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# Appendix A: Urban Water Management Planning Act

# Appendix A. California Water Code – Urban Water Management Planning

**This material is for informational purposes only and not to be used in place of official California Water Code (Water Code).**

This document presents updated sections of Water Code as of January 1, 2020, as compiled by DWR staff. The selection focuses on the portions of code directly relevant to preparation of the urban water management plan and contextually relevant to urban water suppliers and the Department of Water Resources (DWR). This includes the Urban Water Management Planning Act and the Sustainable Water Use and Demand Reduction (SB X7-7), and more. Further legislative information is available on the California Legislative Information website at https://leginfo.legislature.ca.gov/.

The following Water Code sections are included in this appendix.

- **Sustainable Water Use and Demand Reduction (SB X7-7) Water Code Division 6, Part 2.55**
  - **Chapter 1. General Declarations and Policy**, Sections 10608 – 10608.8
  - **Chapter 2. Definitions**, Section 10608.12
  - **Chapter 3. Urban Retail Water Suppliers**, Sections 10608.16 – 10608.44
  - **Chapter 4. Agricultural Water Suppliers**, Section 10608.48
  - **Chapter 5. Sustainable Water Management**, Section 10608.50
  - **Chapter 6. Standardized Data Collection**, Section 10608.52
  - **Chapter 7. Funding Provisions**, Sections 10608.56 – 10608.60
  - **Chapter 8. Quantifying Agricultural Water Use Efficiency**, Section 10608.64

- **Urban Water Management Planning Act**
  **Water Code Division 6, Part 2.6**
    - **Chapter 1. General Declaration and Policy**, Sections 10610 – 10610.4
    - **Chapter 2. Definitions**, Sections 10611 – 10618
    - **Chapter 3. Urban Water Management Plans**
      Article 1. General Provisions, Sections 10620 – 10621
      Article 2. Contents of Plans, Sections 10630 – 10634
      Article 2.5. Water Service Reliability, Section 10635
      Article 3. Adoption and Implementation of Plans, Sections 10640 – 10645
    - **Chapter 4. Miscellaneous Provisions**, Sections 10650 – 10657

## PART 2.55. SUSTAINABLE WATER USE AND DEMAND REDUCTION
## CHAPTER 1. General Declaration and Policy [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 [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 retail water 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) "CII water use" means water used by commercial water users, industrial water users, institutional water users, and large landscape water users.

(e) "Commercial water user" means a water user that provides or distributes a product or service.

(f) "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.

(g) "Disadvantaged community" means a community with an annual median household income that is less than 80 percent of the statewide annual median household income.

(h) "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.

(i) "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.

(j) "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.

(k) "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.

(l) "Large landscape" means a nonresidential landscape as described in the performance measures for CII water use adopted pursuant to Section 10609.10.

(m) "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.

(n) "Performance measures" means actions to be taken by urban retail water suppliers that will result in increased water use efficiency by CII water users. Performance measures may include, but are not limited to, educating CII water users on best management practices, conducting water use audits, and preparing water management plans. Performance measures do not include process water.

(o) "Potable reuse" means direct potable reuse, indirect potable reuse for groundwater recharge, and reservoir water augmentation as those terms are defined in Section 13561.

(p) "Process water" means water used by industrial water users for producing a product or product content or water used for research and development. Process water includes, but is not limited to, continuous manufacturing processes, and water used for testing, cleaning, and maintaining equipment. Water used to cool machinery or buildings used in the manufacturing process or necessary to maintain product quality or chemical characteristics for product manufacturing or control rooms, data centers, laboratories, clean rooms, and other industrial facility units that

are integral to the manufacturing or research and development process is process water. Water used in the manufacturing process that is necessary for complying with local, state, and federal health and safety laws, and is not incidental water, is process water. Process water does not mean incidental water uses.

(q) "Recycled water" means recycled water, as defined in subdivision (n) of Section 13050.

(r) "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.

(s) "Reporting period" means the years for which an urban retail water supplier reports compliance with the urban water use targets.

(t) "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.

(u) "Urban water use objective" means an estimate of aggregate efficient water use for the previous year based on adopted water use efficiency standards and local service area characteristics for that year, as described in Section 10609.20.

(v) "Urban water use target" means the urban retail water supplier's targeted future daily per capita water use.

(w) "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 [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.

(1) 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 2017 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 website, 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 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.

**10608.34.** (a) (1) On or before January 1, 2017, the department shall adopt rules for all of the following:

(A) The conduct of standardized water loss audits by urban retail water suppliers in accordance with the method adopted by the American Water Works Association in the third edition of Water Audits and Loss Control Programs, Manual M36 and in the Free Water Audit Software, version 5.0.

(B) The process for validating a water loss audit report prior to submitting the report to the department. For the purposes of this section, "validating" is a process whereby an urban retail water supplier uses a technical expert to confirm the basis of all data entries in the urban retail water supplier's water loss audit report and to appropriately characterize the quality of the reported data. The validation process shall follow the principles and terminology laid out by the American Water Works Association in the third edition of Water Audits and Loss Control Programs, Manual M36 and in the Free Water Audit Software, version 5.0. A validated water loss audit report shall include the name and technical qualifications of the person engaged for validation.

(C) The technical qualifications required of a person to

engage in validation, as described in subparagraph (B).

(D) The certification requirements for a person selected by an urban retail water supplier to provide validation of its own water loss audit report.

(E) The method of submitting a water loss audit report to the department.

(2) The department shall update rules adopted pursuant to paragraph (1) no later than six months after the release of subsequent editions of the American Water Works Association's Water Audits and Loss Control Programs, Manual M36. Except as provided by the department, until the department adopts updated rules pursuant to this paragraph, an urban retail water supplier may rely upon a subsequent edition of the American Water Works Association's Water Audits and Loss Control Programs, Manual M36 or the Free Water Audit Software.

(b) (1) On or before October 1 of each year until October 1, 2023, each urban retail water supplier reporting on a calendar year basis shall submit a completed and validated water loss audit report for the previous calendar year or the previous fiscal year as prescribed by the department pursuant to subdivision (a).

(2) On or before January 1 of each year until January 1, 2024, each urban retail water supplier reporting on a fiscal year basis shall submit a completed and validated water loss audit report for the previous fiscal year as prescribed by the department pursuant to subdivision (a).

(3) On or before January 1, 2024, and on or before January 1 of each year thereafter, each urban retail water supplier shall submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as part of the report submitted to the department pursuant to subdivision (a) of Section 10609.24 and as prescribed by the department pursuant to subdivision (a).

(4) Water loss audit reports submitted on or before October 1, 2017, may be completed and validated with assistance as described in subdivision (c).

(c) Using funds available for the 2016–17 fiscal year, the board shall contribute up to four hundred thousand dollars ($400,000) towards procuring water loss audit report validation assistance for urban retail water suppliers.

(d) Each water loss audit report submitted to the department shall be accompanied by information, in a form specified by the department, identifying steps taken in the preceding year to increase the validity of data entered into the final audit, reduce the volume of apparent losses, and reduce the volume of real losses.

(e) At least one of the following employees of an urban retail water supplier shall attest to each water loss audit report submitted to the department:

(1) The chief financial officer.

(2) The chief engineer.

(3) The general manager.

(f) The department shall deem incomplete and return to the urban retail water supplier any final water loss audit report found by the department to be incomplete, not validated, unattested, or incongruent with known characteristics of water system operations. A water supplier shall resubmit a completed water loss audit report within 90 days of an audit being returned by the department.

(g) The department shall post all validated water loss audit reports on its internet website in a manner that allows for comparisons across water suppliers. The department shall make the validated water loss audit reports available for public viewing in a timely manner after their receipt.

(h) Using available funds, the department shall provide technical assistance to guide urban retail water suppliers' water loss detection programs, including, but not limited to, metering techniques, pressure management techniques, condition-based assessment techniques for transmission and distribution pipelines, and utilization of portable and permanent water loss detection devices.

(i) No earlier than January 1, 2019, and no later than July 1, 2020, the board shall adopt rules requiring urban retail water suppliers to meet performance standards for the volume of water losses. In

adopting these rules, the board shall employ full life-cycle cost accounting to evaluate the costs of meeting the performance standards. The board may consider establishing a minimum allowable water loss threshold that, if reached and maintained by an urban water supplier, would exempt the urban water supplier from further water loss reduction requirements.

**10608.35.** (a) The department, in coordination with the board, shall conduct necessary studies and investigations and make a recommendation to the Legislature, by January 1, 2020, on the feasibility of developing and enacting water loss reporting requirements for urban wholesale water suppliers.

(b) The studies and investigations shall include an evaluation of the suitability of applying the processes and requirements of Section 10608.34 to urban wholesale water suppliers.

(c) In conducting necessary studies and investigations and developing its recommendation, the department shall solicit broad public participation from stakeholders and other interested persons.

**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 [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 both 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 department shall require information about the implementation of efficient water management practices to 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.

(f) 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.

(g) 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.

(h) (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 [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 [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 [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 [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.

**PART 2.55. SUSTAINABLE WATER USE AND DEMAND REDUCTION [10608 – 10609.42]**

**CHAPTER 9. Urban Water Use Objectives and Water Use Reporting [10609 – 10609.38]**

**10609.** (a) The Legislature finds and declares that this chapter establishes a method to estimate the aggregate amount of water that would have been delivered the previous year by an urban retail water supplier if all that water had been used efficiently. This estimated aggregate water use is the urban retail water supplier's urban water use objective. The method is based on water use efficiency standards and local service area characteristics for that year. By comparing the amount of water actually used in the previous year with the urban water use objective, local urban water suppliers will be in a better position to help eliminate unnecessary use of water; that is, water used in excess of that needed to accomplish the intended beneficial use.

(b) The Legislature further finds and declares all of the following:

(1) This chapter establishes standards and practices for the following water uses:

(A) Indoor residential use.

(B) Outdoor residential use.

(C) CII water use.

(D) Water losses.

(E) Other unique local uses and situations that can have a material effect on an urban water supplier's total water use.

(2) This chapter further does all of the following:

(A) Establishes a method to calculate each urban water use objective.

(B) Considers recycled water quality in establishing efficient irrigation standards.

(C) Requires the department to provide or otherwise identify data regarding the unique local conditions to support the calculation of an urban water use objective.

(D) Provides for the use of alternative sources of data if alternative sources are shown to be as accurate as, or more accurate than, the data provided by the department.

(E) Requires annual reporting of the previous year's water use with the urban water use objective.

(F) Provides a bonus incentive for the amount of potable recycled water used the previous year when comparing the previous year's water use with the urban water use objective, of up to 10 percent of the urban water use objective.

(3) This chapter requires the department and the board to solicit broad public participation from stakeholders and other interested persons in the development of the standards and the adoption of regulations pursuant to this chapter.

(4) This chapter preserves the Legislature's authority over long-term water use efficiency target setting and ensures appropriate legislative oversight of the implementation of this chapter by doing all of the following:

(A) Requiring the Legislative Analyst to conduct a review of the implementation of this chapter, including compliance with the adopted standards and regulations, accuracy of the data, use of alternate data, and other issues the Legislative Analyst deems appropriate.

(B) Stating legislative intent that the director of the department and the chairperson of the board appear before the appropriate Senate and Assembly policy committees to report on progress in implementing this chapter.

(C) Providing one-time-only authority to the department and board to adopt water use efficiency standards, except as explicitly provided in this chapter. Authorization to update the standards shall require separate legislation.

(c) It is the intent of the Legislature that the following principles apply to the development and implementation of long-term standards and urban water use objectives:

(1) Local urban retail water suppliers should have primary responsibility for meeting standards-based water use targets, and they shall retain the flexibility to develop their water supply portfolios, design and implement water conservation strategies, educate their customers, and enforce their rules.

(2) Long-term standards and urban water use objectives should advance the state's goals to mitigate and adapt to climate change.

(3) Long-term standards and urban water use objectives should acknowledge the shade, air quality, and heat-island reduction benefits provided to communities by trees through the support of water-efficient irrigation practices that keep trees healthy.

(4) The state should identify opportunities for streamlined reporting, eliminate redundant data submissions, and incentivize open access to data collected by urban and agricultural water suppliers.

**10609.2.** (a) The board, in coordination with the department, shall adopt long-term standards for the efficient use of water pursuant to this chapter on or before June 30, 2022.

(b) Standards shall be adopted for all of the following:

(1) Outdoor residential water use.

(2) Outdoor irrigation of landscape areas with dedicated irrigation meters in connection with CII water use.

(3) A volume for water loss.

(c) When adopting the standards under this section, the board shall consider the policies of this chapter and the proposed efficiency standards' effects on local wastewater management, developed and natural parklands, and urban tree health. The standards and potential effects shall be identified by May 30, 2022. The board shall allow for public comment on potential effects identified by the board under this subdivision.

(d) The long-term standards shall be set at a level designed so that the water use objectives, together with other demands excluded from the long-term standards such as CII indoor water use and CII outdoor water use not connected to a dedicated landscape meter, would exceed the statewide conservation targets required pursuant to Chapter 3 (commencing with Section 10608.16).

(e) The board, in coordination with the department, shall adopt by regulation variances recommended by the department pursuant to Section 10609.14 and guidelines and methodologies pertaining to the calculation of an urban retail water supplier's urban water use objective recommended by the department pursuant to Section 10609.16.

**10609.4.** (a) (1) Until January 1, 2025, the standard for indoor residential water use shall be 55 gallons per capita daily.

(2) Beginning January 1, 2025, and until January 1, 2030, the

standard for indoor residential water use shall be the greater of 52.5 gallons per capita daily or a standard recommended pursuant to subdivision (b).

(3) Beginning January 1, 2030, the standard for indoor residential water use shall be the greater of 50 gallons per capita daily or a standard recommended pursuant to subdivision (b).

(b) (1) The department, in coordination with the board, shall conduct necessary studies and investigations and may jointly recommend to the Legislature a standard for indoor residential water use that more appropriately reflects best practices for indoor residential water use than the standard described in subdivision (a). A report on the results of the studies and investigations shall be made to the chairpersons of the relevant policy committees of each house of the Legislature by January 1, 2021, and shall include information necessary to support the recommended standard, if there is one. The studies and investigations shall also include an analysis of the benefits and impacts of how the changing standard for indoor residential water use will impact water and wastewater management, including potable water usage, wastewater, recycling and reuse systems, infrastructure, operations, and supplies.

(2) The studies, investigations, and report described in paragraph (1) shall include collaboration with, and input from, a broad group of stakeholders, including, but not limited to, environmental groups, experts in indoor plumbing, and water, wastewater, and recycled water agencies.

**10609.6.** (a) (1) The department, in coordination with the board, shall conduct necessary studies and investigations and recommend, no later than October 1, 2021, standards for outdoor residential use for adoption by the board in accordance with this chapter.

(2) (A) The standards shall incorporate the principles of the model water efficient landscape ordinance adopted by the department pursuant to the Water Conservation in Landscaping Act (Article 10.8 (commencing with Section 65591) of Chapter 3 of Division 1 of Title 7 of the Government Code).

(B) The standards shall apply to irrigable lands.

(C) The standards shall include provisions for swimming pools, spas, and other water features. Ornamental water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, shall be analyzed separately from swimming pools and spas.

(b) The department shall, by January 1, 2021, provide each urban retail water supplier with data regarding the area of residential irrigable lands in a manner that can reasonably be applied to the standards adopted pursuant to this section.

(c) The department shall not recommend standards pursuant to this section until it has conducted pilot projects or studies, or some combination of the two, to ensure that the data provided to local agencies are reasonably accurate for the data's intended uses, taking into consideration California's diverse landscapes and community characteristics.

**10609.8.** (a) The department, in coordination with the board, shall conduct necessary studies and investigations and recommend, no later than October 1, 2021, standards for outdoor irrigation of landscape areas with dedicated irrigation meters or other means of calculating outdoor irrigation use in connection with CII water use for adoption by the board in accordance with this chapter.

(b) The standards shall incorporate the principles of the model water efficient landscape ordinance adopted by the department pursuant to the Water Conservation in Landscaping Act (Article 10.8 (commencing with Section 65591) of Chapter 3 of Division 1 of Title 7 of the Government Code).

(c) The standards shall include an exclusion for water for commercial agricultural use meeting the definition of subdivision (b) of Section 51201 of the Government Code.

**10609.9.** For purposes of Sections 10609.6 and 10609.8, "principles of the model water efficient landscape ordinance" means those provisions of the model water efficient landscape ordinance applicable to the establishment or determination of the amount of water necessary to efficiently irrigate both new and existing landscapes. These provisions include, but are not limited to, all of the following:

(a) Evapotranspiration adjustment factors, as applicable.

(b) Landscape area.

(c) Maximum applied water allowance.

(d) Reference evapotranspiration.

(e) Special landscape areas, including provisions governing evapotranspiration adjustment factors for different types of water used for irrigating the landscape.

**10609.10.** (a) The department, in coordination with the board, shall conduct necessary studies and investigations and recommend, no later than October 1, 2021, performance measures for CII water use for adoption by the board in accordance with this chapter.

(b) Prior to recommending performance measures for CII water use, the department shall solicit broad public participation from stakeholders and other interested persons relating to all of the following:

(1) Recommendations for a CII water use classification system for California that address significant uses of water.

(2) Recommendations for setting minimum size thresholds for converting mixed CII meters to dedicated irrigation meters, and evaluation of, and recommendations for, technologies that could be used in lieu of requiring dedicated irrigation meters.

(3) Recommendations for CII water use best management practices, which may include, but are not limited to, water audits and water management plans for those CII customers that exceed a recommended size, volume of water use, or other threshold.

(c) Recommendations of appropriate performance measures for CII water use shall be consistent with the October 21, 2013, report to the Legislature by the Commercial, Industrial, and Institutional Task Force entitled "Water Use Best Management Practices," including the technical and financial feasibility recommendations provided in that report, and shall support the economic productivity of California's commercial, industrial, and institutional sectors.

(d) (1) The board, in coordination with the department, shall adopt performance measures for CII water use on or before June 30, 2022.

(a) Each urban retail water supplier shall implement the performance measures adopted by the board pursuant to paragraph (1).

**10609.12.** The standards for water loss for urban retail water suppliers shall be the standards adopted by the board pursuant to subdivision (i) of Section 10608.34.

**10609.14.** (a) The department, in coordination with the board, shall conduct necessary studies and investigations and, no later than October 1, 2021, recommend for adoption by the board in accordance with this chapter appropriate variances for unique uses that can have a material effect on an urban retail water supplier's urban water use objective.

(b) Appropriate variances may include, but are not limited to, allowances for the following:

(1) Significant use of evaporative coolers.

(2) Significant populations of horses and other livestock.

(3) Significant fluctuations in seasonal populations.

(4) Significant landscaped areas irrigated with recycled water having high levels of total dissolved solids.

(5) Significant use of water for soil compaction and dust control.

(6) Significant use of water to supplement ponds and lakes to sustain wildlife.

(7) Significant use of water to irrigate vegetation for fire protection.

(8) Significant use of water for commercial or noncommercial agricultural use.

(c) The department, in recommending variances for adoption by the board, shall also recommend a threshold of significance for each recommended variance.

(d) Before including any specific variance in calculating an urban retail water supplier's water use objective, the urban retail water supplier shall request and receive approval by the board for the inclusion of that variance.

(e) The board shall post on its Internet Web site all of the following:

(1) A list of all urban retail water suppliers with approved variances.

(2) The specific variance or variances approved for each urban retail water supplier.

(3) The data supporting approval of each variance.

**10609.15.** To help streamline water data reporting, the department and the board shall do all of the following:

(a) Identify urban water reporting requirements shared by both agencies, and post on each agency's Internet Web site how the data is used for planning, regulatory, or other purposes.

(b) Analyze opportunities for more efficient publication of urban water reporting requirements within each agency, and analyze how each agency can integrate various data sets in a publicly accessible location, identify priority actions, and implement priority actions identified in the analysis.

(c) Make appropriate data pertaining to the urban water reporting requirements that are collected by either agency available to the public according to the principles and requirements of the Open and Transparent Water Data Act (Part 4.9 (commencing with Section 12400)).

**10609.16.** The department, in coordination with the board, shall conduct necessary studies and investigations and recommend, no later than October 1, 2021, guidelines and methodologies for the board to adopt that identify how an urban retail water supplier calculates its urban water use objective. The guidelines and methodologies shall address, as necessary, all of the following:

(a) Determining the irrigable lands within the urban retail water supplier's service area.

(b) Updating and revising methodologies described pursuant to subparagraph (A) of paragraph (1) of subdivision (h) of Section 10608.20, as appropriate, including methodologies for calculating the population in an urban retail water supplier's service area.

(c) Using landscape area data provided by the department or alternative data.

(d) Incorporating precipitation data and climate data into estimates of a urban retail water supplier's outdoor irrigation budget for its urban water use objective.

(e) Estimating changes in outdoor landscape area and population, and calculating the urban water use objective, for years when updated landscape imagery is not available from the department.

(f) Determining acceptable levels of accuracy for the supporting data, the urban water use objective, and compliance with the urban water use objective.

**10609.18.** The department and the board shall solicit broad public participation from stakeholders and other interested persons in the development of the standards and the adoption of regulations pursuant to this chapter. The board shall hold at least one public meeting before taking any action on any standard or variance recommended by the department.

**10609.20.** (a) Each urban retail water supplier shall calculate its urban water use objective no later than January 1, 2024, and by January 1 every year thereafter.

(b) The calculation shall be based on the urban retail water supplier's water use conditions for the previous calendar or fiscal year.

(c) Each urban water supplier's urban water use objective shall be composed of the sum of the following:

(1) Aggregate estimated efficient indoor residential water use.

(2) Aggregate estimated efficient outdoor residential water use.

(3) Aggregate estimated efficient outdoor irrigation of landscape areas with dedicated irrigation meters or equivalent technology in connection with CII water use.

(4) Aggregate estimated efficient water losses.

(5) Aggregate estimated water use in accordance with variances, as appropriate.

(d) (1) An urban retail water supplier that delivers water from a groundwater basin, reservoir, or other source that is augmented by potable reuse water may adjust its urban water use objective by a bonus incentive calculated pursuant to this subdivision.

(2) The water use objective bonus incentive shall be the volume of its potable reuse delivered to residential water users and to landscape areas with dedicated irrigation meters in connection with CII water use, on an acre-foot basis.

(3) The bonus incentive pursuant to paragraph (1) shall be limited in accordance with one of the following:

(A) The bonus incentive shall not exceed 15 percent of the urban water supplier's water use objective for any potable reuse water produced at an existing facility.

(B) The bonus incentive shall not exceed 10 percent of the urban water supplier's water use objective for any potable reuse water produced at any facility that is not an existing facility.

(4) For purposes of this subdivision, "existing facility" means a facility that meets all of the following:

(A) The facility has a certified environmental impact report, mitigated negative declaration, or negative declaration on or before January 1, 2019.

(B) The facility begins producing and delivering potable reuse water on or before January 1, 2022.

(C) The facility uses microfiltration and reverse osmosis technologies to produce the potable reuse water.

(e) (1) The calculation of the urban water use objective shall be made using landscape area and other data provided by the department and pursuant to the standards, guidelines, and methodologies adopted by the board. The department shall provide data to the urban water supplier at a level of detail sufficient to allow the urban water supplier to verify its accuracy at the parcel level.

(2) Notwithstanding paragraph (1), an urban retail water supplier may use alternative data in calculating the urban water use objective if the supplier demonstrates to the department that the alternative data are equivalent, or superior, in quality and accuracy to the data provided by the department. The department may provide technical assistance to an urban retail water supplier in evaluating whether the alternative data are appropriate for use in calculating the supplier's urban water use objective.

**10609.21.** (a) For purposes of Section 10609.20, and notwithstanding paragraph (4) of subdivision (d) of Section 10609.20, "existing facility" also includes the North City Project, phase one of the Pure Water San Diego Program, for which an environmental impact report was certified on April 10, 2018.

(b) This section shall become operative on January 1, 2019.

**10609.22.** (a) An urban retail water supplier shall calculate its actual urban water use no later than January 1, 2024, and by January 1 every year thereafter.

(b) The calculation shall be based on the urban retail water supplier's water use for the previous calendar or fiscal year.

(c) Each urban water supplier's urban water use shall be composed of the sum of the following:

(1) Aggregate residential water use.

(2) Aggregate outdoor irrigation of landscape areas with dedicated irrigation meters in connection with CII water use.

(3) Aggregate water losses.

**10609.24.** (a) An urban retail water supplier shall submit a report to the department no later than January 1, 2024, and by January 1 every year thereafter. The report shall include all of the following:

(1) The urban water use objective calculated pursuant to Section 10609.20 along with relevant supporting data.

(2) The actual urban water use calculated pursuant to Section 10609.22 along with relevant supporting data.

(3) Documentation of the implementation of the performance measures for CII water use.

(4) A description of the progress made towards meeting the urban water use objective.

(5) The validated water loss audit report conducted pursuant to Section 10608.34.

(b) The department shall post the reports and information on its internet website.

(c) The board may issue an information order or conservation order to, or impose civil liability on, an entity or individual for failure to submit a report required by this section.

**10609.25.** As part of the first report submitted to the department by an urban retail water supplier no later than January 1, 2024, pursuant to subdivision (a) of Section 10609.24, each urban retail water supplier shall provide a narrative that describes the water demand management measures that the supplier plans to implement to achieve its urban water use objective by January 1, 2027.

**10609.26.** (a) (1) On and after January 1, 2024, the board may issue informational orders pertaining to water production, water use, and water conservation to an urban retail water supplier that does not meet its urban water use objective required by this chapter. Informational orders are intended to obtain information on supplier activities, water production, and conservation efforts in order to identify technical assistance needs and assist urban water suppliers in meeting their urban water use objectives.

(2) In determining whether to issue an informational order, the board shall consider the degree to which the urban retail water supplier is not meeting its urban water use objective, information provided in the report required by Section 10609.24, and actions the urban retail water supplier has implemented or will implement in order to help meet the urban water use objective.

(3) The board shall share information received pursuant to this subdivision with the department.

(4) An urban water supplier may request technical assistance from the department. The technical assistance may, to the extent available, include guidance documents, tools, and data.

