not Parties to this Judgment, may decrease, and the
11 Watermaster finds that achieving the goal of maintaining the Management Area in a Safe Yield
12 condition can still be met.

13 **3.3 Allocation of Unused Imported Water.** A Public Agency's share of
14 Imported Water that is not used by the Soboba Tribe, as described in Section 3.2.3 shall be
15 subject to the following additional rules:

16 3.3.1 To the extent that a Public Agency does not use all of its share of
17 the Imported Water, the unused portion may be stored for its account for future use or transfer by
18 the Public Agency.

19 3.3.2 A Public Agency may lease, sell or otherwise transfer any portion
20 of the Public Agency's stored Imported Water or of the then current year's share of the Imported
21 Water to another Public Agency or to the Watermaster.

22 **3.4 Public Agency Production Assessments.** Public Agency pumping shall
23 be subject to the following assessments:

24 3.4.1 An Administrative Assessment as provided in Section 1.2. The
25 Administrative Assessment will be \$50.00 per acre-foot of a Party's Adjusted Production Right
26 pumped after entry of this Judgment. The Watermaster shall set the Administrative Assessment
27 rate annually thereafter. The first 900 acre feet per year of Adjusted Production Right pumped
28

1 by Hemet and San Jacinto and water pumped by a Public Agency pursuant to Section 3.4 above
2 shall not be subject to such assessment.

3 3.4.2 A Replenishment Assessment will be levied on each Public
4 Agency as provided in Section 1.31. However, a Public Agency may pump Groundwater in
5 excess of the sum of its Adjusted Production Right, its share of Imported Water, Supplemental
6 Water applicable Carry-Over Credits per Section 6.9.2, Recharge Rights, and production of
7 Stored Water, in order to meet increasing demands, provided that such excess extractions shall
8 be subject to Replenishment Assessments.

9 **3.5 Surface Rights.** Eastern holds License Number 016667 from the State
10 Water Resources Control Board to divert, spread and recover surface flows of the San Jacinto
11 River within the Management Area. Lake Hemet holds pre-1914 appropriative rights to divert
12 and store surface flows in Lake Hemet, and to divert surface flows tributary to but outside of the
13 Management Area from Strawberry Creek and from the North and South Forks of the San
14 Jacinto River. All Parties acknowledge such Eastern and Lake Hemet rights, and the fact that
15 they are not subject to any assessments under this Judgment; provided that any water pumped by
16 Eastern under its License shall be included in its Adjusted Production Right.

17 **3.6 Fruitvale Judgment, Sale of Assets, and Agreements.** The Court
18 hereby finds that Eastern purchased all of the water rights and assets of the Fruitvale Mutual
19 Water Company (“Fruitvale”) pursuant to the Agreement described in Section 1.11(b) hereof,
20 and is now the owner thereof. Eastern, as the successor in interest to Fruitvale, is also a
21 defendant in the action described in Section 1.11(a) hereof. The Court finds that the only other
22 remaining Party in such action is the plaintiff City of San Jacinto. The Court retained continuing
23 jurisdiction in such action, and Eastern has made annual reports pursuant to the Fruitvale
24 Judgment. Pursuant to stipulation between Eastern and San Jacinto, and in accord with the
25 Physical Solution and terms of this Judgment, the Court hereby finds that the rights and
26 obligations of the Fruitvale Judgment have been subsumed in, and superseded by, this Judgment
27 and are no longer enforceable; that the limitations upon the place and amounts of water use in the
28 Fruitvale Judgment, the Purchase Agreement (including the provisions regarding domestic water

1 rates within the Fruitvale Improvement District) and the Agency Agreements, all described in
2 Sections 1.11(a), (b) and (c) are no longer applicable or enforceable; and that the continuing
3 jurisdiction of the Court under the Fruitvale Judgment and the obligations of Eastern to report
4 thereunder, are hereby terminated; provided, however, that any service area agreements or
5 agreements related to mutual aid or system interties between any of the Public Agency Parties
6 are not affected by this Judgment.

7 **3.7 Fruitvale Agency Rights.** The water rights of Hemet, San Jacinto and
8 Lake Hemet under the several agreements with Eastern described in Section 1.11(c) hereof have
9 been incorporated in their respective Base Production Rights under this Judgment.

10 **4. PRIVATE PUMPERS' WATER RIGHTS**

11 **4.1 Recognition of Rights.** The Private Pumpers are owners of Overlying or
12 other water rights to pump from the Management Area. The Public Agencies recognize these
13 rights, and do not intend to take or adversely impact these rights without an agreement with the
14 owner of such rights. There is no intent to affect water use that is consistent with the historical
15 use of the Private Pumpers.

16 **4.2 Non-Participation.** A Private Pumper can elect not to participate in the
17 Water Management Plan and not to formally acknowledge its existence. Such Pumpers are
18 referred to as Non-Participants. Non-Participants shall continue to exercise whatever water
19 rights they may hold under California law unaffected by the Plan. However, the Parties do not
20 waive their rights to challenge any new or expanded use of water or water rights. Non-
21 Participants will not have the option of intervening as a Party under the Judgment at a later date.

22 **4.3 Class A Participation.** A Private Pumper can become a Party to the
23 Judgment as a Class A Participant under the following terms:

24 4.3.1 A Class A Participant who or which approves this Physical
25 Solution may vote for and/or be elected to serve as the Private Pumper representative on the
26 Watermaster, but other than as set forth in Sections 4.3.4 and 4.3.5, shall not otherwise have any
27 obligation for the implementation of the Physical Solution or the Water Management Plan.
28

1 4.3.2 A Class A Participant may, without any assessment by the
2 Watermaster, pump from the Participant's property within the Management Area the amount of
3 water that can be put to reasonable and beneficial use in the Participant's historic place of use or
4 as authorized under California law.

5 4.3.3 Unless the Watermaster determines otherwise, a Class A
6 Participant shall have the right to convert to Class B Participation during a grace period that shall
7 end 3 years after the entry of this Judgment and upon payment of the total assessments, without
8 interest, that the Class A Participant would have paid had the Class A Participant elected to be a
9 Class B Participant from the later of the initial production of Groundwater or the entry of the
10 Judgment herein. Conversely, the converting Participant will be given Carry-Over Credits to
11 which the Participant would have been entitled as a Class B Participant during said period
12 pursuant to Section 6.9.2 below; said Carry-Over Credits may be used to offset any
13 replenishment assessments, including any that would become due following the conversion.

14 4.3.4 A Class A Participant hereby authorizes the installation of water
15 meters, and the collection and reading of Groundwater production, level and water quality data
16 from the Class A Participant's well(s) by personnel authorized by the Watermaster. The
17 metering, meter reading, and other related monitoring efforts shall be at no cost to the Class A
18 Participant, and the Class A Participant shall receive copies of the reports and information
19 obtained upon request.

20 4.3.5 A Class A Participant shall describe or otherwise identify the
21 Participant's land and wells within the Management Area. The heirs, successors and assigns of
22 such land and wells shall succeed to the benefits of the Participant's rights under the Judgment,
23 and be bound by the obligations thereof, provided that such successor intervenes as a Party under
24 the Judgment. Absent such intervention, the successor will be treated as a Non-Participant.

25 **4.4 Class B Participation.** A Private Pumper can become a Class B
26 Participant on the following terms:

27 4.4.1 A Class B Participant's Base Production Right shall be equal to the
28 Participant's average annual production during the calendar years 1995 through 1999, less any

1 4.4.2 The Class B Participant approves this Physical Solution and may
2 vote for and/or be elected to serve as the Private Pumper's representative on the Watermaster.

3 4.4.3 Upon conversion of a Class B Participant's land from agricultural
4 to a use that requires water service from a Public Agency, the Public Agency shall credit, to the
5 extent legally permissible, the Class B Participant's Base Production Right, adjusted pursuant to
6 the percentage reductions in Sections 3.2.1 and 3.2.2, against any requirement then in effect for
7 any water supply assessment requirements, against any fees associated with water supply that the
8 Public Agency may then have in effect. The Public Agency serving the converted land shall
9 receive a credit added to its Base Production Right as set forth in Section 3.2.4.

10 4.4.4 Upon the sale of property to which or for which Base Production
11 Rights have been assigned by reason of the judgment herein, the Class B Participant may transfer
12 said rights to the purchaser on condition that the purchaser agrees in writing to be bound by the
13 terms of the judgment as a Class B Participant.

14 4.4.5 The Class B Participant hereby authorizes the installation of meters
15 and the collection and reading of Groundwater production, water level and water quality data
16 from the Class B Participant's well(s) by personnel authorized by the Watermaster. The
17 metering, meter reading and other related monitoring efforts shall be at no cost to the Class B
18 Participant, and the Class B Participant shall receive copies of the reports and information
19 obtained upon request.

20 4.4.6 A Class B Participant shall describe or otherwise identify the
21 Participant's land and wells within the Management Area. The heirs, successors and assigns of
22 such land and wells shall succeed to the benefits of the Participant's rights under the Judgment,
23 and be bound by the obligations thereof, provided that such successor intervenes as a Party under
24 the Judgment. Absent such intervention, the successor will be treated as a Non-Participant. A
25 Class B Participant may transfer Base Production Rights to new or replacement land on terms
26 and conditions established by the Watermaster.

27 **4.5 In-Lieu Water Use.** In the event any Private Pumper receives
28 Supplemental Water from a Public Agency to serve an historic use in place of Groundwater, or

1 otherwise engages in an in-lieu program after entry of the Judgment herein, the Overlying Right
2 of the Private Pumper shall not be diminished by the receipt and use of such Supplemental Water
3 or by engaging in an in-lieu program. In the event a Class B Participant received In-Lieu Water
4 for use in place of Groundwater during the period 1995-99, for purposes of determining Base
5 Production Rights, said use shall be considered as Groundwater use.

6 **4.6 Future Production Participation.** Any New Pumper after the entry of
7 this Judgment may intervene in this action and Judgment only as a Class A Participant and may
8 not thereafter convert to Class B status.

9 **4.7 Replacement Wells.** Re-drilling of existing wells and the drilling of new
10 wells to replace existing wells will not be considered new production as provided in Section 4.6.

11 **5. TRIBAL WATER RIGHTS**

12 The Tribal Water Rights have been determined as part of a settlement among the
13 Soboba Tribe, the United States, Eastern, Lake Hemet and Metropolitan. The settlement is
14 reflected in a Settlement Agreement, Congressional legislation and appropriation of funds, and a
15 Judgment in the Soboba Action. Such settlement includes the following provisions, which shall
16 be effective only upon fulfillment of all of the conditions precedent set forth in Article 3 of the
17 Settlement Agreement, a copy of which is attached hereto.

18 **5.1 Senior Right.** The Soboba Tribe shall have a prior and paramount right,
19 superior to all others, to pump 9000 acre-feet per year (3000 acre feet from the Canyon Subbasin
20 and the remainder from a portion of the San Jacinto Upper Pressure Subbasin referred to as the
21 Intake Subbasin), for use on the Reservation, as defined in Article 2.20 of the Settlement
22 Agreement, and on lands now owned or hereafter acquired by the Soboba Tribe contiguous to the
23 Reservation or within the Canyon and Intake Subbasins; provided, however, that such use shall
24 be limited to amounts set forth in a development schedule from 2,900 acre feet per year to 4,100
25 acre-feet per year for the first 50 years after the Effective Date as set forth in Exhibit "I" to the
26 Settlement Agreement. The Tribe's right to pump applies to all Groundwater, whether
27 replenished by Natural Recharge or by Supplemental Water. In addition, the Tribe shall have the
28 right to purchase additional water from the Watermaster during the fifty years that its use is

1 limited according to Exhibit "T" to the Settlement Agreement at the rate then being charged to the
2 Public Agencies under the Water Management Plan. In the event the Soboba Tribe is unable,
3 except for mechanical failure of its wells, pumps or water facilities, to produce from its existing
4 wells or equivalent replacements up to 3,000 AFA production from the Canyon Subbasin and the
5 remainder of its Tribal Water Rights from the Intake Subbasin, Eastern and Lake Hemet shall
6 deliver any shortage to the Soboba Tribe as provided in Section 4.1C of the Settlement
7 Agreement. Pumping for such purpose shall not be subject to Administrative or Replenishment
8 Assessments, and shall not be counted as part of Adjusted Production Rights.

9 **5.2 Metropolitan Water.** The Soboba settlement provides, among other
10 matters, that Metropolitan will use its best efforts to deliver sufficient Imported Water to yield
11 7,500 acre-feet per year, based upon 15 year averages, for Recharge in the Management Area at
12 its untreated replenishment water rate, or any successor rate of equivalent price as provided in
13 Section 4.4A of the Settlement Agreement.

14 **5.3 Settlement Payment.** Subject to the Effective Date of the Settlement
15 Agreement and funding by the United States, Eastern pursuant to the terms set forth in the Water
16 Management Plan, will pay the Soboba Tribe \$17 million dollars pursuant to Article 4.7A of the
17 Settlement Agreement in consideration, in part, of the Tribe's agreement to limit its water use
18 according to Exhibit "T" to the Settlement Agreement for the first 50 years after the Effective
19 Date. Subject to contracts with Eastern, the Public Agencies shall have the right to pump and
20 use all Imported Water not used by the Tribe, and the unused portion of the Tribal Water Rights
21 shall be available for use by the Parties, pursuant to their rights herein.

22 **5.4 Capital Facilities.** Eastern on behalf of the Water Management Plan
23 participants will receive \$10 million from the United States, to be applied to the costs of
24 constructing and operating the Phase I capital facilities necessary to import and Recharge
25 Supplemental Water as described in the Plan.

26 **5.5 Public Agencies' Use of Facilities.** Additional grant funds from the State
27 of California or the United States may also be available for such capital facilities. The rights of
28

1 the Public Agencies to the use of such facilities will be affirmed by contract as set forth in
2 Sections 9.6.4(1) and 9.6.4(3).

3 **5.6 Acknowledgement of Soboba Tribe Settlement.** The Parties to this
4 Judgment hereby recognize the Tribal Water Rights, as set forth above, and the applicable
5 provisions of the Soboba Tribe Settlement Agreement, and acknowledge that protection of Tribal
6 Water Rights is one of the goals of the Water Management Plan.

7 **6. PHYSICAL SOLUTION.**

8 **6.1 Purpose and Objective.** Pursuant to California water law and the
9 California Constitution, article X, section 2, the Court adopts this Physical Solution to maximize
10 reasonable beneficial use of Surface Water, Groundwater and Supplemental Water for water
11 users in or dependent upon the Management Area, to eliminate Overdraft, to protect the prior
12 rights of the Soboba Tribe, and to provide the Parties with the substantial enjoyment of their
13 respective rights, including, the priorities thereof.

14 **6.2 Need for Flexibility.** In order to adapt to potential changes in hydrology,
15 land use, and social and economic conditions, the Physical Solution must provide some degree of
16 flexibility and adaptability. Accordingly, the Court retains broad jurisdiction to supplement the
17 discretion granted to the Watermaster herein.

18 **6.3 Rights to Groundwater.** Groundwater in the Management Area may
19 occur from: Natural Recharge; spreading operations of natural flows; Recharge with
20 Supplemental Water acquired with assessment funds; return flows, fallowing or in-lieu recharge
21 programs financed with assessment funds. All such Groundwater shall be available to support
22 the pumping of the Parties as allowed herein, and shall not be the property of any individual
23 Party. Subject to the provisions of Section 6.7.2, this Section does not preclude any Party,
24 pursuant to a Storage Agreement, from storing Supplemental Water at its own cost, retaining
25 title thereto, and pumping such water without assessment.

26 **6.4 Resolution of Priorities.** By reason of the long and continuous Overdraft
27 of the Management Area, the contribution of all Parties to the Overdraft, the economies that have
28 developed on the basis of the Overdraft, the severe economic disruption that could occur under

1 strict priorities and the doctrines of prescription and laches, the complexity of determining
2 appropriative priorities, and the need to make the maximum beneficial use of the water resources
3 of the State, the Parties are estopped and barred from asserting specific priorities or preferences
4 to the pumping of Groundwater in the Management Area, except as provided in this Judgment,
5 and the Court finds that the provisions of this Judgment provide for the substantial enjoyment of
6 the respective rights of the Parties.