(b) On and after January 1, 2025, the board may issue a written notice to an urban retail water supplier that does not meet its urban water use objective required by this chapter. The written notice may warn the urban retail water supplier that it is not meeting its urban water use objective described in Section 10609.20 and is not making adequate progress in meeting the urban water use objective, and may request that the urban retail water supplier

address areas of concern in its next annual report required by Section 10609.24. In deciding whether to issue a written notice, the board may consider whether the urban retail water supplier has received an informational order, the degree to which the urban retail water supplier is not meeting its urban water use objective, information provided in the report required by Section 10609.24, and actions the urban retail water supplier has implemented or will implement in order to help meet its urban water use objective.

(c) (1) On and after January 1, 2026, the board may issue a conservation order to an urban retail water supplier that does not meet its urban water use objective. A conservation order may consist of, but is not limited to, referral to the department for technical assistance, requirements for education and outreach, requirements for local enforcement, and other efforts to assist urban retail water suppliers in meeting their urban water use objective.

(2) In issuing a conservation order, the board shall identify specific deficiencies in an urban retail water supplier's progress towards meeting its urban water use objective, and identify specific actions to address the deficiencies.

(3) The board may request that the department provide an urban retail water supplier with technical assistance to support the urban retail water supplier's actions to remedy the deficiencies.

(d) A conservation order issued in accordance with this chapter may include requiring actions intended to increase water-use efficiency, but shall not curtail or otherwise limit the exercise of a water right, nor shall it require the imposition of civil liability pursuant to Section 377.

**10609.27.** Notwithstanding Section 10609.26, the board shall not issue an information order, written notice, or conservation order pursuant to Section 10609.26 if both of the following conditions are met:

(a) The board determines that the urban retail water supplier is not meeting its urban water use objective solely because the volume of water loss exceeds the urban retail water supplier's standard for water loss.

(b) Pursuant to Section 10608.34, the board is taking enforcement action against the urban retail water supplier for not meeting the performance standards for the volume of water losses.

**10609.28.** The board may issue a regulation or informational order requiring a wholesale water supplier, an urban retail water supplier, or a distributor of a public water supply, as that term is used in Section 350, to provide a monthly report relating to water production, water use, or water conservation.

**10609.30.** On or before January 10, 2024, the Legislative Analyst shall provide to the appropriate policy committees of both houses of the Legislature and the public a report evaluating the implementation of the water use efficiency standards and water use reporting pursuant to this chapter. The board and the department shall provide the Legislative Analyst with the available data to complete this report.

(a) The report shall describe all of the following:

(1) The rate at which urban retail water users are complying with the standards, and factors that might facilitate or impede their compliance.

(2) The accuracy of the data and estimates being used to calculate urban water use objectives.

(3) Indications of the economic impacts, if any, of the implementation of this chapter on urban water suppliers and urban water users, including CII water users.

(4) The frequency of use of the bonus incentive, the volume of water associated with the bonus incentive, value to urban water suppliers of the bonus incentive, and any implications of the use of the bonus incentive on water use efficiency.

(5) The early indications of how implementing this chapter might impact the efficiency of statewide urban water use.

(6) Recommendations, if any, for improving statewide urban water use efficiency and the standards and practices described in this chapter.

(7) Any other issues the Legislative Analyst deems appropriate.

**10609.32.** It is the intent of the Legislature that the chairperson of the board and the director of the department appear before the appropriate policy committees of both houses of the Legislature on or around January 1, 2026, and report on the implementation of the water use efficiency standards and water use reporting pursuant to this chapter. It is the intent of the Legislature that the topics to be covered include all of the following:

(a) The rate at which urban retail water suppliers are complying with the standards, and factors that might facilitate or impede their compliance.

(b) What enforcement actions have been taken, if any.

(c) The accuracy of the data and estimates being used to calculate urban water use objectives.

(d) Indications of the economic impacts, if any, of the implementation of this chapter on urban water suppliers and urban water users, including CII water users.

(e) The frequency of use of the bonus incentive, the volume of water associated with the bonus incentive, value to urban water suppliers of the bonus incentive, and any implications of the use of the bonus incentive on water use efficiency.

(f) An assessment of how implementing this chapter is affecting the efficiency of statewide urban water use.

**10609.34.** Notwithstanding Section 15300.2 of Title 14 of the California Code of Regulations, an action of the board taken under this chapter shall be deemed to be a Class 8 action, within the meaning of Section 15308 of Title 14 of the California Code of Regulations, provided that the action does not involve relaxation of existing water conservation or water use standards.

**10609.36.** (a) Nothing in this chapter shall be construed to determine or alter water rights. Sections 1010 and 1011 apply to water conserved through implementation of this chapter.

(b) Nothing in this chapter shall be construed to authorize the board to update or revise water use efficiency standards authorized by this chapter except as explicitly provided in this chapter. Authorization to update the standards beyond that explicitly provided in this chapter shall require separate legislation.

(c) Nothing in this chapter shall be construed to limit or otherwise affect the use of recycled water as seawater barriers for groundwater salinity management.

**10609.38.** The board may waive the requirements of this chapter for a period of up to five years for any urban retail water supplier whose water deliveries are significantly affected by changes in water use as a result of damage from a disaster such as an earthquake or fire. In establishing the period of a waiver, the board shall take into consideration the breadth of the damage and the time necessary for the damaged areas to recover from the disaster.

## PART 2.6. URBAN WATER MANAGEMENT PLANNING

## CHAPTER 1. General Declaration and Policy [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, and increasing long-term water conservation among Californians, improving water use efficiency within the state’s communities and agricultural production, and strengthening local and regional drought planning are critical to California’s resilience to drought and climate change.

(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 now and into the

foreseeable future, and every urban water supplier should collaborate closely with local land-use authorities to ensure water demand forecasts are consistent with current land-use planning.

(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 achieve the efficient use of available supplies and strengthen local drought planning.

## CHAPTER 2. Definitions [10611 – 10618]

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

**10611.3.** "Customer" means a purchaser of water from a water supplier who uses the water for municipal purposes, including residential, commercial, governmental, and industrial uses.

**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.** "Drought risk assessment" means a method that examines water shortage risks based on the driest five-year historic sequence for the agency's water supply, as described in subdivision (b) of Section 10635.

**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.

**10617.5.** "Water shortage contingency plan" means a document that incorporates the provisions detailed in subdivision (a) of Section 10632 and is subsequently adopted by an urban water supplier pursuant to this article.

**10618.** "Water supply and demand assessment" means a method that looks at current year and one or more dry year supplies and demands for determining water shortage risks, as described in Section 10632.1.

## CHAPTER 3. Urban Water Management Plans
## ARTICLE 1. General Provisions [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, efficient water use, and improved local drought resilience.

(2) Notwithstanding paragraph (1), each urban water supplier shall develop its own water shortage contingency plan, but an urban water supplier may incorporate, collaborate, and otherwise share information with other urban water suppliers or other governing entities participating in an areawide, regional, watershed, or basinwide urban water management plan, an agricultural management plan, or groundwater sustainability plan development.

(3) 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 July 1, in years ending in six and one, incorporating updated and new information from the five years preceding each update.

(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) An urban water supplier regulated by the Public Utilities Commission shall include its most recent plan and water shortage

contingency plan as part of the supplier's general rate case filings.

(d) 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).

(e) Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.

(f) Each urban water supplier shall update and submit its 2020 plan to the department by July 1, 2021.

**CHAPTER 3. Urban Water Management Plans**

**ARTICLE 2. Contents of Plans [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, while accounting for impacts from climate change.

**10630.5.** Each plan shall include a simple lay description of how much water the agency has on a reliable basis, how much it needs for the foreseeable future, what the agency's strategy is for meeting its water needs, the challenges facing the agency, and any other information necessary to provide a general understanding of the agency's plan.

**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 social, economic, and 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. The description shall include the current and projected land uses within the existing or anticipated service area affecting the supplier's water management planning. Urban water suppliers shall coordinate with local or regional land use authorities to determine the most appropriate land use information, including,

where appropriate, land use information obtained from local or regional land use authorities, as developed pursuant to Article 5 (commencing with Section 65300) of Chapter 3 of Division 1 of Title 7 of the Government Code.

(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), providing supporting and related information, including all of the following:

(1) A detailed discussion of anticipated supply availability under a normal water year, single dry year, and droughts lasting at least five years, as well as more frequent and severe periods of drought, as described in the drought risk assessment. For each source of water supply, consider any information pertinent to the reliability analysis conducted pursuant to Section 10635, including changes in supply due to climate change.

(2) When multiple sources of water supply are identified, a description of the management of each supply in correlation with the other identified supplies.

(3) For any planned sources of water supply, a description of the measures that are being undertaken to acquire and develop those water supplies.

(4) If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information:

(A) The current version of any groundwater sustainability plan or alternative adopted pursuant to Part 2.74 (commencing with Section 10720), 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 for basins underlying the urban water supplier's service area.

(B) 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 a basin that has not been adjudicated, information as to whether the department has identified the basin as a high- or medium-priority basin 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 coordinate with groundwater sustainability agencies or groundwater management agencies listed in subdivision (c) of Section 10723 to maintain or achieve sustainable groundwater conditions in accordance with a groundwater sustainability plan or alternative adopted pursuant to Part 2.74 (commencing with Section 10720).

(C) 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.

(D) 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) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.

(d) (1) For an urban retail water supplier, 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, based upon information developed pursuant to subdivision (a), identifying the uses among water use sectors,

including, but not necessarily limited to, all of the following:

(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.

(I) Agricultural.

(J) Distribution system water loss.

(2) The water use projections shall be in the same five-year increments described in subdivision (a).

(3) (A) The distribution system water loss shall be quantified for each of the five years preceding the plan update, in accordance with rules adopted pursuant to Section 10608.34.

(B) The distribution system water loss quantification shall be reported in accordance with a worksheet approved or developed by the department through a public process. The water loss quantification worksheet shall be based on the water system balance methodology developed by the American Water Works Association.

(C) In the plan due July 1, 2021, and in each update thereafter, data shall be included to show whether the urban retail water supplier met the distribution loss standards enacted by the board pursuant to Section 10608.34.

(4) (A) Water use projections, where available, shall display and account for the water savings estimated to result from adopted codes, standards, ordinances, or transportation and land use plans identified by the urban water supplier, as applicable to the service area.

(B) To the extent that an urban water supplier reports the information described in subparagraph (A), an urban water supplier shall do both of the following:

(i) Provide citations of the various codes, standards, ordinances, or transportation and land use plans utilized in making the projections.

(ii) Indicate the extent that the water use projections consider savings from codes, standards, ordinances, or transportation and land use plans. Water use projections that do not account for these water savings shall be noted of that fact.

(e) Provide a description of the supplier's water demand management measures. This description shall include all of the following:

(1) (A) For an urban retail water supplier, as defined in Section 10608.12, a narrative description that addresses the nature and extent of each water demand management measure implemented over the past five years. The narrative shall describe the water demand management measures that the supplier plans to implement to achieve its water use targets pursuant to Section 10608.20.

(B) The narrative pursuant to this paragraph shall include descriptions of the following water demand management measures:

(i) Water waste prevention ordinances.

(ii) Metering.

(iii) Conservation pricing.

(iv) Public education and outreach.

(v) Programs to assess and manage distribution system real loss.

(vi) Water conservation program coordination and staffing support.

(vii) Other demand management measures that have a significant impact on water use as measured in

gallons per capita per day, including innovative measures, if implemented.

(2) For an urban wholesale water supplier, as defined in Section 10608.12, a narrative description of the items in clauses (ii), (iv), (vi), and (vii) of subparagraph (B) of paragraph (1), and a narrative description of its distribution system asset management and wholesale supplier assistance programs.

(f) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use, as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in normal and single-dry water years and for a period of drought lasting five consecutive water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

(g) Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.

(h) An urban water supplier that relies upon a wholesale agency for a source of water shall 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. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, 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 (f). 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 (f).

**10631.1.** (a) The water use projections required by Section 10631 shall include projected water use for single-family and multifamily residential housing needed for lower income households, as defined in Section 50079.5 of the Health and Safety Code, as identified in the housing element of any city, county, or city and county in the service area of the supplier.

(b) It is the intent of the Legislature that the identification of projected water use for single-family and multifamily residential housing for lower income households will assist a supplier in complying with the requirement under Section 65589.7 of the Government Code to grant a priority for the provision of service to housing units affordable to lower income households.

**10631.2.** (a) In addition to the requirements of Section 10631, an urban water management plan shall include any of the following information that the urban water supplier can readily obtain:

(1) An estimate of the amount of energy used to extract or divert water supplies.

(2) An estimate of the amount of energy used to convey water supplies to the water treatment plants or distribution systems.

(3) An estimate of the amount of energy used to treat water supplies.

(4) An estimate of the amount of energy used to distribute water supplies through its distribution systems.

(5) An estimate of the amount of energy used for treated water supplies in comparison to the amount used for nontreated water supplies.

(6) An estimate of the amount of energy used to place water into or withdraw from storage.

(7) Any other energy-related information the urban water supplier deems appropriate.

(b) The department shall include in its guidance for the preparation of urban water management plans a methodology for the voluntary calculation or estimation of the energy intensity of urban water systems. The department may consider studies and calculations conducted by the Public Utilities Commission in developing the methodology.

(c) The Legislature finds and declares that energy use is only one factor in water supply planning and shall not be considered independently of other factors.

**10632.** (a) Every urban water supplier shall prepare and adopt a water shortage contingency plan as part of its urban water management plan that consists of each of the following elements:

(1) The analysis of water supply reliability conducted pursuant to Section 10635.

(2) The procedures used in conducting an annual water supply and demand assessment that include, at a minimum, both of the following:

(A) The written decision making process that an urban water supplier will use each year to determine its water supply reliability.

(B) The key data inputs and assessment methodology used to evaluate the urban water supplier's water supply reliability for the current year and one dry year, including all of the following:

(i) Current year unconstrained demand, considering weather, growth, and other influencing factors, such as policies to manage current supplies to meet demand objectives in future years, as applicable.

(ii) Current year available supply, considering hydrological and regulatory conditions in the current year and one dry year. The annual supply and demand assessment may consider more than one dry year solely at the discretion of the urban water supplier.

(iii) Existing infrastructure capabilities and plausible constraints.

(iv) A defined set of locally applicable evaluation criteria that are consistently relied upon for each annual water supply and demand assessment.

(v) A description and quantification of each source of water supply.

(3) (A) Six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, and 50 percent shortages and greater than 50 percent shortage. Urban water suppliers shall define these shortage levels based on the suppliers' water supply conditions, including percentage reductions in water supply, changes in groundwater levels, changes in surface elevation or level of subsidence, or other changes in hydrological or other local conditions indicative of the water supply available for use. Shortage levels shall also apply to catastrophic interruption of water supplies, including, but not limited to, a regional power outage, an earthquake, and other potential emergency events.

(B) An urban water supplier with an existing water shortage contingency plan that uses different water shortage levels may comply with the requirement in subparagraph (A) by developing and including a cross-reference relating its existing categories to the six standard water shortage levels.

(4) Shortage response actions that align with the defined shortage levels and include, at a minimum, all of the following:

(A) Locally appropriate supply augmentation actions.

(B) Locally appropriate demand reduction actions to adequately respond to shortages.

(C) Locally appropriate operational changes.

(D) Additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions.

(E) For each action, an estimate of the extent to which the gap between supplies and demand will be reduced by implementation of the action.

(5) Communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding, at a minimum, all of the following:

(A) Any current or predicted shortages as determined by the annual water supply and demand assessment described pursuant to Section 10632.1.

(B) Any shortage response actions triggered or anticipated to be triggered by the annual water supply and demand assessment described pursuant to Section 10632.1.

(C) Any other relevant communications.

(6) For an urban retail water supplier, customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions as determined pursuant to Section 10632.2.

(7) (A) A description of the legal authorities that empower the urban water supplier to implement and enforce its shortage response actions specified in paragraph (4) that may include, but are not limited to, statutory authorities, ordinances, resolutions, and contract provisions.

(A) A statement that an urban water supplier shall declare a water shortage emergency in accordance with Chapter 3 (commencing with Section 350) of Division 1.

(B) A statement that an urban water supplier shall coordinate with any city or county within which it provides water supply services for the possible proclamation of a local emergency, as defined in Section 8558 of the Government Code.

(8) A description of the financial consequences of, and responses for, drought conditions, including, but not limited to, all of the following:

(A) A description of potential revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(B) A description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions described in paragraph (4).

(C) A description of the cost of compliance with Chapter 3.3 (commencing with Section 365) of Division 1.

(9) For an urban retail water supplier, monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

(10) Reevaluation and improvement procedures for systematically monitoring and evaluating the functionality of the water shortage contingency plan in order to ensure shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed.

(b) For purposes of developing the water shortage contingency plan pursuant to subdivision (a), an urban water supplier shall analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas, as defined in subdivision (a) of Section 115921 of the Health and Safety Code.

(c) The urban water supplier shall make available the water shortage contingency plan prepared pursuant to this article to its customers and any city or county within which it provides water supplies no later than 30 days after adoption of the water shortage contingency plan.

**10632.1.** An urban water supplier shall conduct an annual water supply and demand assessment pursuant to subdivision (a) of Section 10632 and, on or before July 1 of each year, submit an annual water shortage assessment report to the department with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the supplier's water shortage contingency plan. An urban water supplier that relies on imported water from the State Water Project or the Bureau of Reclamation shall submit its annual water supply and demand assessment within 14 days of receiving its final allocations, or by July 1 of each year, whichever is later.

**10632.2.** An urban water supplier shall follow, where feasible and appropriate, the prescribed procedures and implement determined shortage response actions in its water shortage contingency plan, as identified in

subdivision (a) of Section 10632, or reasonable alternative actions, provided that descriptions of the alternative actions are submitted with the annual water shortage assessment report pursuant to Section 10632.1. Nothing in this section prohibits an urban water supplier from taking actions not specified in its water shortage contingency plan, if needed, without having to formally amend its urban water management plan or water shortage contingency plan.

**10632.3.** It is the intent of the Legislature that, upon proclamation by the Governor of a state of emergency under the California Emergency Services Act (Chapter 7 (commencing with Section 8550) of Division 1 of Title 2 of the Government Code) based on drought conditions, the board defer to implementation of locally adopted water shortage contingency plans to the extent practicable.

**10632.5.** (a) In addition to the requirements of paragraph (3) of subdivision (a) of Section 10632, beginning January 1, 2020, the plan shall include a seismic risk assessment and mitigation plan to assess the vulnerability of each of the various facilities of a water system and mitigate those vulnerabilities.

(b) An urban water supplier shall update the seismic risk assessment and mitigation plan when updating its urban water management plan as required by Section 10621.

(c) An urban water supplier may comply with this section by submitting, pursuant to Section 10644, a copy of the most recent adopted local hazard mitigation plan or multihazard mitigation plan under the federal Disaster Mitigation Act of 2000 (Public Law 106-390) if the local hazard mitigation plan or multihazard mitigation plan addresses seismic risk.

**10633.** The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the serv`ice area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following:

(a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the

amount of wastewater collected and treated and the methods of wastewater disposal.

(b) A description of the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.

(c) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.

(d) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.

(e) 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 pursuant to this subdivision.

(f) A description of actions, including financial incentives, 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.

(g) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

**10634.** The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.

## CHAPTER 3. Urban Water Management Plans
## ARTICLE 2.5. Water Service Reliability [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 long-term total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and a drought lasting five consecutive 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) Every urban water supplier shall include, as part of its urban water management plan, a drought risk assessment for its water service to its customers as part of information considered in developing the demand management measures and water supply projects and programs to be included in the urban water management plan. The urban water supplier may conduct an interim update or updates to this drought risk assessment within the five-year cycle of its urban water management plan update. The drought risk assessment shall include each of the following:

(1) A description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts five consecutive water years, starting from the year following when the assessment is conducted.

(2) A determination of the reliability of each source of supply under a variety of water shortage conditions. This may include a determination that a particular source of water supply is fully reliable under most, if not all, conditions.

(3) A comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period.

(4) Considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate

change conditions, anticipated regulatory changes, and other locally applicable criteria.

(d) 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.

(e) Nothing in this article is intended to create a right or entitlement to water service or any specific level of water service.

(f) 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.

**CHAPTER 3. Urban Water Management Plans**

**ARTICLE 3. Adoption and Implementation of Plans [10640 – 10645]**

**10640.** (a) 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.

(b) Every urban water supplier required to prepare a water shortage contingency plan shall prepare a water shortage contingency plan pursuant to Section 10632. The supplier shall likewise periodically review the water shortage contingency plan as required by paragraph (10) of subdivision (a) of Section 10632 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 or a water shortage contingency 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 both the plan and the water shortage contingency plan. Prior to adopting either, the urban water supplier shall make both the plan and the water shortage contingency plan available for public inspection and shall hold a public hearing or hearings thereon. Prior to any of these hearings, notice of the time and place of the 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 a hearing to any city or county within which the supplier provides water supplies. Notices by a local public agency pursuant to this section shall be provided pursuant to Chapter 17.5 (commencing with Section 7290) of Division 7 of Title 1 of the Government Code. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing or hearings, the plan or water shortage contingency plan shall be adopted as prepared or as modified after the hearing or hearings.

**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) If an urban water supplier revises its water shortage contingency plan, the supplier shall submit to the department a copy of its

water shortage contingency plan prepared pursuant to subdivision (a) of Section 10632 no later than 30 days after adoption, in accordance with protocols for submission and using electronic reporting tools developed by the department.

(c) (1) (A) Notwithstanding Section 10231.5 of the Government Code, the department shall prepare and submit to the Legislature, on or before July 1, in the years ending in seven and two, a report summarizing the status of the plans and water shortage contingency plans adopted pursuant to this part. The report prepared by the department shall identify the exemplary elements of the individual plans and water shortage contingency plans. The department shall provide a copy of the report to each urban water supplier that has submitted its plan and water shortage contingency plan to the department. The department shall also prepare reports and provide data for any legislative hearings designed to consider the effectiveness of plans and water shortage contingency plans submitted pursuant to this part.

(B) The department shall prepare and submit to the board, on or before September 30 of each year, a report summarizing the submitted water supply and demand assessment results along with appropriate reported water shortage conditions and the regional and statewide analysis of water supply conditions developed by the department. As part of the report, the department shall provide a summary and, as appropriate, urban water supplier specific information regarding various shortage response actions implemented as a result of annual supplier-specific water supply and demand assessments performed pursuant to Section 10632.1.

(C) The department shall submit the report to the Legislature for the 2015 plans by July 1, 2017, and the report to the Legislature for the 2020 plans and water shortage contingency plans by July 1, 2022.

(2) A report to be submitted pursuant to subparagraph (A) of paragraph (1) shall be submitted in compliance with Section 9795 of the Government Code.

(d) The department shall make available to the public the standard the department will use to identify exemplary water demand management measures.

**10645.** (a) Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

(b) Not later than 30 days after filing a copy of its water shortage contingency plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

**CHAPTER 4. Miscellaneous Provisions [10650 – 10657]**

**10650.** Any actions or proceedings, other than actions by the board, 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 or a water shortage contingency 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 water shortage contingency plan, or action taken pursuant to either, does not comply with this part shall be commenced within 90 days after filing of the plan or water shortage contingency plan or an amendment to either 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 a water shortage contingency plan, or an action taken pursuant to either 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 board and the Public Utilities Commission, for the preparation of water management plans, water shortage contingency plans, or conservation plans; provided, that if the board or the Public Utilities Commission requires additional information concerning water conservation, drought response measures, or financial conditions 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 that complies with analogous 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 urban water management plan, its drought risk assessment, its water supply and demand assessment, and its water shortage contingency plan and implementing the reasonable water conservation measures included in either of the plans.

**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 is not eligible for a water grant or loan awarded or administered by the state unless the urban water supplier complies with this part.

**10657.** The department may adopt regulations regarding the definitions of water, water use, and reporting periods, and may adopt any other regulations deemed necessary or desirable to implement this part. In developing regulations pursuant to this section, the department shall solicit broad public participation from stakeholders and other interested persons.

# B

# Appendix B: Notices of Preparation and Notices of Public Hearing

February 24, 2021

Jon McMillen
City Manager
La Quinta
78-495 Calle Tampico
La Quinta CA 92253
jmcmillen@laquintaca.gov

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

On behalf of the six participating agencies, this letter provides notice that six water agencies in the Coachella Valley are updating their Urban Water Management Plan (UWMP) and preparing a Regional UWMP to comply with the current requirements of the Urban Water Management Planning Act. The participating agencies are:

- Coachella Valley Water District
- Coachella Water Authority (City of Coachella)
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The State of California requires urban water purveyors to update their UWMP every five years. Preparing a Regional UWMP will allow the six agencies to coordinate their efforts on demand projections and supply characterizations.

The agencies will be evaluating their previous UWMP and considering amendments and changes as required by the law. The agencies will be hosting a public workshop to gather input, and the draft RUWMP will be made available for public review before each agency's governing board holds a public hearing to gather input and consider adoption. The adopted RUWMP is due to be submitted to the State by July 1, 2021. More information and the draft RUWMP will be available at http://www.cvrwmg.org/uwmp/.

On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Cheri L. Flores
Planning Manager
La Quinta
78-495 Calle Tampico
La Quinta CA 92253
cflores@laquintaca.gov

Re: Notice of Intent to Update Urban Water Management Plan

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Danny Castro
Design and Development Director
La Quinta
78-495 Calle Tampico
La Quinta CA 92253
dcastro@laquintaca.gov

Re: Notice of Intent to Update Urban Water Management Plan

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Trish Rhay
General Manager
Indio
83101 Avenue 45
Indio CA 92201
trhay@indio.org

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Castulo Estrada
Utilities Manager
Coachella
53990 Enterprise Way
Coachella CA 92236
cestrada@coachella.org

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Randy Bynder
Interim City Manager
Palm Desert
73510 Fred Waring Drive
Palm Desert CA 92260
rbynder@cityofpalmdesert.org

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

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Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Eric Ceja
Principle Planner
Palm Desert
73510 Fred Waring Drive
Palm Desert CA 92260
eceja@cityofpalmdesert.org

Re: Notice of Intent to Update Urban Water Management Plan

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Ryan Stendell
Director of Community Development
Palm Desert
73510 Fred Waring Drive
Palm Desert CA 92260
rstendell@cityofpalmdesert.org

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Charlie McClendon
City Manager
Cathedral City
68700 Avenida Lalo Guerrero
Cathedral City CA 92234
CMcClendon@cathedralcity.gov

Re: Notice of Intent to Update Urban Water Management Plan

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Brenda Ramirez
Associate Planner
Cathedral City
68700 Avenida Lalo Guerrero
Cathedral City CA 92234
bramirez@cathedralcity.gov

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Robert Rodriguez
Director of Planning/Building
Cathedral City
68700 Avenida Lalo Guerrero
Cathedral City CA 92234
rrodriguez@cathedralcity.gov

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Christopher Freeland
City Manager
Indian Wells
44-950 Eldorado Drive
Indian Wells CA 92210
cfreeland@indianwells.com

Re: Notice of Intent to Update Urban Water Management Plan

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Senior Engineer
Desert Water Agency

February 24, 2021

Jon Berg
Community Development Director
Indian Wells
44-950 Eldorado Drive
Indian Wells CA 92210
jberg@indianwells.com

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Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Luis Rubalcava
Assistant Planner
Indian Wells
44-950 Eldorado Drive
Indian Wells CA 92210
lrubalcava@indianwells.com

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Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Isaiah Hagerman
City Manager
Rancho Mirage
69825 Highway 111
Rancho Mirage CA 92270
isaiahh@ranchomirageca.gov

Re: Notice of Intent to Update Urban Water Management Plan

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Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Jeremy Gleim
Director of Development Services
Rancho Mirage
69825 Highway 111
Rancho Mirage CA 92270
jeremyg@ranchomirageca.gov

Re: Notice of Intent to Update Urban Water Management Plan

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Senior Engineer
Desert Water Agency

February 24, 2021

David Ready
City Manager
Palm Springs
3200 E. Tahquitz Canyon Way
Palm Springs CA 92262
David.Ready@palmspringsca.gov

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

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On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Flinn Fagg
Director of Planning Services
Palm Springs
3200 E. Tahquitz Canyon Way
Palm Springs CA 92262
flinn.fagg@palmspringsca.gov

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Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Chuck Maynard
City Manager
Desert Hot Springs
11-999 Palm Drive
Desert Hot Springs CA 92240
citymanager@cityofdhs.org

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Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Rebecca Deming
Community Development Director
Desert Hot Springs
11-999 Palm Drive
Desert Hot Springs CA 92240
rdeming@cityofdhs.org

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Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Mojahed Salama
Deputy Director of Transportation and Land Management
Riverside
4080 Lemon Street
Riverside CA 92501
msalama@rctlma.org

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Senior Engineer
Desert Water Agency

February 24, 2021

Jason Uhley
General Manager
Riverside
1995 Market St
Riverside CA 92501
juhley@rcflood.org

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Senior Engineer
Desert Water Agency

February 24, 2021

Mark Abbott
Land Use & Water Supervisor
Indio
47-950 Arabia St, Suite A
Indio CA 92201
MAbbott@rivco.org

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Senior Engineer
Desert Water Agency

February 24, 2021

Jim Minnick
Director
El Centro
801 Main St
El Centro CA 92243
jimminnick@co.imperial.ca.us

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Desert Water Agency

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Mark Krause
General Manager
Palm Springs
1200 S Gene Autry Trail
Palm Springs CA 92264
mkrause@dwa.org

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February 24, 2021

Victoria Llort
Programs & Public Affairs
Desert Hot Springs
66575 Second Street
Desert Hot Springs CA 92240
vllort@mswd.org

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Desert Water Agency

February 24, 2021

Zoe Rodriguez del Rey
Water Resources Manager
Coachella
PO Box 1058
Coachella CA 92236
zrodriguezdelrey@cvwd.org

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Mark Meeler
General Manager
Bermuda Dunes
79-050 Avenue 42
Bermuda Dunes CA 92203
markmeeler@myomawater.com

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Desert Water Agency

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Doug Welmas
Tribal Chairman
Indio
84-245 Indio Springs Parkway
Indio CA 92203
nmarkwardt@cabazonindians-nsn.gov

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J Aceves
Environmental Analyst
Indio
84-245 Indio Springs Parkway
Indio CA 92203
jaceves@cabazonindians-nsn.gov

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Desert Water Agency

February 24, 2021

Jeff Grubbe
Tribal Chair
Palm Springs
5401 Dinah Shore Drive
Palm Springs CA 92264
jgrubbe@aguacaliente.net

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Desert Water Agency

February 24, 2021

Margaret Park
Chief Planning Officer
Palm Springs
5401 Dinah Shore Drive
Palm Springs CA 92264
mpark@aguacaliente-nsn.gov

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Senior Engineer
Desert Water Agency

February 24, 2021

Thomas Tortez, Jr.
Tribal Chairman
Thermal
66-725 Martinez Road
Thermal CA 92274
thomas.tortez@torresmartinez-nsn.gov

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Desert Water Agency

February 24, 2021

Otoniel Quiroz
Natural Resources Manager
Thermal
66-725 Martinez Road
Thermal CA 92274
oquiroz@tmtanf.org

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Desert Water Agency

February 24, 2021

Amanda Vance
Tribal Chairman
Coachella
PO Box 846
Coachella CA 92236
avance@augustinetribe-nsn.gov

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Desert Water Agency

February 24, 2021

Karen Kupcha
Tribal Administrator
Coachella
PO Box 846
Coachella CA 92236
karen_kupcha@eee.org

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Desert Water Agency

February 24, 2021

Darrell Mike
Tribal Chairman
Coachella
46200 Harrison Place
Coachella CA 92236
29chairman@29palmsbomi-nsn.gov

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Desert Water Agency

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Jose Mora
Environmental Technician
Coachella
46200 Harrison Place
Coachella CA 92236
jmora@29palmsbomi-nsn.gov

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- Coachella Water Authority (City of Coachella)
- Desert Water Agency
- Indio Water Authority (City of Indio)
- Mission Springs Water District
- Myoma Dunes Mutual Water Company

The State of California requires urban water purveyors to update their UWMP every five years. Preparing a Regional UWMP will allow the six agencies to coordinate their efforts on demand projections and supply characterizations.

The agencies will be evaluating their previous UWMP and considering amendments and changes as required by the law. The agencies will be hosting a public workshop to gather input, and the draft RUWMP will be made available for public review before each agency's governing board holds a public hearing to gather input and consider adoption. The adopted RUWMP is due to be submitted to the State by July 1, 2021. More information and the draft RUWMP will be available at http://www.cvrwmg.org/uwmp/.

On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Robert Martin
Tribal Chairman
Banning
12700 Pumarra Road
Banning CA 92220
rmartin@morongo-nsn.gov

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

On behalf of the six participating agencies, this letter provides notice that six water agencies in the Coachella Valley are updating their Urban Water Management Plan (UWMP) and preparing a Regional UWMP to comply with the current requirements of the Urban Water Management Planning Act. The participating agencies are:

- Coachella Valley Water District
- Coachella Water Authority (City of Coachella)
- Desert Water Agency
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The agencies will be evaluating their previous UWMP and considering amendments and changes as required by the law. The agencies will be hosting a public workshop to gather input, and the draft RUWMP will be made available for public review before each agency's governing board holds a public hearing to gather input and consider adoption. The adopted RUWMP is due to be submitted to the State by July 1, 2021. More information and the draft RUWMP will be available at http://www.cvrwmg.org/uwmp/.

On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Yvonne Franco
District Manager
Indio
81077 Indio Blvd. Suite A
Indio CA 92201
YFranco@cvrcd.com

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

On behalf of the six participating agencies, this letter provides notice that six water agencies in the Coachella Valley are updating their Urban Water Management Plan (UWMP) and preparing a Regional UWMP to comply with the current requirements of the Urban Water Management Planning Act. The participating agencies are:

- Coachella Valley Water District
- Coachella Water Authority (City of Coachella)
- Desert Water Agency
- Indio Water Authority (City of Indio)
- Mission Springs Water District
- Myoma Dunes Mutual Water Company

The State of California requires urban water purveyors to update their UWMP every five years. Preparing a Regional UWMP will allow the six agencies to coordinate their efforts on demand projections and supply characterizations.

The agencies will be evaluating their previous UWMP and considering amendments and changes as required by the law. The agencies will be hosting a public workshop to gather input, and the draft RUWMP will be made available for public review before each agency's governing board holds a public hearing to gather input and consider adoption. The adopted RUWMP is due to be submitted to the State by July 1, 2021. More information and the draft RUWMP will be available at http://www.cvrwmg.org/uwmp/.

On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

February 24, 2021

Gretchen Gutierrez
CEO
Palm Desert
75100 Mediterranean
Palm Desert CA 92211
gg@thedvba.org

Re: Notice of Intent to Update Urban Water Management Plan

Dear Mr. McMillen:

On behalf of the six participating agencies, this letter provides notice that six water agencies in the Coachella Valley are updating their Urban Water Management Plan (UWMP) and preparing a Regional UWMP to comply with the current requirements of the Urban Water Management Planning Act. The participating agencies are:

- Coachella Valley Water District
- Coachella Water Authority (City of Coachella)
- Desert Water Agency
- Indio Water Authority (City of Indio)
- Mission Springs Water District
- Myoma Dunes Mutual Water Company

The State of California requires urban water purveyors to update their UWMP every five years. Preparing a Regional UWMP will allow the six agencies to coordinate their efforts on demand projections and supply characterizations.

The agencies will be evaluating their previous UWMP and considering amendments and changes as required by the law. The agencies will be hosting a public workshop to gather input, and the draft RUWMP will be made available for public review before each agency's governing board holds a public hearing to gather input and consider adoption. The adopted RUWMP is due to be submitted to the State by July 1, 2021. More information and the draft RUWMP will be available at http://www.cvrwmg.org/uwmp/.

On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

**Notice of Availability and Public Review of**

**Draft 2020 Coachella Valley Regional Urban Water Management Plan,**

**Draft Water Shortage Contingency Plan, and**

**Appendix L Addendum to the 2015 Urban Water Management Plan**

On behalf of the six participating agencies, this letter provides notice that six water agencies in the Coachella Valley have prepared a Draft 2020 Coachella Valley Regional Urban Water Management Plan (RUWMP), a Draft Water Shortage Contingency Plan (WSCP) for each agency, and an Appendix L Addendum to the 2015 Urban Water Management Plan (UWMP) for each agency.

The participating agencies are:

- Coachella Valley Water District
- Coachella Water Authority (City of Coachella)
- Desert Water Agency
- Indio Water Authority (City of Indio)
- Mission Springs Water District
- Myoma Dunes Mutual Water Company

The RUWMP describes the region's water supplies and anticipated demands through 2045. It also describes each agency's programs to encourage efficient water use. The WSCP for each agency describes the actions that could be taken during a water shortage to reduce demands. The agencies have coordinated their WSCPs to provide consistent shortage levels and response actions across the region.

Because the region receives imported water from the Sacramento-San Joaquin Delta (Delta), the agencies are required to demonstrate consistency with Delta Plan Policy WR P1, Reduced Reliance on the Delta Through Improved Regional Water Self-Reliance. Draft Appendix L has been prepared to satisfy the requirement to demonstrate reduced reliance on the Delta. This appendix is included in the Draft 2020 RUWMP and will also be included as an addendum to each agency's 2015 UWMP.

These documents will be available for public review on each agency's web site. Each agency will hold a public hearing to hear comments before considering adoption of the plans. Information for each agency's public hearing is included in the table below. The table also includes a contact for questions or comments regarding the plans.

More information and the draft documents will also be available at http://www.cvrwmg.org/uwmp/.

| Agency | Hearing Date and Time | Agency Web Site for Hearing Details and Additional Information |
|---|---|---|
| Coachella Valley Water District | Tuesday, June 22, 2021 8:00 a.m. | https://www.cvwd.org/151/Board-Agendas<br><br>https://www.cvwd.org/543/Urban-Water-Management-Planning |
| Coachella Water Authority (City of Coachella) | Wednesday, June 23, 2021 6:00 p.m. | https://www.coachella.org/city-government/city-council/agendas-and-minutes |
| Desert Water Agency | Tuesday, June 15, 2021 8:00 a.m. | https://dwa.org/organization/board-agendas/ |
| Indio Water Authority (City of Indio) | Wednesday, June 16, 2021 5:00 p.m. | https://www.indio.org/your_government/city_clerk/agendas.htm |
| Mission Springs Water District | Monday, June 21, 2021 3:00 p.m. | https://www.mswd.org/board.aspx |
| Myoma Dunes Mutual Water Company | Tuesday, June 22, 2021 2:00 p.m. | http://www.myomawater.com/Board.aspx |

Please address any comments or questions to:

| Agency | Address | Contact | Email |
|---|---|---|---|
| Coachella Valley Water District | P.O. Box 1058<br>Coachella, CA 92236 | Zoe Rodriguez del Rey, Water Resources Manager | ZRodriguezdelRey@cvwd.org |
| Coachella Water Authority (City of Coachella) | 1515 Sixth St.<br>Coachella, CA 92236 | Castulo Estrada, Utilities Manager | cestrada@coachella.org |
| Desert Water Agency | 1200 S Gene Autry Trail<br>Palm Springs, CA 92264 | Ashley Metzger, Outreach & Conservation Manager | ametzger@dwa.org |
| Indio Water Authority (City of Indio) | 83101 Avenue 45<br>Indio, CA 92201 | Reymundo Trejo, Assistant General Manager | rtrejo@indio.org |
| Mission Springs Water District | 66575 Second Street<br>Desert Hot Springs, CA 92240 | Victoria Llort, Programs & Public Affairs | vllort@mswd.org |
| Myoma Dunes Mutual Water Company | 79-050 Avenue 42<br>Bermuda Dunes, CA 92203 | Mark Meeler, General Manager | markmeeler@myomawater.com |

On behalf of all the RUWMP Agencies,

Ryan Molhoek, P.E.
Senior Engineer
Desert Water Agency

C

# Appendix C: Demonstration of Reduced Delta Reliance

## (Appendix L to 2015 UWMP)

**Coachella Valley Regional Urban Water Management Plan**

**Quantifying Regional Self-Reliance and Reduced Reliance on Water Supplies from the Delta Watershed**

**June 2021**

# 1 Background

Under the Sacramento-San Joaquin Delta Reform Act of 2009, state and local public agencies proposing a covered action in the Delta, prior to initiating the implementation of that action, must prepare a written certification of consistency with detailed findings as to whether the covered action is consistent with applicable Delta Plan policies and submit that certification to the Delta Stewardship Council. Anyone may appeal a certification of consistency, and if the Delta Stewardship Council grants the appeal, the covered action may not be implemented until the agency proposing the covered action submits a revised certification of consistency, and either no appeal is filed, or the Delta Stewardship Council denies the subsequent appeal.

An urban water supplier that anticipates participating in or receiving water from a proposed covered action such as a multi-year water transfer, conveyance facility, or new diversion that involves transferring water through, exporting water from, or using water in the Delta should provide information in their 2015 and 2020 Urban Water Management Plans (UWMPs) that can then be used in the covered action process to demonstrate consistency with Delta Plan Policy WR P1, Reduce Reliance on the Delta Through Improved Regional Water Self-Reliance (WR P1).

WR P1 details what is needed for a covered action to demonstrate consistency with reduced reliance on the Delta and improved regional self-reliance. WR P1 subsection (a) states that:

> *(a) Water shall not be exported from, transferred through, or used in the Delta if all of the following apply:*
>
> > *(1) One or more water suppliers that would receive water as a result of the export, transfer, or use have failed to adequately contribute to reduced reliance on the Delta and improved regional self-reliance consistent with all of the requirements listed in paragraph (1) of subsection (c);*
> >
> > *(2) That failure has significantly caused the need for the export, transfer, or use; and*
> >
> > *(3) The export, transfer, or use would have a significant adverse environmental impact in the Delta.*

WR P1 subsection (c)(1) further defines what adequately contributing to reduced reliance on the Delta means in terms of (a)(1) above.

> *(c)(1) Water suppliers that have done all the following are contributing to reduced reliance on the Delta and improved regional self-reliance and are therefore consistent with this policy:*

*(A) Completed a current Urban or Agricultural Water Management Plan (Plan) which has been reviewed by the California Department of Water Resources for compliance with the applicable requirements of Water Code Division 6, Parts 2.55, 2.6, and 2.8;*

*(B) Identified, evaluated, and commenced implementation, consistent with the implementation schedule set forth in the Plan, of all programs and projects included in the Plan that are locally cost effective and technically feasible which reduce reliance on the Delta; and*

*(C) Included in the Plan, commencing in 2015, the expected outcome for measurable reduction in Delta reliance and improvement in regional self-reliance. The expected outcome for measurable reduction in Delta reliance and improvement in regional self-reliance shall be reported in the Plan as the reduction in the amount of water used, or in the percentage of water used, from the Delta watershed. For the purposes of reporting, water efficiency is considered a new source of water supply, consistent with Water Code section 1011(a).*

The analysis and documentation provided below include all the elements described in WR P1(c)(1) that need to be included in a water supplier's UWMP to support a certification of consistency for a future covered action.

The analysis presented here was developed on behalf of the six agencies participating in the 2020 Coachella Valley Regional Urban Water Management Plan (RUWMP). These six agencies include:

- Coachella Valley Water District
- Coachella Water Authority
- Desert Water Agency
- Indio Water Authority
- Mission Springs Water District
- Myoma Dunes Mutual Water Company

This analysis is based on the water used to meet demands throughout the Coachella Valley.

# 2 Methodology

As stated in WR P1(c)(1)(C), the policy requires that, commencing in 2015, UWMPs include expected outcomes for improved regional self-reliance and measurable reduction in Delta reliance. WR P1 further states that those outcomes shall be reported in the UWMP as the reduction in the amount of water used, or in the percentage of water used, from the Delta. The expected outcomes for regional self-reliance and reduced Delta reliance were developed using the approach and guidance described in Appendix C of DWR's Urban Water Management Plan Guidebook 2020 issued in March 2020 (Guidebook Appendix C).

The methodology used to determine improved regional self-reliance and reduced Delta reliance is consistent with the approach detailed in DWR's UWMP Guidebook Appendix C, including the use of

narrative justifications for the accounting of supplies and the documentation of specific data sources. Some of the key assumptions include:

- All data were obtained from the current 2020 RUWMP, UWMPs from previous years, the Integrated Regional Water Management Plan, the Draft Indio Subbasin Alternative Plan Update, or the Draft Mission Creek Subbasin Alternative Plan Update. Demands represent average or normal water year conditions.
- All analyses were conducted at the service area level, and all data reflect the total contributions of the agencies as well as their customers.

To calculate the expected outcomes for improved regional self-reliance and reduced Delta reliance, a baseline is needed to compare against. This analysis uses a normal water year representation of 2010 as the baseline, which is consistent with the approach described in the Guidebook Appendix C.

# 3 Demonstration of Regional Self-Reliance

### *Demands without Water Use Efficiency*

In alignment with the Guidebook Appendix C, this analysis uses normal water year demands, rather than normal water year supplies to calculate expected outcomes in terms of the percentage of water used. Using normal water year demands serves as a proxy for the amount of supplies that would be used in a normal water year, which helps alleviate issues associated with how supply capability is presented to fulfill requirements of the UWMP Act versus how supplies might be accounted for to demonstrate consistency with WR P1.

Because WR P1 considers water use efficiency savings a source of water supply, water suppliers that do not explicitly quantify water use efficiency savings in their UWMPs can calculate their embedded water use efficiency savings based on changes in forecasted per capita water use since the baseline. As explained in the Guidebook Appendix C, water use efficiency savings must be added back to the normal year demands to represent demands without water use efficiency savings accounted for; otherwise the effect of water use efficiency savings on regional self-reliance would be overestimated. Table C-1 shows the results of this estimation. Supporting narrative and documentation for the data shown in Table C-1 are provided below.

Demands with Water Use Efficiency

The demands shown in Table C-1 represent the water demands for the region, compiled from the previous documents mentioned above and current projections. .

Population

Population was estimated using the previous UWMPs and the regional growth forecast prepared by the Southern California Association of Governments (SCAG).

Estimated Water Use Efficiency Since Baseline

Calculated using "Potable Demands with Water Use Efficiency" divided by "Population" and then calculating Estimated Water Use Efficiency Since Baseline by comparing with 2010 Per Capita Water Use.

Water Demands without Water Use Efficiency

Calculated by adding "Demands with Water Use Efficiency" to "Estimated Water Use Efficiency Since Baseline."

### *Supplies Contributing to Regional Self-Reliance*

For a covered action to demonstrate consistency with the Delta Plan, WR P1 subsection (c)(1)(C) states that water suppliers must report the expected outcomes for measurable improvement in regional self-reliance. Table C-3 shows expected outcomes for supplies contributing to regional self-reliance both in amount and as a percentage. The numbers shown in Table C-3 represent efforts to improve regional self-reliance for all agencies and include the total contributions of the agencies and their customers. Supporting narratives and documentation for the data shown in Table C-3 are provided below.

Water Use Efficiency

The water use efficiency information shown in Table C-3 is taken directly from Table C-1.

Water Recycling

Estimates of water recycling volumes are based on previous UWMPs and current projections.

Local and Regional Water Supply and Storage Programs

The local and regional water supply and storage programs data shown in Table C-3 represent estimates by the participating agencies.

### *Conclusions*

The results shown in Table C-3 demonstrate that the agencies are measurably improving regional self-reliance. In the long-term (2045), the expected outcome for normal water year regional self-reliance is an increase of approximately 17 percentage points from the 2010 baseline. The results show that as a region, the agencies and their customers are measurably reducing reliance on the Delta and improving regional self-reliance.

## 4 Demonstration of Reduced Reliance on the Delta

The agencies reduce reliance on the Delta through investments in non-Delta water supplies, local water supplies, and regional and local demand management measures. For reduced reliance on supplies from the Delta Watershed, the data used in this analysis represent the total regional efforts of the agencies and their customers.

### *Calculation of Reliance on Water Supplies from the Delta Watershed*

The calculation of reliance on water supplies from the Delta watershed, shown in Table C-4, is based on the following assumptions. The agencies' supplies from the Delta watershed include:

- CVP/SWP Contract Supplies
- Other Water Supplies from the Delta Watershed.

CVP/SWP Contract Supplies

The supply data shown in Table C-4 is for SWP Table A allocations to CVWD and DWA. These values are based on the combined Table A amount for CVWD and DWA (194,100 AFY) and the historical average reliability as published in the SWP Delivery Capability Report.

Other Water Supplies from the Delta Watershed

Because this document demonstrates reduced reliance on the Delta and could be used to help support the approval of a future project, these supplies do not include any potential future projects that could be covered actions.

Change in Supplies from the Delta Watershed

Calculated by adding "CVP/SWP Contract Supplies" and "Other Water Supplies from the Delta Watershed" to get total Water Supplies from the Delta Watershed and calculates changes from the 2010 baseline.

Percent Change in Supplies from the Delta Watershed

Divides "Water Supplies from the Delta Watershed" by "Demands without Water Use Efficiency" and calculates changes from the 2010 baseline.

### *Conclusions*

The results shown in Table C-4 demonstrate that the agencies are measurably reducing reliance on supplies from the Delta watershed. In the long term (2045), the expected outcome for normal water year reliance on supplies from the Delta is a decrease of approximately 5 percentage points from the 2010 baseline. The results show that as a region, the agencies and their customers are measurably reducing reliance on the Delta and improving regional self-reliance.

# 5 UWMP Implementation

In addition to the analysis and documentation described above, WR P1 subsection (c)(1)(B) requires that all programs and projects included in the UWMP that are locally cost-effective and technically feasible, which reduce reliance on the Delta, are identified, evaluated, and implemented consistent with the implementation schedule. WR P1 (c)(1)(B) states that:

> *(B) Identified, evaluated, and commenced implementation, consistent with the implementation schedule set forth in the Plan, of all programs and projects included in the Plan that are locally cost effective and technically feasible which reduce reliance on the Delta[.]*

In accordance with Water Code Section 10631(f), water suppliers must already include in their UWMP a detailed description of expected future projects and programs that they may implement to increase the amount of water supply available to them in normal and single-dry water years and for a period of drought

lasting five consecutive years. The UWMP description must also identify specific projects, include a description of the increase in water supply that is expected to be available from each project, and include an estimate regarding the implementation timeline for each project or program.

The 2020 RUWMP summarizes the implementation plan and continued progress in developing a diversified water portfolio to meet the region's water needs.

# 6 2015 UWMP Appendix L

The information contained in this appendix is also intended to be a new Appendix L attached to each agency's 2015 UWMP consistent with WR P1 subsection (c)(1)(C) (Cal. Code Regs. tit. 23, § 5003). The agencies provided notice of the availability of the draft 2020 RUWMP, 2021 WSCPs, and a new Appendix L to the 2015 UWMP and of a public hearing to consider adoption of the documents in accordance with CWC Sections 10621(b) and 10642, and Government Code Section 6066, and Chapter 17.5 (starting with Section 7290) of Division 7 of Title 1 of the Government Code. The public review drafts of the 2020 RUWMP, Appendix L to the 2015 UWMP, and the 2021 WSCPs were posted on each agency's website before the public hearings in June 2021. The notice of availability of the documents was published in local newspapers and was sent to cities and counties in each agency's service area. Copies of the notification letter sent to cities and counties are included in the 2020 RUWMP Appendix B. Thus, this Appendix C to the 2020 RUWMP, which was adopted with the 2020 RUWMP, will also be recognized and treated as Appendix L to each agency's 2015 UWMP.

Each agency held a public hearing for the draft 2020 RUWMP, draft Appendix L to the 2015 UWMP, and draft 2021 WSCP in June of 2021, at a regular Board of Directors meeting. Each agency's Board of Directors determined that the 2020 RUWMP and the 2021 WSCP accurately represent the water resources plan for the service area. In addition, each agency's Board of Directors determined that Appendix L to the 2015 UWMP (and Appendix C to the 2020 RUWMP) includes all of the elements described in Delta Plan Policy WR P1, Reduce Reliance on the Delta Through Improved Regional Water Self-Reliance (Cal. Code Regs. tit. 23, § 5003), which need to be included in a water supplier's UWMP to support a certification of consistency for a future covered action. The Board of Directors adopted the 2020 RUWMP, Appendix L to the 2015 UWMP, and the 2021 WSCP and authorized their submittal to the State of California. Copies of the resolutions are included in the 2020 RUWMP Appendix H.