7 **6.5 Water Management Plan.** The Watermaster will approve and implement
8 a Water Management Plan to enforce and implement the Physical Solution, and may modify
9 such Plan as conditions require, subject to the provisions of the Settlement Agreement. The Plan
10 will also facilitate and accommodate the settlement of the water rights of the Soboba Tribe, and
11 shall be subject to the approval of the Soboba Tribe and the United States as trustee for the Tribe.
12 The Parties agree that the Plan shall incorporate and serve to implement the following goals:

13 6.5.1 Groundwater levels within the Management Area have generally
14 been declining for a number of years, and the Management Area is presently in a condition of
15 Overdraft. The Watermaster shall calculate the Safe Yield of the Management Area on an
16 annual basis, at least until the Overdraft is substantially eliminated. The Plan will, within a
17 reasonable period, eliminate Groundwater Overdraft and provide for excess production by
18 implementing a combination of available water resources management elements. These
19 elements include: reduction in natural Groundwater production; enhanced Recharge with native
20 and/or Supplemental Water; increased use of Recycled Water; in-lieu replenishment; acquisition
21 and development of Supplemental Water; and water conservation programs.

22 6.5.2 The Management Area is expected to experience residential,
23 commercial, and industrial growth and development over the next decade. The estimated
24 amount of Supplemental Water that will be necessary to provide for and adequately serve this
25 new growth and development is 15,000 acre feet per year. The Water Management Plan shall
26 accommodate the orderly expansion of existing water production and service systems, and
27 provide a clear planning process for meeting these projected growth trends.

28

1 Area water resources, and to compile and analyze data on Groundwater production, water levels,
2 water quality and Groundwater in storage.

3 **6.6 Replenishment Program.** The Groundwater replenishment program shall
4 be administered by the Watermaster. The program shall include: the acquisition of Supplemental
5 Water; the collection and expenditure of Replenishment Assessments; the Recharge of the
6 Management Area; and the construction and operation of all necessary facilities, including but
7 not limited to, development of surface and subsurface percolation and injection facilities. In
8 addition, a source of Recharge Water for agencies contributing to the Settlement Payment
9 described in Section 5.3 will be Imported Water provided by Metropolitan under the Settlement
10 Agreement, and not used by the Soboba Tribe.

11 6.6.1 Priority for replenishment will be based on an equitable
12 apportionment of available replenishment water among the subbasins after full consideration of:

13 6.6.1.1 The Public Agency's participation in the payment in the
14 Settlement Payment described in Section 5.3.

15 6.6.1.2 Hydrologic conditions in the Management Area.

16 6.6.1.3 The Management Area's Water demands.

17 6.6.1.4 The availability of storage capacity to accommodate the
18 Natural Recharge of surface flows.

19 6.6.1.5 The availability of appropriate conveyance facilities.

20 6.6.1.6 The availability of Supplemental Water,

21 6.6.1.7 Protection of Tribal Water Rights.

22 6.6.2 The Watermaster is encouraged to take advantage of surplus
23 Imported Water from Metropolitan that occasionally may be available at low cost, and to use
24 available assessment funds to bank such Recharge Water against future production in excess of
25 Adjusted Production Rights.

26 6.6.3 The Public Agencies shall independently or jointly operate their
27 present facilities to maximize the existing spreading and Recharge operations of natural flow in
28

1 the Management Area. Such Recharge Water shall be available to support the pumping of all
2 users, and shall not be the property of the spreading Public Agency.

3 6.6.4 All water used to replenish any subbasin in the Management Area
4 shall meet the Regional Water Quality Control Board, Santa Ana Region requirements, and the
5 provisions of Article 4.2 of the Settlement Agreement, and may be used in any subbasin where
6 such requirements are met.

7 **6.7 Storage Rights.** Unused storage capacity may exist in the Management
8 Area, and this capacity will be managed by the Watermaster conjunctively with natural and
9 available Supplemental Water supplies.

10 6.7.1 Subject to availability of assessment funds and unused storage
11 capacity as determined by Watermaster, the Management Area may be Recharged when water is
12 available, to be drawn upon by the Public Agencies in later years when such Supplemental Water
13 may not be available.

14 6.7.2 Unused storage capacity, as determined by Watermaster, and
15 pursuant to a Storage Agreement, may be used for “put and take” operations with Supplemental
16 Water that is paid for by any Public Agency provided that:

17 6.7.2.1 Such operations do not interfere with the rights of any
18 other pumper, or with the use of the storage capacity for Recharge and storage under the Water
19 Management Plan.

20 6.7.2.2 The Watermaster shall have the first right to purchase any
21 water available for Recharge for use under the Plan.

22 6.7.2.3 Later recovery of Stored Water shall exclude losses, and shall not be subject to
23 either Administrative or Replenishment Assessments.

24 6.7.2.4 Such recovered water may be used anywhere within the
25 service area of the Party.

26 6.7.2.5 Such Stored Water may be transferred while still in
27 storage.
28

1 6.7.3 Any conjunctive use programs within the Management Area for
2 the benefit of territory outside of the Management Area shall be subject to the Watermaster's
3 approval and the governance provisions herein. Any storage, conjunctive use programs by third
4 Parties, or in-lieu recharge programs financed with assessment funds, shall be subject to the
5 Watermaster's approval and the governance provisions herein; provided that Metropolitan has
6 the right under the Soboba Settlement Agreement to use up to 40,000 acre-feet of storage
7 capacity in the San Jacinto Upper Pressure Subbasin for the pre-delivery of water required under
8 Section 5.2.

9 6.7.4 Eastern and Lake Hemet have previously provided water for
10 replenishment of the Management Area. As of May 1, 2005 these amounts, less losses, were
11 12,694 acre-feet for Eastern and 950 acre-feet for Lake Hemet. Such Parties shall have Recharge
12 Rights to recover these amounts, less any future losses, without either Administrative or
13 Replenishment Assessments, and may use such Rights to offset excess pumping in lieu of
14 Replenishment Assessments. The water available under such Recharge Rights shall be pumped
15 within 15 years of the entry of this Judgment, but not more than 2000 acre-feet in a single year.
16 The Public Agencies shall notify the Watermaster when such Recharged Water is being pumped,
17 and in what amounts, and the Watermaster shall keep an accounting of the amounts remaining.
18 The use of such credits shall be interpreted and administered so as not to increase the
19 replenishment obligations or assessments of those Parties without such past credits, or after such
20 credits have been fully used.

21 6.7.5 The accounting for recovery of Stored Water or Recharge Water
22 from the Management Area shall not include any water that escapes therefrom and migrates
23 downstream beyond the Management Area. Losses will be calculated based upon best
24 engineering principles.

25 **6.8 Recycled Water.** The use of Recycled Water produced by Eastern can be
26 of substantial benefit in providing additional water in the Management Area. The Watermaster
27 shall have a right of first refusal to purchase all Recycled Water produced from treatment
28

1 facilities serving the Management Area that is not subject to then existing contracts. Such
2 Recycled Water may be used for Recharge or direct use within the Management Area.

3 6.8.1 Each Public Agency may implement its own Recycled Water
4 program, for direct use, subject to the availability of Recycled Water. The Public Agency shall
5 be responsible for financing, operating and maintaining the facilities necessary for that program.
6 The Watermaster will support loan or grant applications, and the Public Agencies will work to
7 integrate Recycled Water into the Water Management Plan, to the extent economically feasible
8 while meeting regulatory standards.

9 6.8.2 Currently only Eastern has Recycled Water available for Recharge.
10 To the extent such Recycled Water is not acquired by the Watermaster for use under the Plan,
11 any such water recharged in the Management Area shall remain the property of Eastern and may
12 be pumped (less losses) without Replenishment Assessments.

13 **6.9 Assessment Program.** The Assessment Program contemplated by the
14 Water Management Plan and consisting of Administrative Assessments and Replenishment
15 Assessments as described in Sections 1.2, 1.30, and 3.4, respectively, shall be administered by
16 Eastern pursuant to a contract with the Watermaster pursuant to the provisions of Section
17 9.6.4(5).

18 6.9.1 All Assessments shall be used for Replenishment Expenses and
19 Administrative Expenses.

20 6.9.2 Subject to the limitations in this Judgment, each Public Agency
21 that produces less than its Adjusted Production Right and share of Imported Water, and any
22 Class B Participant producing less than its Base Production Right, shall have the following
23 Carry-Over Credit:

24 6.9.2.1 Carry-Over Credit shall be the difference in acre-feet
25 between a Public Agency's Adjusted Production Right and share of Imported Water and
26 Supplemental Water, and the Public Agency's actual production in a calendar year, or the Class
27 B Participant's Base Production Right and the Class B Participant's actual production in a
28 calendar year.

1 be owned and operated by Eastern, pursuant to the Plan and in a fiduciary capacity for the benefit
2 of all Parties under this Judgment, pursuant to Sections 5.4; 9.6.4(1); 9.6.4(3).

3 6.11.1 Financing of Water Management Plan facilities may be funded by
4 assessments, regional capital fees, loans and grants, contributions for Storage Rights by
5 Metropolitan or other third-parties, and municipal bonds. Responsibility for the costs of future
6 capital facilities necessary to implement the Plan, beyond the Phase I facilities, shall be
7 determined by the Watermaster and apportioned based on relative benefit to be derived by each
8 Public Agency.

9 6.11.2 Any of the participating Public Agencies may propose projects to
10 be included in the Water Management Plan to increase the Management Area water supply.
11 Such proposals, after evaluation by the Watermaster, shall be included or rejected. If the
12 Watermaster chooses to reject the proposal, the proposing Public Agency may implement the
13 rejected project at its own cost so long as it does not significantly impact the implementation of
14 the Management Plan and/or interfere with the ongoing production by the Public Agencies.

15 **7. INJUNCTION.**

16 Each Party and his, her or its officers, agents, employees, successors and assigns,
17 is enjoined and restrained from:

18 7.1 Producing water from the Management Area without payment of required
19 Administrative Assessments.

20 7.2 Producing water from the Management Area in excess of the Party's
21 Adjusted Production Right and share of Imported Water, or the Base Production Right in the
22 case of a Class B Participant, without payment of required Replenishment Assessments.

23 7.3 Transferring Production Rights except as authorized in this Judgment.

24 7.4 Recharging water in the Management Area except as authorized in this
25 Judgment.

26 7.5 Storing or exporting water except as authorized in this Judgment.
27
28

1 **8. CONTINUING JURISDICTION.**

2 **8.1 Full Jurisdiction.** Full jurisdiction, power and authority is reserved to the
3 Court as to all matters contained in this Judgment, including expedited intervention by
4 successors in interest to Private Pumpers, except:

5 8.1.1 To redetermine Base Production Rights of the Public Agencies or
6 Class B Participants.

7 8.1.2 As otherwise limited by law.

8 **8.2 Motion to Interpret.** By motion to the Court, upon 30 days written
9 notice and after hearing, any Party or Watermaster may request the Court to make such further or
10 supplemental orders to interpret, enforce, carry-out or amend this Judgment. Any such motion
11 shall be reviewed de novo by the Court. Any such motion shall be served on all Parties and
12 Watermaster at the addresses on the Watermaster's notice list.

13 **9. WATERMASTER.**

14 **9.1 Composition.** The Watermaster shall consist of a board composed of one
15 elected official and one alternate selected by each of the Public Agencies and one Private
16 Pumper representative and one alternate selected by the Class A and Class B Private Pumpers.

17 **9.2 Terms.** Each member of the Watermaster shall serve until replaced by the
18 Public Agency or Private Pumpers that made the original appointment, provided, however, that
19 the election or removal of a Private Pumper representative shall be decided by a majority vote of
20 the Class A and Class B Participants attending a meeting called for that purpose by written notice
21 sent to each Class A and Class B Participant or their successors, by U. S. mail or electronic mail
22 at least ten (10) days before such meeting. Said notice shall include the date, time and location
23 of the meeting.

24 **9.3 Removal and Replacement.** Any Watermaster member may be removed
25 and replaced by the same procedure used in his or her appointment.

26 **9.4 Voting.** Each member of the Watermaster shall have one vote. Four
27 affirmative votes shall be required in order to constitute Watermaster action on each of the
28 following matters. (1) any change sought in the form of governance; (2) any change in voting

1 requirements; (3) retaining the services of legal counsel and Advisor; (4) establishing, levying,
2 increasing or decreasing all assessment amounts; (5) adopting or amending an annual budget; (6)
3 determining the extent of Overdraft and quantifying Safe Yield; (7) determining Adjusted
4 Production Rights; (8) decisions regarding the financing of Supplemental Water or facilities,
5 other than any financing provisions included in this Stipulated Judgment as provided in Sections
6 5.3, 5.4, 5.5 hereof; (9) decisions regarding ownership of facilities, other than ownership of the
7 Phase I facilities described in the Water Management Plan, which shall be owned by Eastern
8 Municipal Water District, subject to a right of use by those Parties participating in the financing
9 thereof; (10) policies for the management of the Management Area; (11) and any decision that
10 involves a substantial commitment by the Watermaster, including any contracts for conserved
11 water. All other actions by the Watermaster shall require three affirmative votes.

12 **9.5 Court Review.** Any action by the Watermaster, or any failure to act by
13 virtue of insufficient votes, may be reviewed by the Court on motion by any Party, with notice to
14 all other Parties. The Court's review shall be de novo, and the Court's decision shall constitute
15 action by the Watermaster.

16 **9.6 Powers and Duties.** In order to implement the provisions of this
17 Judgment, the Watermaster shall have the following duties and powers:

18 **9.6.1 Water Management Plan.** Watermaster shall develop and
19 implement a Water Management Plan, with such additions and modifications as may from time
20 to time be appropriate, and shall administer the provisions of this Judgment. The Water
21 Management Plan shall be subject to approval by the Court, by the Soboba Tribe, and by the
22 United States.

23 **9.6.2 Independent Counsel.** The Watermaster shall retain independent
24 legal counsel to provide such legal services as the Watermaster may direct.

25 **9.6.3 Advisor.** The Watermaster shall retain either an independent
26 engineering firm or qualified individual experienced in hydrology to evaluate and analyze the
27 data collected by Eastern, and any conclusions based thereon, and to make recommendations to
28 the Watermaster, referred to herein as "Advisor." The Advisor shall also provide general

1 coordination among Eastern, the Technical Advisory Committee and the Watermaster with
2 respect to their respective functions, and perform such executive functions as the Watermaster
3 may direct. The Watermaster reserves the right to refer any matter it may choose to any Person
4 it may select for assistance in carrying out its duties under this Judgment.

5 **9.6.4 Operations and Other Functions.**

6 **9.6.4.1 Operations – Phase I Facilities.** The Phase I Facilities
7 (including capital facilities and spreading basins, as more particularly defined in the Water
8 Management Plan) are either existing facilities of Eastern that will be expanded or improved as
9 part of the Water Management Plan, or are new facilities that will be integrated into Eastern’s
10 existing facilities and will be owned by Eastern. Pursuant to the terms and conditions of
11 contracts to be entered into between Eastern and the Watermaster, and Eastern and the other
12 Public Agencies, Eastern shall construct, install, and operate the Phase I Facilities consistent with
13 the Water Management Plan.

14 **9.6.4.2 Operations – Other Facilities.** The Water Management
15 Plan anticipates the need for the construction and installation of other facilities in order to
16 accomplish the goals of the Judgment. Such facilities may be constructed, installed and operated
17 under contract with the Watermaster, by a member of the Watermaster or, in circumstances
18 approved by the Watermaster, by other responsible entities.