## Reduced Reliance Calculation - Data Template

**Table C-1: Optional Calculation of Water Use Efficiency -To be completed if Water Supplier does not specifically estimate Water Use Efficiency as a supply**

| Water Use Efficiency Demands (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Water Demands with Water Use Efficiency Accounted For | 670,396 | 577,233 | 591,136 | 622,594 | 633,243 | 643,736 | 651,535 | 658,561 |
| Non-Potable Water Demands | 473,083 | 419,852 | 418,469 | 418,722 | 416,275 | 413,828 | 410,616 | 407,405 |
| Potable Demands with Water Use Efficiency Accounted For | 197,313 | 157,381 | 172,667 | 203,872 | 216,968 | 229,908 | 240,919 | 251,156 |

| Total Population | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
|---|---|---|---|---|---|---|---|---|
| Population | 481,800 | 496,853 | 507,951 | 592,237 | 639,654 | 687,782 | 734,493 | 781,710 |

| Water Use Efficiency Since Baseline (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Per Capita Water Use (GPCD) | 366 | 283 | 303 | 307 | 303 | 298 | 293 | 287 |
| Change in Per Capita Water Use from Baseline (GPCD) | | (83) | (62) | (58) | (63) | (67) | (73) | (79) |
| Estimated Water Use Efficiency Since Baseline (AF) | | 46,097 | 35,356 | 38,669 | 44,992 | 51,762 | 59,880 | 68,980 |

**Table C-2: Calculation of Water Demands Without Water Use Efficiency**

| Total Water Demands (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Water Demands with Water Use Efficiency Accounted For | 670,396 | 577,233 | 591,136 | 622,594 | 633,243 | 643,736 | 651,535 | 658,561 |
| Reported Water Use Efficiency or Estimated Water Use Efficiency Since Baseline | | 46,097 | 35,356 | 38,669 | 44,992 | 51,762 | 59,880 | 68,980 |
| Water Demands without Water Use Efficiency Accounted For | 670,396 | 623,330 | 626,492 | 661,263 | 678,235 | 695,498 | 711,415 | 727,541 |

**Table C-3: Calculation of Supplies Contributing to Regional Self-Reliance**

| Water Supplies Contributing to Regional Self-Reliance (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Water Use Efficiency | - | 46,097 | 35,356 | 38,669 | 44,992 | 51,762 | 59,880 | 68,980 |
| Water Recycling | 14,268 | 13,349 | 13,398 | 17,013 | 23,933 | 25,713 | 27,913 | 30,213 |
| Stormwater Capture and Use | | | | | | | | |
| Advanced Water Technologies | | | | | | | | |
| Conjunctive Use Projects | | | | | | | | |
| Local and Regional Water Supply and Storage Projects | 412,587 | 437,587 | 462,387 | 488,890 | 498,390 | 498,390 | 498,390 | 498,390 |
| Other Programs and Projects the Contribute to Regional Self-Reliance | 11,600 | 11,600 | 11,187 | 11,187 | 11,187 | 11,187 | | |
| Water Supplies Contributing to Regional Self-Reliance | 438,455 | 508,633 | 522,035 | 555,759 | 578,502 | 587,052 | 586,183 | 597,583 |

| Water Demands without Water Use Efficiency (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Water Demands without Water Use Efficiency Accounted For | 670,396 | 623,330 | 626,492 | 661,263 | 678,235 | 695,498 | 711,415 | 727,541 |

| Change in Regional Self Reliance (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Water Supplies Contributing to Regional Self-Reliance | 438,455 | 508,633 | 522,035 | 555,759 | 578,502 | 587,052 | 586,183 | 597,583 |
| Change in Water Supplies Contributing to Regional Self-Reliance | | 70,178 | 83,580 | 117,304 | 140,047 | 148,597 | 147,728 | 159,128 |

| Percent Change in Regional Self Reliance (As Percent of Demand w/out WUE) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Percent of Water Supplies Contributing to Regional Self-Reliance | 65.4% | 81.6% | 83.3% | 84.0% | 85.3% | 84.4% | 82.4% | 82.1% |
| Change in Percent of Water Supplies Contributing to Regional Self-Reliance | | 16.2% | 17.9% | 18.6% | 19.9% | 19.0% | 17.0% | 16.7% |

**Table C-4: Calculation of Reliance on Water Supplies from the Delta Watershed**

| Water Supplies from the Delta Watershed (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| CVP/SWP Contract Supplies | 124,224 | 95,109 | 112,578 | 112,578 | 112,578 | 112,578 | 100,932 | 100,932 |
| Delta/Delta Tributary Diversions | | | | | | | | |
| Transfers and Exchanges | | | | | | | | |
| Other Water Supplies from the Delta Watershed | | 651 | 651 | 651 | 651 | 651 | 651 | 651 |
| Total Water Supplies from the Delta Watershed | 124,224 | 95,760 | 113,229 | 113,229 | 113,229 | 113,229 | 101,583 | 101,583 |

| Water Demands without Water Use Efficiency (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Water Demands without Water Use Efficiency Accounted For | 670,396 | 623,330 | 626,492 | 661,263 | 678,235 | 695,498 | 711,415 | 727,541 |

| Change in Supplies from the Delta Watershed (Acre-Feet) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Water Supplies from the Delta Watershed | 124,224 | 95,760 | 113,229 | 113,229 | 113,229 | 113,229 | 101,583 | 101,583 |
| Change in Water Supplies from the Delta Watershed | | (28,464) | (10,995) | (10,995) | (10,995) | (10,995) | (22,641) | (22,641) |

| Percent Change in Supplies from the Delta Watershed (As a Percent of Demand w/out WUE) | Baseline (2010) | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 (Optional) |
|---|---|---|---|---|---|---|---|---|
| Percent of Water Supplies from the Delta Watershed | 18.5% | 15.4% | 18.1% | 17.1% | 16.7% | 16.3% | 14.3% | 14.0% |
| Change in Percent of Water Supplies from the Delta Watershed | | -3.2% | -0.5% | -1.4% | -1.8% | -2.2% | -4.3% | -4.6% |

D

# Appendix D: Standard DWR UWMP Tables

E

# Appendix E: Standard SB X7-7 Tables

| **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 Submittal 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 | 129,273 | Acre Feet |
| | 2008 total volume of delivered recycled water | - | Acre Feet |
| | 2008 recycled water as a percent of total deliveries | 0% | **See Note 1** |
| | Number of years in baseline period[1, 2] | 10 | Years |
| | Year beginning baseline period range | 1999 | |
| | Year ending baseline period range[3] | 2008 | |
| **5-year baseline period** | Number of years in baseline period | 5 | Years |
| | Year beginning baseline period range | 2003 | |
| | Year ending baseline period range[4] | 2007 | |

*[1] If the 2008 recycled water delivery is less than 10 percent of total water deliveries, then the 10-15year baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater of total deliveries, the 10-15 year baseline period is a continuous 10- to 15-year period.*

*[2] The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.*

*[3] The ending year for the 10-15 year baseline period must be between December 31, 2004 and December 31, 2010.*

*[4] The ending year for the 5 year baseline period must be between December 31, 2007 and December 31, 2010.*

NOTES:

| SB X7-7 Table 2: Method for Population Estimates | |
|---|---|
| **Method Used to Determine Population** (may check more than one) | |
| ☐ | **1. Department of Finance** (DOF) or **American Community Survey** (ACS) |
| ☐ | **2. Persons-per-Connection Method** |
| ☐ | **3. DWR Population Tool** |
| ☑ | **4. Other**<br>DWR recommends pre-review |
| NOTES: | |

| SB X7-7 Table 3: Service Area Population | | |
|---|---|---|
| Year | | Population |
| 10 to 15 Year Baseline Population | | |
| Year 1 | 1999 | 182,524 |
| Year 2 | 2000 | 189,328 |
| Year 3 | 2001 | 196,133 |
| Year 4 | 2002 | 202,938 |
| Year 5 | 2003 | 209,742 |
| Year 6 | 2004 | 216,547 |
| Year 7 | 2005 | 223,351 |
| Year 8 | 2006 | 230,156 |
| Year 9 | 2007 | 236,960 |
| Year 10 | 2008 | 243,765 |
| *Year 11* | | |
| *Year 12* | | |
| *Year 13* | | |
| *Year 14* | | |
| *Year 15* | | |
| 5 Year Baseline Population | | |
| Year 1 | 2003 | 209,742 |
| Year 2 | 2004 | 216,547 |
| Year 3 | 2005 | 223,351 |
| Year 4 | 2006 | 230,156 |
| Year 5 | 2007 | 236,960 |
| NOTES: | | |

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

| Baseline Year *Fm SB X7-7 Table 3* | | Volume Into Distribution System *This column will remain blank until SB X7-7 Table 4-A is completed.* | Deductions | | | | | Acre Feet |
|---|---|---|---|---|---|---|---|---|
| | | | Exported Water | Change in Dist. System Storage (+/-) | Indirect Recycled Water *This column will remain blank until SB X7-7 Table 4-B is completed.* | Water Delivered for Agricultural Use | Process Water *This column will remain blank until SB X7-7 Table 4-D is completed.* | Annual Gross Water Use |
| 10 to 15 Year Baseline - Gross Water Use | | | | | | | | |
| Year 1 | 1999 | 106,805 | | | - | | - | 106,805 |
| Year 2 | 2000 | 117,547 | | | - | | - | 117,547 |
| Year 3 | 2001 | 116,916 | | | - | | - | 116,916 |
| Year 4 | 2002 | 123,219 | | | - | | - | 123,219 |
| Year 5 | 2003 | 121,231 | | | - | | - | 121,231 |
| Year 6 | 2004 | 124,139 | | | - | | - | 124,139 |
| Year 7 | 2005 | 121,737 | | | - | | - | 121,737 |
| Year 8 | 2006 | 134,988 | | | - | | - | 134,988 |
| Year 9 | 2007 | 129,871 | | | - | | - | 129,871 |
| Year 10 | 2008 | 129,273 | | | - | | - | 129,273 |
| *Year 11* | 0 | - | | | - | | - | - |
| *Year 12* | 0 | - | | | - | | - | - |
| *Year 13* | 0 | - | | | - | | - | - |
| *Year 14* | 0 | - | | | - | | - | - |
| *Year 15* | 0 | - | | | - | | - | - |
| **10 - 15 year baseline average gross water use** | | | | | | | | **122,573** |
| 5 Year Baseline - Gross Water Use | | | | | | | | |
| Year 1 | 2003 | 121,231 | | | - | | - | 121,231 |
| Year 2 | 2004 | 124,139 | | | - | | - | 124,139 |
| Year 3 | 2005 | 121,737 | | | - | | - | 121,737 |
| Year 4 | 2006 | 134,988 | | | - | | - | 134,988 |
| Year 5 | 2007 | 129,871 | | | - | | - | 129,871 |
| **5 year baseline average gross water use** | | | | | | | | **126,393** |

*** Units of measure** (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

NOTES:

**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** *Fm SB X7-7 Table 3* | | Volume Entering Distribution System[1] | Meter Error Adjustment[2] *Optional (+/-)* | Corrected Volume Entering Distribution System |
|---|---|---|---|---|
| **10 to 15 Year Baseline - Water into Distribution System** | | | | |
| Year 1 | 1999 | 106,805 | | 106,805 |
| Year 2 | 2000 | 117,547 | | 117,547 |
| Year 3 | 2001 | 116,916 | | 116,916 |
| Year 4 | 2002 | 123,219 | | 123,219 |
| Year 5 | 2003 | 121,231 | | 121,231 |
| Year 6 | 2004 | 124,139 | | 124,139 |
| Year 7 | 2005 | 121,737 | | 121,737 |
| Year 8 | 2006 | 134,988 | | 134,988 |
| Year 9 | 2007 | 129,871 | | 129,871 |
| Year 10 | 2008 | 129,273 | | 129,273 |
| *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 | 121,231 | | 121,231 |
| Year 2 | 2004 | 124,139 | | 124,139 |
| Year 3 | 2005 | 121,737 | | 121,737 |
| Year 4 | 2006 | 134,988 | | 134,988 |
| Year 5 | 2007 | 129,871 | | 129,871 |

[1] ***Units of measure*** *(AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.*

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

NOTES:

| SB X7-7 Table 5: Baseline Gallons Per Capita Per Day (GPCD) | | | | |
|---|---|---|---|---|
| **Baseline Year** *Fm SB X7-7 Table 3* | | Service Area Population *Fm SB X7-7 Table 3* | Annual Gross Water Use *Fm SB X7-7 Table 4* | Daily Per Capita Water Use (GPCD) |
| 10 to 15 Year Baseline GPCD | | | | |
| Year 1 | 1999 | 182,524 | 106,805 | 522 |
| Year 2 | 2000 | 189,328 | 117,547 | 554 |
| Year 3 | 2001 | 196,133 | 116,916 | 532 |
| Year 4 | 2002 | 202,938 | 123,219 | 542 |
| Year 5 | 2003 | 209,742 | 121,231 | 516 |
| Year 6 | 2004 | 216,547 | 124,139 | 512 |
| Year 7 | 2005 | 223,351 | 121,737 | 487 |
| Year 8 | 2006 | 230,156 | 134,988 | 524 |
| Year 9 | 2007 | 236,960 | 129,871 | 489 |
| Year 10 | 2008 | 243,765 | 129,273 | 473 |
| *Year 11* | 0 | - | - | |
| *Year 12* | 0 | - | - | |
| *Year 13* | 0 | - | - | |
| *Year 14* | 0 | - | - | |
| *Year 15* | 0 | - | - | |
| **10-15 Year Average Baseline GPCD** | | | | **515** |
| 5 Year Baseline GPCD | | | | |
| **Baseline Year** *Fm SB X7-7 Table 3* | | Service Area Population *Fm SB X7-7 Table 3* | Gross Water Use *Fm SB X7-7 Table 4* | Daily Per Capita Water Use |
| Year 1 | 2003 | 209,742 | 121,231 | 516 |
| Year 2 | 2004 | 216,547 | 124,139 | 512 |
| Year 3 | 2005 | 223,351 | 121,737 | 487 |
| Year 4 | 2006 | 230,156 | 134,988 | 524 |
| Year 5 | 2007 | 236,960 | 129,871 | 489 |
| **5 Year Average Baseline GPCD** | | | | **505** |
| NOTES: | | | | |

| **SB X7-7 Table 6: Baseline GPCD** *Summary*<br>*From Table SB X7-7 Table 5* | |
|---|---|
| 10-15 Year Baseline GPCD | 515 |
| 5 Year Baseline GPCD | 505 |
| NOTES: | |

| **SB X7-7 Table 7: 2020 Target Method**<br>*Select Only One* | | |
|---|---|---|
| **Target Method** | | **Supporting Tables** |
| ☑ | Method 1 | SB X7-7 Table 7A |
| ☐ | Method 2 | SB X7-7 Tables 7B, 7C, and 7D |
| ☐ | Method 3 | SB X7-7 Table 7-E |
| ☐ | Method 4 | Method 4 Calculator *Located in the WUE Data Portal at wuedata.water.ca.gov* Resources *button* |
| NOTES: | | |

| **SB X7-7 Table 7-A: Target Method 1**<br>20% Reduction | |
|---|---|
| 10-15 Year Baseline GPCD | **2020 Target GPCD** |
| 515 | **412** |
| NOTES: | |

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

| 5 Year Baseline GPCD *From SB X7-7 Table 5* | Maximum 2020 Target[1] | Calculated 2020 Target[2] | | | Confirmed 2020 Target[4] |
|---|---|---|---|---|---|
| | | As calculated by supplier in this SB X7-7 Verification Form | Special Situations[3] | | |
| | | | Prorated 2020 Target | Population Weighted Average 2020 Target | |
| 505 | 480 | 412 | | | **412** |

[1] ***Maximum 2020 Target*** *is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD.*
[2] ***Calculated 2020 Target*** *is the target calculated by the Supplier based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target. Supplier may only enter one calculated target.*
[3] ***Prorated targets and population weighted target*** *are allowed for special situations only. These situations are described in Appendix P, Section P.3*
***Confirmed Target*** *is the lesser of the Calculated 2020 Target (C5, D5, or E5) or the Maximum 2020 Target (Cell B5)*

NOTES:

| **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 Submittal 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 | 41,430 | Acre Feet |
| | 2008 total volume of delivered recycled water | 4,079 | Acre Feet |
| | 2008 recycled water as a percent of total deliveries | 10% | **See Note 1** |
| | Number of years in baseline period[1, 2] | 10 | Years |
| | Year beginning baseline period range | 1996 | |
| | Year ending baseline period range[3] | 2005 | |
| **5-year baseline period** | Number of years in baseline period | 5 | Years |
| | Year beginning baseline period range | 2004 | |
| | Year ending baseline period range[4] | 2008 | |

*[1] If the 2008 recycled water delivery is less than 10 percent of total water deliveries, then the 10-15year baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater of total deliveries, the 10-15 year baseline period is a continuous 10- to 15-year period.*

*[2] The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.*

*[3] The ending year for the 10-15 year baseline period must be between December 31, 2004 and December 31, 2010.*

*[4] The ending year for the 5 year baseline period must be between December 31, 2007 and December 31, 2010.*

NOTES: Water use reported in Appendix J of 2015 UWMP

| SB X7-7 Table 2: Method for Population Estimates | |
|---|---|
| **Method Used to Determine Population** (may check more than one) | |
| ☐ | **1. Department of Finance** (DOF) or **American Community Survey** (ACS) |
| ☐ | **2. Persons-per-Connection Method** |
| ☐ | **3. DWR Population Tool** |
| ☑ | **4. Other**<br>DWR recommends pre-review |
| NOTES: Methodology to calculated equivalent population for seasonal residents approved by DWR. | |

| SB X7-7 Table 3: Service Area Population | | |
|---|---|---|
| Year | | Population |
| 10 to 15 Year Baseline Population | | |
| Year 1 | 1996 | 62,661 |
| Year 2 | 1997 | 62,866 |
| Year 3 | 1998 | 63,071 |
| Year 4 | 1999 | 63,276 |
| Year 5 | 2000 | 63,481 |
| Year 6 | 2001 | 63,686 |
| Year 7 | 2002 | 63,891 |
| Year 8 | 2003 | 64,096 |
| Year 9 | 2004 | 64,301 |
| Year 10 | 2005 | 64,506 |
| *Year 11* | | |
| *Year 12* | | |
| *Year 13* | | |
| *Year 14* | | |
| *Year 15* | | |
| 5 Year Baseline Population | | |
| Year 1 | 2004 | 64,301 |
| Year 2 | 2005 | 64,506 |
| Year 3 | 2006 | 64,711 |
| Year 4 | 2007 | 64,916 |
| Year 5 | 2008 | 65,121 |
| NOTES: Population calculated using approved methodology. | | |

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

| Baseline Year *Fm SB X7-7 Table 3* | | Volume Into Distribution System *This column will remain blank until SB X7-7 Table 4-A is completed.* | Deductions | | | | | Acre Feet |
|---|---|---|---|---|---|---|---|---|
| | | | Exported Water | Change in Dist. System Storage (+/-) | Indirect Recycled Water *This column will remain blank until SB X7-7 Table 4-B is completed.* | Water Delivered for Agricultural Use | Process Water *This column will remain blank until SB X7-7 Table 4-D is completed.* | Annual Gross Water Use |
| 10 to 15 Year Baseline - Gross Water Use | | | | | | | | |
| Year 1 | 1996 | 42,310 | | | - | | - | 42,310 |
| Year 2 | 1997 | 40,080 | | | - | | - | 40,080 |
| Year 3 | 1998 | 40,080 | | | - | | - | 40,080 |
| Year 4 | 1999 | 42,210 | | | - | | - | 42,210 |
| Year 5 | 2000 | 42,690 | | | - | | - | 42,690 |
| Year 6 | 2001 | 42,135 | | | - | | - | 42,135 |
| Year 7 | 2002 | 43,440 | | | - | | - | 43,440 |
| Year 8 | 2003 | 41,440 | | | - | | - | 41,440 |
| Year 9 | 2004 | 44,635 | | | - | | - | 44,635 |
| Year 10 | 2005 | 43,070 | | | - | | - | 43,070 |
| *Year 11* | 0 | - | | | - | | - | - |
| *Year 12* | 0 | - | | | - | | - | - |
| *Year 13* | 0 | - | | | - | | - | - |
| *Year 14* | 0 | - | | | - | | - | - |
| *Year 15* | 0 | - | | | - | | - | - |
| **10 - 15 year baseline average gross water use** | | | | | | | | **42,209** |
| 5 Year Baseline - Gross Water Use | | | | | | | | |
| Year 1 | 2004 | 44,635 | | | - | | - | 44,635 |
| Year 2 | 2005 | 43,070 | | | - | | - | 43,070 |
| Year 3 | 2006 | 44,780 | | | - | | - | 44,780 |
| Year 4 | 2007 | 44,580 | | | - | | - | 44,580 |
| Year 5 | 2008 | 41,430 | | | - | | - | 41,430 |
| **5 year baseline average gross water use** | | | | | | | | **43,699** |

*** Units of measure** (AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.

NOTES: Water use reported in Appendix J of 2015 UWMP

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

Complete one table for each source.

| **Name of Source** | Potable Water System |
|---|---|
| **This water source is:** | |
| ☑ | The supplier's own water source |
| ☐ | A purchased or imported source |

| **Baseline Year** *Fm SB X7-7 Table 3* | | Volume Entering Distribution System[1] | Meter Error Adjustment[2] *Optional (+/-)* | Corrected Volume Entering Distribution System |
|---|---|---|---|---|
| **10 to 15 Year Baseline - Water into Distribution System** | | | | |
| Year 1 | 1996 | 42,310 | | 42,310 |
| Year 2 | 1997 | 40,080 | | 40,080 |
| Year 3 | 1998 | 40,080 | | 40,080 |
| Year 4 | 1999 | 42,210 | | 42,210 |
| Year 5 | 2000 | 42,690 | | 42,690 |
| Year 6 | 2001 | 42,135 | | 42,135 |
| Year 7 | 2002 | 43,440 | | 43,440 |
| Year 8 | 2003 | 41,440 | | 41,440 |
| Year 9 | 2004 | 44,635 | | 44,635 |
| Year 10 | 2005 | 43,070 | | 43,070 |
| *Year 11* | 0 | | | - |
| *Year 12* | 0 | | | - |
| *Year 13* | 0 | | | - |
| *Year 14* | 0 | | | - |
| *Year 15* | 0 | | | - |
| **5 Year Baseline - Water into Distribution System** | | | | |
| Year 1 | 2004 | 44,635 | | 44,635 |
| Year 2 | 2005 | 43,070 | | 43,070 |
| Year 3 | 2006 | 44,780 | | 44,780 |
| Year 4 | 2007 | 44,580 | | 44,580 |
| Year 5 | 2008 | 41,430 | | 41,430 |

[1] ***Units of measure*** *(AF, MG , or CCF) must remain consistent throughout the UWMP, as reported in Table 2-3.*

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

NOTES:

| SB X7-7 Table 5: Baseline Gallons Per Capita Per Day (GPCD) | | | | |
|---|---|---|---|---|
| **Baseline Year** *Fm SB X7-7 Table 3* | | Service Area Population *Fm SB X7-7 Table 3* | Annual Gross Water Use *Fm SB X7-7 Table 4* | Daily Per Capita Water Use (GPCD) |
| 10 to 15 Year Baseline GPCD | | | | |
| Year 1 | 1996 | 62,661 | 42,310 | 603 |
| Year 2 | 1997 | 62,866 | 40,080 | 569 |
| Year 3 | 1998 | 63,071 | 40,080 | 567 |
| Year 4 | 1999 | 63,276 | 42,210 | 596 |
| Year 5 | 2000 | 63,481 | 42,690 | 600 |
| Year 6 | 2001 | 63,686 | 42,135 | 591 |
| Year 7 | 2002 | 63,891 | 43,440 | 607 |
| Year 8 | 2003 | 64,096 | 41,440 | 577 |
| Year 9 | 2004 | 64,301 | 44,635 | 620 |
| Year 10 | 2005 | 64,506 | 43,070 | 596 |
| *Year 11* | 0 | - | - | |
| *Year 12* | 0 | - | - | |
| *Year 13* | 0 | - | - | |
| *Year 14* | 0 | - | - | |
| *Year 15* | 0 | - | - | |
| **10-15 Year Average Baseline GPCD** | | | | **593** |
| 5 Year Baseline GPCD | | | | |
| **Baseline Year** *Fm SB X7-7 Table 3* | | Service Area Population *Fm SB X7-7 Table 3* | Gross Water Use *Fm SB X7-7 Table 4* | Daily Per Capita Water Use |
| Year 1 | 2004 | 64,301 | 44,635 | 620 |
| Year 2 | 2005 | 64,506 | 43,070 | 596 |
| Year 3 | 2006 | 64,711 | 44,780 | 618 |
| Year 4 | 2007 | 64,916 | 44,580 | 613 |
| Year 5 | 2008 | 65,121 | 41,430 | 568 |
| **5 Year Average Baseline GPCD** | | | | **603** |

NOTES:

| **SB X7-7 Table 6: Baseline GPCD** *From Table SB X7-7 Table 5* | *Summary* |
|---|---|
| 10-15 Year Baseline GPCD | 593 |
| 5 Year Baseline GPCD | 603 |
| NOTES: | |

| **SB X7-7 Table 7: 2020 Target Method**<br>*Select Only One* | | |
|---|---|---|
| **Target Method** | | **Supporting Tables** |
| ☑ | Method 1 | SB X7-7 Table 7A |
| ☐ | Method 2 | SB X7-7 Tables 7B, 7C, and 7D |
| ☐ | Method 3 | SB X7-7 Table 7-E |
| ☐ | Method 4 | Method 4 Calculator *Located in the WUE Data Portal at wuedata.water.ca.gov* Resources *button* |
| NOTES: | | |

| **SB X7-7 Table 7-A: Target Method 1**<br>20% Reduction | |
|---|---|
| 10-15 Year Baseline GPCD | **2020 Target GPCD** |
| 593 | **474** |
| NOTES: | |

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

| 5 Year Baseline GPCD *From SB X7-7 Table 5* | Maximum 2020 Target[1] | Calculated 2020 Target[2] | | | Confirmed 2020 Target[4] |
|---|---|---|---|---|---|
| | | As calculated by supplier in this SB X7-7 Verification Form | Special Situations[3] | | |
| | | | Prorated 2020 Target | Population Weighted Average 2020 Target | |
| 603 | 573 | 474 | | | **474** |

[1] ***Maximum 2020 Target*** *is 95% of the 5 Year Baseline GPCD except for suppliers at or below 100 GPCD.*
[2] ***Calculated 2020 Target*** *is the target calculated by the Supplier based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target. Supplier may only enter one calculated target.*
[3] ***Prorated targets and population weighted target*** *are allowed for special situations only. These situations are described in Appendix P, Section P.3*
***Confirmed Target*** *is the lesser of the Calculated 2020 Target (C5, D5, or E5) or the Maximum 2020 Target (Cell B5)*

NOTES:

F

# Appendix F: Water Management Agreements

**AMENDED AND RESTATED AGREEMENT BETWEEN THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, COACHELLA VALLEY WATER DISTRICT, AND DESERT WATER AGENCY FOR THE EXCHANGE AND ADVANCE DELIVERY OF WATER**

This 2019 Amended and Restated Agreement for Exchange and Advance Delivery of Water (Agreement) is made this 11th day of December, 2019 by THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA (Metropolitan), COACHELLA VALLEY WATER DISTRICT (Coachella), and DESERT WATER AGENCY (Desert). Metropolitan, Coachella, and Desert are individually referred to as a "Party" and collectively as "Parties."

**RECITALS**

A. Metropolitan is a metropolitan water district organized under the Metropolitan Water District Act, codified at section 109-1, et seq. of West's Appendix to the California Water Code, and engaged in developing, storing, and distributing water in the counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura. Metropolitan is a State Water Project (SWP) contractor and receives water through the SWP. Metropolitan also owns and operates the Colorado River Aqueduct through which Metropolitan receives Colorado River water.

B. Coachella is a county water district organized under the California County Water District Law, codified at section 30000, et seq. of the California Water Code, and utilizes Colorado River water in Riverside County for groundwater recharge as well as potable and irrigation purposes.

C. Desert is an independent special district organized under the Desert Water Agency Law, codified at section 100-1, et seq. of West's Appendix to the California Water Code, and also utilizes Colorado River water in Riverside County for groundwater recharge purposes.

D. Coachella and Desert are SWP contractors without physical connections to the SWP. Rather than construct physical connections to the SWP, Coachella and Desert entered into separate agreements in 1967 with Metropolitan (1967 Exchange Agreements) under which Coachella and Desert deliver their State Project Water to Metropolitan, and in exchange, Metropolitan delivers a like amount of Colorado River water to Coachella and Desert.

E. In 1983, Metropolitan entered into new separate exchange agreements with Coachella ("Agreement Between the Metropolitan Water District of Southern California and the Coachella Valley Water District for Exchange of Water") and Desert ("Agreement Between the Metropolitan Water District of Southern California and Desert Water Agency for Exchange of Water") (collectively, the "1983 Exchange Agreements") which continued the prior exchange arrangements with certain modifications and expressly superseded the 1967 Exchange Agreements.

F. In 1984, the Parties entered into the "Advance Delivery Agreement" which allowed Metropolitan to deliver Colorado River water to be credited against Metropolitan's future water exchange obligations under the 1983 Exchange Agreements.

G. In 2003, the Parties entered into "The 2003 Exchange Agreement" which amended the 1983 Exchange Agreements and the Advance Delivery Agreement. The 2003 Exchange Agreement also provided for: the transfer from Metropolitan to Coachella and Desert of 100,000 acre-feet per year of Metropolitan's Annual Table A Amount from the SWP along

with the associated annual fixed and variable charges and the corresponding exchange of a like quantity of Metropolitan's Colorado River water or credits pursuant to the Advance Delivery Agreement; an annual option for Metropolitan to call-back the 100,000 acre-foot transfer under certain conditions and to reimburse Coachella and Desert for those SWP charges in that year; and a process by which the Parties would agree to operating criteria in order to better coordinate delivery and financial transactions.

H. Also in 2003, the Parties entered into separate amendments to their respective SWP Agreements with the Department of Water Resources (DWR) which approved the Parties' Table A transfers pursuant to The 2003 Exchange Agreement. (Amendment No. 18 to the Water Supply Contract between DWR and Coachella dated October 10, 2003; Amendment No. 18 to the Water Supply Contract between DWR and Desert dated November 3, 2003; Amendment Nos. 27 and 28 to the Water Supply Contracts between DWR and Metropolitan dated October 24, 2003.)

I. In 2004 and 2007, the Parties entered into letter agreements that established operating criteria pursuant to the 2003 Exchange Agreement. (November 9, 2004 Letter Agreement Regarding Implementation of 2003 Exchange Agreement and November 19, 2007 Letter Agreement Regarding Implementation of 2003 Exchange Agreement – Establishment of Long-Term Operating Criteria, collectively the "2004 and 2007 Letter Agreements".) The 2004 and 2007 Letter Agreements included provisions for the Parties to consider adding water to the amounts of Table A SWP water agreed upon for exchange.

J. In 2012, Metropolitan and Coachella entered into a letter agreement pursuant to the 2004 and 2007 Letter Agreements which provided the terms and conditions for the annual

delivery and exchange of up to 16,500 acre-feet of non-Table A SWP water that Rosedale Rio Bravo Water Storage District provides to Coachella (2012 Rosedale Letter Agreement).

K. In administering the various agreements, the Parties have gained operational experience and thus desire through this Amendment to better manage their water supplies.

L. The purposes of this Agreement are to: amend and restate, and to consolidate into this agreement the provisions of the various agreements setting forth the manner in which the exchanges, advance deliveries, and credits in those agreements will be implemented; end Metropolitan's right to call back 100,000 acre-feet of Table A water; allow Metropolitan to defer certain Colorado River water deliveries to Coachella and Desert; more equitably share among the Parties the operational benefits and risks of available SWP supplies; provide for Coachella and Desert to participate with Metropolitan in sharing water management costs in wetter years; and simplify the payment structure.

M. Thus, in consideration of the mutual covenants of the Parties and for good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed as follows:

## AGREEMENT

### 1. Definitions

Article 21 Supplies – State Project Water made available to the Parties in any year pursuant to Article 21 of the State Water Contracts.

Carryover Supplies – State Project Water stored by a Party in State Water Project surface conservation facilities pursuant to the State Water Contracts.

Colorado River Aqueduct – The Aqueduct system owned and operated by Metropolitan, and used for the transport of water from Lake Havasu on the Colorado River to Lake Mathews in Riverside County.

Exchange Water – Colorado River water delivered to Coachella and Desert by Metropolitan from the Colorado River Aqueduct in exchange for Coachella's and Desert's State Project Water.

Multi-Year Supplies – Water resulting from the contracts and projects listed in Exhibit A of this Agreement, which may be modified by the Parties in writing.

Single-Year Supplies – Water resulting from the contracts and projects listed in Exhibit B of this Agreement, which may be modified by the Parties in writing.

State Project Water – All water which Coachella and Desert have rights to receive under their State Water Contracts including, but not limited to, water Coachella and Desert may acquire from other sources that is conveyed through the State Water Project.

State Water Contracts – The Contract between Coachella and the State of California, dated March 29, 1963, the Contract between Desert and the State of California, dated October 17, 1962, and the Contract between Metropolitan and the State of California, dated November 4, 1960, including all past and future amendments to each such contract, for an imported water supply from the State Water Project.

State Water Project (SWP) – Part of the State Water Resources Development System, authorized and constructed under Section 12930, et seq. of the Water Code, to deliver water to various public agencies throughout the State, including the Parties.

Table A Amount – Each Party's Table A Amount pursuant to its contract with DWR at the time of execution of this Agreement, which for Metropolitan is 1,911,500 acre-feet, for Coachella is 138,350 acre-feet, and for Desert is 55,750 acre-feet.

**2. Prior Agreements Amended and Restated**

This Agreement amends and restates the following prior agreements among the Parties:

A. Agreement Between The Metropolitan Water District of Southern California and the Coachella Valley Water District for Exchange of Water, dated July 7, 1983.

B. Agreement Between The Metropolitan Water District of Southern California and Desert Water Agency for Exchange of Water, dated July 7, 1983.

C. Advance Delivery Agreement, dated June 28, 1984.

D. The 2003 Exchange Agreement, dated October 24, 2003.

E. Letter Agreement Regarding Implementation of 2003 Exchange Agreement, dated November 9, 2004.

F. Letter Agreement Regarding Implementation of 2003 Exchange Agreement – Establishment of Long-Term Operating Criteria, dated November 19, 2007.

G. Letter Agreement Between The Metropolitan Water District of Southern California and the Coachella Valley Water District regarding Agreement to Deliver non-State Water Project Water in Exchange for Colorado River Water, dated November 13, 2012.

**3. Coordination Committee**

Each Party will designate one person to form a Coordination Committee. The purpose of the Coordination Committee is to provide an opportunity to share information among the Parties regarding water management, and to ensure that any current and potential actions taken are consistent with the goals of this Agreement. The person designated by Metropolitan to be on the

Coordination Committee will be the Chairperson until another Chairperson is selected by majority vote of the Coordination Committee. The Coordination Committee may elect a new Chairperson at any time. The Chairperson will schedule meetings (at least quarterly, and as conditions dictate) and record meeting minutes. Metropolitan will inform the Coordination Committee of potential capacity and other operational constraints as conditions change during the year.

**4. Exchange of Water**

A. Exchange of Table A Amounts and Multi-Year Supplies

1. Metropolitan will accept delivery of Coachella's and Desert's Table A Amounts and exchange them for equal quantities of Metropolitan's Exchange Water as provided by this Agreement.

2. Metropolitan will accept delivery of Coachella's and Desert's Multi-Year Supplies and exchange them for equal quantities of Metropolitan's Exchange Water as listed in Exhibit A to this Agreement. The Parties may agree in writing to include additional Multi-Year Supplies in Exhibit A, which will be exchanged in the same manner.

3. There may be limitations on Metropolitan's ability to take delivery of all available Table A Amounts and Multi-Year Supplies in any year. Such limitations include, but are not limited to, insufficient demands within Metropolitan's service area, capacity constraints on the East Branch of the SWP, and the Parties' storage program capacities. These limitations may result in unused Table A Amounts that cannot be scheduled with DWR for delivery within the calendar year. If Metropolitan determines that any such limitations exist, Metropolitan will consult with the Coordination

Committee and will attempt to leave Table A amounts unscheduled at the end of the calendar year for each Party in amounts proportional to the sum of the Parties' Table A Amounts and Multi-Year Supplies.

4. There may be limitations on Metropolitan's ability in a calendar year to take delivery of the Table A Amounts, Multi-Year Supplies, and any Table A Amounts and Multi-Year Supplies that were previously carried over of each Party proportionally by Table A Amounts and Multi-Year Supplies. Such limitations include, but are not limited to, the differential spill of each Party's Carryover Supplies under DWR's spill accounting methodology. In any calendar year that such limitations apply, Metropolitan may take delivery of a higher proportion of one Party's supplies than another Party's supplies, so as to minimize losses due to spills or other causes. Metropolitan will keep an annual record of the deliveries taken from each Party's supplies and will adjust future water orders as necessary in an attempt to make up any delivery imbalance when operational opportunities arise. To the extent that Metropolitan receives a higher percentage of Table A Amounts and Multi-Year Supplies than Coachella or Desert during a year, that amount of water will count against Metropolitan's right to 200,000 acre-feet of advance credit under Section 5.C. [Credit of Advance Deliveries Against Metropolitan's Exchange Obligations]. In the event that at the end of any year, the cumulative delivery balance to any Party exceeds 5,000 acre-feet, and if Metropolitan is unable within five years thereafter to make the necessary adjustments to restore the proportional delivery of Table A Amounts and Multi-Year Supplies, the Parties will reconcile the water delivery imbalance by adjusting deliveries of Exchange Water, and

will make any necessary financial adjustments to keep the Parties financially whole, as follows:

a. If at the end of five years, Metropolitan has received a disproportionately higher amount of Table A Amounts and Multi-Year Supplies than Coachella and Desert, then Metropolitan will increase the Exchange Water deliveries to Coachella and Desert by an amount equal to the disproportionate amount of water Metropolitan received, and Coachella and Desert will reimburse Metropolitan for the variable transportation charges that Metropolitan paid DWR to move the water through SWP facilities to Devil Canyon in the year Metropolitan increased Exchange Water deliveries.

b. If at the end of five years, Coachella and/or Desert has received a disproportionately higher amount of Table A Amounts and Multi-Year Supplies than Metropolitan, then Metropolitan will take delivery of Coachella and/or Desert's Table A Amounts and Multi-Year Supplies in an amount equal to the disproportionate amount of water they received, Metropolitan will reimburse them for the variable transportation charges that Coachella and/or Desert paid DWR to move the water through SWP facilities to Devil Canyon in the year Metropolitan takes delivery of the increased Table A Amounts and Multi-Year Supplies, and Metropolitan will not make the equivalent Exchange Water deliveries to Coachella and/or Desert.

c. Should a State Water Contract amendment be ratified that allows for single-year Table A Amount transfers, the Parties may agree to use single-year transfers to accomplish the goal of restoring proportionality in the delivery of Table A Amounts and Multi-Year Supplies.

d. Billing and payment for financial adjustments made under this section 4.A.4. will occur in the calendar year following the fifth year. If any Party asserts to the other Parties, in writing, prior to payment of a reimbursement required by subsections 4.A.4.a. or b. above, that such reimbursement would produce a substantially inequitable financial result due to differences in variable transportation charges by DWR between the year that the Exchange Water or Table A Amounts and Multi-Year Supplies would have been delivered, absent the disproportionate deliveries, and the year that the increased Exchange Water or increased Table A Amounts and Multi-Year Supplies were later delivered to correct the resulting disproportionality, and taking into consideration the inflation that occurred over that period, the General Managers of the Parties will meet in an attempt to mutually agree to the amount of reimbursement necessary to achieve an equitable financial adjustment.

B. Exchange of Single-Year Supplies

1. If sufficient capacity exists after accounting for Table A Amounts and Multi-Year Supplies, Metropolitan will exchange Coachella's and Desert's Single Year Supplies up to the amounts requested by Coachella and Desert for equal quantities of Metropolitan's Exchange Water as listed in Exhibit B to this Agreement. The Parties may agree in writing to include additional Single-Year Supplies in Exhibit B which will be exchanged in the same manner.

2. There may be limitations on Metropolitan's ability to take delivery of all Single-Year Supplies in any year. Such limitations include insufficient demands within Metropolitan's service area, capacity constraints on the East Branch of the SWP, and the Parties' storage program capacities. If Metropolitan determines that any such limitations

exist, Metropolitan will consult with the Coordination Committee and will reduce the amount of water exchanged accordingly.

C. Exchange of Article 21 Supplies

When Article 21 Supplies are available and when Metropolitan determines that it has capacity to take delivery of Article 21 Supplies, Metropolitan will request delivery of Article 21 Supplies for the Parties in proportion to their Table A Amounts to the extent that no Party is harmed by delivery of Article 21 Supplies. Metropolitan will exchange such water of Coachella and Desert for equal quantities of Metropolitan's Exchange Water.

D. Exchange of Carryover Supplies

Metropolitan will exchange Coachella's and Desert's available carryover each year in amounts requested by Coachella and Desert for equal quantities of Metropolitan's Exchange Water. Metropolitan will not exchange Coachella's and Desert's spilled carryover, but will account for it as provided in Section 4.A.4.

E. Coordination Regarding Potential Additional Supplies

Before a Party declines to exercise a right to obtain water under an existing agreement which could be conveyed through the SWP, that Party will consult with the Coordination Committee regarding the potential opportunity for the other Parties to instead obtain such water for themselves. Any terms for addressing such an opportunity will be addressed in a separate agreement among the participants.

F. Delivery Points

Metropolitan will deliver its Exchange Water to Coachella and Desert at the Whitewater service connections, Mission Creek service connections, or at other locations mutually agreed upon by Metropolitan and the Party whose connection is involved. DWR will deliver Coachella's

and Desert's State Project Water for exchange to Metropolitan at: Devil Canyon Afterbay, a connection downstream of Devil Canyon Afterbay, or other locations mutually agreed upon by Metropolitan and the Party whose connection is involved. Each Party must construct and operate its own facilities for the transportation of water subject to this Agreement from the delivery points to and within its own service area.

G. Scheduling of Deliveries

1. After consultation with the Coordinating Committee, Metropolitan will act as Coachella's and Desert's agent in scheduling delivery by DWR of Coachella's and Desert's State Project Water to Metropolitan.

2. Metropolitan will coordinate with Coachella and Desert to best accommodate the Parties' requests regarding delivery times, rates, and points of delivery.

3. To ensure that carryover rights are available to Metropolitan, Coachella and Desert will utilize, by exchange, their entire Table A Amounts within their respective service areas or in adjacent areas in a manner that will benefit use within their respective service areas.

H. Additional Table A Amounts, Multi-year Supplies, and Single-year Supplies

Notwithstanding anything to the contrary in this Agreement, each Party may include in this Agreement up to a combined total of an additional 10,000 acre-feet of Table A Amounts, Multi-year Supplies, and Single-year Supplies without prior written agreement of the other Parties.

## 5. Advance Delivery of Colorado River Water

### A. Right to Deliver Colorado River Water in Advance

Metropolitan may make advance deliveries of Colorado River water to be credited to an advance delivery account provided that the total balance of advance deliveries at any time in the account does not exceed 800,000 acre-feet or such greater amount as may be mutually agreed upon by the Parties, after debiting the account for stored water utilized by Coachella and Desert pursuant to Section 5.C. [Credit of Advance Deliveries Against Metropolitan's Exchange Obligations]. Deliveries will be for spreading at the spreading grounds overlying the Whitewater River Sub-basin of the Upper Coachella Valley Groundwater Basin, spreading grounds overlying the Mission Creek Sub-basin, or such other location or purpose (such as in lieu recharge) as may be mutually agreed upon by the Parties. Such advance deliveries will not interfere with normal deliveries of Exchange Water, and any Colorado River water delivered by Metropolitan to Coachella and Desert in any year will first be credited to Metropolitan's obligation to deliver Exchange Water during that year, and the balance of such deliveries will be applied to offset Metropolitan's future Exchange Water delivery obligations as provided in Section 5.C. [Credit of Advance Deliveries Against Metropolitan's Exchange Obligations] or Metropolitan's obligations pursuant to the *Delivery and Exchange Agreement Between Metropolitan and Coachella for 35,000 Acre-feet.*

### B. Ownership of Advance Deliveries

Advance deliveries of Colorado River water stored in the Whitewater River Sub-basin will be owned by Coachella and Desert in proportion to the amounts of water which they are required to deliver to Metropolitan pursuant to this Agreement. Title passes at the delivery structure.

C. Credit of Advance Deliveries Against Metropolitan's Exchange Obligations

1. At such times as Metropolitan may determine that its available Colorado River water supply is fully required to meet the needs of its member agencies, it will notify Coachella and Desert. Thereafter, and until Metropolitan determines that Exchange Water is again available, Colorado River water delivered in advance to the Whitewater River Sub-basin pursuant to this Agreement will be used by Coachella and Desert, and Metropolitan will be given credit for and will take deliveries of State Project Water made available to Coachella and Desert. So long as such water delivered in advance is available for such credits, Metropolitan will be entitled to continue to receive Coachella's and Desert's State Project Water.

2. Metropolitan will not have an annual call-back option for the 100,000 acre-feet per year of Metropolitan's Annual Table A Amount from the SWP transferred to Coachella and Desert pursuant to the 2003 Exchange Agreement.

3. In the event that Metropolitan has been credited with all of the Colorado River water it has delivered to its advance delivery account under Section 5.A. [Right to Deliver Colorado River Water in Advance], Metropolitan will be entitled to 200,000 acre-feet of advance credit which Metropolitan may use in the same manner as if it had delivered the Colorado River water in advance of an exchange. However, so long as a Metropolitan has advance credit available, Metropolitan will deliver to the Mission Creek service connection each year a quantity of Exchange Water equal to the proportionate share of deliveries which Coachella and Desert have committed to allocate to the Mission Creek Sub-basin (as indicated by Coachella and Desert to Metropolitan each July), subject to Metropolitan's delivery capability, so that Metropolitan's advance credit

balance does not affect the timing of replenishment of the Mission Creek Sub-basin. At the end of a calendar year, in the event that the advance credit that Metropolitan receives under this Section 5.C.3. exceeds 20,000 acre-feet, Metropolitan will deliver sufficient Colorado River water to Coachella and Desert so that the advance credit is eliminated by the end of the fifth calendar year thereafter. As an example, if Metropolitan receives more than 20,000 acre-feet of advance credit in 2020, then Metropolitan will deliver sufficient Colorado River water to Coachella and Desert to ensure that all advance credit is eliminated by December 31, 2025.

D. Scheduling of Advance Deliveries

Advance deliveries will be made according to a schedule established by the Parties. Such schedule may be amended from time to time as required for operation, maintenance, and repair, or by local groundwater conditions.

E. Responsibility for Spreading Grounds

Coachella is responsible for operating, maintaining, and repairing the spreading grounds overlying the Whitewater River Sub-basin of the Upper Coachella Valley Groundwater Basin. Desert is responsible for operating, maintaining, and repairing the spreading grounds overlying the Mission Creek Sub-basin.

F. Remaining Advance Delivery Credits

In the event that either Coachella or Desert cancels this Agreement, if any advance delivery credits remain in Metropolitan's advance delivery account, which have not been charged to Coachella's and Desert's delivery obligations to Metropolitan prior to the date the cancellation is effective, Coachella and Desert, consistent with their obligations under this Agreement, will cause DWR to make deliveries of State Project Water to Metropolitan until

Metropolitan has received all remaining advance delivery credit in the same manner as if this Agreement were still in effect.

**6. Water Management Cost Sharing**

Coachella and Desert will pay a portion of Metropolitan's average long-term costs to store water in Metropolitan's SWP groundwater storage programs in accordance with Exhibit C of this Agreement. Upon request by a Party and no later than 2026, the Parties will discuss whether to amend Exhibit C. Any amendment to Exhibit C must be in writing.

**7. Responsibility for Service Connections**

Metropolitan is responsible for operating, maintaining, and repairing the existing Whitewater and Mission Creek service connections, including any measuring devices. The existing connections include DWCV-1, DWCV-2, DWCV-2T, DWCV-3, DWCV-4, and DWCV-5. Coachella is responsible for the costs of any improvements it desires to make to the existing Whitewater service connections, including any measuring devices. Desert is responsible for the costs of any improvements it desires to make to the existing Mission Creek service connection, including any measuring devices.

**8. Responsibility for Coachella's and Desert's Hydroelectric Plant**

Coachella and Desert are responsible for any risk from loss of anticipated revenue from Coachella's and Desert's hydroelectric plant in any year caused by the scheduling and making of deliveries by Metropolitan; provided that Metropolitan will exercise reasonable efforts to schedule deliveries whenever possible so as to permit hydroelectric power generation.

**9. Rights of Way**

Metropolitan will grant to Coachella and/or Desert such easements in lands owned by Metropolitan as may be necessary for the operation, maintenance, removal, and repair of any

water conveyance facilities downstream from the Whitewater and Mission Creek service connections and through which Metropolitan's Exchange Water is delivered to Coachella and Desert. Coachella and Desert will grant to Metropolitan such easements in lands owned by Coachella and Desert as may be necessary for the operation, maintenance, removal, and repair of the Whitewater and Mission Creek service connections.

**10. Proposed Deliveries Requiring a New Turnout from the Colorado River Aqueduct**

Proposed deliveries of Colorado River water to a new turnout would require separate terms to be negotiated among the Parties at such time as when a new turnout is requested.

**11. Noninterference with Other Water Deliveries**

Either Metropolitan or Coachella may acquire Colorado River water from any other person or entity without objection by the other so long as such acquisition does not materially reduce the water available to the other. A breach of this section would cause irreparable injury and will be grounds for the immediate termination of this Agreement pursuant to Section 20 [Cancellation]. This Section will remain in effect for the term of this Agreement, notwithstanding any earlier termination of the Quantification Settlement Agreement dated October 10, 2003.

**12. Measurement of Deliveries**

All Exchange Water delivered by Metropolitan to Coachella and Desert will be measured by measuring devices and equipment installed at the delivery structures at which Exchange Water is delivered by Metropolitan to Coachella and Desert. The measuring devices may include meters or orifice plates. The costs for the original procurement and installation of measuring devices and equipment have been paid for by Coachella and Desert, and will be operated by Metropolitan. Metropolitan will be responsible for future, in-kind repair and replacement of the

measuring devices pursuant to Section 7 [Responsibility for Service Connections]. Metropolitan will give Coachella and Desert notice and, upon request, the opportunity to be present for any testing Metropolitan performs on the measuring devices and equipment. Metropolitan will share the results of any testing with Coachella and Desert. Coachella and Desert will have the right at any time to require that any such device or equipment be tested by Metropolitan, and Coachella and Desert will have the further right to be represented by a qualified observer during any such test. Should such test disclose a problem, Metropolitan will work with Coachella and Desert to resolve any resulting discrepancy and make adjustments in future deliveries of Exchange Water, if necessary. Such adjustments will cover the known or estimated period of duration of such discrepancy, but in no event will the period extend further back from the greater of either six months before the date of the test or January 1 of the year in which the test was conducted.