19 **9.6.4.3 Purchase of Water for Groundwater Recharge.** The
20 Soboba settlement requires Metropolitan to use its best efforts to deliver an average of 7500
21 acre-feet per year of Imported Water for Recharge of the Management Area. This supply is
22 dedicated first to satisfy the rights of the Soboba Tribe as provided in the Settlement Agreement.
23 Such portion of the supply that is not used by the Soboba Tribe will be available to those Parties
24 who have participated in the cost thereof. Subject to the approval of the Watermaster, Eastern
25 shall enter into a contract with Metropolitan for the purchase and delivery of such Imported
26 Water supply. Eastern shall also purchase as a member agency of Metropolitan, or otherwise
27 acquire, such additional supplies of water as may be directed by the Watermaster to implement
28 the Water Management Plan, subject to availability and transmission capacity. All such water

1 delivered by Metropolitan, or otherwise acquired by Eastern, and all Eastern facilities used to
2 deliver, recharge and recapture such water, shall be subject to rights of use by the Parties entitled
3 thereto. Such rights of use shall be confirmed in detail in written contracts with Eastern.

4 Recycled water is also available for direct and indirect Groundwater Recharge from Eastern's
5 wastewater treatment facilities serving the Management Area. The Watermaster shall have a
6 right of first refusal to purchase all Recycled Water produced from such plants that is not subject
7 to then existing contracts. The Watermaster is authorized to use its funds, or funds provided by
8 the Parties, to purchase Imported Water, Supplemental Water, or other water.

9 **9.6.4.4 Data Collection.** The Watermaster shall provide for the
10 collection and maintenance of all production, water level, water quality, and other technical data
11 necessary under or required by the Water Management Plan ("Data"). Pursuant to the terms and
12 conditions of a contract to be entered into between Eastern and the Watermaster, Eastern shall
13 collect and maintain all such Data and transmit such Data to the Watermaster, its Advisor, and
14 the Technical Advisory Committee as directed by the Watermaster. The foregoing clause does
15 not restrict the ability of the Watermaster to enter into other agreements with other members of
16 the Watermaster and/or private firms and individuals for the collection of Data.

17 **9.6.4.5 Accounting.**

18 **9.6.4.5.1 Financial Accounting.** The Watermaster shall
19 provide for the levy, billing, and collection of all assessments provided for under the Judgment,
20 for the payment of costs and expenses of the Watermaster, and for the performance of such
21 accounting and related functions as may be required in connection with those functions
22 ("Accounting Functions"). All funds collected shall be held in a segregated account. All
23 expenses and disbursements shall be separately accounted for. Pursuant to the terms and
24 conditions of a contract to be entered into between Eastern and the Watermaster, Eastern shall
25 initially perform the Accounting Functions for Watermaster. The foregoing clause does not
26 restrict the ability of the Watermaster to enter into other agreements with other members of the
27 Watermaster and/or private firms and individuals to provide some or all of the Accounting
28 Functions.

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9.6.4.5.2 Water Use, Storage and Transfers. The

Watermaster shall account for all production by Class A and Class B Participants and Public Agencies using information reported or obtained for that purpose. The Watermaster shall also account for Carry-Over Credits, including the transfer thereof where authorized, and for the use and/or storage and/or transfers of Imported Water by Public Agencies.

9.6.5 Technical Advisory Committee. There has been a Technical

Advisory Committee that has functioned throughout the development of the Water Management Principles and Plan, and this Stipulated Judgment. That Committee has been composed of such managerial and technical representatives as the individual Parties decide to appoint. Each Party has paid the costs of its own representatives, and shall continue to do so in the future. The Technical Advisory Committee shall continue to function, and to provide such technical assistance as the Watermaster may request. The Technical Advisory Committee shall make recommendations to the Watermaster’s Advisor and to the Watermaster on all matters requiring four votes for Watermaster action, and shall receive from Eastern all data associated with such matters for its review and evaluation. The Technical Advisory Committee and its members shall also function as a way to keep the City Councils, Boards of Directors and participating Private Pumpers fully informed about the implementation of this Judgment.

9.6.6 Reservation of Rights. The Watermaster reserves the right to

assume, on its own, any functions set forth in Section 9.6.4, except as provided in Section 9.6.4(1), and to undertake all other acts required to implement the Plan and this Judgment, so long as it is legally capable of performing such functions. The Watermaster, if it should choose, may also act through or in conjunction with the other Public Agencies, or through a Joint Powers Agency composed of all the Public Agencies hereunder. Except as specifically provided in Section 9.6.4(1) with respect to Eastern’s facilities used in Phase I, the Watermaster shall have no right to use or acquire the water facilities of any of the Parties, without their consent, provided that it is the intent of the Parties that their individual facilities will be available where appropriate to implement the Water Management Plan, upon terms equitable to all Parties, and consistent with their respective obligations to their own customers.

1 **9.6.7 Rules and Regulations.** The Watermaster may make such rules
2 and regulations as may be necessary for its own operations as well as for the operation of the
3 Plan and this Judgment, subject to Court approval. Meetings of the Watermaster shall be subject
4 to the Brown Act .

5 **9.6.8 Reports to Court.** The Watermaster shall file annually with the
6 Court, and serve on all Parties, a report regarding its activities during the preceding year,
7 including an audited statement of all accounts and financial activities.

8 **9.6.9 Notice to Parties.** Watermaster shall maintain a current list of the
9 Parties and their addresses for notice purposes. Rules for service shall be governed by the
10 California Code of Civil Procedure and the California Rules of Court. Each Party shall notify
11 Watermaster in writing of the name and address for its receipt of notice and service under this
12 Judgment. A Party may change this information by written notice to Watermaster. Notice shall
13 be deemed sufficient if directed to the most recent address provided by the Watermaster.

14 **9.7 Watermaster Records.** Watermaster's records shall be kept at the office
15 of Eastern unless changed by the Watermaster and approved by the Court. These records shall
16 be treated as public records under the Public Records Act. California Government Code sections
17 6250-6277 (West 1995 and Supp. 2002).

18 **10. MISCELLANEOUS.**

19 **10.1 Intervention After Judgment.** A New Pumper can intervene in this
20 action as a Class A Participant only, pursuant to Section 4.6. Any other Person who is an heir,
21 successor or assign of an existing Party, may become a Party to this action and Judgment, subject
22 to the conditions contained herein, by filing a petition in intervention. The petition may be filed
23 and approved ex parte with notice to the Watermaster. Such intervener shall thereafter be a Party
24 bound by this Judgment, and entitled to the rights and privileges accorded under this Judgment to
25 the Party such Person succeeds in this action.

26 **10.2 Loss of Rights.** No right adjudicated in this Judgment shall be lost by
27 non-use, abandonment, forfeiture or otherwise, except upon a written election by the owner of
28 the right filed with Watermaster, or by order of the Court upon noticed motion and after hearing.

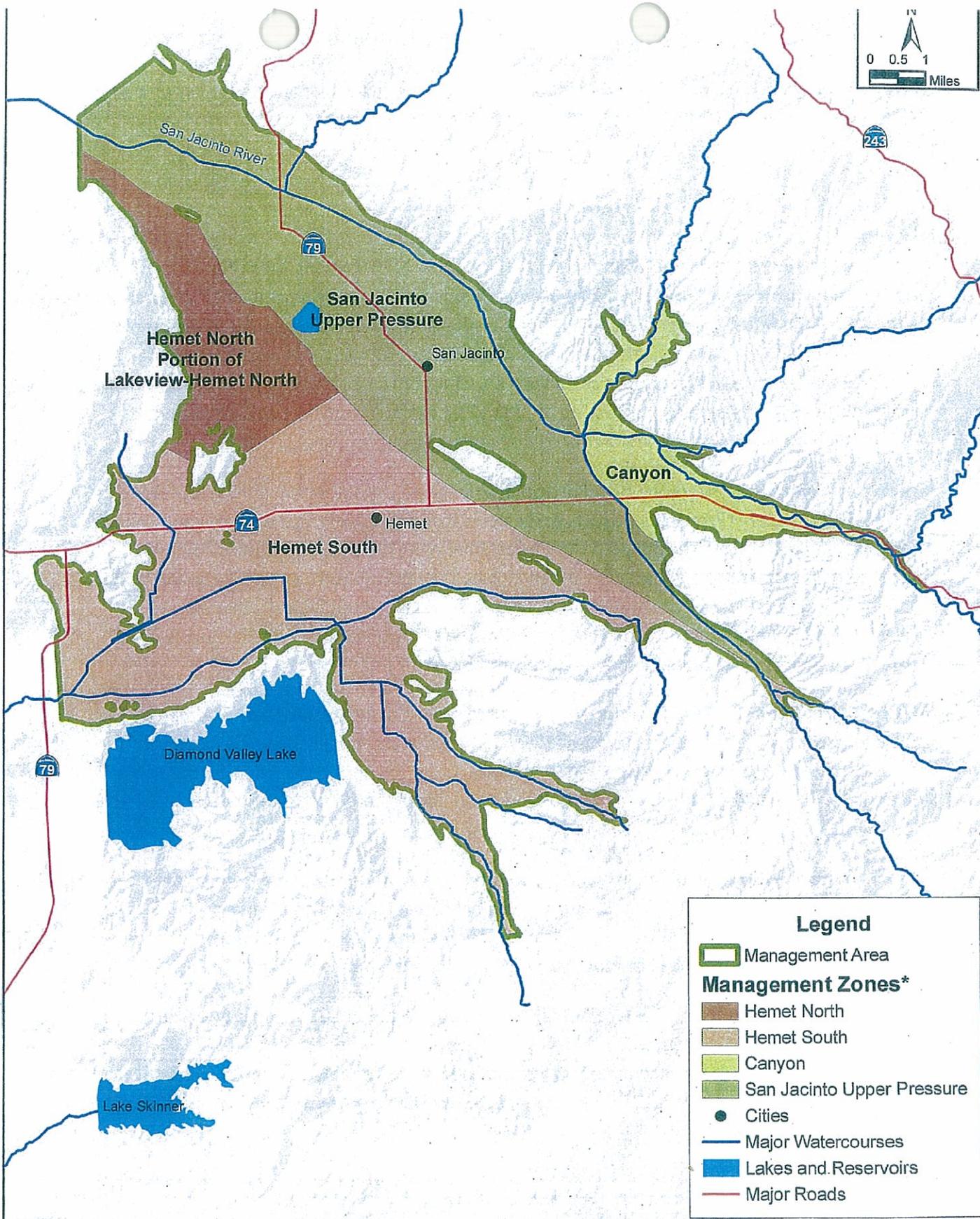
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10.3. Attorney's Fees and Costs. No Party shall recover any attorney's fees or costs in this proceeding from any Party.

DATED: 4/18, 201¹³/₂

M.P. PAULETTE D. BARKLEY
Commissioner, Superior Court of
~~California, Riverside County~~
JUDGE OF THE SUPERIOR COURT

EXHIBIT A



Management Area and Management Zones

Hemet / San Jacinto Water Management Plan

*Source: EMWD

July 2006

Figure 1.1

APPENDIX J

Eastern Municipal Water District 2015 Urban Water Management Plan



Public Draft

Urban Water Management Plan



2015 Update
May 2016





Eastern Municipal Water District 2015 Urban Water Management Plan

PUBLIC DRAFT

Prepared by



May 2016

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migrating into the Lakeview portion of the Lakeview/Hemet North Management Zone, which is an area of good quality groundwater. Lowering groundwater levels and removal of saline groundwater is an integral element of the WSJ Management Plan. To address these concerns, EMWD implemented a Groundwater Salinity Management Program. This program currently consists of two desalination facilities owned and operated by EMWD. These facilities recover high TDS groundwater from the Menifee and Perris South Management Zones, and the Lakeview portion of the Lakeview/Hemet North Management Zone, for potable use. In addition to being a source of potable water, the main role of the desalters is to play a part in managing the groundwater management zones by addressing the migration of brackish groundwater into areas of good quality groundwater.

Desalter wells pump water to an integrated brackish water system that delivers water to the desalination plants where it is treated prior to entering the distribution system. The Menifee Desalter was the first desalter to be built. This facility began producing potable water in 2003. The second desalter, the Perris I Desalter, is located next to the Menifee Desalter in Sun City. This plant began production in 2006 and has a production capacity of 10.5 CFS. Groundwater extraction for use in the desalter program has caused local declines in water levels to date; but the overall West San Jacinto Basin shows groundwater levels that continue to exhibit a stable or upward trend.

High iron and manganese concentrations along with silica irreversibly impact the desalter membranes and have resulted in several brackish groundwater extraction wells being offline. In 2004, an effort was initiated to evaluate alternative technologies for removal of iron and manganese prior to desalination. In late 2013, iron and manganese removal facilities were placed online and allowed EMWD to begin producing from four previously inactive wells. Around 9,000 AF of brackish groundwater was pumped in 2014 and 2015, which fed roughly 7,000 AF of potable water into the retail system, a significant increase over the 4,800 AF of potable water generated from the desalters in 2013.

EMWD has designed a third desalter, the Perris II Desalter, which will be located across the street from the existing desalters to the north. The Perris II Desalter is designed to have a capacity of 3.5 to 5.4 million gallons per day and is scheduled to be built in two phases, with the first coming online sometime in the 2020 to 2025 timeframe.

6.7 Wastewater and Recycled Water

EMWD provides wastewater collection, treatment, and recycled water services throughout its service area. Recycled water is extensively used in EMWD's service area to meet non-potable demands. The supply of recycled water will continue to increase with EMWD's population size (though it is also impacted by conservation measures). The four RWRFs that EMWD operate have recently completed expansions. Recycled water is currently used for both municipal and agricultural purposes. Municipal customers use recycled water for landscape irrigation and industrial process water. Agricultural customers use recycled water for irrigation of crops. A portion of agricultural demand for recycled water is provided in-lieu of using groundwater. Due in part to drier conditions and higher demands, EMWD has been able to meet its goal of eliminating discharges and using all of the recycled water available within EMWD for the past two years. Some of the recycled water use offsets demands of existing potable customers

6.7.1 Recycled Water Planning and Coordination

As a full-spectrum provider of water, wastewater collection, and treatment and recycled water services, EMWD has been active in developing local and regional plans for expanded water recycling in its service area. EMWD's first Recycled Water Facilities Master Plan was developed in 1990 and was formally updated in 2010. In 2009, EMWD completed a Recycled Water System Strategic Plan that provides guidelines for moving forward with recycled water projects. Information from the strategic plan was incorporated into the EMWD Integrated Resource Plan (IRP) to evaluate potential recycled water projects. EMWD is in the process of updating all three planning efforts with the development of its 2015

Recycled Water Strategic and Master Plan and its 2015 IRP. EMWD's local water recycling plan is also incorporated into the 2014 IRWM Plan developed by SAWPA for the Santa Ana River Watershed.

EMWD has worked closely with the Santa Ana Regional Water Quality Control Board in updating local basin plans and developing a long-term salinity management plan to support and ensure compliance with local basin objectives for salinity and nitrogen. EMWD is also participating in the development of a Total Maximum Daily Load analysis for impacted surface waters in the Santa Ana River Watershed.

EMWD is involved with a variety of local agencies and public interest groups in recycled water planning efforts and has coordinated these agencies as part of the development of this UWMP as explained in *Chapter 2 – Plan Preparation*. Table 6-6 lists agencies participating in recycled water planning.