**13. Payment of State Water Contract Charges**

Coachella and Desert will pay all costs and charges due under their State Water Contracts incurred in connection with delivery of State Project Water to Metropolitan. When Metropolitan transferred the 100,000 acre-feet of Metropolitan's Annual Table A Amount to Coachella and Desert in 2003, Metropolitan also assigned the transportation rights to Coachella and Desert in Reaches 1 through 28J of the California Aqueduct. For the purposes of calculating the cost of these additional transportation rights in Reaches 19 through 28J it is assumed that the 100,000 acre-feet is conveyed through Basic East Branch capacity rather than East Branch Enlargement capacity, as described in Bulletin 132. The amounts transferred were 88,100 acre-feet to Coachella and 11,900 acre-feet to Desert, and capacity available to Coachella and Desert will be correspondingly adjusted pursuant to requirements of their State Water Contracts. Coachella and Desert are also responsible for paying DWR the Delta Water Charge, Water System Revenue

Bond Surcharge, and other charges attributable to the transferred amount. Any separate settlement agreed to by DWR and the Parties regarding East Branch Enlargement capacity and East Branch Allocation will apply to this Agreement.

**14. Payment of Colorado River Aqueduct Costs**

Metropolitan will pay all costs incurred in connection with the delivery of Exchange Water to Coachella and Desert.

**15. Payment Directions**

Payments required to be made to the Parties under this Agreement will be made to the order of Coachella, Desert, or Metropolitan, as the case may be, and paid by wire transfer as follows:

Coachella Valley Water District
Union Bank of California
445 S. Figueroa Street
Los Angeles, CA 90071
ABA No. 122000496
Contact Person: Donna Tredway
Credit to: Coachella Valley Water District
Account No. 2740013028

Desert Water Agency
Union Bank of California
ABA Routing #122000496
Account #322-0539198

The Metropolitan Water District of Southern California
Wire to: Bank of America
Credit to: Metropolitan Water District of Southern California
Account No. 1459350937
ABA No. 026009593

A Party may change these wire transfer instructions by giving a notice in accordance with Section 28.F. [General Provisions].

## 16. Delinquent Payments

Payment of any amount required under this Agreement will be delinquent if not received before the close of crediting activity on the date due. In the event that any Party is delinquent in the payment of any amount, that Party will pay interest on the amount due at an annual rate equal to that earned by the pooled money investment fund as provided in Government Code section 16480 et seq., calculated monthly on the amount of such delinquent payment from and after the date due until it is paid.

## 17. Water Rights

This Agreement will not be construed as: (a) a conveyance, abandonment, or waiver of any water right to the use of Table A Water which is held or owned by Coachella or Desert; (b) a conveyance, abandonment, or a waiver of any water right to the use of Colorado River water which is held or owned by Metropolitan; or (c) for purposes of Article 4 (Option for Continued Service) of Metropolitan's State Water Contract a reduction in the Maximum Annual Table A Amount of Metropolitan. Nor will it be construed as conferring any right whatsoever upon any person, firm, or other public or private entity not a party to this Agreement.

## 18. Records

Each Party will maintain and make available for inspection by the other Parties, during regular office hours, accurate records pertaining to the times and amounts of exchange deliveries and to the costs, disbursements, and receipts with respect to the construction, operation, and maintenance of structures for the delivery of State Project Water, Colorado River water, and Exchange Water.

**19. Term of Agreement**

A. This Agreement will terminate on December 31, 2035; unless extended pursuant to this Section 19 or terminated pursuant to Section 20 [Cancellation]; provided, however, if a claim arising under this Agreement has not been resolved, such provisions of this Agreement will continue in full force and effect as are necessary for the purpose of resolving such claims to satisfy the rights and obligations of the Parties. No later than December 31, 2034, the Parties will meet in good faith to begin negotiations to extend this Agreement for a period of an additional 50 years on the same terms and conditions.

B. Upon the termination of this Agreement, at the expiration of the term, or any earlier cancellation:

1. All structures and facilities which have been used solely to enable Coachella and Desert to take Exchange Water will be removed at the election of Metropolitan, and all property of every kind belonging to Metropolitan which has been involved in such delivery of water will be returned to its original condition, as near may be. Such work will be done, at the option of Metropolitan, either by and at the expense of Coachella and Desert but subject to approval by Metropolitan, or by Metropolitan at the expense of Coachella and Desert.

2. The 100,000 acre-feet per year of Metropolitan's Annual Table A Amount from the SWP and transportation rights transferred to Coachella and Desert under the 2003 Exchange Agreement will be transferred back to Metropolitan.

3. Metropolitan will reassume responsibility for the resulting increase in SWP charges pursuant to the State Water Contracts for the return of the 100,000 acre-feet per year of Metropolitan's Annual Table A Amount. The Parties recognize that the State

Water Contract provides for the annual redetermination and correction of past charges to Coachella and Desert associated with the 100,000 acre-feet. In the year prior the transfer back to Metropolitan of the 100,000 acre-feet, Metropolitan, Coachella, and Desert will assemble a SWP charges technical workgroup to develop the processes and procedures necessary to identify annual redetermination, correction, and adjustment of prior year charges associated with the 100,000 acre-feet. Each year thereafter, the technical workgroup will meet after the annual charges are issued to review redetermination and adjustments to past charges for the Delta Capital and Minimum, Transportation Capital and Minimum, Water System Revenue Bond Surcharge, Off Aqueduct and Variable OMP&R charge, Conservation and Transportation Replacement charges, Tehachapi 2nd Afterbay, Devil Canyon and Castaic Contract charges, and any other SWP charges not mentioned. The workgroup will prepare an annual accounting of all the redeterminations and adjustments to SWP charges and the amount owing to or receivable from Metropolitan, Coachella, and Desert. No later than ninety days (90) after the completion of the annual accounting for redetermination of past charges and adjustments, but before June 30 each year, all amounts owing will be settled by check. The SWP charges technical workgroup will cease to meet when DWR is no longer making adjustments to past charges associated with the 100,000 acre-feet.

**20. Cancellation**

A. Conditions of Termination

This Agreement will terminate upon any of the following conditions:

1. At the expiration of ten years after service by a Party upon the other Parties of a written notice of election to terminate the Agreement, provided that if

Coachella breaches Section 11 [Noninterference with Other Water Deliveries] of the Agreement, Metropolitan may, in its sole discretion, give notice to Coachella and Desert to immediately terminate this Agreement.

2. Upon completion of delivery facilities capable of transporting Coachella's and Desert's State Project Water from the East Branch to Coachella's and Desert's service areas.

3. Upon written notice by Metropolitan and upon the fact that it no longer has sufficient rights to Colorado River water to provide Coachella and Desert with Exchange Water required under this Agreement.

4. Upon written notice by Metropolitan that any new limitations exist on the right or ability of Coachella or Desert to accept Colorado River water from Metropolitan for spreading or storage.

**21. Liability**

A. Metropolitan

Metropolitan will not be liable to either Coachella or Desert for any damages or liability arising from a failure of Metropolitan to deliver Exchange Water, which failure results from a cessation or reduction of flow of water in the Colorado River Aqueduct below the quantities required from time to time for delivery to Coachella and Desert under this Agreement. Coachella and Desert will defend and indemnify Metropolitan, its directors, officers, employees, agents, and representatives from and against any and all claims and liabilities which may result in any manner or to any extent from such failure, or from any action or inaction by Coachella or Desert or its directors, officers, employees, agents, or representatives done or made with respect to the receipt and distribution by Coachella or Desert of Metropolitan's Exchange Water or Colorado

River water, including but not limited to construction, reconstruction, operation, maintenance, removal, and repair of facilities necessary or used pursuant to this Agreement.

B. Coachella and Desert

Coachella and Desert will not be liable to Metropolitan for any damages or liability arising from a failure of DWR to deliver Coachella's or Desert's State Project Water to Metropolitan, which failure results from a cessation or reduction of flow of water in the State Water Project below the quantities required from time to time for delivery to Metropolitan under this Agreement. Metropolitan will defend and indemnify Coachella and Desert, their directors, officers, employees, agents, and representatives from and against any and all claims and liabilities which may result in any manner or to any extent from any such failure, or from any action or inaction by Metropolitan or its directors, officers, employees, agents, or representatives done or made with respect to the receipt and distribution by Metropolitan of Coachella's and Desert's State Project Water, including but not limited to construction, reconstruction, operation, maintenance, removal, and repair of facilities necessary or used pursuant to this Agreement.

**22. Default**

Each of the following constitutes an event of default by a Party under this Agreement:

A. A Party fails to pay a required amount by the date due. If a Party fails to pay a required amount by the date due, that delinquent payment will also bear interest as provided by Section 16 [Delinquent Payments].

B. A Party fails to perform or observe any term, covenant, or undertaking in this Agreement that it is required to perform or observe and such default continues for forty-five (45) days from a notice of default being sent in the manner provided in Section 26.F. [General Provisions].

## 23. Remedies

A. Each Party recognizes that the rights and obligations of the Parties under this Agreement are unique and of such a nature as to be inherently difficult or impossible to value monetarily. If a Party does not perform in accordance with this Agreement, another Party will likely suffer harm curable only by the imposition of an injunction requiring specific performance. Thus, the Parties agree that any breach of this Agreement by any Party will entitle the non-breaching party to injunctive relief, including but not limited to, a decree of specific performance, in addition to any other remedies at law or in equity that may be available in the circumstances. If Coachella or Desert fails to comply with its obligations to DWR under its State Water Contract, and DWR makes demand that Metropolitan assume payment of costs and charges provided for by Section 13 [Payment of State Water Contract Charges], Metropolitan may, for purposes of Section 19 [Term of Agreement], specify the later of the (i) effective date of the demand by DWR or (ii) expiration of forty-five (45) day period referenced by Section 22.B. [Default] as the effective date of termination.

B. The Parties do not intend that any right or remedy given to a Party on the breach of any provisions of this Agreement be exclusive; each such right or remedy is cumulative and in addition to any other remedy provided in this Agreement or otherwise available at law or in equity. If a non-breaching Party fails to exercise or delays in exercising any right or remedy, the non-breaching Party does not thereby waive the right or remedy. In addition, no single or partial exercise of any right, power, or privilege precludes any other or further exercise of a right, power, or privilege granted by this Agreement, or otherwise.

## 24. Resolution of Disputes

Within thirty calendar days of the Parties identifying the existence of a dispute, the General Managers of Metropolitan, Coachella, and Desert, as the case may be, will meet and attempt to resolve the dispute to their mutual satisfaction. Any such resolution will be in writing and be binding on the Parties.

## 25. Force Majeure

If the performance, in whole or in part, of the obligations of a Party under this Agreement is hindered, interrupted or prevented by wars, strikes, lockouts, fire, acts of God or by other acts of military authority, or by any cause beyond the control of the Party, whether similar to the causes herein specified or not, such obligations of the Party under this Agreement will be suspended to the extent and for the time the performance thereof is affected by any such act. Upon the cessation of any such hindrance, interruption or prevention, the Parties will become obligated to resume and continue performance of their respective obligations under this Agreement. Notwithstanding any act described in this section, the Parties will diligently undertake all reasonable effort to perform this Agreement.

## 26. General Provisions

A. In the event that any term or condition of this Agreement is determined to be invalid, illegal, or otherwise unenforceable, such determination will have no effect on the other terms and conditions, which will continue to be binding upon the Parties. Lack of enforcement of any term or condition of this Agreement will not be construed as a waiver of any rights conferred by such term or condition. Unless otherwise agreed to in writing, the failure of any Party to require the performance by another Party of any provision of this Agreement will in no way

affect the full right to require such performance at any time thereafter, nor will the waiver of any provision on one occasion be taken or held to be a waiver of the provision itself.

B. This Agreement will be binding on the Parties and their respective successors and assigns.

C. Any person signing this Agreement represents that he/she has full power and authority to do so and that his/her signature is legally sufficient to bind the Party on whose behalf he/she is signing.

D. This Agreement contains the entire understanding of the Parties with respect to its subject matter and supersedes any prior understanding between the Parties, except as set forth in this Agreement, whether written or oral. This Agreement can only be amended in writing signed by the Parties.

E. Time is of the essence in this Agreement.

F. Any communication, notice, or demand of any kind which any Party may be required or may desire to give to another Party will be in writing and delivered by personal service (including express or courier service) or by mail, addressed as follows:

Metropolitan

The Metropolitan Water District of Southern California
Attention: General Manager
P.O. Box 54153
Los Angeles, CA 90054-0153

For personal or overnight delivery:

The Metropolitan Water District of Southern California
Attention: General Manager
700 North Alameda Street
Los Angeles, CA 90012
Phone: 213-217-6211

Copies to:

The Metropolitan Water District of Southern California
Attention: General Counsel
P.O. Box 54153
Los Angeles, CA 90054-0153

The Metropolitan Water District of Southern California
Attention: Water Resource Management Group
P.O. Box 54153
Los Angeles, CA 90054-0153

Coachella

Coachella Valley Water District
Attention: General Manager/Chief Engineer
P.O. Box 1058
Coachella, CA 92236

For personal or overnight delivery:

Coachella Valley Water District
Attention: General Manager/Chief Engineer
Avenue 52 and Highway 111
Coachella, CA 92236
Phone: 760-398-2651

Copy to:

Steven B. Abbott, Esq.
Redwine and Sherrill, LLP
3890 11th Street, Ste. 207
Riverside, CA 92501-3577
Phone: 951-684-2520

Desert

Desert Water Agency
Attention: General Manager
1200 Gene Autry Trail
P.O. Box 1710
Palm Springs, CA 92263-1710
Phone: 760-323-4961

Copy to:

Michael T. Riddell, Esq.
Best, Best & Krieger LLP
3750 University Ave., Suite 400
P.O. Box 1028
Riverside, CA 92502
Phone: 909-686-1450

A Party may change its address for notice by written notice given to the other Parties in the manner provide in this Section. Any communication pursuant this Section will be deemed to have been duly given or served on the date personally served, if by personal service, or three days after being placed in the U.S. mail, if mailed.

G. This Agreement is entered into in the Counties of Riverside and Los Angeles, California, and will be governed by and construed in accordance with the laws of the State of California.

H. The Parties will perform any further acts and to execute and deliver any documents which may be reasonably necessary to carry out the provisions of this Agreement.

I. This Agreement may be executed in any number of counterparts, each of which will be deemed an original, but all of which, when taken together, will constitute one and the same instrument.

J. This Agreement is made solely for the benefit of the Parties and their respective successor and assigns. No other person or entity may have or acquire any right by virtue of this Agreement.

In WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives on December 11, 2019.

Approved as to form:

By: _____
Marcia Scully
General Counsel

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

By: _____
Jeffrey Kightlinger
General Manager

Approved as to form:

By: _____
Steven B. Abbott
Special Counsel
Redwine and Sherrill, LLP

COACHELLA VALLEY WATER DISTRICT

By: _____
J. M. Barrett
General Manager

Approved as to form:

By: _____
Michael T. Riddell
Best Best & Krieger LLP

DESERT WATER AGENCY

By: _____
Mark S. Krause
General Manager

## Exhibit A

### Multi-Year Supplies

1. 9,500 acre-feet/year of Coachella's Rosedale Rio Bravo Water Storage District water.

## Exhibit B

### Single-Year Supplies

1. Yuba Accord water.

2. State Water Contractors' Dry Year Transfer Program water.

3. 6,500 acre-feet/year of Coachella's Rosedale Rio Bravo Water Storage District water.

## Exhibit C

### Water Management Cost Sharing

1. Annual Payment to Manage State Project Water

In years when the SWP Allocation (as defined below) is greater than 50%, Coachella and Desert will pay a portion of Metropolitan's average long-term costs to store water in Metropolitan's SWP groundwater storage programs. The amount Coachella and Desert will pay Metropolitan in such years, beginning in 2019, is $155/acre-foot (escalated annually by the prior year's Annual Percent Change series title "Consumer Price Index for All items in West Urban, all urban consumers, not seasonally adjusted") for 6.99% (for Coachella) and 2.64% (for Desert), of the volumes specified for Coachella and Desert in the following table:

| SWP Allocation | Estimated Long-Term Average Deliveries to Storage (AF) | Desert Multi-Year Supply Share – 2.64% (AF) | Coachella Multi-Year Supply Share – 6.99% (AF) |
|---|---|---|---|
| 0% - 50% | 0 | 0 | 0 |
| 55% | 30,000 | 792 | 2,097 |
| 60% | 60,000 | 1,584 | 4,194 |
| 65% | 90,000 | 2,376 | 6,291 |
| 70% | 120,000 | 3,168 | 8,338 |
| 75% | 150,000 | 3,960 | 10,485 |
| 80% | 180,000 | 4,752 | 12,582 |
| 85% | 210,000 | 5,544 | 14,679 |
| 90% - 100% | 240,000 | 6,336 | 16,776 |

2. Table Explanation

A. SWP Allocation is the final South-of-Delta allocation.

B. Coachella's and Desert's Multi-Year Supply Shares are based on 1,911,500 acre-feet Table A for Metropolitan, 138,350 acre-feet Table A and 9,500 acre-feet of Rosedale Rio-Bravo Water Storage District water for Coachella, and 55,750 acre-feet of Table A

for Desert. If a Party's Table A or other Multi-Year Supply amounts in Exhibit A change in the future, the Parties will adjust the table accordingly.

3. Example Calculation

As an example, if the SWP Allocation in 2019 were 60%, Coachella would pay Metropolitan $650,070 (155 x 4,194) and Desert would pay Metropolitan $245,520 (155 x 1,584).

4. Payments under Exhibit C are due June 30 for operation in the prior calendar year.

**SECOND AMENDMENT TO DELIVERY AND EXCHANGE AGREEMENT BETWEEN METROPOLITAN AND COACHELLA FOR 35,000 ACRE-FEET**

THIS SECOND AMENDMENT TO DELIVERY AND EXCHANGE AGREEMENT BETWEEN METROPOLITAN AND COACHELLA FOR 35,000 ACRE-FEET is made this 11th day of December 2019, for identification purposes only, by and between the Metropolitan Water District of Southern California, a public agency of the State of California ("Metropolitan") and Coachella Valley Water District, a public agency of the State of California ("Coachella" or "CVWD"). Metropolitan and CVWD are sometimes referred to individually as a "Party" and collectively as "Parties."

RECITALS

A. On October 10, 2003, the Parties entered into the "Delivery and Exchange Agreement between Metropolitan and Coachella for 35,000 Acre-Feet."

B. On October 19, 2015, the Parties amended the "Delivery and Exchange Agreement between Metropolitan and Coachella for 35,000 Acre-Feet Agreement" by entering into the "First Amendment to Delivery and Exchange Agreement between Metropolitan and Coachella for 35,000 Acre-Feet" ("First Amendment"). The "Delivery and Exchange Agreement between Metropolitan and Coachella for 35,000 Acre-Feet Agreement" as modified by the First Amendment is hereafter referred to as the "Agreement."

C. Each initially capitalized term herein shall have the meaning given it in the Agreement, unless specifically defined herein.

D. The Parties desire to streamline the delivery, billing, and payment provisions of the Agreement, as well as provide for an exchange of additional water, as set forth herein.

**NOW, THEREFORE, IN CONSIDERATION OF THE FOREGOING RECITALS AND THE MUTUAL COVENANTS AND AGREEMENTS CONTAINED HEREIN, THE PARTIES AGREE TO SUPPLEMENT, AMEND AND MODIFY THE TERMS AND CONDITIONS SET FORTH IN THE AGREEMENT, AS FOLLOWS:**

1. Section 1.13 of the Agreement shall be deleted in its entirety.

2. Section 2.1 of the Agreement shall be deleted in its entirety and replaced by the following:

> "**Delivery of Entitlement Water.** Pursuant to and subject to Metropolitan's State Water Contract and this Agreement, Metropolitan shall deliver to CVWD during 2019 through 2026 a total of 280,000 acre-feet of water available from Metropolitan's State Water Project Annual Table A Amount ("Entitlement Water")."

3. Section 2.4 of the Agreement shall be deleted in its entirety and replaced by the following:

"**Transfer Water Order.** Metropolitan shall include in its order to DWR 35,000 acre-feet of Entitlement Water each year during 2019 through 2026."

4. Section 2.5 of the Agreement shall be deleted in its entirety and replaced by the following:

"**Exchange Water.** All deliveries of Entitlement Water during 2019 through 2026, of whatever amount is made available by DWR as a result of the order made pursuant to Section 2.4 (Transfer Water Order), shall be exchanged with Metropolitan for a like amount of Metropolitan's Colorado River water ("Exchange Water").

5. Section 2.6 of the Agreement shall be deleted in its entirety and replaced by the following:

"**Points of Delivery.** Metropolitan will, except as allowed pursuant to Section 2.14 of this Agreement, deliver the Exchange Water to the Whitewater Service Connections and has discretion to determine how much of the 280,000 acre-feet of Exchange Water to deliver to CVWD each year, with the exceptions that: (a) Metropolitan will deliver up to 35,000 acre-feet in a year at Imperial Dam to the extent needed to avoid a CVWD overrun; and (b) Metropolitan may only deliver more than 35,000 acre-feet in a year to the extent needed to offset reduced deliveries in prior years."

6. Section 2.7 of the Agreement shall be deleted in its entirety and replaced with the following:

"**Costs of Supply.** CVWD shall purchase the Entitlement Water from Metropolitan at a payment ("Costs of Supply Payment") of $289/acre-foot in 2019 for Exchange Water delivered at the Whitewater Service Connections and $180/acre-foot in 2019 for Exchange Water delivered at Imperial Dam, both of which will be inflated by 3% for deliveries each successive year through 2026. A table showing this adjustment (rounded to the nearest dollar) is attached and incorporated into this Agreement as Exhibit A ("Adjustment to Costs of Supply")."

7. The final sentence of Section 2.9 of the Agreement shall be deleted.

8. Section 2.10 of the Agreement shall be deleted in its entirety and replaced with the following:

"**Reimbursement.** On a yearly basis Metropolitan will reimburse CVWD for water that the U.S. Bureau of Reclamation has approved CVWD to divert but CVWD does not use

during 2019-2026, that is made available to Metropolitan at a rate of $50/acre-foot in 1999 Dollars (as defined by "N" Dollars in section 1.1(46) of the Quantification Settlement Agreement)." MWD shall make the reimbursement by June 1 following the year the water is made available to Metropolitan.

9. Section 2.11.1 of the Agreement shall be deleted in its entirety and replaced with the following:

"**Payment Schedule.** Metropolitan shall pay DWR the costs associated with the Entitlement Water including delivery. Through 2027, Metropolitan shall invoice CVWD by June 1 each year as if Metropolitan had delivered 35,000 acre-feet during the prior year, and CVWD will pay Metropolitan within 60 days of receiving the invoice, the Cost of Supply Payment referred to in Section 2.7 for 35,000 acre-feet."

10. Section 2.13 of the Agreement shall be deleted in its entirety.

11. Section 2.14 of the Agreement shall be deleted in its entirety and replaced with the following:

"**Advance Delivery of Exchange Water.** In lieu of delivering the Exchange Water to the Whitewater Service Connections, Metropolitan may opt to deliver to CVWD its full allocation of Exchange Water from advance delivery water as provided for in the 1984 Advance Delivery Agreement (including any future amendments). In such case, such advance delivery water shall be deemed delivered to CVWD. It shall be CVWD's obligation to access such water. Metropolitan may not satisfy a delivery obligation to Imperial Dam by advance delivery water."

12. The final sentence of Section 2.15 of the Agreement shall be deleted.

13. New Section 2.18 is added to the Agreement as follows:

**"Exchange of Additional Water.** During 2020-2026, CVWD shall limit its annual call under the 1989 Approval Agreement, as amended in 2003, to 15,000 acre-feet. In return, Metropolitan shall deliver a total of 105,000 acre-feet to CVWD at the Whitewater Service Connections before the end of 2026. Metropolitan shall have discretion to determine how much of the 105,000 acre-feet Metropolitan delivers to CVWD each year. Unless the Parties agree otherwise, Metropolitan may not deliver the water during the months of January through June. CVWD shall pay Metropolitan for the water Metropolitan delivers to CVWD at the same price per acre-foot that CVWD pays Metropolitan for Entitlement Water under Section 2.7 of this Agreement. Metropolitan shall invoice CVWD, and CVWD shall pay Metropolitan, during the same fiscal year in which Metropolitan delivers the water to CVWD. In the event that any new limitations

become effective on the right or ability of Coachella to accept Colorado River from Metropolitan for spreading or storage, Metropolitan may upon written notice cancel this section of the Agreement."

14. New Section 3.1.1 is added to the Agreement as follows:

"**Post 2026 Period.** By the end of 2026, the Parties will meet to renegotiate delivery and payment terms for a period beginning in 2027. If the Parties are unable to agree on new terms, then the terms of the Agreement that existed before this Second Amendment was made shall apply."

15. Exhibit A of the Agreement ("Adjustment to Cost of Supply") shall be deleted in its entirety and replaced with the Exhibit A attached to this Second Amendment ("Adjustment to Costs of Supply").

16. Except as expressly provided above in Sections 1 through 15 above, all provisions of the Agreement shall remain in full force and effect. Notwithstanding the immediately preceding sentence, the Agreement shall be interpreted in a manner consistent with the intent of this Amendment.

IN WITNESS WHEREOF, the Parties have caused this Amendment to be executed by their duly authorized representatives on the date first above written.

**METROPOLITAN:**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, a public agency of the State of California

By: _____

Jeffrey Kightlinger
General Manager

APPROVED AS TO FORM

By: _____

Marcia Scully
General Counsel

**CVWD:**

COACHELLA VALLEY WATER DISTRICT, a public agency of the State of California

By: _____

J. M. Barrett
General Manager

ATTEST:

By: _____

Sylvia M. Bermudez
Clerk of the Board

## EXHIBIT A

**Adjustment to Costs of Supply**

| | Delivery at Imperial Dam (Cost of Supply, i.e., SWP) | Delivery at Whitewater Service Connection (Cost of SWP, CRA Power & O&M) |
|---|---|---|
| 2019 | $ 180.00 | $ 289.00 |
| 2020 | $ 186.00 | $ 298.00 |
| 2021 | $ 191.00 | $ 307.00 |
| 2022 | $ 197.00 | $ 316.00 |
| 2023 | $ 203.00 | $ 326.00 |
| 2024 | $ 209.00 | $ 336.00 |
| 2025 | $ 215.00 | $ 346.00 |
| 2026 | $ 222.00 | $ 356.00 |

G

# Appendix G: AWWA Water Loss Audits

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Coachella Valley Water District (CA3310001, CA1310011, & CA3310048)
**Reporting Year:** 2016 | 7/2015 - 6/2016

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

<---------- Enter grading in column 'E' and 'J' ----------> | Pcnt: | Value:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 27,821 | MG/Yr | 1 | | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |
| **WATER SUPPLIED:** | | **27,821.000** | MG/Yr | | | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 3 | 24,796.000 | MG/Yr | | | |
| Billed unmetered: | n/a | | MG/Yr | | | |
| Unbilled metered: | 5 | 2.583 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 69.553 | MG/Yr | | 69.553 | MG/Yr |
| **AUTHORIZED CONSUMPTION:** | | **24,868.136** | MG/Yr | | | |

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

**2,952.865** MG/Yr

**Apparent Losses**

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | 69.553 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 377.643 | MG/Yr | 1.50% | MG/Yr |
| Systematic data handling errors: | | 61.990 | MG/Yr | 0.25% | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** **509.186** MG/Yr

**Real Losses (Current Annual Real Losses or CARL)**

**Real Losses = Water Losses - Apparent Losses:** **2,443.679** MG/Yr

**WATER LOSSES:** **2,952.865** MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **3,025.000** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 5 | 2,106.0 | miles |
| Number of active AND inactive service connections: | 5 | 109,524 | |
| Service connection density: | | 52 | conn./mile main |
| Are customer meters typically located at the curbstop or property line? | | Yes | |
| 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: | 5 | 82.0 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $79,420,264 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.16 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 7 | $774.46 | $/Million gallons |

☐ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 55 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: Billed metered
3: Customer metering inaccuracies

# 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:** Coachella Valley Water District (CA3310001)
**Reporting Year:** 2017 7/2016 - 6/2017

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 9 | 29,524 | MG/Yr | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | MG/Yr |

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

**WATER SUPPLIED:** 29,524.153 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 7 | 26,052.210 | MG/Yr | | | |
| Billed unmetered: | n/a | | MG/Yr | | | |
| Unbilled metered: | 9 | 29.681 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 73.810 | MG/Yr | | 73.810 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 26,155.702 MG/Yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

3,368.451 MG/Yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 73.810 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 8 | 1,214.698 | MG/Yr | 4.45% | MG/Yr |
| Systematic data handling errors: | | 65.131 | MG/Yr | 0.25% | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 1,353.639 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 2,014.812 MG/Yr

**WATER LOSSES:** 3,368.451 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 3,471.943 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 6 | 1,710.6 | miles |
| Number of active AND inactive service connections: | 9 | 103,352 | |
| Service connection density: | | 60 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 5 83.0 psi

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $87,662,914 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.54 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 7 | $717.20 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 81 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: Billed metered
3: Unauthorized consumption

# 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:** Coachella Valley Water District (CA3310001)
**Reporting Year:** 2018 | 7/2017 - 6/2018

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 9 | 31,329 | MG/Yr | 1 | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | MG/Yr |
| **WATER SUPPLIED:** | | **31,329.400** | MG/Yr | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 9 | 27,918.710 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 9 | 86.930 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 78.324 | MG/Yr | | 78.324 | MG/Yr |
| **AUTHORIZED CONSUMPTION:** | | **28,083.964** | MG/Yr | | | |

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

**3,245.437** MG/Yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 78.324 MG/Yr | 0.25% | | MG/Yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 8 | 1,943.713 | MG/Yr | 6.49% | MG/Yr |
| Systematic data handling errors: | | 69.797 | MG/Yr | 0.25% | MG/Yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **2,091.833** MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **1,153.603** MG/Yr

**WATER LOSSES:** **3,245.437** MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **3,410.690** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 6 | 1,715.5 | miles |
| Number of active AND inactive service connections: | 9 | 104,053 | |
| Service connection density: | | 61 | conn./mile main |
| Are customer meters typically located at the curbstop or property line? | | Yes | |
| 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: | 5 | 83.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $94,697,612 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.60 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 7 | $752.77 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 83 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

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
\+ Click to add a comment

**Water Audit Report for:** Coachella Valley Water District (CA3310001)
**Reporting Year:** 2019 7/2018 - 6/2019

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

<---------- Enter grading in column 'E' and 'J' ----------> Pcnt: Value:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 9 | 30,083.503 | MG/Yr | 1 | | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |
| **WATER SUPPLIED:** | | **30,083.503** | MG/Yr | | | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

Pcnt: Value:

| | | | | | | |
|---|---|---|---|---|---|---|
| Billed metered: | 9 | 26,282.950 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 9 | 158.700 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 75.209 | MG/Yr | | 75.209 | MG/Yr |
| **AUTHORIZED CONSUMPTION:** | | **26,516.859** | MG/Yr | | | |

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

**3,566.644** MG/Yr

#### Apparent Losses

Pcnt: Value:

| | | | | | |
|---|---|---|---|---|---|
| Unauthorized consumption: | 75.209 | MG/Yr | 0.25% | | MG/Yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 7 | 1,657.872 | MG/Yr | 5.90% | MG/Yr |
| Systematic data handling errors: | 5 | 65.707 | MG/Yr | 0.25% | MG/Yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **1,798.788** MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **1,767.856** MG/Yr

**WATER LOSSES:** **3,566.644** MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **3,800.553** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 6 | 1,724.0 | miles |
| Number of active AND inactive service connections: | 9 | 104,738 | |
| Service connection density: | | 61 | conn./mile main |
| Are customer meters typically located at the curbstop or property line? | | Yes | |
| 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: | 5 | 84.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $105,096,574 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.57 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 7 | $691.55 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 82 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

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
\+ Click to add a comment

**Water Audit Report for:** Coachella Valley Water District Cove (CA3310001)
**Reporting Year:** 2020 | 7/2019 - 6/2020

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 9 | 29,803.000 | MG/Yr | | 11.850 | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | MG/Yr |

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

**WATER SUPPLIED:** 29,791.150 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 9 | 26,039.750 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 10 | 228.480 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 74.478 | MG/Yr | | 74.478 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 26,342.708 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 3,448.442 MG/Yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 74.478 | MG/Yr | 0.25% | | MG/Yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 9 | 1,356.368 | MG/Yr | 4.91% | | MG/Yr |
| Systematic data handling errors: | 5 | 65.099 | MG/Yr | 0.25% | | MG/Yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** 1,495.945 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 1,952.497 MG/Yr

**WATER LOSSES:** 3,448.442 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 3,751.400 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 9 | 1,657.4 | miles |
| Number of active AND inactive service connections: | 9 | 105,612 | |
| Service connection density: | | 64 | conn./mile main |
| Are customer meters typically located at the curbstop or property line? | | Yes | |
| 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: | 5 | 84.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $107,086,412 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 10 | $1.67 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 7 | $718.28 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 86 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

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Coachella Valley Water District ID08 (CA3310048)
**Reporting Year:** 2020 7/2019 - 6/2020

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 9 | 886.380 | MG/Yr | 3 | | 0.094 | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |

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

**WATER SUPPLIED:** 886.286 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 9 | 766.190 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 10 | 9.530 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 2.216 | MG/Yr | | 2.216 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 777.936 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 108.350 MG/Yr

**Apparent Losses**

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 2.216 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 9 | 85.043 | MG/Yr | 9.88% | | MG/Yr |
| Systematic data handling errors: | 5 | 1.915 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 89.175 MG/Yr

**Real Losses (Current Annual Real Losses or CARL)**

**Real Losses = Water Losses - Apparent Losses:** 19.176 MG/Yr

**WATER LOSSES:** 108.350 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 120.096 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 9 | 116.4 | miles |
| Number of active AND inactive service connections: | 9 | 1,698 | |
| Service connection density: | | 15 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 88.5 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $4,926,393 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 10 | $1.37 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 7 | $704.40 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 86 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

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Coachella Valley Water District ID11 (CA1310011)
**Reporting Year:** 2020 7/2019 - 6/2020

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 9 | 403.560 | MG/Yr | | 0.078 | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | MG/Yr |
| **WATER SUPPLIED:** | | **403.482** | MG/Yr | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 9 | 316.870 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 10 | 7.690 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 1.009 | MG/Yr | | 1.009 | MG/Yr |
| **AUTHORIZED CONSUMPTION:** | | **325.569** | MG/Yr | | | |

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

**77.913** MG/Yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | 1.009 | MG/Yr | 0.25% | | MG/Yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 9 | 11.145 | MG/Yr | 3.32% | MG/Yr |
| Systematic data handling errors: | 5 | 0.792 | MG/Yr | 0.25% | MG/Yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **12.946** MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **64.967** MG/Yr

**WATER LOSSES:** **77.913** MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **86.612** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 9 | 351.5 | miles |
| Number of active AND inactive service connections: | 9 | 2,985 | |
| Service connection density: | | 8 | conn./mile main |
| Are customer meters typically located at the curbstop or property line? | | Yes | |
| 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: | 5 | 74.5 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $3,241,740 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 10 | $1.34 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 7 | $663.06 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 86 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

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** TKE Engineering, Inc. for Coachella Water Authority
**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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 8 | 2,127.780 | MG/Yr | 4 | 0.00% | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |

Pcnt: Value:

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

**WATER SUPPLIED:** 2,127.780 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 8 | 1,925.960 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled unmetered: | | 26.597 | MG/Yr | 1.25% | | MG/Yr |

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

**AUTHORIZED CONSUMPTION:** 1,952.557 MG/Yr

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

175.223 MG/Yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 5.319 | MG/Yr | 0.25% | | MG/Yr |
| Customer metering inaccuracies: | 3 | 0.000 | MG/Yr | | | MG/Yr |
| Systematic data handling errors: | | 4.815 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 10.134 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 165.088 MG/Yr

**WATER LOSSES:** 175.223 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 201.820 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 3 | 119.6 | miles |
| Number of active AND inactive service connections: | 3 | 8,037 | |
| Service connection density: | | 67 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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 | 75.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 2 | $5,000,000 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.50 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 9 | | $/Million gallons | ☑ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 67 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: Total annual cost of operating water system
3: Customer metering inaccuracies

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0


? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Coachella Water Authority
**Reporting Year:** 2016 | 1/2016 - 12/2016

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 2,031.790 | MG/Yr | 4 | 0.00% | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |

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

**WATER SUPPLIED:** 2,031.790 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 5 | 1,993.120 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 5.079 | MG/Yr | | 5.079 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 1,998.199 MG/Yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

33.591 MG/Yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 5.079 | MG/Yr | 0.25% | | MG/Yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 10.016 | MG/Yr | 0.50% | MG/Yr |
| Systematic data handling errors: | | 4.983 | MG/Yr | 0.25% | MG/Yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** 20.078 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 13.513 MG/Yr

**WATER LOSSES:** 33.591 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 38.670 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 6 | 119.6 | miles |
| Number of active AND inactive service connections: | 6 | 8,126 | |
| Service connection density: | | 68 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 75.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $5,960,000 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 5 | $1.50 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 1 | $300.00 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 50 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: Variable production cost (applied to Real Losses)
3: Customer metering inaccuracies

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Coachella Water Authority (3310007)
**Reporting Year:** 2017 1/2017 - 12/2017

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 8 | 2,221.260 | MG/Yr | 4 | | | MG/Yr |
| Water imported: | | 0.000 | MG/Yr | | | | MG/Yr |
| Water exported: | | 0.000 | MG/Yr | | | | MG/Yr |

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

**WATER SUPPLIED:** 2,221.260 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 8 | 1,963.970 | MG/Yr | | | |
| Billed unmetered: | | 0.000 | MG/Yr | | | |
| Unbilled metered: | | 0.000 | MG/Yr | | | |
| Unbilled unmetered: | | 27.766 | MG/Yr | 1.25% | | MG/Yr |

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

**AUTHORIZED CONSUMPTION:** 1,991.736 MG/Yr

Use buttons to select percentage of water supplied **OR** value

**WATER LOSSES (Water Supplied - Authorized Consumption)** 229.524 MG/Yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 5.553 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 0.000 | MG/Yr | | MG/Yr |
| Systematic data handling errors: | | 4.910 | MG/Yr | 0.25% | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 10.463 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 219.061 MG/Yr

**WATER LOSSES:** 229.524 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 257.290 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 6 | 119.6 | miles |
| Number of active AND inactive service connections: | 6 | 8,344 | |
| Service connection density: | | 70 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 75.0 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 7 | $6,650,000 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 6 | $1.65 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 6 | | $/Million gallons |

☑ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 69 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: Customer metering inaccuracies
3: Customer retail unit cost (applied to Apparent Losses)

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Coachella Water Authority (3310007)
**Reporting Year:** 2018 1/2018 - 12/2018

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 2,324.669 | MG/Yr | 3 | | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |

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

**WATER SUPPLIED:** 2,324.669 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 5 | 2,240.846 MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 MG/Yr | | | |
| Unbilled metered: | n/a | 0.000 MG/Yr | | | |
| Unbilled unmetered: | 5 | 5.812 MG/Yr | | 5.812 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 2,246.657 MG/Yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

78.012 MG/Yr

**Apparent Losses**

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 5.812 MG/Yr | 0.25% | | MG/Yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 11.261 MG/Yr | 0.50% | | MG/Yr |
| Systematic data handling errors: | | 5.602 MG/Yr | 0.25% | | MG/Yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** 22.674 MG/Yr

**Real Losses (Current Annual Real Losses or CARL)**

**Real Losses = Water Losses - Apparent Losses:** 55.337 MG/Yr

**WATER LOSSES:** 78.012 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 83.823 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 6 | 119.6 | miles |
| Number of active AND inactive service connections: | 8 | 8,487 | |
| Service connection density: | | 71 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 5 75.0 psi

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $6,883,678 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 5 | $1.65 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 5 | $409.46 | $/Million gallons |

☐ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 54 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: Customer metering inaccuracies
3: Billed metered

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0
American Water Works Association.

Click to access
Click to add a comment

**Water Audit Report for:** Coachella Water Authority (CA3310007)
**Reporting Year:** 2019 | 1/2019 - 12/2019

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

**All volumes to be entered as: MILLION GALLONS (US) 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.

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

### WATER SUPPLIED

| | | | | | Master Meter and Supply Error Adjustments | | |
|---|---|---|---|---|---|---|---|
| | | | | | Pcnt: | Value: | |
| Volume from own sources: | 5 | 2,216.370 | MG/Yr | 3 | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |

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

**WATER SUPPLIED:** 2,216.370 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: for help using option

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 5 | 2,127.930 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 5.541 | MG/Yr | | 5.541 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 2,133.471 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 82.899 MG/Yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 5.541 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 10.693 | MG/Yr | 0.50% | | MG/Yr |
| Systematic data handling errors: | 5 | 5.320 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 21.554 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 61.345 MG/Yr

**WATER LOSSES:** 82.899 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 88.440 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 9 | 119.6 | miles |
| Number of active AND inactive service connections: | 8 | 8,235 | |
| Service connection density: | | 69 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 5 | 55.0 psi

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $6,936,815 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 5 | $1.65 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 5 | $409.46 | $/Million gallons ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 54 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: Customer metering inaccuracies
3: Billed metered

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Desert Water Agency (3310005)
**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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 9 | 29,731.000 | acre-ft/yr | | | | acre-ft/yr |
| Water imported: | n/a | | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | | acre-ft/yr | | | | acre-ft/yr |
| **WATER SUPPLIED:** | | **29,731.000** | acre-ft/yr | | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 9 | 26,796.000 | acre-ft/yr | | | |
| Billed unmetered: | n/a | | acre-ft/yr | | | |
| Unbilled metered: | 9 | 172.000 | acre-ft/yr | | | |
| Unbilled unmetered: | | 371.638 | acre-ft/yr | 1.25% | | acre-ft/yr |
| **AUTHORIZED CONSUMPTION:** | | **27,339.638** | acre-ft/yr | | | |

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

**2,391.363** acre-ft/yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 74.328 | acre-ft/yr | 0.25% | | acre-ft/yr |
| Customer metering inaccuracies: | 7 | 1,419.368 | acre-ft/yr | 5.00% | | acre-ft/yr |
| Systematic data handling errors: | | 66.990 | acre-ft/yr | 0.25% | | acre-ft/yr |
| **Apparent Losses:** | | **1,560.686** | acre-ft/yr | | | |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

#### Real Losses (Current Annual Real Losses or CARL)

Use Customer Retail Unit Cost to

| | | | |
|---|---|---|---|
| **Real Losses = Water Losses - Apparent Losses:** | | **830.677** | acre-ft/yr |
| **WATER LOSSES:** | | **2,391.363** | acre-ft/yr |

### NON-REVENUE WATER

**NON-REVENUE WATER:** **2,935.000** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 9 | 392.0 | miles |
| Number of active AND inactive service connections: | 9 | 22,073 | |
| Service connection density: | | 56 | conn./mile main |
| Are customer meters typically located at the curbstop or property line? | | Yes | |
| 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: | 8 | 80.0 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 9 | $25,084,704 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.50 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 9 | $814.57 | $/acre-ft |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 84 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

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Desert Water Agency (3310005)
**Reporting Year:** 2016 (1/2016 - 12/2016)

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 in 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 29,931.033 | acre-ft/yr | 3 | | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 29,931.033 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 6 | 27,386.910 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 3 | 186.030 | acre-ft/yr | | | |
| Unbilled unmetered: | 5 | 74.828 | acre-ft/yr | | 74.828 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 27,647.768 acre-ft/yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

2,283.265 acre-ft/yr

**Apparent Losses**

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 74.828 | acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 4 | 278.515 | acre-ft/yr | 1.00% | acre-ft/yr |
| Systematic data handling errors: | | 68.467 | acre-ft/yr | 0.25% | acre-ft/yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 421.809 acre-ft/yr

**Real Losses (Current Annual Real Losses or CARL)**

Use Customer Retail Unit Cost to

**Real Losses = Water Losses - Apparent Losses:** 1,861.456 acre-ft/yr

**WATER LOSSES:** 2,283.265 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 2,544.123 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 7 | 411.9 | miles |
| Number of active AND inactive service connections: | 6 | 22,073 | |
| Service connection density: | | 54 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 2 | 80.0 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $25,558,688 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.58 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 7 | $216.92 | $/acre-ft |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 58 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: Unbilled metered
3: Customer metering inaccuracies

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Desert Water Agency (3310005)
**Reporting Year:** 2017 1/2017 - 12/2017

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 in 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 32,712.023 | acre-ft/yr | 3 | -0.54% | | | acre-ft/yr |
| Water imported: | n/a | | acre-ft/yr | | | | | acre-ft/yr |
| Water exported: | n/a | | acre-ft/yr | | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 32,888.635 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 6 | 28,931.285 | acre-ft/yr | | | |
| Billed unmetered: | n/a | | acre-ft/yr | | | |
| Unbilled metered: | 3 | 343.128 | acre-ft/yr | | | |
| Unbilled unmetered: | 8 | 110.902 | acre-ft/yr | | 110.902 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 29,385.315 acre-ft/yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 3,503.320 acre-ft/yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 82.222 | acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 4 | 295.701 | acre-ft/yr | 1.00% | acre-ft/yr |
| Systematic data handling errors: | | 72.328 | acre-ft/yr | 0.25% | acre-ft/yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 450.251 acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

Use Customer Retail Unit Cost to

**Real Losses = Water Losses - Apparent Losses:** 3,053.069 acre-ft/yr

**WATER LOSSES:** 3,503.320 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 3,957.350 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 7 | 414.1 | miles |
| Number of active AND inactive service connections: | 6 | 25,807 | |
| Service connection density: | | 62 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 3 80.0 psi

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $25,428,532 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.67 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 7 | $235.19 | $/acre-ft |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 58 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: Unbilled metered
3: Customer metering inaccuracies

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Desert Water Agency (3310005)
**Reporting Year:** 2018 (1/2018 - 12/2018)

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 in 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 33,141.858 | acre-ft/yr | 3 | -0.34% | | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 33,253.590 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 7 | 30,042.202 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 3 | 437.579 | acre-ft/yr | | | |
| Unbilled unmetered: | 10 | 57.393 | acre-ft/yr | | 57.393 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 30,537.174 acre-ft/yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

2,716.416 acre-ft/yr

**Apparent Losses**

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | 83.134 | acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 4 | 307.877 | acre-ft/yr | 1.00% | acre-ft/yr |
| Systematic data handling errors: | | 75.106 | acre-ft/yr | 0.25% | acre-ft/yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 466.116 acre-ft/yr

**Real Losses (Current Annual Real Losses or CARL)**

Use Customer Retail Unit Cost to

**Real Losses = Water Losses - Apparent Losses:** 2,250.300 acre-ft/yr

**WATER LOSSES:** 2,716.416 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 3,211.388 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 7 | 423.9 | miles |
| Number of active AND inactive service connections: | 7 | 25,527 | |
| Service connection density: | | 60 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 79.1 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $27,935,986 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.83 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 7 | $255.62 | $/acre-ft |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 60 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: Unbilled metered
3: Customer metering inaccuracies

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Desert Water Agency (3310005)
**Reporting Year:** 2019 1/2019 - 12/2019

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 in 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.

Master Meter and Supply Error Adjustments

## WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 29,545.666 | acre-ft/yr | 3 | 1.43% | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 29,128.258 acre-ft/yr

## AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 7 | 28,112.120 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 3 | 368.224 | acre-ft/yr | | | |
| Unbilled unmetered: | 10 | 71.237 | acre-ft/yr | | 71.237 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 28,551.581 acre-ft/yr

## WATER LOSSES (Water Supplied - Authorized Consumption)

576.677 acre-ft/yr

### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 72.821 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 7 | 229.680 | acre-ft/yr | 0.80% | | acre-ft/yr |
| Systematic data handling errors: | | 70.280 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** 372.781 acre-ft/yr

### Real Losses (Current Annual Real Losses or CARL)

☑ Use Customer Retail Unit Cost to

**Real Losses = Water Losses - Apparent Losses:** 203.896 acre-ft/yr

**WATER LOSSES:** 576.677 acre-ft/yr

## NON-REVENUE WATER

**NON-REVENUE WATER:** 1,016.138 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

## SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 7 | 424.7 | miles |
| Number of active AND inactive service connections: | 7 | 25,508 | |
| Service connection density: | | 60 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 79.7 | psi |

## COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $27,896,593 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.02 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 7 | $280.56 | $/acre-ft |

## WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 62 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: Unbilled metered
3: Billed metered

# AWWA WLCC Free Water Audit Software: Reporting Worksheet



WAS v4.2

Back to Instructions

? Click to access definition

**Water Audit Report for:** Indio Water Authority
**Reporting Year:** 2011 (7/2010 - 6/2011)

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

**All volumes to be entered as: MILLION GALLONS (US) PER YEAR**

## WATER SUPPLIED

<< Enter grading in column 'E'

| | | | | | |
|---|---|---|---|---|---|
| Volume from own sources: | ? | 7 | 7,308.910 | Million gallons (US)/yr (MG/Yr) | |
| Master meter error adjustment (enter positive value): | ? | 7 | 118.844 | under-registered | MG/Yr |
| Water imported: | ? | n/a | | | MG/Yr |
| Water exported: | ? | n/a | | | MG/Yr |
| **WATER SUPPLIED:** | | | 7,427.754 | | MG/Yr |

## AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | | Pcnt: | Value: |
|---|---|---|---|---|---|---|
| Billed metered: | ? | 7 | 6,779.170 | MG/Yr | | |
| Billed unmetered: | ? | n/a | | MG/Yr | | |
| Unbilled metered: | ? | n/a | | MG/Yr | | |
| Unbilled unmetered: | ? | | 92.847 | MG/Yr | 1.25% | |

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

Use buttons to select percentage of water supplied **OR** value

| | | | | |
|---|---|---|---|---|
| **AUTHORIZED CONSUMPTION:** | ? | | 6,872.017 | MG/Yr |

## WATER LOSSES (Water Supplied - Authorized Consumption)

555.737 MG/Yr

### Apparent Losses

| | | | | | Pcnt: | Value: |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | ? | | 18.569 | MG/Yr | 0.25% | |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | ? | 7 | 138.350 | MG/Yr | 2.00% | |
| Systematic data handling errors: | ? | 7 | 36.000 | MG/Yr | | |
| Apparent Losses: | ? | | 192.920 | | | |

? Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

### Real Losses (Current Annual Real Losses or CARL)

| | | | | |
|---|---|---|---|---|
| Real Losses = Water Losses - Apparent Losses: | ? | | 362.817 | MG/Yr |
| **WATER LOSSES:** | | | 555.737 | MG/Yr |

## NON-REVENUE WATER

| | | | | |
|---|---|---|---|---|
| **NON-REVENUE WATER:** | ? | | 648.584 | MG/Yr |

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

## SYSTEM DATA

| | | | | | |
|---|---|---|---|---|---|
| Length of mains: | ? | 9 | 325.7 | miles | |
| Number of active AND inactive service connections: | ? | 9 | 21,084 | | |
| Connection density: | | | 65 | conn./mile main | |
| Average length of customer service line: | ? | 9 | 20.0 | ft | (pipe length between curbstop and customer meter or property boundary) |
| Average operating pressure: | ? | 8 | 70.0 | psi | |

## COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | ? | 8 | $12,234,251 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | ? | 8 | $1.17 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | ? | 8 | $442.97 | $/Million gallons |

## PERFORMANCE INDICATORS

### Financial Indicators

| | |
|---|---|
| Non-revenue water as percent by volume of Water Supplied: | 8.7% |
| Non-revenue water as percent by cost of operating system: | 4.1% |
| Annual cost of Apparent Losses: | $301,739 |
| Annual cost of Real Losses: | $160,717 |

### Operational Efficiency Indicators

| | | |
|---|---|---|
| Apparent Losses per service connection per day: | 25.07 | gallons/connection/day |
| Real Losses per service connection per day*: | 47.15 | gallons/connection/day |
| Real Losses per length of main per day*: | N/A | |
| Real Losses per service connection per day per psi pressure: | 0.67 | gallons/connection/day/psi |
| ? Unavoidable Annual Real Losses (UARL): | 141.13 | million gallons/year |
| From Above, Real Losses = Current Annual Real Losses (CARL): | 362.82 | million gallons/year |
| ? Infrastructure Leakage Index (ILI) [CARL/UARL]: | 2.57 | |