Table 6-6: Recycled Water Coordinating Agencies

Group/Agency	Role
1) Santa Ana Watershed Project Authority	Regional Cooperative Planning
2) Santa Ana Regional Water Quality Control Board	Basin Planning / Salinity Management.
3) Rancho California Water District	Facility Planning / Market Development
4) West San Jacinto Groundwater Management Plan Advisory Board	Plan Review / Public Oversight
5) Hemet/San Jacinto Groundwater Management Plan Policy Committee (Cities of Hemet and San Jacinto, and Lake Hemet Municipal Water District)	Plan Review / Public Oversight
6) Elsinore Valley Municipal Water District	Facility Planning / Market Development
7) EMWD Recycled Water Advisory Committee	Plan Review / Public Oversight
8) San Jacinto Watershed Council	Plan Review / Public Oversight
9) Lake Elsinore/San Jacinto Watershed Authority	Plan Review / Water Quality
10) Metropolitan Water District of Southern California	Regional Urban Water Mgmt. Planning / Funding

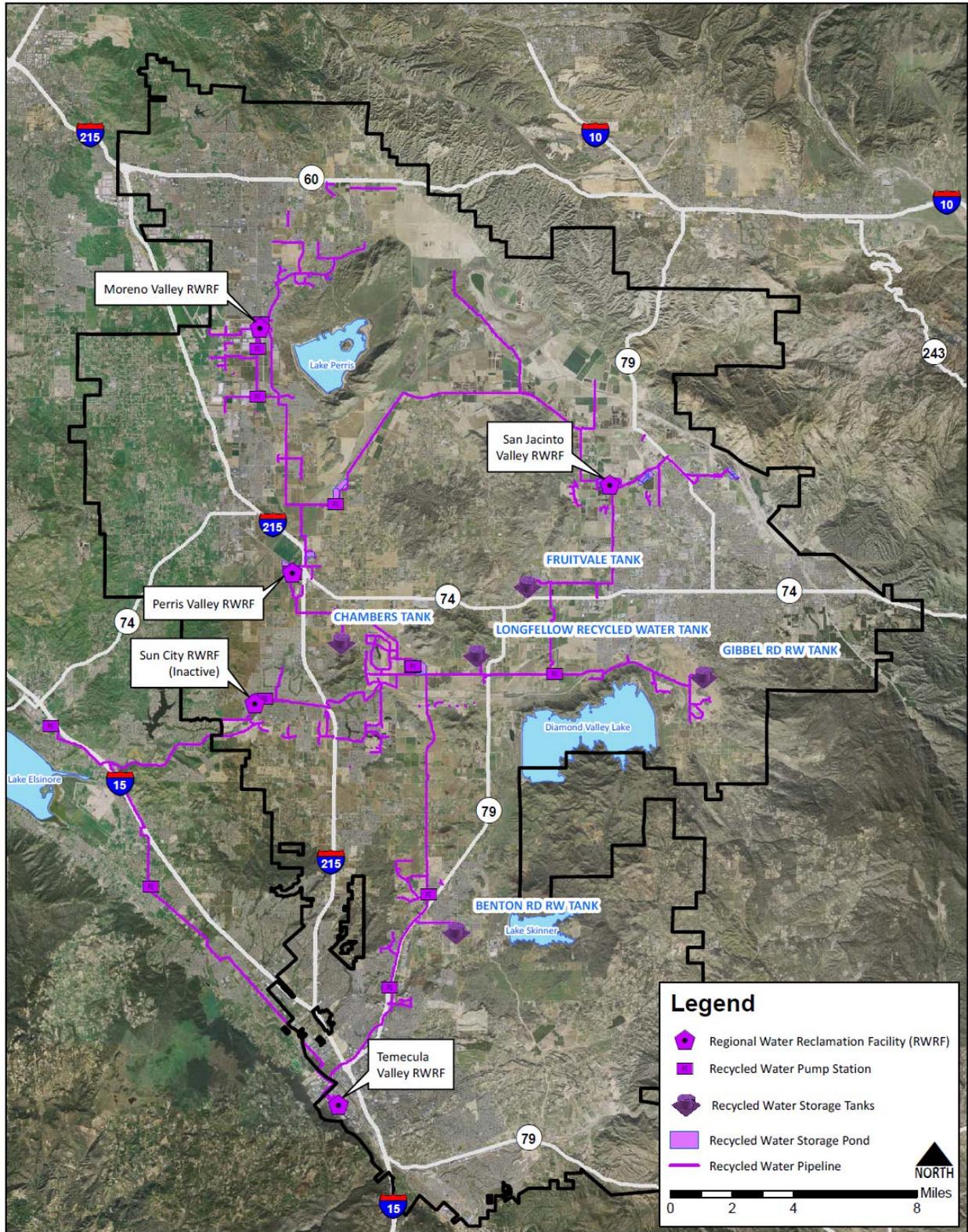
6.7.2 Wastewater Collection, Treatment, and Disposal

EMWD is responsible for all wastewater collection and treatment in its service area. It has four operational RWRFs located throughout EMWD as shown in Figure 6-5. Inter-connections between the local collections systems serving each treatment plant allow for operational flexibility, improved reliability, and expanded deliveries of recycled water. All of EMWD's RWRFs produce tertiary effluent, suitable for all Department of Health Services permitted uses, including irrigation of food crops and full-body contact. The four RWRFs have a combined capacity of 81,800 AFY as summarized in Table 6-7.

Table 6-7: RWRF Treatment Capacity (AFY)

Facility	Treatment Capacity (AFY)
San Jacinto Valley	15,700
Moreno Valley	17,900
Temecula Valley	20,200
Perris Valley	28,000
Total	81,800

Figure 6-5: Key Recycled Water Facilities



Eastern Municipal Water District
Key Facilities - Recycled Water

In addition to treatment facilities, EMWD has several recycled water storage ponds throughout EMWD (see Figure 6-5). Using existing storage ponds, EMWD is able to sell more than the recycled water produced by its treatment plants during the peak demand months (June – September). During the cooler, wetter parts of the year, surplus recycled water is stored in unlined surface impoundments, resulting in some degree of incidental groundwater recharge. If storage capacity is full, surplus recycled water is disposed of through a regional outfall pipeline to Temescal Creek and the Santa Ana River.

EMWD treats all of the wastewater collected in its service area to tertiary standards and disposes of its recycled water in one of three ways; 1) customer sales 2) discharge to Temescal Creek, or, 3) through percolation and evaporation while stored in ponds throughout EMWD. In 2015, EMWD collected and treated a total of 48,665 AF of wastewater at its four RWRFs. Table 6-8 and Table 6-9 summarize the amount of wastewater collected and treated in EMWD’s service area in 2015. While EMWD sells recycled water to wholesale customers RCWD and EVMWD, the recycled water originates from wastewater collected and treated within EMWD’s retail service area. Therefore, these volumes are accounted for in Table 6-9. EMWD does not provide supplemental treatment to the recycled water it distributes as documented in Table 6-10.

Table 6-8: Wastewater Collected within EMWD's Service Area

DWR Table 6-2 Retail: Wastewater Collected Within Service Area in 2015						
100	Percentage of 2015 service area covered by wastewater collection system					
100	Percentage of 2015 service area population covered by wastewater collection system					
Wastewater Collection			Receiving Wastewater Treatment			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated?	Volume of Wastewater Collected in 2015	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area?	Is WWTP Operation Contracted to a Third Party?
Eastern Municipal Water District	Metered	7,382	Eastern Municipal Water District	San Jacinto Valley RWRF	Yes	No
Eastern Municipal Water District	Metered	12,389	Eastern Municipal Water District	Moreno Valley RWRF	Yes	No
Eastern Municipal Water District	Metered	15,088	Eastern Municipal Water District	Temecula Valley RWRF	Yes	No
Eastern Municipal Water District	Metered	13,806	Eastern Municipal Water District	Perris Valley RWRF	Yes	No
Total Wastewater Collected from Service Area in 2015:		48,665				

Table 6-9: Wastewater Treatment and Discharge within EMWD's Service Area

DWR Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2015									
Wastewater Treatment Plant Name	Discharge Location Name or Identifier ¹	Discharge Location Description	Method of Disposal	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level	2015 volumes			
						Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area ^{2,3}	Recycled Outside of Service Area
San Jacinto Valley RWRf	Reach 4 Dissipater	Temescal Creek	River or creek outfall	No	Tertiary	6,884	0	6,884	0
Moreno Valley RWRf	Reach 4 Dissipater	Temescal Creek	River or creek outfall	No	Tertiary	11,554	0	11,554	0
Temecula Valley RWRf	Reach 4 Dissipater	Temescal Creek	River or creek outfall	No	Tertiary	14,071	0	14,071	0
Perris Valley RWRf	Reach 4 Dissipater	Temescal Creek	River or creek outfall	No	Tertiary	12,876	0	12,876	0
Total						45,385	0	45,385	0

- 1) All four of EMWD's RWRfs are connected through EMWD's regional recycled water system with one discharge point.
- 2) Because all four RWRfs are connected through one regional recycled water system, it is not possible to distinguish the volume of water recycled from each individual facility. Volumes recycled from each facility in the table were estimated based on the proportion of wastewater collected and treated at each plant compared to the total volume of wastewater treated.
- 3) Recycled water sold to RCWD and EVMWD is included in the total volume recycled within EMWD's service area and not reported separately in DWR Table 6-3 for wholesale. Recycled water deliveries to wholesale customers are distinguished from retail sales in DWR Table 6-4.

Table 6-10: Wastewater Treatment and Discharge Within EMWD's Wholesale Service Area

DWR Table 6-3 Wholesale: Wastewater Treatment and Discharge Within Service Area in 2015	
<input checked="" type="checkbox"/>	Wholesale supplier does not provide supplemental treatment to recycled water it distributes ¹ .

1) EMWD sells recycled water to wholesale customers RCWD and EVMWD. These volumes are accounted for in the wastewater treated, discharged, and recycled in DWR Table 6-3 for retail.

6.7.3 Recycled Water System

In 2015, EMWD produced 45,385 AF of recycled water for distribution to retail and wholesale customers throughout its service area. The majority of recycled water sold is used for agricultural irrigation. A portion of the water sold for agriculture is used in lieu of groundwater, preserving the groundwater basin and improving water supply reliability. In addition to meeting agricultural demand, recycled sales to municipal customers are increasing rapidly as residential and urban development replaces irrigated farmland. Landscape irrigation is an emerging market and in 2008, EMWD started selling recycled water to a large industrial customer for cooling towers in a power generation plant. EMWD also sells recycled water to the CDFW for environmental use within the San Jacinto Wildlife Area and to recreational customers that are comprised of private duck clubs and bird sanctuaries that use recycled water for ponds. EMWD uses existing storage facilities to store water during off peak periods for delivery in peak months and maximize the amount of recycled water sold. EMWD's current and projected retail recycled water sales are summarized in Table 6-11.

Much of EMWD's increase in recycled water use will come from customers that will use recycled water for landscape irrigation or industrial processing. Agricultural use is projected to decrease as more agricultural land use is converted to residential. Currently, agricultural customers use recycled water to grow short-term row crops. Using potable water would not be cost-effective and their profitability is based on the availability of low-cost recycled water and low-cost land available for lease. The location of these agricultural accounts frequently changes each year depending on land availability. As more residential development takes place and the population grows, land is becoming less accessible for agricultural use. In the future, EMWD expects to have fewer and fewer agricultural accounts. Other agricultural accounts use recycled water to irrigate crops that require a long-term investment such as citrus trees. These accounts would use potable water, if needed, to protect their investment. Recycled water is also being used by some agricultural accounts in lieu of potable ground water.

EMWD's wholesale customer category consists of recycled water delivered to other agencies for use in their service areas. EMWD delivers recycled water to EVMWD and RCWD. EMWD's wholesale current and projected recycled water use is shown in Table 6-12.

Table 6-11: Current and Projected Retail Recycled Water Direct Beneficial Uses

DWR Table 6-4 Retail: Current and Projected Recycled Water Direct Beneficial Uses Within Service Area								
Name of Agency Producing (Treating) the Recycled Water:		Eastern Municipal Water District						
Name of Agency Operating the Recycled Water Distribution System:		Eastern Municipal Water District						
Supplemental Water Added in 2015 ¹		682 AF						
Source of 2015 Supplemental Water		Raw, Brackish Groundwater from the West San Jacinto Basin						
Beneficial Use Type	General Description of 2015 Uses	Level of Treatment	2015	2020	2025	2030	2035	2040
Agricultural irrigation		Tertiary	22,979	18,784	17,912	17,784	17,756	17,756
Landscape irrigation (excludes golf courses)		Tertiary	2,464	5,124	6,124	7,124	8,124	9,624
Golf course irrigation		Tertiary	1,572	2,375	2,750	3,125	3,500	3,500
Commercial use		Tertiary	0	300	300	300	300	300
Industrial use		Tertiary	1,067	2,912	3,348	3,784	4,220	4,220
Geothermal and other energy production								
Seawater intrusion barrier								
Recreational impoundment		Tertiary	1,177	1,250	1,400	1,400	1,400	1,400
Wetlands or wildlife habitat		Tertiary	3,507	4,500	4,500	4,500	4,500	4,500
Groundwater recharge (IPR)* ¹								
Surface water augmentation (IPR)*								
Direct potable reuse								
Other (Provide General Description)	Storage Pond Incidental Recharge/ Evaporation	Tertiary	11,384	10,000	12,000	12,000	12,000	12,000
			Total:	44,150	45,245	48,334	50,017	53,300
<i>*IPR - Indirect Potable Reuse</i>								

1) Raw, brackish groundwater from the West San Jacinto Basin was used in the recycled water system in 2015 to help meet higher than average agricultural demands for recycled water. This volume was removed from the agricultural beneficial uses volume in the table above.

2) Additional recycled water supply is available to EMWD from 2020 through 2040 that is planned for IPR. This volume is not included in the table as a projected beneficial use as IPR is still a conceptual project. The available supply will be redirected to other demands, including agricultural irrigation and landscape irrigation, if the IPR project is not implemented.

Table 6-12: Current and Projected Wholesale Recycled Water Direct Beneficial Uses

DWR Table 6-4 Wholesale: Current and Projected Retailers Provided Recycled Water Within Service Area							
Name of Receiving Supplier or Direct Use by Wholesaler ¹	Level of Treatment	2015	2020	2025	2030	2035	2040
Elsinore Valley Municipal Water District	Tertiary	251	289	400	400	400	400
Rancho California Water District	Tertiary	984	1,367	4,366	4,783	5,200	5,200
Total		1,235	1,656	4,766	5,183	5,600	5,600

6.7.4 Planned Versus Actual Recycled Water Use

In 2015, EMWD delivered approximately 44,150 AF to retail customers. This is 250 AF more than projected in the 2010 UWMP, as shown in Table 6-13. Agricultural irrigation was higher than projected in 2010, which may be due to drought conditions increasing evapotranspiration. Landscape irrigation use, on the other hand, was less than were projected in 2010, likely due to mandatory restrictions on outdoor water use decreasing irrigation demands across EMWD's service area. Additionally, the anticipated demands for the CDFW's San Jacinto Wildlife Area have increased since 2010.

EMWD has continued to increase the percentage of recycled water sold and decrease the amount of recycled water discharged. This was achieved through implementing operational practices that encourage the storage of water in the winter for use during peak periods. Recycled water was also used to recharge groundwater basins through an in lieu agricultural program. EMWD is aggressively pursuing recycled water policies and programs that reduce discharge and increase recycled water use.

Table 6-13: 2010 UWMP Retail Recycled Water Use Projection Compared to 2015 Actual

DWR Table 6-5 Retail: 2010 UWMP Recycled Water Use Projection Compared to 2015 Actual			
Use Type		2010 Projection for 2015	2015 Actual Use
Agricultural irrigation		20,000	22,979
Landscape irrigation (excludes golf courses)		5,100	2,464
Golf course irrigation		--	1,572
Commercial use		--	--
Industrial use		5,800	1,067
Geothermal and other energy production		--	--
Seawater intrusion barrier		--	--
Recreational impoundment		--	1,177
Wetlands or wildlife habitat		2,000	3,507
Groundwater recharge (IPR)		--	--
Surface water augmentation (IPR)		--	--
Direct potable reuse		--	--
Other	Storage Pond Incidental Recharge / Evaporation	11,000	11,384
Total		43,900	44,150

In EMWD's 2010 UWMP, recycled water wholesale deliveries were not projected for 2015. Actual 2015 recycled water wholesale deliveries to RCWD and EVMWD are shown in Table 6-14.

Table 6-14: 2010 UWMP Wholesale Recycled Water Use Projection Compared to 2015 Actual

DWR Table 6-5 Wholesale: 2010 UWMP Recycled Water Use Projection Compared to 2015 Actual		
Name of Receiving Supplier or Direct Use by Wholesaler	2010 Projection for 2015¹	2015 Actual Use
Elsinore Valley Municipal Water District	--	251
Rancho California Water District	--	984
Total	0	1,235

1) Projections for wholesale recycled water deliveries were not provided in the 2010 UWMP.

6.7.5 Actions to Encourage and Optimize Future Recycled Water Use

EMWD is in the process of completing its 2015 Recycled Water Strategic and Master Plan. The plan examines several options for the expansion of recycled water use in EMWD's service area and considers the current and potential constraints and opportunities for reducing discharge and increasing use of recycled water. Demand opportunities exceed projected supply through 2045, so an optimized profile of demands will be recommended as part of the strategic plan evaluation.

Historically, EMWD has used recycled water to meet the needs of agricultural development with increasing landscape demand, as land use changes from agricultural to urban. Water has also been used for environmental purposes at the CDFW's San Jacinto Wildlife Area. Recently, new demands have emerged for manufacturing and industrial processes and for use in lieu of groundwater. Other proposed special projects include Indirect Potable Reuse (IPR) using recycled water from the San Jacinto Valley RWRf for groundwater recharge.

IPR is included in EMWD's IRP and modeled under several hydraulic and supply conditions. EMWD's Recycled Water Strategic and Master Plan also evaluates the storage and system improvements needed to offset peak demand. Additional storage is not required to fully utilize EMWD's recycled water supply.

To ensure that recycled water continues to be used to the fullest extent possible, EMWD uses five methods to expand the use of recycled water within its service area. These methods are:

Mandatory Recycled Water Use Ordinance – EMWD has adopted an ordinance requiring new and existing customers to use recycled water for appropriate permitted uses when it is available. This ordinance provides a basis for denying potable water service and providing recycled water for permitted uses.

Rate Incentives – Recycled water is currently priced below the cost of potable water for both municipal and agricultural use.

Water Supply Assessments – EMWD's Water Supply Assessments require all major new developments to use recycled water as a condition of service where it is available and permitted.

Public Education – EMWD actively promotes the use of recycled water with its water education program. EMWD also places prominent signage at public recycled water use sites promoting the benefits of water recycling.

Facilities Financing – EMWD will work with private parties to arrange or provide financing for construction of facilities needed to convert potable demands to recycled water.

EMWD does not have any data to support a projection of how much increased recycled water sales will result from each of the listed methods of encouraging recycled water use. Historically, the low cost of recycled water was the primary inducement for agricultural customers to use recycled water in-lieu of groundwater. However, as municipal customers continue to replace agriculture, it is reasonable to assume that the mandatory provisions of EMWD's Recycled Water Use Ordinance will play a major role in program expansion. Table 6-15 summarizes EMWD's methods to expand future retail recycled water use.

Table 6-15: Methods to Expand Future Recycled Water Use

DWR Table 6-6 Retail: Methods to Expand Future Recycled Water Use			
Name of Action	Description	Planned Implementation Year	Expected Increase in Recycled Water Use¹
Mandatory Recycled Water Use Ordinance	The ordinance requiring new and existing customers to use recycled water for appropriate permitted uses when it is available	Ongoing	2,703
Rate Incentives	EMWD prices recycled water below the cost of potable water for both municipal and agricultural use	Ongoing	2,703
Water Supply Assessments	Assessments condition all major new developments to use recycled water as a condition of service where it is available and permitted	Ongoing	2,703
Public Education	EMWD has a recycled water public education campaign to promote the benefits of recycled water	Ongoing	2,703
Facilities Financing	EMWD helps arrange or provide financing for the construction of facilities needed to convert potable demands to recycled water	Ongoing	2,703
Total			13,515

1) EMWD does not have any data to support a projection of how much increased recycled water sales will result from each of the listed methods of encouraging recycled water use. Historically, the low cost of recycled water was the primary inducement for agricultural customers to use recycled water in-lieu of groundwater. However, as municipal customers continue to replace agriculture, it is reasonable to assume that the mandatory provisions of EMWD's Recycled Water Use Ordinance will play a major role in program expansion.

6.8 Exchanges or Transfers

The five regional water agencies in the Santa Ana River Watershed have identified a watershed-scale project to store imported water during wet years in order to help meet dry-year demands, called SARCCUP. The group includes representatives from the following regional water agencies:

- Eastern Municipal Water District
- Inland Empire Utilities Agency
- Orange County Water District
- San Bernardino Valley Municipal Water District
- Western Municipal Water District

The program goals of SARCCUP include:

- Providing watershed-wide benefits based upon regional collaboration
- Creating significant new dry-year yield (about 70,000 AFY in Phase 1)
- Increasing resiliency and reliability of water supply

The SARCCUP includes four separate groundwater banks. The total storage proposed in Phase 1 of the program is about 180,000 AF. Each of the banks is expected to be able to recharge and extract one-third of its storage capacity in any year. The combined extraction capacity is 60,000 AFY. Since the participants are sharing the benefits equally, each agency receives 20 percent (1/5) of the total capacity, resulting in each of the SARCCUP agencies receiving 12,000 AFY of new dry-year yield. This will

APPENDIX K

2014 Annual Water Quality Report



City of San Jacinto

2014 Annual Water Quality Report



The City of San Jacinto is pleased to provide our customers with its Annual Water Quality Report

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

This report contains information about the sources and quality of drinking water we deliver to our customers. This includes details about where the City of San Jacinto water originates, what it contains, and how it compares to standards set by regulatory agencies. In 2014, your drinking water met all U.S. Environmental Protection Agency (USEPA) and State of California drinking water standards. The City of San Jacinto's source of water for 2014 is from four deep wells. These wells are located in the San Jacinto Groundwater Basin.

The San Jacinto City Council meets the first Tuesday of each month in the School District Headquarters at 2045 San Jacinto Ave, San Jacinto CA. These meetings provide an opportunity for public participation in decisions that may affect the quality of your water. For more information, please contact the City of San Jacinto Water Utilities Superintendent, Dan Mudrovich at (951) 487-7381.

Information on City of San Jacinto Water Quality Monitoring

The City of San Jacinto routinely monitors for contaminants in your drinking water in accordance with USEPA and the State Water Resources Control Board (State Board), Division of Drinking Water regulations. The table in this report shows the results of our monitoring for calendar year 2014 and earlier since the State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants in groundwater do not change frequently. Therefore, some of our data, although representative, are more than one year old. The table lists all the contaminants detected in your drinking water that have federal and state drinking water standards. Detected unregulated contaminants of interest are also included. Although we have learned through our monitoring and testing that some contaminants have been detected, the USEPA has determined that your water IS SAFE at these levels.

What May Be Present in Sources of Drinking Water?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **Inorganic contaminants**, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **Radioactive contaminants**, which can be naturally-occurring or be the result of oil and gas production and mining activities.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application and septic systems.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

An assessment of the drinking water sources for the City of San Jacinto was completed in May 2001, October 2004, and May 2008. The sources are considered to be most vulnerable to the following activities not associated with contaminants detected in the water supply, septic system and gasoline stations. A copy of the complete assessment is available by written request through the City Clerk's office.

What are Water Quality Standards?

In order to ensure that tap water is safe to drink, the USEPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water standards established by USEPA and the State Board set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The chart in this report shows the following types of water quality standards:

- **Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.
- **Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Primary Drinking Water Standard (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.
- **Regulatory Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

In addition to mandatory water quality standards, USEPA and the State Board have set voluntary water quality goals for some contaminants. Water quality goals are often set at such low levels that they are not achievable in practice and are not directly measurable. Nevertheless, these goals provide useful guideposts and direction for water management practices. The chart in this report includes three types of water quality goals:

- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by USEPA.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

What causes the brownish discoloration in our water?

IRON & MANGANESE: These natural minerals are found in the water that is produced by three of the City's well sites. Although these minerals produce no known health concerns, they are aesthetically unpleasant and can cause unwanted color, taste and odors. Iron and Manganese at high concentrations can also stain clothing and fixtures at home. The City operates two groundwater treatment plants for removal of Iron and Manganese, and we have implemented a comprehensive water flushing program to keep any build up in our Water Distribution System to a minimum.

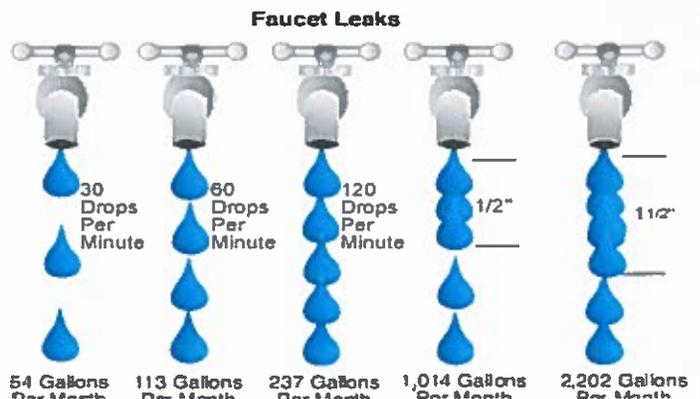
Water Disinfection

All well sites are visited daily and chlorine residual samples are collected throughout the distribution system to ensure disinfection equipment is working properly. The average chlorine residual in the distribution system for samples collected during 2014 was 1.03mg/l. A total of 208 samples were collected in the distribution system for bacteriological analysis. No samples tested positive for coliform bacteria.

Educational Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of San Jacinto is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at: <http://www.epa.gov/safewater/lead>.



Water Is A Precious Resource
Please Practice Water Conservation

CITY OF SAN JACINTO 2014 DRINKING WATER QUALITY

(Results are from the most recent testing performed pursuant to state and federal drinking water monitoring regulations)

CONSTITUENT AND (UNITS)	MCL or [MRDL]	PHG (MCLG) or [MRDLG]	GROUNDWATER SOURCES		MOST RECENT TESTING	MCL VIOLATION ?	TYPICAL ORIGINS OF DETECTED CONSTITUENTS
			AVERAGE (a)	RANGE			

Primary Drinking Water Standards -- Health Related Standards

MICROBIOLOGICAL CONTAMINANTS (b)

Total Coliform Bacteria (Total Coliform Rule)	No more than 1 positive monthly sample	(0)	0	NA	2014	No	Naturally present in the environment
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DISINFECTANT AND DISINFECTION BY-PRODUCTS (c)

Chlorine Residual (mg/l)	[4.0 as Cl ₂]	[4 as Cl ₂]	1.0	1.0 - 1.3	2014	No	Drinking water disinfectant
Total Trihalomethanes (µg/l)	80	NA	63.5	1.5 - 94	2014	No	By-product of drinking water chlorination
Haloacetic Acids (HAAs) (µg/l)	60	NA	47.5	0 - 88	2014	No	By-product of drinking water chlorination

RADIOCHEMICALS

Gross Alpha particle activity (pCi/L)	15	(0)	ND	ND - 3.3	2013	No	Erosion of natural deposits
Uranium (pCi/L)	20	0.43	1.1	1.1	2013	No	Erosion of natural deposits

INORGANIC CHEMICALS

Barium (mg/l)	1	2	ND	ND - 180	2013	No	Leaching of natural deposits
Copper (mg/l) (d)	AL = 1.3	0.3	0.51	None of the 34 Samples Exceeded the Action Level	2014	No	Corrosion of household plumbing system; erosion of natural deposits
Fluoride (mg/l)	2	1	0.4	0.2 - 0.6	2013	No	Leaching of natural deposits
Lead (µg/l) (d)	AL = 15	0.2	ND	None of the 34 Samples Exceeded the Action Level	2014	No	Corrosion of household plumbing system; erosion of natural deposits

Secondary Drinking Water Standards -- Aesthetic Standards No: Health-Related

Chloride (mg/l)	500	NA	13	8.3 - 21	2013	No	Leaching of natural deposits
Color (NTU) (f)	15	NA	ND	ND - 5	2014	No	Naturally occurring organic material
Iron (µg/l) (e)	300	NA	ND	ND	2014	No	Leaching of natural deposits
Manganese (µg/l) (e)	50	NA	30	ND - 53	2014	No	Leaching of natural deposits
Specific Conductance (µmho/cm)	1,500	NA	435	320 - 580	2013	No	Substances that form ions when in water
Sulfate (mg/l)	500	NA	21.4	5.6 - 46	2013	No	Leaching of natural deposits
Total Dissolved Solids (mg/l)	1,000	NA	240	180 - 320	2013	No	Leaching of natural deposits
Turbidity (NTU) (f)	5	NA	0.12	ND - 0.36	2014	No	Soil runoff

Other Constituents of Interest

Hardness as CaCO ₃ (mg/l)	NA	NA	140	120 - 180	2013	No	Naturally occurring cations present in water, generally magnesium and calcium
Sodium (mg/l)	NA	NA	27	22 - 33	2013	No	Salt present in water; naturally occurring

mg/l = parts per million or milligrams per liter
 µg/l = parts per billion or micrograms per liter
 µmho/cm = micromhos per centimeter
 AL = Action Level

MCL = Maximum Contaminant Level
 MCLG = Maximum Contaminant Level Goal
 MRDL = Maximum Residual Disinfectant Level
 MRDLG = Maximum Residual Disinfectant Level Goal

ND = Not Detected at DLR (Detection Limit Reporting)
 NTU = Nephelometric Turbidity Units
 PHG = Public Health Goal
 NA = Not Applicable

Footnotes

- (a) The results reported in the table are average concentrations of the constituents tested during 2014 or from the most recent tests, except for Total Trihalomethanes, Haloacetic Acids, Chlorine Residual, Iron, Manganese, Lead and Copper, which are described below.
- (b) Samples were collected in the distribution system. The highest number of positive samples collected any one month for 2014 is presented.
- (c) Samples were collected in the distribution system. The highest locational running annual average and the range of the individual results for 2014 are presented. Compliance with the MCL is based on a locational running annual average, calculated for each individual sample site.
- (d) Thirty-four (34) Lead and Copper Rule compliance samples were collected at representative residential taps in 2014. The 90th percentile concentration of Lead and Copper is reported in the table.

Please visit below websites for tips on water conservation and savings

<http://www.ci.san-jacinto.ca.us/residents/pdfs/20WaysToUseWaterWisely.pdf>

<http://www.bewaterwise.com/>

<http://www.usewaterwisely.org/>

Top Ten Tips for Saving Water

Water Loss Leak Chart

Leak Through Per Opening of	Gallons of water loss	
	Daily	Monthly
1/4 Inch 	14,900	463,000
3/16 inch 	8,400	261,000
1/8 inch 	3,100	56,000
1/16 Inch 	360	11,100
1/32 Inch 	200	6,300



5 Minute showers save 8-20 gallons of water each time.

Save 20 gallons/day for every leak you fix.

Wash only full loads of laundry and dishes and save 15-20 gallons each load.

Watering the lawn 2 days a week instead of 5 saves up to 840 gallons during the summer.

Check water agency rules and guidelines on watering times in your community.

Use a broom instead of a hose for cleaning driveways, sidewalks & patios.

Install a weather based sprinkler controller and save up to 40 gallons per day.

Watering plants in the morning/evening reduces evaporation & saves up to 25 gallons per day.

Check sprinklers for leaks, overspray or broken sprinkler heads & save up to 500 gallons per day.

APPENDIX L

Ordinance No. 09-16: Water
Conservation and Water Supply
Shortage Program and Regulations
(May 2009)

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE)ss
CITY OF SAN JACINTO)

ORDINANCE NO. 09-16

AN ORDINANCE OF THE CITY COUNCIL OF SAN JACINTO AMENDING SECTION 13.04.070 OF CHAPTER 13.04 OF THE CITY OF SAN JACINTO MUNICIPAL CODE ESTABLISHING WATER CONSERVATION AND WATER SUPPLY SHORTAGE PROGRAM AND REGULATIONS

WHEREAS, water is Riverside County's most precious natural resource; and

WHEREAS, a reliable minimum supply of potable water is essential to the public health, safety and welfare of the people and economy of the southern California region; and

WHEREAS, Southern California is a semi-arid region and is largely dependent upon imported water supplies. A growing population, climate change, environmental concerns, and other factors in other parts of the State and western United States, make the region highly susceptible to water supply reliability issues; and

WHEREAS, residents, governments, businesses, and agriculture must work together to ensure the efficient use of water in homes, landscapes, public facilities and businesses; and

WHEREAS, Riverside County, water agencies and municipal governments are committed to the development and implementation of water conservation and supply shortage guidelines; and

WHEREAS, the City of San Jacinto has developed and adopted water conservation and water supply shortage program and regulations.

THE CITY COUNCIL OF THE CITY OF SAN JACINTO DOES HEREBY ORDAIN AS FOLLOWS:

Section 1. Section 13.04 70 of Chapter 13.04 of the San Jacinto Municipal Code is hereby amended in its entirety to read as follows:

"13.04 .070

A. Findings

1. A reliable minimum supply of potable water is essential to the public health, safety and welfare of the people and economy of the southern California region.
2. Southern California is a semi-arid region and is largely dependent upon imported water supplies. A growing population, climate change, environmental concerns,

and other factors in other parts of the State and western United States, make the region highly susceptible to water supply reliability issues.

3. Careful water management that includes active water conservation measures not only in times of drought, but at all times, is essential to ensure a reliable minimum supply of water to meet current and future water supply needs.
4. Article X, Section 2 of the California Constitution declares that the general welfare requires that water resources be put to beneficial use, waste or unreasonable use or unreasonable method of use of water be prevented, and conservation of water be fully exercised with a view to the reasonable and beneficial use thereof.
5. Article XI, Section 7 of the California Constitution declares that a city or county may make and enforce within its limits all local, police, sanitary, and other ordinances and regulations not in conflict with general laws.
6. California Water Code section 375 authorizes water suppliers to adopt and enforce a comprehensive water conservation program to reduce water consumption and conserve supplies.
7. The adoption and enforcement of a water conservation and supply shortage program is necessary to manage the City of San Jacinto's potable water supply in the short and long-term and to avoid or minimize the effects of drought and shortage within the City of San Jacinto. Such program is essential to ensure a reliable and sustainable minimum supply of water for the public health, safety and welfare.

B. Declaration of Purpose and Intent.

1. The purpose of this chapter is to establish a water conservation and supply shortage program that will reduce water consumption within the City of San Jacinto through conservation, enable effective water supply planning, assure reasonable and beneficial use of water, prevent waste of water, and maximize the efficient use of water within the City of San Jacinto to avoid and minimize the effect and hardship of water shortage to the greatest extent possible.

2. This chapter establishes permanent water conservation standards intended to alter behavior related to water use efficiency at all times and further establishes three levels of water supply shortage response actions to be implemented during times of declared water shortage or declared water shortage emergency, with increasing restrictions on water use in response to worsening drought or emergency conditions and decreasing supplies.

C. Definitions.

1. The following words and phrases whenever used in this chapter have the meaning defined in this section:

"Billing unit" means the unit of water used to apply water rates for purposes of calculating water charges for a persons water usage.

"Landscape irrigation system" means an irrigation system with pipes, hoses, spray heads, or sprinkling devices that are operated by hand or through an automated system.

"Large landscape areas" means a lawn, landscape, or other vegetated area, or combination thereof, equal to more than one (1) acre of irrigable land.

"Person" means any natural person or persons, corporation, public or private, governmental agency or institution, including all agencies and departments of City of San Jacinto, or any other user of water provided by the City of San Jacinto.

"Potable water" means water which is suitable for drinking.

"Recycled water" means the reclamation and reuse of non-potable water for beneficial use as defined in Title 22 of the California Code of Regulations.

"Single pass cooling systems" means equipment where water is circulated only once to cool equipment before being disposed.

D. Application

1. The provisions of this section apply to any person in the use of any potable water provided by the City of San Jacinto.

2. The provisions of this chapter do not apply to uses of water necessary to protect public health and safety or for essential government services, such as police, fire and other similar emergency services.

3. The provisions of this chapter do not apply to the use of recycled water.

4. The provisions of this section do not apply to the use of water by commercial nurseries and commercial growers to sustain plants, trees, shrubs, crops or other vegetation intended for commercial sale.

5. This section is intended solely to further the conservation of water. It is not intended to implement any provision of federal, State, or local statutes, ordinances, or regulations relating to protection of water quality or control of drainage or runoff. Refer to the local jurisdiction or Regional Water Quality Control Board for information on any stormwater ordinances and stormwater management plans.

E. Permanent Water Conservation Requirements – Prohibition Against Waste

The following water conservation requirements are effective at all times and are permanent. Violations of this section will be considered waste and an unreasonable use of water.

1. **Limits on Watering Hours:** Watering or irrigating of lawn, landscape or other vegetated area with potable water is prohibited between the hours of 9:00 a.m. and 5:00 p.m., Pacific Standard Time on any day, except by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-

closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system.

2. **Limit on Watering Duration:** Watering or irrigating of lawn, landscape or other vegetated area with potable water using a landscape irrigation system or a watering device that is not continuously attended is limited to no more than fifteen (15) minutes of watering per day per station. This subsection does not apply to landscape irrigation systems that exclusively use very low-flow drip type irrigation systems when no emitter produces more than two (2) gallons of water per hour and weather based controllers or stream rotor sprinklers that meet a 70% efficiency standard.

3. **No Excessive Water Flow or Runoff:** Watering or irrigating of any lawn, landscape or other vegetated area in a manner that causes or allows excessive water flow or runoff onto an adjoining sidewalk, driveway, street, alley, gutter or ditch is prohibited.

4. **No Washing Down Hard or Paved Surfaces:** Washing down hard or paved surfaces, walls, roofs, including but not limited to sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys, is prohibited except when necessary to alleviate safety or sanitary hazards, and then only by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off device, a low-volume, high-pressure cleaning machine equipped to recycle any water used, or a low-volume high-pressure water broom.

5. **Obligation to Fix Leaks, Breaks or Malfunctions:** Excessive use, loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system for any period of time after such escape of water should have reasonably been discovered and corrected and in no event more than 72 hours of receiving notice from the City of San Jacinto, is prohibited.

6. **Re-circulating Water Required for Water Fountains and Decorative Water Features:** Operating a water fountain or other decorative water feature that does not use re-circulated water is prohibited.

7. **Limits on Washing Vehicles:** Using water to wash or clean a vehicle, including but not limited to any automobile, truck, van, bus, motorcycle, boat or trailer, whether motorized or not is prohibited, except by use of a hand-held bucket or similar container or a hand-held hose equipped with a positive self-closing water shut-off nozzle or device. This subsection does not apply to any commercial car washing facility.

8. **Drinking Water Served Upon Request Only:** Eating or drinking establishments, including but not limited to a restaurant, hotel, cafe, cafeteria, bar, or other public place where food or drinks are sold, served, or offered for sale, are prohibited from providing drinking water to any person unless expressly requested.

9. **Commercial Lodging Establishments Must Provide Guests Option to Decline Daily Linen Services:** Hotels, motels and other commercial lodging establishments must provide customers the option of not having towels and linen laundered daily. Commercial lodging establishments must prominently display notice of this option in each bathroom using clear and easily understood language.

10. **No Installation of Single Pass Cooling Systems:** Installation of single pass cooling systems is prohibited in buildings requesting new water service.

11. **No Installation of Non-re-circulating in Commercial Car Wash and Laundry Systems:** Installation of non-re-circulating water systems is prohibited in new commercial conveyor car wash and new commercial laundry systems.

12. **Restaurants Required to Use Water Conserving Dish Wash Spray Valves:** Food preparation establishments, such as restaurants or cafes, are prohibited from using non-water conserving dish wash spray valves.

13. **Commercial Car Wash Systems:** Effective on January 1, 2010 all commercial conveyor car wash systems must have installed operational re-circulating water systems, or must have secured a waiver of this requirement from the City of San Jacinto.

F. Level 1 Water Supply Shortage

1. **A Level 1 Water Supply Shortage exists when the City Manager of the City of San Jacinto determines, in his/her sole discretion, that due to drought or other water supply conditions, a water supply shortage or threatened shortage exists and a consumer demand reduction is necessary to make more efficient use of water and appropriately respond to existing water conditions. Upon the declaration by the City of San Jacinto of a Level 1 Water Supply Shortage condition, the City of San Jacinto will implement the mandatory Level 1 conservation measures identified in this section.**

2. **Additional Water Conservation Measures:** In addition to the prohibited uses of water identified in Section E, the following water conservation requirements apply during a declared Level 1 Water Supply Shortage:

a. **Limits on Watering Days:** Watering or irrigating of lawn, landscape or other vegetated area with potable water is limited to three days per week on a schedule established and posted by the City of San Jacinto. During the months of November through March, watering or irrigating of lawn, landscape or other vegetated area with potable water is limited to no more than one day per week on a schedule established and posted by the City of San Jacinto. This provision does not apply to landscape irrigation zones that exclusively use very low flow drip type irrigation systems when no emitter produces more than two (2) gallons of water per hour. This provision also does not apply to watering or irrigating by use of a hand-

held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system.

b. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within seventy-two (72) hours of notification by the City of San Jacinto unless other arrangements are made with the City of San Jacinto.

G. Level 2 Water Supply Shortage

1. A Level 2 Water Supply Shortage exists when the City Manager of the City of San Jacinto determines, in his/her sole discretion, that due to drought or other water supply conditions, a water supply shortage or threatened shortage exists and a consumer demand reduction is necessary to make more efficient use of water and appropriately respond to existing water conditions. Upon the declaration by the City of San Jacinto of a Level 2 Water Supply Shortage condition, the City of San Jacinto will implement the mandatory Level 2 conservation measures identified in this section.

2. **Additional Conservation Measures:** In addition to the prohibited uses of water identified in Section E and F the following additional water conservation requirements apply during a declared Level 2 Water Supply Shortage:

a. **Watering Days:** Watering or irrigating of lawn, landscape or other vegetated area with potable water is limited to two days per week on a schedule established and posted by the City of San Jacinto. During the months of November through March, watering or irrigating of lawn, landscape or other vegetated area with potable water is limited to no more than one day per week on a schedule established and posted by the City of San Jacinto. This provision does not apply to landscape irrigation zones that exclusively use very low flow drip type irrigation systems when no emitter produces more than two (2) gallons of water per hour. This provision also does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system.

b. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within forty-eight (48) hours of notification by the City of San Jacinto unless other arrangements are made with the City of San Jacinto.

c. **Limits on Filling Ornamental Lakes or Ponds:** Filling or re-filling ornamental lakes or ponds is prohibited, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to declaration of a supply shortage level under this ordinance.

d. **Limits on Washing Vehicles:** Using water to wash or clean a vehicle, including but not limited to, any automobile, truck, van, bus, motorcycle, boat or trailer, whether motorized or not, is prohibited except by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, by high pressure/low volume wash systems, or at a commercial car washing facility that utilizes a re-circulating water system to capture or reuse water.

e. **Limits on Filling Residential Swimming Pools & Spas:** Re-filling of more than one foot and initial filling of residential swimming pools or outdoor spas with potable water is prohibited.

H. **Level 3 Water Supply Shortage – Emergency Condition**

1. A Level 3 Water Supply Shortage condition is also referred to as an "Emergency" condition. A Level 3 condition exists when the City Manager of the City of San Jacinto declares a water shortage emergency and notifies its residents and businesses that a significant reduction in consumer demand is necessary to maintain sufficient water supplies for public health and safety. Upon the declaration of a Level 3 Water Supply Shortage condition, the City of San Jacinto will implement the mandatory Level 3 conservation measures identified in this section.

2. **Additional Conservation Measures:** In addition to the prohibited uses of water identified in Section E, F, and G, the following water conservation requirements apply during a declared Level 3 Water Supply Shortage Emergency:

a. **No Watering or Irrigating:** Watering or irrigating of lawn, landscape or other vegetated area with potable water is prohibited. This restriction does not apply to the following categories of use, unless the City of San Jacinto has determined that recycled water is available and may be applied to the use:

(1) Maintenance of vegetation, including trees and shrubs, that are watered using a hand-held bucket or similar container, hand-held hose equipped with a positive self-closing water shut-off nozzle or device;

(2) Maintenance of existing landscape necessary for fire protection;

- (3) Maintenance of existing landscape for soil erosion control;
- (4) Maintenance of plant materials identified to be rare or essential to the well-being of protected species;
- (5) Maintenance of landscape within active public parks and playing fields, day care centers, golf course greens, and school grounds, provided that such irrigation does not exceed two (2) days per week.
- (6) Actively irrigated environmental mitigation projects.

b. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within twenty four (24) hours of notification by the City of San Jacinto unless other arrangements are made with the City of San Jacinto.

c. **No New Potable Water Service:** Upon declaration of a Level 3 Water Supply Shortage Emergency condition, no new potable water service will be provided, no new temporary meters or permanent meters will be provided, and no statements of immediate ability to serve or provide potable water service (such as, will-serve letters, certificates, or letters of availability) will be issued, except under the following circumstances:

- (1) A valid, unexpired building permit has been issued for the project; or
- (2) The project is necessary to protect the public health, safety, and welfare; or
- (3) The applicant provides substantial evidence of an enforceable commitment that water demands for the project will be offset prior to the provision of a new water meter(s) to the satisfaction of the City of San Jacinto.

This provision does not preclude the resetting or turn-on of meters to provide continuation of water service or the restoration of service that has been interrupted for a period of one year or less.

d. **Limits on Building Permits:** The City of San Jacinto will limit or withhold the issuance of building permits which require new or expanded water service, except to protect the public health, safety and welfare, or in cases which meet the City of San Jacinto's adopted conservation offset requirements.

e. **Discontinue Service:** The City of San Jacinto, in its sole discretion, may discontinue service to consumers who willfully violate provisions of this section.

f. **No New Annexations:** Upon the declaration of a Level 3 Water Supply Shortage condition, the City of San Jacinto will suspend consideration of annexations to its service area. This subsection does not apply to boundary corrections and annexations that will not result in any increased use of water.

I. Procedures for Determination / Notification of Water Supply Shortage

1. **Declaration and Notification of Water Supply Shortage:** The existence of Level 1, Level 2 or Level 3 Water Supply Shortage conditions may be declared by resolution of the City of San Jacinto adopted at a regular or special public meeting held in accordance with State law. The mandatory conservation requirements applicable to Level 1, Level 2 or Level 3 conditions will take effect on the tenth day after the date the shortage level is declared. Within five (5) days following the declaration of the shortage level, the City of San Jacinto must publish a copy of the resolution in a newspaper used for publication of official notices. If the City of San Jacinto activates a water allocation process, it must provide notice of the activation by including it in the regular billing statement or by any other mailing to the address to which the City of San Jacinto customarily mails the billing statement for fees or charges for on-going water service. A water allocation will be effective on the fifth day following the date of mailing or at such later date as specified in the notice.

2. **Mandatory Percentage Use Reductions:** During a Level 3 Water Supply Shortage condition, all customers will be required to reduce water consumption by a percentage determined by the City Manager of the City of San Jacinto.

J. Hardship Waiver

1. **Undue and Disproportionate Hardship:** If, due to unique circumstances, a specific requirement of this chapter would result in undue hardship to a person using water or to property upon which water is used, that is disproportionate to the impacts to water users generally or to similar property or classes of water users, then the person may apply for a waiver to the requirements as provided in this section.

2. **Written Finding:** The waiver may be granted or conditionally granted only upon a written finding of the existence of facts demonstrating an undue hardship to a person using water or to property upon which water is used, that is disproportionate to the impacts to water users generally or to similar property or classes of water use due to specific and unique circumstances of the user or the user's property.

a. **Application:** Application for a waiver must be on a form prescribed by the City of San Jacinto and accompanied by a non-refundable processing fee set by the fee schedule of the City of San Jacinto.

b. **Supporting Documentation:** The application must be accompanied by photographs, maps, drawings, and other information, including a written statement of the applicant.

c. **Required Findings for Waiver:** An application for a waiver will be denied unless the City of San Jacinto finds, based on the information provided in the application, supporting documents, or such additional information as may be requested, and on water use information for the property as shown by the records of the City of San Jacinto or its Agent, all of the following:

(1) That the waiver does not constitute a grant of special privilege inconsistent with the limitations upon other residents and businesses;

(2) That because of special circumstances applicable to the property or its use, the strict application of this chapter would have a disproportionate impact on the property or use that exceeds the impacts to residents and businesses generally;

(3) That the authorizing of such waiver will not be of substantial detriment to adjacent properties, and will not materially affect the ability of the City of San Jacinto to effectuate the purpose of this chapter and will not be detrimental to the public interest; and

(4) That the condition or situation of the subject property or the intended use of the property for which the waiver is sought is not common, recurrent or general in nature.

3. **Approval Authority:** The Finance Director, or appointed designee must act upon any completed application no later than ten (10) days after submittal and may approve, conditionally approve, or deny the waiver. The applicant requesting the waiver must be promptly notified in writing of any action taken. Unless specified otherwise at the time a waiver is approved, the waiver will apply too the subject property during the period of the mandatory water supply shortage condition. The decision of the Finance Director, or appointed designee is final.

K. Penalties and Violations

1. **Misdemeanor:** Any violation of this section may be prosecuted as a misdemeanor punishable by imprisonment in the county jail for not more than thirty (30) days, or by a fine not exceeding one thousand dollars (\$1,000), or by both.

2. **Penalties:** Penalties for failure to comply with any provisions of the section are as follows:

a. **First Violation:** The City of San Jacinto will issue a written warning and deliver a copy of this section by mail.

b. **Second Violation:** A second violation within the preceding twelve (12) calendar months is punishable by a fine not to exceed twenty five dollars (\$25).

c. **Third Violation:** A third violation within the preceding twelve (12) calendar months is punishable by a fine not to exceed one hundred dollars (\$100).

d. **Fourth and Subsequent Violations:** A fourth and any subsequent violation is punishable by a fine not to exceed five hundred dollars (\$500).

(1) **Water Flow Restrictor:** In addition to any fines, the City of San Jacinto may install a water flow restrictor device of approximately one gallon per minute capacity for services up to one and one-half inch size and comparatively sized restrictors for larger services after written notice of intent to install a flow restrictor for a minimum of forty eight (48) hours.

e. **Discontinuing Service:** In addition to any fines and the installation of a water flow restrictor, the City of San Jacinto may disconnect a customer's water service for willful violations of this section and adequate notice to the customer.

3. **Cost of Flow Restrictor and Disconnecting Service:** A person or City of San Jacinto that violates this ordinance is responsible for payment of the City of San Jacinto's charges for installing and/or removing any flow restricting device and for disconnecting and/or reconnecting service per the City of San Jacinto's schedule of charges then in effect. The charge for installing and/or removing any flow restricting device must be paid to the *City of San Jacinto* before the device is removed. Nonpayment will be subject to the same remedies as nonpayment of basic water rates.

4. **Separate Offenses:** Each day that a violation of this ordinance occurs is a separate offense.

5. **Notice and Hearing:**

a. The City of San Jacinto will issue a Notice of Violation by mail or personal delivery at least ten (10) days before taking enforcement action. Such notice must describe the violation and the date by which corrective action must be taken. A customer may appeal the Notice of Violation by filing a written notice of appeal with the City of San Jacinto no later than

the close of business on the day before the date scheduled for enforcement action. Any Notice of Violation not timely appealed will be final. Upon receipt of a timely appeal, a hearing on the appeal will be scheduled, and the City of San Jacinto will mail written notice of the hearing date to the customer at least ten (10) days before the date of the hearing.

b. Pending receipt of a written appeal or pending a hearing pursuant to an appeal, the City of San Jacinto may take appropriate steps to prevent the unauthorized use of water as appropriate to the nature and extent of the violations and the current declared water Level condition.

L. Severability

If any section, subsection, sentence, clause or phrase in this section is for any reason held invalid, the validity of the remainder of the chapter will not be affected. The City Council of the City of San Jacinto hereby declares it would have passed this chapter and each section, subsection, sentence, clause or phrase thereof, irrespective of the fact that one or more sections, subsections, sentences, clauses, or phrases or is declared invalid."

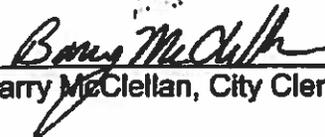
Section 2. Effective Date. This ordinance shall take effect and be in full force on the thirtieth day (30th) day from and after its second reading.

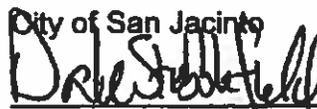
PASSED, APPROVED and ADOPTED at a regular meeting of the City Council on the 21st day of May, 2009, by the following vote:

Ayes:	Ayres, Di Memmo, Mansperger, Potts, Stubblefield
Nays:	None
Absent:	None
Abstain:	None



ATTEST:


Barry McClellan, City Clerk

City of San Jacinto

By Dale Stubblefield, Mayor

APPROVED AS TO FORM:
Best Best & Krieger LLP


Jeffrey S. Ballinger, City Attorney

CERTIFICATION

**STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE)ss
CITY OF SAN JACINTO)**

I, Barry McClellan, City Clerk hereby certify that the attached is a true copy of Ordinance No. 09-16 introduced by the City Council of the City of San Jacinto, California, at a regular meeting held the 7th day of May, 2009. Ordinance 09-16 was approved, passed and adopted at a regular meeting of the San Jacinto City Council held the 21st day of May, 2009.

WITNESS my hand and official seal of the City of San Jacinto this 22nd day of May, 2009.

City of San Jacinto



Barry McClellan, City Clerk

APPENDIX M

Rate Structure

RESIDENTIAL & COMMERCIAL METERS

2013/2014

Rate	Meter Size	Flat Rate	Per Unit	0-15 Unit	16+ Unit	0-20 Unit	21+ Unit
BW	Bulk Water		\$ 1.98				
CM	Construction	\$ 64.42	\$ 1.98				
I1, O1	5/8"	\$ 15.36		\$ 1.53	\$ 2.12		
I2, O2	3/4"	\$ 15.36		\$ 1.53	\$ 2.12		
I3, O3	1"	\$ 24.04				\$ 1.53	\$ 2.12
I4, O4	1 1/2"	\$ 46.16				\$ 1.53	\$ 2.12
I5, O5	2"	\$ 69.25				\$ 1.53	\$ 2.12
I6, O6	3"	\$ 74.08	\$ 1.64				
I7, O7	4"	\$ 126.98	\$ 1.64				
I8, O8	6"	\$ 230.85	\$ 1.64				
I9, O9	8"	\$ 334.75	\$ 1.64				

FS Fire \$ 15.36

H2O Adjudication Surcharge \$1.07

Energy Surcharge \$2.00

1 Unit = 748 gallons

APPENDIX N

Emergency Operations Plan

**Crosswalk for the
City of San Jacinto
Emergency Operations Plan**

Purpose: A quick reference for determining whether an emergency plan has addressed critical elements.

Limitations: Plans must reflect the needs of the jurisdiction, in Particular the hazards that will likely impact them and their capabilities. The jurisdiction may use this document or another checklist.

Instructions: **Please take careful note of the following -**
Enter the reference (page number, paragraph, chapter, and section) or Not Applicable (N/A) in the space provided at the beginning of each item – if this is a city plan, make reference to the county plan if applicable. Many of the elements described below may be in documents separate from the primary emergency plan; if so, indicate placement in another document by (AD), and the name of the document. If the element is in multiple areas of the plan, provide sections with page numbers.

Potential Emergency Elements

Reference(s) (page number, paragraph, chapter, and section)	Element
Part 1– pg i – iv	1. Table of Contents Listing of where significant Parts of the plan are located by page number and subsection of the plan.
PART 1 – pg 1-1	2. Foreword/Preface/Introduction Provide a foreword, preface or introduction that explains why the plan was developed and how the plan is to be used.
PART 1 – pg i	3. Letter of Approval A dated letter of promulgation or resolution from the governing board.
PART 1 – pg 1-3 to 1-7	4. Legal Rationale of Plan Provide authorities for the plan and its development.
PART 1 – pg 1-6, 3-11 to 3-12 PART 2 – pg 1-2 to 1-5, 2-1, 2-2, 3-1, 4- 1, 4-2, 5-1, and 6-1	5. Standardized Emergency Management System (SEMS) based Emergency Organization Identify agency roles and responsibilities during disaster situation; include an emergency organization chart. Indicate how the jurisdiction fulfills the five SEMS sections (Management, Plans/Intelligence, Operations, Logistics, Finance/Administration).

Reference(s) (page number, paragraph, chapter, and section)	Element
PART 1 – pg 1-6, 3-11 to 3-12, PART 2 – pg 3-11 to 3-12	6. SEMS Indicate how the jurisdiction coordinates between the different SEMS levels (field, local, operational areas, region, state), how information is exchanged, how and when multi/inter-agency coordination and unified command are used. The Operational Area agreement should also be referenced; and the plan should indicate who performs the Operational Area responsibilities.
PART 1 – pg 5-1 to 5-7	7. Mutual Aid General description of mutual aid.
PART 1 – pg 1-1 to 1-7	8. Standard Operating Procedures (SOP) Development Ensure emergency response agencies develop and maintain SOPs. Indicate in the plan the relationship and purpose of SOPs to the plan.
PART 1 – Section 6 pg 6-7 to 6-9	9. Summarize the Jurisdictional Hazard Analysis. A description of potential hazards. This could be in a narrative with maps, schematic, or matrix indicating severity potential, affected population estimates, frequency, and geographical characteristics of the jurisdiction. This and other relevant information should be included to provide a rationale for prioritizing emergency preparedness actions for specific hazards.
N/A, PART 1 – pg 6-4 to 6-6, 6-8	10. Dam Safety Concerns If there are dams in the area, the plan should have, or reference inundation maps that indicate what areas could flood, the time the flood wave arrives at specific locations and when the water will recede. Operational information necessary to carry-out an evacuation of all potentially flooded areas should be indicated for each dam. This information required for each dam should include shelter locations, location of critical facilities such as government center hospitals, nursing homes, schools, day care centers, etc. Each dam evacuation plan should also indicate other facilities with large concentrations of disabled persons or persons that lack their own transportation, or requiring special assistance.
PART 1 – Section 6 pg 6-2 to 6-9	11. Other Hazards Specific to the Jurisdiction Since the Oklahoma City bombing the threat of domestic terrorism has gained the interest of emergency managers. Most of the State is prone to damages from earthquakes. Some coastal jurisdictions could be affected by tsunamis. Some alpine areas of the State are prone to avalanches and some to volcanic activity. The EOP should address response activities that are specific to all hazards that pose a threat to the jurisdiction.

Reference(s) (page number, paragraph, chapter, and section)	Element
PART 1 – pg 4-1 to 4-2, pg 11-13 to 11-14	12. Continuity of Government. Provide persons by position to succeed key government officials and members of the emergency management organization. Also indicate the level and duration of authority these individuals would assume.
PART 1 – pg 4-2	13. Alternate Government Facilities Indicate an alternate seat of government to serve as government offices for performing day-to-day functions and a facility that could serve as an alternate emergency operations center (EOC)
PART 1 – pg 3-3, 4-3	14. Vital Record Retention Indicate how vital records are to be protected in the event of a disaster. Most data storage systems have a back-up system. Identify the system, archiving schedules, and who has responsibility for its maintenance.
PART 1 – pg iv-v, 1-8	15. Emergency Plan Maintenance and Distribution Who maintains the emergency plan? What is the process? Detail schedules for modifications, revision list, distribution list, and who has responsibility for ensuring the plan is kept up-to-date.
Part 2 – Section 3; 3.2.7, pg.	16. Americans with Disabilities Act Identify in the plan how shelter facilities, evacuation/movement, warning, etc. procedures accommodate the provisions of the Americans with Disabilities Act.
PART 1 – pg 3-2, 3-5, pg 7-1 to 7-2,	17. Training and Exercises Briefly describe the training and exercise programs for the jurisdiction, including who has personal responsibility for the programs. Training should include EOP orientation, SEMS training, a full-scale exercise, and other training as deemed necessary.
PART 1 – pg i to iii	18. Plan Concurrence Provide evidence that the assigned emergency agencies are in agreement with how the plan describes their tasks. This may be in the form of a letter of concurrence or a sign-off sheet.
Initial Response Features	
PART 1 – pg 3-12,	19. Field (ICS)/EOC Interface Describe the direction and control relationship between the field responders (ICS) and the EOC. This should include the reporting of pertinent information.
PART 1 – pg 8-8 to 8-14, Part 2 – pg 1-3	20. Emergency Responder Notifications Include methods to contact emergency response personnel during normal and after-hours. This may be in the form of an alert list.
PART 1 – pg 3-12,	21. Use of the field Incident Command System (ICS) The plan must indicate how ICS will be used in the field. This

Reference(s) (page number, paragraph, chapter, and section)	Element
	should include the interface between the field Incident Command Post and the EOC. It should also indicate methods of integrating state and federal field activities into local emergency management operations.
PART 1 – pg 8-3, Part 2 – pg	22. Involvement of special districts, private and non-profit agencies Identify emergency responsibilities of special districts, private and volunteer agencies, and their roles in the EOC, REOC, Incident Command Post, or other emergency facility.
PART 1 – pg 3-12,	23. Field coordination with Department Operations Centers (DOCs) and EOCs The plan should include the use, and coordination, of DOCs and how they fit into the emergency management organization.
Emergency Operations Centers	
PART 1 – pg 3-13 to 3-16, pg 8-1,	24. Activation/Deactivation of EOC Indicate how, when, and by whom, the Emergency Operations Center will be activated and deactivated.
PART 1 – pg 4-2	25. Primary and Alternate EOC Indicate the location of both the primary and alternate EOC and what conditions would cause the alternate EOC to be activated.
PART 1 – pg 3-12 to 3-15 PART 2 – pg 1-1 to 1-5	26. Emergency Operations Center Organization Describe the roles and responsibilities of agencies and departments in the EOC, including who is responsible for ensuring the readiness of the EOC.
PART 1 – pg 8-3,	27. EOC Coordination Indicate how the EOC will coordinate and communicate with field units, operational areas, regions, and other entities, including the use of the Response Information Management System (RIMS).
PART 1 – pg 3-17 to 3-19	28. Emergency Declarations Indicate the purpose and process of emergency declarations (include samples).

Reference(s) (page number, paragraph, chapter, and section)	Element
<p>SEMS Functional EOC Checklists (include page number, paragraph, chapter, and section for each of the bulleted items in Elements number 29 to 33)</p>	
<p>PART 1 – pg 3-11 to 3-12, PART 2 – pg 2-1 to 2-24</p>	<p>29. Management Section Checklist should include the following activities and responsibilities:</p> <ul style="list-style-type: none"> • Overall EOC management • Public Information assignment • Identification of a media center • Rumor control • Public inquires • Provision for public safety communications and policy • Identification of a Safety Officer • Facility security • Agency liaison • State/federal field activity coordination
<p>PART 1 – pg 3-11 to 3-12, PART 2 – pg 3-1 to 3-47</p>	<p>30. Operations Section Checklist should include the following activities and responsibilities:</p> <ul style="list-style-type: none"> • General warning • Special population warning • Authority to activate Emergency Alert System • Inmate evacuation • Traffic direction and control • Debris removal • Evacuation • Evacuation and care for pets and livestock • Access control • Hazardous materials management • Coroner operations • Emergency medical care • Transportation management • Crisis counseling for emergency responders • Urban search and rescue • Disease prevention and control • Utility restoration • Flood operations • Initial damage assessments • Safety assessments • Shelter and feeding operations • Emergency food and water distribution

Reference(s) (page number, paragraph, chapter, and section)	Element
PART 1 – pg 3-11 to 3-12, PART 2 – pg 4-1 to 4-26	31. Planning/Intelligence Section Checklist should include the following activities and responsibilities: <ul style="list-style-type: none"> • Situation status • Situation analysis • Information display • Documentation • Advance planning • Technical services • Action planning • Demobilization
PART 1 – pg 3-11 to 3-12, PART 2 – pg 5-1 to 5-28	32. Logistics Section Checklist should include the following activities and responsibilities: <ul style="list-style-type: none"> • Field incident support • Communications support • Transportation support • Personnel • Supply and procurement • Resource tracking • Sanitation services • Computer support
PART 1 – pg 3-11 to 3-12 PART 2 – pg 6-1 to 6-17	33. Finance/Administration Section Checklist should include the following activities and responsibilities: <ul style="list-style-type: none"> • Fiscal management • Time-keeping • Purchasing • Compensation and claims • Cost recovery • Travel request, forms, claims
Recovery Operations	
PART 1 – pg 9-1 to 9-2,	34. General Overview Include a general recovery concept of operations.
PART 1 – pg 1-7, 3- 7, Section 9, PART 2 – pg 1-2, 4-2, 4-17 to 4- 18.	35. Organization Provide a description of the recovery organization along with a diagram.
PART 1 – pg 9-3 to 9-4,	36. Damage Assessment Describe the damage assessment organization and responsibilities.
PART 1 – pg 8-6 to 8-7, 9-3 to 9-6, PART 2 – pg 4-11 to 4-13	37. Documentation Describe the documentation process.

Reference(s) (page number, paragraph, chapter, and section)	Element
PART 1 – pg 9-4,	38. After-action Reports Include the OES After-Action Questionnaire.
PART 1 – Section 9 (Recovery Phase Ops) – pg 9-1 to 9-6	39. Disaster Assistance Describe the different programs, their purpose, restrictions, and application process. Include Public Assistance, Individual Assistance, and Hazard Mitigation Grant programs.
Hazardous Materials Area Plan	
PART 1 – pg 6-8 to 6-9 (Ref: RivCo LHMP), and PART 2 – pg 3-14 to 3-16.	40. Incorporate or reference the Hazardous Materials Area Plan requirements into the emergency plan.
Area Plan Requirements - Emergency Response Procedures	
PART 1 – pg 1-1 to 1-2, Figure 1.	a. In the hazardous materials response plan include procedures and protocols for emergency rescue personnel which address: guidelines for approach, recognition, and evaluation of releases.
PART 1 – pg 1-1 to 1-2, Figure 1.	b. Identify in the plan monitoring and decontamination guidelines for emergency response personnel and equipment.
PART 1 – pg 1-1 to 1-2, Figure 1.	c. Document pre-incident surveys of business sites by first responders, if necessary.
PART 1 – pg 1-1 to 1-2, Figure 1.	d. Include in the area plan procedures to access local, state, and federal, funding and emergency response assistance.
PART 1 – pg 1-1 to 1—2, Figure 1.	e. Provide in plans methods to access state approved and permitted hazardous waste disposal facilities and emergency response contractors.
PART 1 – pg 1-1 to 1-2, Figure 1.	f. Document the use of an integrated response management system providing standardized organizational structure, terminology, and procedures for use during any release or threatened release of hazardous materials.
PART 1 – pg 1-1 to 1-2, Figure 1.	g. Identify in the plan procedures for notification of and coordination with emergency response personnel, such as, but not limited to, law enforcement, fire service, medical and public health services, poison control centers, hospitals, and resources for the evacuation, reception and care of evacuated persons.
PART 1 – pg 1-1 to 1-2, Figure 1.	h. Provide in the plan procedures for utilizing alternative forms of emergency communications (such as amateur radio services) in the event of a loss of primary communications.
PART 1 – pg 1-1 to 1-2, Figure 1.	i. Include a responsibility matrix or listing of specific emergency responsibilities of responding organizations. This matrix or listing

Reference(s) (page number, paragraph, chapter, and section)	Element
	shall be developed in coordination with the listed responding organizations.
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>j.</i> Include procedures for notifying the Office of Emergency Services of any incidents.
<i>Area Plan Requirements - Training</i>	
PART 1 – pg 1-1 to 1-2, Figure 1, and pg 7-1 to 7-4.	<i>k.</i> Identify in the plan procedures for training emergency responders in the following areas: <ul style="list-style-type: none"> • First responder • Health and safety • Use of emergency response equipment and supplies • Accessing mutual aid • Hospital care of contaminated persons • Monitoring and decontamination of personnel and equipment • First-aid procedures for hazardous materials releases • Public notification • Critical incident stress briefings • Personnel training documentation • Exercises with business representatives and emergency responders
<i>Area Plan Requirements - Public Safety Information</i>	
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>l.</i> Include site security during releases of hazardous materials.
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>m.</i> Include provisions for informing business personnel and the affected public of safety procedures to follow during a release or threat of release.
PART 1 – pg 1-1 to 1-2, Figure 1, and pg 8-8 to 8-10.	<i>n.</i> Include procedures for public releases over the local Emergency Alert System.
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>o.</i> Document methods for notifying medical and health facilities of the nature of the incident, and the substance(s) involved should be documented.
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>p.</i> Identify procedures for assessing the need for evacuation, to include plume models.
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>q.</i> Indicate how centralized coordination of emergency response occurs, to include all disciplines.
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>r.</i> Identify public notification procedures with safety instructions to be used in the event of a threatened or actual release of hazardous materials.
PART 1 – pg 1-1 to 1-2, Figure 1.	<i>s.</i> Plans should include properties of hazardous materials, such as quantity, concentration, vapor pressure, density, and potential health affects for each site.
PART 1 – pg 1-1 to 1-2, Figure 1, and	<i>t.</i> Provide for each site possible release scenarios.

Reference(s) (page number, paragraph, chapter, and section)	Element
pg 6-8 to 6-9	
PART 1 – pg 1-1 to 1-2, Figure 1.	u. Provide for each site: facility characteristics, topography, meteorology, and demography of potentially affected areas.
PART 1 – pg 1-1 to 1-2, Figure 1.	v. Indicate for each site ingress and egress routes with alternatives.
PART 1 – pg 1-1 to 1-2, Figure 1.	w. Provide for each site location of medical resources trained for hazardous material response, mass care facilities, reception areas, sheltering and procedures for post-emergency population recovery.
Area Plan Requirements - Supplies and Equipment	
PART 1 – pg 1-1 to 1-2, Figure 1.	x. Area plans shall contain a listing and description of available emergency response equipment specific to hazardous materials response. This shall include a program for testing this equipment on a regular basis.
Area Plan Requirements - Incident Critique and Follow-up	
PART 1 – pg 1-1 to 1-2, Figure 1.	y. Area plans need to describe critique and follow-up procedures for major incidents of hazardous materials release or threat of release.
Appendices	
PART 1 – pg 1-3 to 1-4, PART 2 pg 7-1 to 7-16	41. References Identify the references used in developing the plan.
PART 1 – pg 8-4, PART 2 – pg 5-1, 5-18 to 5-25	42. Resources Identify sources for materials and supplies internally and externally.
PART 1 – Appendix A, pg A-1 to A-2	43. Glossary of Terms Provide a glossary that includes all the terms used throughout the plan.
PART 1 – pg 1-8 (Reference PART 4)	44. Contact List Include a list of agencies and personnel not internal to the organization but critical to emergency operations.
PART 1 – pg 7-2, (Reference: RivCo Training & Documentation Plan).	45. SEMS Supporting Documentation Include material necessary to self-certify compliance with SEMS. This should include evidence of training, planning, exercises, and performance.

APPENDIX O

Notice of Public Hearing

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN THAT, ON TUESDAY, MAY 3, 2016 AT 6:30 P.M., OR SOON THEREAFTER AT THE SAN JACINTO UNIFIED SCHOOL DISTRICT BOARD ROOM 2045 SOUTH SAN JACINTO AVENUE, SAN JACINTO, CALIFORNIA, THE SAN JACINTO CITY COUNCIL WILL HOLD A PUBLIC HEARING on the following:

Consideration of the 2015 Urban Water Management Plan Update – The City of San Jacinto has prepared a draft of the 2015 Urban Water Management Plan Update. This plan is an update to the City's 2010 Urban Water Management Plan and has been developed in compliance with the requirements of the Urban Water Management Planning Act and Water Conservation Bill of 2009. This plan describes the city's water deliveries and uses, water supply sources, water conservation measures and establishes daily per capita water use targets.

ALL MEMBERS OF THE PUBLIC, WHO WISH TO SPEAK IN FAVOR OF, OR IN OPPOSITION TO AN AGENDA ITEM, MAY SUBMIT A REQUEST TO SPEAK FORM AT THE MEETING PRIOR TO THE HEARING OF A PUBLIC HEARING ITEM. GROUPS WISHING TO ADDRESS THE PLANNING COMMISSION ON AN AGENDA ITEM ARE REQUESTED TO SELECT A REPRESENTATIVE AND PROVIDE AN OUTLINE OF THE PRESENTATION PRIOR TO THE MEETING. GROUPS OR INDIVIDUALS THAT WISH TO CHALLENGE AN ACTION OF THE PLANNING COMMISSION, MAY BE LIMITED IN THEIR CHALLENGE TO ONLY THOSE ISSUES THAT WERE ADDRESSED AT THE TIME OF THE PUBLIC HEARING.

A COPY OF THE **DRAFT** 2015 URBAN WATER MANAGEMENT PLAN IS AVAILABLE FOR REVIEW AT WWW.CI.SAN-JACINTO.CA.US OR IN THE COMMUNITY DEVELOPMENT DEPARTMENT, 595 S. SAN JACINTO AVE, SAN JACINTO, CA. PHONE: (951) 654-4041. ALL INTERESTED PARTIES ARE INVITED TO ATTEND.

COMMENTS ON OR QUESTIONS ABOUT THE URBAN WATER MANAGEMENT PLAN SHOULD BE DIRECTED TO:

City of San Jacinto Public Works Department
Dan Mudrovich, Water Utility Superintendent
dmudrovich@sanjacintoca.us

PUBLISH DATE: April 1, 2016



MEMORANDUM

TO: CITY OF SAN JACINTO CITY CLERK

FROM: CITY OF SAN JACINTO

SUBJECT: NOTICE OF PUBLIC HEARING

DATE: APRIL 1, 2016

The City of San Jacinto (City) will hold a PUBLIC HEARING on May 3, 2016 at 6:30 PM for the purpose of adopting its 2015 draft Urban Water Management Plan.

The 2015 draft Urban Water Management Plan (Plan) was prepared pursuant to the “Urban Water Management Planning Act”, California Water Code, Sections 10608 through 10656. The State Department of Water Resources requires every urban water supplier to prepare and adopt a Plan and periodically update that plan at least once every five years, in years ending in five and zero.

Information regarding the City’s PUBLIC HEARING follows:

Date: May 3, 2016
Time: 06:30 PM
Place: San Jacinto Unified School District Board Room
2045 South San Jacinto Ave.
San Jacinto, California 92583

The City invites all interested parties and groups to attend and present their comments. A copy of the draft 2015 Plan is available at the City’s office and website. Please provide comments by 5 p.m. on May 2, 2016 to the City at 595 S. San Jacinto Ave, San Jacinto, CA 92583.



MEMORANDUM

**TO: COUNTY OF RIVERSIDE
ATTN: COUNTY ADMINISTRATION CENTER
4080 LEMON ST.
RIVERSIDE, CA 92501**

FROM: CITY OF SAN JACINTO

SUBJECT: NOTICE OF PUBLIC HEARING

DATE: APRIL 1, 2016

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MEMORANDUM

**TO: EASTERN MUNICIPAL WATER DISTRICT
PO BOX 8300
PERRIS, CA 92572-8300**

FROM: CITY OF SAN JACINTO

SUBJECT: NOTICE OF PUBLIC HEARING

DATE: APRIL 1, 2016

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Address: P O BOX 488
SAN JACINTO, CA 92583

Account #: 1100141775
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Placed By: David Clayton
Fax #:

Ad Information

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Consideration of the 2015 Urban Water Management Plan Update - The City of San Jacinto has prepared a draft of the 2015 Urban Water Management Plan Update. This plan is an update to the City's 2010 Urban Water Management Plan and has been developed in compliance with the requirements of the Urban Water Management Planning Act and Water Conservation Bill of 2009. This plan describes the city's water deliveries and uses, water supply sources, water conservation measures and establishes daily per capita water use targets.

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COMMENTS ON OR QUESTIONS ABOUT THE URBAN WATER MANAGEMENT PLAN SHOULD BE DIRECTED TO:

City of San Jacinto Public Works Department
Dan Mudrovich, Water Utility Superintendent
dmudrovich@sanjacintoca.us

PUBLISH DATE: April 1, 2016 and April 7, 2016

APPENDIX P

Resolution Adopting the City of San Jacinto's 2015 Urban Water Management Plan

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAN JACINTO,
CALIFORNIA, ADOPTING THE 2015 URBAN WATER MANAGEMENT PLAN**

WHEREAS, the Urban Water Management Planning Act (California Water Code section 10610 *et seq.*) requires urban water suppliers providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually to prepare, update, and adopt an Urban Water Management Plan at least once every five years; and

WHEREAS, the City of San Jacinto (City) is an urban water supplier providing water to over 4,200 active connections, and therefore is subject to the requirements of the Urban Water Management Planning Act and the Water Conservation Act of 2009 (California Water Code section 10608 *et seq.*); and

WHEREAS, the purpose of the Urban Water Management Plan, among other things, is to evaluate current and projected water supplies and demands within the water supplier's service area during average, single-dry, and multiple-dry year periods over the next 20-year horizon, establish a plan for water conservation, establish a water shortage contingency plan, and develop other water management strategies to help use water resources efficiently and to ensure supply reliability; and

WHEREAS, the City's 2015 Urban Water Management Plan must be adopted by the City Council, after public review and hearing, and filed with the California Department of Water Resources within thirty (30) days after adoption, and no later than July 1, 2016; and

WHEREAS, the City has prepared and circulated for public review a draft "2015 Urban Water Management Plan," and has conducted a properly noticed public hearing, pursuant to section 6066 of the California Government Code, regarding this Plan, which was heard by the City Council on May 3, 2016.

NOW, THEREFORE, BE IT RESOLVED AS Follows:

SECTION 1. The 2015 Urban Water Management Plan, attached hereto and incorporated herein by this reference is hereby adopted by Resolution..

SECTION 2. The Public Works Director or designee is hereby directed to include a copy of this Resolution in the City's 2015 Urban Water Management Plan.

SECTION 3. The Public Works Director or designee is hereby directed, in accordance with the requirements of the Urban Water Management Planning Act, to electronically file and submit the

2015 Urban Water Management Plan with the California Department of Water Resources within thirty (30) days after this date and no later than July 1, 2016.

SECTION 4. The Public Works Director or designee, is hereby directed, in accordance with the requirements of the Urban Water Management Planning Act, to submit copies of the 2015 Urban Water Management Plan to the California State Library, and to any city or county within which the City provides water supplies within thirty (30) days after this date.

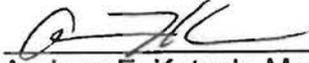
SECTION 5. The Public Works Director or designee, is hereby directed, in accordance with the requirements of the Urban Water Management Planning Act, to make the 2015 Urban Water Management Plan available for public review at the City's offices during normal business hours no later than thirty (30) days after filing a copy of the Plan with the California Department of Water Resources.

Section 6. Effective Date. This Resolution shall become effective upon its adoption.

PASSED, APPROVED AND ADOPTED at a regular meeting of the City Council on the 3rd Day of May, 2016 by the following vote:

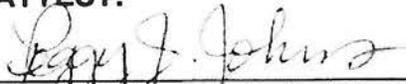
Ayes:	Ledezma, Miller, Ruiz, Kotyuk
Nays:	None
Absent:	None
Abstain:	None

City of San Jacinto



Andrew F. Kotyuk, Mayor

ATTEST:



Peggy J. Johns, Interim City Clerk

APPROVED AS TO FORM:
BEST, BEST & KRIEGER LLP



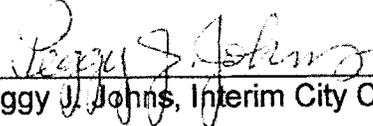
Jeffrey S. Ballinger, City Attorney

CERTIFICATION

I, Peggy J. Johns, Interim City Clerk of the City of San Jacinto, do hereby certify that the foregoing Resolution No. 3619 was duly passed and adopted at a regular meeting of the City Council of the City of San Jacinto held on the 3rd day of May, 2016, by the following vote:

AYES:	Ledezma, Miller, Ruiz, Kotyuk
NAYS:	None
ABSENT:	None
ABSTAIN:	None

IN WITNESS WHEREOF, I have hereunto set my hand and the Official Seal of the City of San Jacinto this 3rd day of May, 2016.



Peggy J. Johns, Interim City Clerk.