* only the most applicable of these two indicators will be calculated

## WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 72 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: Master meter error adjustment
3: Billed metered

For more information, click here to see the Grading Matrix worksheet

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** City of Indio/Indio Water Authority (3310020)
**Reporting Year:** 2017 | 7/2016 - 6/2017

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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 17,614.600 | acre-ft/yr | 3 | | -90.400 | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 17,705.000 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 8 | 16,529.430 | acre-ft/yr | | | |
| Billed unmetered: | 10 | 3.200 | acre-ft/yr | | | |
| Unbilled metered: | 10 | 132.700 | acre-ft/yr | | | |
| Unbilled unmetered: | 5 | 44.263 | acre-ft/yr | | 44.263 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 16,709.593 acre-ft/yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

**995.407** acre-ft/yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 44.263 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 4 | 168.304 | acre-ft/yr | 1.00% | acre-ft/yr |
| Systematic data handling errors: | | 41.324 | acre-ft/yr | 0.25% | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** 253.890 acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 741.517 acre-ft/yr

**WATER LOSSES:** 995.407 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 1,172.370 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 10 | 344.0 | miles |
| Number of active AND inactive service connections: | 9 | 22,878 | |
| Service connection density: | | 67 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 72.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $26,423,911 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.41 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 8 | $163.65 | $/acre-ft | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 76 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: Customer metering inaccuracies
3: Unauthorized consumption

# 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 Indio/Indio Water Authority (3310020)
**Reporting Year:** 2017-2018 | 7/2017 - 6/2018

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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | Grading | Volume | | Grading | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 19,228.000 | acre-ft/yr | 5 | | -95.404 | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 19,323.404 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | Grading | Volume | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 8 | 18,252.000 | acre-ft/yr | | | |
| Billed unmetered: | 7 | 1.072 | acre-ft/yr | | | |
| Unbilled metered: | 8 | 17.584 | acre-ft/yr | | | |
| Unbilled unmetered: | 5 | 48.309 | acre-ft/yr | | 48.309 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** ? 18,318.965 acre-ft/yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

**1,004.439** acre-ft/yr

#### Apparent Losses

| | Grading | Volume | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 48.309 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | Grading | Volume | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 184.541 | acre-ft/yr | 1.00% | | acre-ft/yr |
| Systematic data handling errors: | | 45.630 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** ? 278.480 acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** ? 725.960 acre-ft/yr

**WATER LOSSES:** 1,004.439 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** ? 1,070.332 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | Grading | | |
|---|---|---|---|
| Length of mains: | 10 | 344.0 | miles |
| Number of active AND inactive service connections: | 9 | 23,135 | |
| Service connection density: | | 67 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 5 71.0 psi

### COST DATA

| | Grading | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $28,280,336 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.42 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 8 | $163.65 | $/acre-ft |

☑ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 74 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: Customer metering inaccuracies
3: Unauthorized consumption

# 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 Indio/Indio Water Authority (3310020)
**Reporting Year:** 2018 - 2019 | 7/2018 - 6/2019

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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Volume from own sources: | 7 | 19,074.900 acre-ft/yr | -0.50% | | acre-ft/yr |
| Water imported: | n/a | 0.000 acre-ft/yr | | | acre-ft/yr |
| Water exported: | n/a | 0.000 acre-ft/yr | | | acre-ft/yr |

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

**WATER SUPPLIED:** 19,170.754 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 8 | 17,789.490 acre-ft/yr | | | |
| Billed unmetered: | 7 | 3.180 acre-ft/yr | | | |
| Unbilled metered: | 8 | 153.980 acre-ft/yr | | | |
| Unbilled unmetered: | 5 | 47.927 acre-ft/yr | | 47.927 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** ? 17,994.577 acre-ft/yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

1,176.177 acre-ft/yr

**Apparent Losses**

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 47.927 acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 181.247 acre-ft/yr | 1.00% | | acre-ft/yr |
| Systematic data handling errors: | | 44.474 acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** ? 273.648 acre-ft/yr

**Real Losses (Current Annual Real Losses or CARL)**

**Real Losses = Water Losses - Apparent Losses:** ? 902.529 acre-ft/yr

**WATER LOSSES:** 1,176.177 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** ? 1,378.084 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 10 | 346.1 | miles |
| Number of active AND inactive service connections: | 9 | 23,377 | |
| Service connection density: | | 68 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 71.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $22,841,733 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.45 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 8 | $198.93 | $/acre-ft | ☑ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 74 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: Customer metering inaccuracies
3: Unauthorized consumption

# AWWA Free Water Audit Software:
## Reporting Worksheet



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** City of Indio/Indio Water Authority (CA3310020)
**Reporting Year:** 2020 | 7/2019 - 6/2020

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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 8 | 19,422.100 | acre-ft/yr | -0.30% | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| **WATER SUPPLIED:** | | **19,480.542** | acre-ft/yr | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 9 | 17,806.000 | acre-ft/yr | | | |
| Billed unmetered: | 8 | 3.260 | acre-ft/yr | | | |
| Unbilled metered: | 10 | 275.500 | acre-ft/yr | | | |
| Unbilled unmetered: | 5 | 48.701 | acre-ft/yr | | 48.701 | acre-ft/yr |
| **AUTHORIZED CONSUMPTION:** | | **18,133.461** | acre-ft/yr | | | |

Use buttons to select percentage of water supplied **OR** value

**WATER LOSSES (Water Supplied - Authorized Consumption)** **1,347.080** acre-ft/yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 48.701 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 4 | 275.353 | acre-ft/yr | 1.50% | acre-ft/yr |
| Systematic data handling errors: | | 44.515 | acre-ft/yr | 0.25% | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **368.569** acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **978.511** acre-ft/yr

**WATER LOSSES:** **1,347.080** acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **1,671.282** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 10 | 344.0 | miles |
| Number of active AND inactive service connections: | 10 | 24,194 | |
| Service connection density: | | 70 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 8 | 69.0 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $21,828,275 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.41 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 7 | $163.65 | $/acre-ft |

☐ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 78 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: Customer metering inaccuracies
3: Unauthorized consumption

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Mission Springs Water District
**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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 8 | 7,252.000 | acre-ft/yr | 8 | | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 7,252.000 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 8 | 6,506.000 | acre-ft/yr | | | |
| Billed unmetered: | 8 | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 8 | 0.000 | acre-ft/yr | | | |
| Unbilled unmetered: | 7 | 90.650 | acre-ft/yr | 1.25% | | acre-ft/yr |

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

**AUTHORIZED CONSUMPTION:** 6,596.650 acre-ft/yr

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

655.350 acre-ft/yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 18.130 | acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 8 | 0.000 | acre-ft/yr | | | acre-ft/yr |
| Systematic data handling errors: | 8 | 16.265 | acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 34.395 acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 620.955 acre-ft/yr

**WATER LOSSES:** 655.350 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 746.000 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 8 | 240.0 | miles |
| Number of active AND inactive service connections: | 7 | 12,967 | |
| Service connection density: | | 54 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 7 | 65.0 psi

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 8 | $8,792,437 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 8 | $2.97 | $/1000 gallons (US) |
| Variable production cost (applied to Real Losses): | 8 | $432.00 | $/acre-ft |

☐ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 76 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

# 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:** Mission Springs Water District (3310008)
**Reporting Year:** 2016 1/2016 - 12/2016

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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 7,222.900 | acre-ft/yr | 3 | | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 7,222.900 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 5 | 6,503.000 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 8 | 0.974 | acre-ft/yr | | | |
| Unbilled unmetered: | 7 | 2.090 | acre-ft/yr | | 2.090 | acre-ft/yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** ? 6,506.064 acre-ft/yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 716.836 acre-ft/yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 18.057 | acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 5 | 65.697 | acre-ft/yr | 1.00% | | acre-ft/yr |
| Systematic data handling errors: | | 16.258 | acre-ft/yr | 0.25% | | acre-ft/yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** ? 100.011 acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** ? 616.825 acre-ft/yr

**WATER LOSSES:** 716.836 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** ? 719.900 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 8 | 390.0 | miles |
| Number of active AND inactive service connections: | 7 | 13,098 | |
| Service connection density: | | 34 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 7 | 65.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $9,334,124 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 8 | $2.97 | $/1000 gallons (US) | |
| Variable production cost (applied to Real Losses): | 5 | $432.00 | $/acre-ft | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 67 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: Billed metered
3: Customer metering inaccuracies

# 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:** Mission Springs Water District (3310008)
**Reporting Year:** 2017 1/2017 - 12/2017

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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 7,811.740 | acre-ft/yr | 4 | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| **WATER SUPPLIED:** | | **7,811.740** | acre-ft/yr | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 7 | 6,912.000 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 8 | 0.629 | acre-ft/yr | | | |
| Unbilled unmetered: | 8 | 1.464 | acre-ft/yr | | 1.464 | acre-ft/yr |
| **AUTHORIZED CONSUMPTION:** | | **6,914.093** | acre-ft/yr | | | |

Use buttons to select percentage of water supplied **OR** value

**WATER LOSSES (Water Supplied - Authorized Consumption)** **897.647** acre-ft/yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 19.529 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 69.825 | acre-ft/yr | 1.00% | | acre-ft/yr |
| Systematic data handling errors: | | 17.280 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **106.634** acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **791.013** acre-ft/yr

**WATER LOSSES:** **897.647** acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **899.740** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 8 | 390.0 | miles |
| Number of active AND inactive service connections: | 7 | 13,101 | |
| Service connection density: | | 34 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 7 65.0 psi

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $9,927,696 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 8 | $2.97 | $/1000 gallons (US) | |
| Variable production cost (applied to Real Losses): | 6 | $432.00 | $/acre-ft | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 71 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: Billed metered
3: Customer metering inaccuracies

# 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:** Mission Springs Water District (3310008)
**Reporting Year:** 2018 1/2018 - 12/2018

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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 7,875.220 | acre-ft/yr | 3 | 1.25% | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| **WATER SUPPLIED:** | | **7,777.995** | acre-ft/yr | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 7 | 6,950.165 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 9 | 0.962 | acre-ft/yr | | | |
| Unbilled unmetered: | 8 | 3.391 | acre-ft/yr | | 3.391 | acre-ft/yr |
| **AUTHORIZED CONSUMPTION:** | | **6,954.518** | acre-ft/yr | | | |

Use buttons to select percentage of water supplied **OR** value

**WATER LOSSES (Water Supplied - Authorized Consumption)** **823.477** acre-ft/yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 19.445 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 70.213 | acre-ft/yr | 1.00% | | acre-ft/yr |
| Systematic data handling errors: | | 17.375 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **107.034** acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **716.443** acre-ft/yr

**WATER LOSSES:** **823.477** acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **827.830** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 8 | 282.4 | miles |
| Number of active AND inactive service connections: | 8 | 13,215 | |
| Service connection density: | | 47 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 7 | 65.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $10,264,350 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.38 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 8 | $600.87 | $/acre-ft | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 74 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: Billed metered
3: Customer metering inaccuracies

# 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:** Mission Springs Water District (3310008)
**Reporting Year:** 2019 (1/2019 - 12/2019)

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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 7,539.140 | acre-ft/yr | 3 | 1.00% | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | acre-ft/yr |
| **WATER SUPPLIED:** | | **7,464.495** | acre-ft/yr | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 7 | 6,466.254 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 9 | 21.800 | acre-ft/yr | | | |
| Unbilled unmetered: | 8 | 3.198 | acre-ft/yr | | 3.198 | acre-ft/yr |
| **AUTHORIZED CONSUMPTION:** | | **6,491.252** | acre-ft/yr | | | |

Use buttons to select percentage of water supplied **OR** value

**WATER LOSSES (Water Supplied - Authorized Consumption)** **973.243** acre-ft/yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 18.661 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 65.536 | acre-ft/yr | 1.00% | | acre-ft/yr |
| Systematic data handling errors: | | 16.166 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **100.363** acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **872.880** acre-ft/yr

**WATER LOSSES:** **973.243** acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **998.241** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 8 | 303.4 | miles |
| Number of active AND inactive service connections: | 8 | 12,783 | |
| Service connection density: | | 42 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 7 | 65.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $10,726,421 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.87 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 8 | $590.64 | $/acre-ft | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 74 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: Billed metered
3: Customer metering inaccuracies

# 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:** Mission Springs Water District (3310081)
**Reporting Year:** 2019 1/2019 - 12/2019

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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 63.620 | acre-ft/yr | 3 | 1.00% | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| **WATER SUPPLIED:** | | **62.990** | acre-ft/yr | | | | |

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

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 7 | 49.150 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 9 | 0.120 | acre-ft/yr | | | |
| Unbilled unmetered: | 8 | 0.044 | acre-ft/yr | | 0.044 | acre-ft/yr |
| **AUTHORIZED CONSUMPTION:** | | **49.314** | acre-ft/yr | | | |

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

**13.676** acre-ft/yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 0.157 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 0.498 | acre-ft/yr | 1.00% | | acre-ft/yr |
| Systematic data handling errors: | | 0.123 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** **0.778** acre-ft/yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** **12.898** acre-ft/yr

**WATER LOSSES:** **13.676** acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **13.840** acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 8 | 7.3 | miles |
| Number of active AND inactive service connections: | 8 | 174 | |
| Service connection density: | | 24 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 7 | 60.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $158,036 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.87 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 8 | $1,638.27 | $/acre-ft | ☐ Use Customer Retail Unit Cost to value real losses |

Retail costs are less than (or equal to) production costs; please review and correct if necessary

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 74 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: Billed metered
3: Customer metering inaccuracies

# 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:** Mission Springs Water District (3310078)
**Reporting Year:** 2019 1/2019 - 12/2019

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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 7 | 89.660 | acre-ft/yr | 3 | 1.00% | | acre-ft/yr |
| Water imported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |
| Water exported: | n/a | 0.000 | acre-ft/yr | | | | acre-ft/yr |

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

**WATER SUPPLIED:** 88.772 acre-ft/yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 7 | 73.530 | acre-ft/yr | | | |
| Billed unmetered: | n/a | 0.000 | acre-ft/yr | | | |
| Unbilled metered: | 9 | 0.059 | acre-ft/yr | | | |
| Unbilled unmetered: | 8 | 0.064 | acre-ft/yr | | 0.064 | acre-ft/yr |

Use buttons to select percentage of water supplied OR value

**AUTHORIZED CONSUMPTION:** 73.653 acre-ft/yr

### WATER LOSSES (Water Supplied - Authorized Consumption)

15.119 acre-ft/yr

**Apparent Losses**

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | 0.222 | acre-ft/yr | 0.25% | | acre-ft/yr |

**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 6 | 0.743 | acre-ft/yr | 1.00% | acre-ft/yr |
| Systematic data handling errors: | | 0.184 | acre-ft/yr | 0.25% | acre-ft/yr |

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** 1.149 acre-ft/yr

**Real Losses (Current Annual Real Losses or CARL)**

**Real Losses = Water Losses - Apparent Losses:** 13.970 acre-ft/yr

**WATER LOSSES:** 15.119 acre-ft/yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 15.242 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 8 | 10.4 | miles |
| Number of active AND inactive service connections: | 8 | 256 | |
| Service connection density: | | 25 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 7 60.0 psi

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $237,053 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $2.87 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 8 | $1,743.70 | $/acre-ft |

☐ Use Customer Retail Unit Cost to value real losses

Retail costs are less than (or equal to) production costs; please review and correct if necessary

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 74 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: Billed metered
3: Customer metering inaccuracies

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Myoma Dunes Mutual Water Company (3310051)
**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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 3 | 1,083.200 | MG/Yr | n/a | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |

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

**WATER SUPPLIED:** 1,083.200 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 5 | 975.800 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled unmetered: | | 13.540 | MG/Yr | 1.25% | | MG/Yr |

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 989.340 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 93.860 MG/Yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 2.708 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 30.179 | MG/Yr | 3.00% | | MG/Yr |
| Systematic data handling errors: | | 2.440 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 35.327 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 58.533 MG/Yr

**WATER LOSSES:** 93.860 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 107.400 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 5 | 33.5 | miles |
| Number of active AND inactive service connections: | 7 | 2,514 | |
| Service connection density: | | 75 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: 5 80.0 psi

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $2,026,409 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $0.97 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 4 | $33.61 | $/Million gallons |

☐ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 49 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: Customer metering inaccuracies
3: Billed metered

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Myoma Water Company (3310051)
**Reporting Year:** 2016 | 1/2016 - 12/2016

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 5 | 1,074.300 | MG/Yr | 3 | | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |

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

**WATER SUPPLIED:** 1,074.300 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 5 | 966.100 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 9 | 0.427 | MG/Yr | | | |
| Unbilled unmetered: | | 13.429 | MG/Yr | 1.25% | | MG/Yr |

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

**AUTHORIZED CONSUMPTION:** 979.956 MG/Yr

Use buttons to select percentage of water supplied **OR** value

### WATER LOSSES (Water Supplied - Authorized Consumption)

94.344 MG/Yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 2.686 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 29.893 | MG/Yr | 3.00% | | MG/Yr |
| Systematic data handling errors: | | 2.415 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 34.994 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 59.351 MG/Yr

**WATER LOSSES:** 94.344 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 108.200 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 5 | 33.5 | miles |
| Number of active AND inactive service connections: | 7 | 2,514 | |
| Service connection density: | | 75 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 9 | 80.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $2,026,409 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $0.97 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 7 | $0.97 | $/Million gallons | ☑ 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: Customer metering inaccuracies
3: Billed metered

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0


? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Myoma Water Company (3310051)
**Reporting Year:** 2017 1/2017 - 12/2017

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

<---------- Enter grading in column 'E' and 'J' ----------> Pcnt: Value:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Volume from own sources: | 3 | 1,108.600 | MG/Yr | 3 | | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | | MG/Yr |

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

**WATER SUPPLIED:** 1,108.600 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 5 | 1,010.600 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 10 | 20.700 | MG/Yr | | | |
| Unbilled unmetered: | 10 | 0.216 | MG/Yr | | 0.216 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 1,031.516 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 77.084 MG/Yr

**Apparent Losses**

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 2.772 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 31.896 | MG/Yr | 3.00% | | MG/Yr |
| Systematic data handling errors: | | 2.527 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 37.194 MG/Yr

**Real Losses (Current Annual Real Losses or CARL)**

**Real Losses = Water Losses - Apparent Losses:** 39.890 MG/Yr

**WATER LOSSES:** 77.084 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 98.000 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 5 | 34.0 | miles |
| Number of active AND inactive service connections: | 7 | 2,537 | |
| Service connection density: | | 75 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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 | 80.0 | psi |

### COST DATA

| | | | | |
|---|---|---|---|---|
| Total annual cost of operating water system: | 10 | $2,330,710 | $/Year | |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $0.97 | $/100 cubic feet (ccf) | |
| Variable production cost (applied to Real Losses): | 5 | $350.05 | $/Million gallons | ☐ Use Customer Retail Unit Cost to value real losses |

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 54 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: Customer metering inaccuracies
3: Billed metered

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0


? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Myoma Water Company (3310051)
**Reporting Year:** 2018 | 1/2018 - 12/2018

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: MILLION GALLONS (US) 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.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

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

| | | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|---|
| Volume from own sources: | 3 | 1,211.900 | MG/Yr | 3 | | | MG/Yr |
| Water imported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |
| Water exported: | n/a | 0.000 | MG/Yr | | | | MG/Yr |

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

**WATER SUPPLIED:** 1,211.900 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Billed metered: | 5 | 1,069.298 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 10 | 21.900 | MG/Yr | | | |
| Unbilled unmetered: | 5 | 1.212 | MG/Yr | | 1.212 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 1,092.410 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 119.490 MG/Yr

#### Apparent Losses

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Unauthorized consumption: | | 3.030 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | | |
|---|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 33.748 | MG/Yr | 3.00% | | MG/Yr |
| Systematic data handling errors: | | 2.673 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 39.451 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 80.039 MG/Yr

**WATER LOSSES:** 119.490 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 142.602 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 5 | 34.0 | miles |
| Number of active AND inactive service connections: | 7 | 2,550 | |
| Service connection density: | | 75 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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 | 80.0 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $2,314,890 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $0.97 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 5 | $312.65 | $/Million gallons |

☐ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 53 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: Customer metering inaccuracies
3: Billed metered

# AWWA Free Water Audit Software:
## Reporting Worksheet

WAS v5.0



? Click to access definition
+ Click to add a comment

**Water Audit Report for:** Myoma Dunes Water Company (3310051)
**Reporting Year:** 2019 | 1/2019 - 12/2019

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: MILLION GALLONS (US) 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.

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

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

| | | | | Pcnt: | Value: | |
|---|---|---|---|---|---|---|
| Volume from own sources: | 3 | 1,177.300 | MG/Yr | 0.00% | | MG/Yr |
| Water imported: | n/a | | MG/Yr | | | MG/Yr |
| Water exported: | n/a | | MG/Yr | | | MG/Yr |

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

**WATER SUPPLIED:** 1,177.300 MG/Yr

### AUTHORIZED CONSUMPTION

Click here: ? for help using option buttons below

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Billed metered: | 4 | 1,044.610 | MG/Yr | | | |
| Billed unmetered: | n/a | 0.000 | MG/Yr | | | |
| Unbilled metered: | 10 | 44.390 | MG/Yr | | | |
| Unbilled unmetered: | 10 | 0.131 | MG/Yr | | 0.131 | MG/Yr |

Use buttons to select percentage of water supplied **OR** value

**AUTHORIZED CONSUMPTION:** 1,089.131 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)** 88.169 MG/Yr

#### Apparent Losses

| | | | Pcnt: | Value: | |
|---|---|---|---|---|---|
| Unauthorized consumption: | | 2.943 | MG/Yr | 0.25% | | MG/Yr |

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

| | | | | | |
|---|---|---|---|---|---|
| Customer metering inaccuracies: | 3 | 33.680 | MG/Yr | 3.00% | MG/Yr |
| Systematic data handling errors: | | 2.612 | MG/Yr | 0.25% | MG/Yr |

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** 39.235 MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

**Real Losses = Water Losses - Apparent Losses:** 48.934 MG/Yr

**WATER LOSSES:** 88.169 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 132.690 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

| | | | |
|---|---|---|---|
| Length of mains: | 5 | 35.0 | miles |
| Number of active AND inactive service connections: | 7 | 2,577 | |
| Service connection density: | | 74 | conn./mile main |

Are customer meters typically located at the curbstop or property line? Yes

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: | 5 | 80.0 | psi |

### COST DATA

| | | | |
|---|---|---|---|
| Total annual cost of operating water system: | 10 | $2,364,469 | $/Year |
| Customer retail unit cost (applied to Apparent Losses): | 9 | $1.31 | $/100 cubic feet (ccf) |
| Variable production cost (applied to Real Losses): | 7 | $538.05 | $/Million gallons |

☐ Use Customer Retail Unit Cost to value real losses

### WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 54 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: Billed metered
3: Customer metering inaccuracies

H

# Appendix H: Resolutions of Adoption

# Appendix I: DWR UWMP Checklists

**Coachella Valley Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 1 | 10615 | A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. | Introduction and Overview | Section 1.1 |
| x | x | Chapter 1 | 10630.5 | Each plan shall include a simple description of the supplier's plan including water availability, future requirements, a strategy for meeting needs, and other pertinent information. Additionally, a supplier may also choose to include a simple description at the beginning of each chapter. | Summary | Section 1.3 |
| x | x | Section 2.2 | 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 4.2 |
| x | x | Section 2.6 | 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 4.2 |
| x | x | Section 2.6.2 | 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 and contingency plan. | Plan Preparation | Section 4.2 |
| x | | Section 2.6, Section 6.1 | 10631(h) | 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 4.2 |
| | x | Section 2.6 | 10631(h) | 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 | N/A |
| x | x | Section 3.1 | 10631(a) | Describe the water supplier service area. | System Description | Section 4.3 |
| x | x | Section 3.3 | 10631(a) | Describe the climate of the service area of the supplier. | System Description | Section 4.3 |
| x | x | Section 3.4 | 10631(a) | Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045. | System Description | Section 4.3 |
| x | x | Section 3.4.2 | 10631(a) | Describe other social, economic, and demographic factors affecting the supplier's water management planning. | System Description | Section 4.3 |
| x | x | Sections 3.4 and 5.4 | 10631(a) | Indicate the current population of the service area. | System Description and Baselines and Targets | Section 4.3 |
| x | x | Section 3.5 | 10631(a) | Describe the land uses within the service area. | System Description | Section 4.3 |
| x | x | Section 4.2 | 10631(d)(1) | Quantify past, current, and projected water use, identifying the uses among water use sectors. | System Water Use | Section 4.4 |
| x | x | Section 4.2.4 | 10631(d)(3)(C) | Retail suppliers shall provide data to show the distribution loss standards were met. | System Water Use | Section 4.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(A) | In projected water use, include estimates of water savings from adopted codes, plans and other policies or laws. | System Water Use | Section 4.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(B) | Provide citations of codes, standards, ordinances, or plans used to make water use projections. | System Water Use | Section 4.4 |
| x | optional | Section 4.3.2.4 | 10631(d)(3)(A) | Report the distribution system water loss for each of the 5 years preceding the plan update. | System Water Use | Section 4.4 |
| x | optional | Section 4.4 | 10631.1(a) | Include projected water use needed for lower income housing projected in the service area of the supplier. | System Water Use | Section 4.4 |
| x | x | Section 4.5 | 10635(b) | Demands under climate change considerations must be included as part of the drought risk assessment. | System Water Use | Section 4.4 |
| x | | Chapter 5 | 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 | Section 4.5 |
| x | | Chapter 5 | 10608.24(a) | Retail suppliers shall meet their water use target by December 31, 2020. | Baselines and Targets | Section 4.5 |
| | x | Section 5.1 | 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 | N/A |
| x | | Section 5.2 | 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 4.5 |
| x | | Section 5.5 | 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 4.5 |
| x | | Section 5.5 and Appendix E | 10608.4 | Retail suppliers shall report on their compliance in meeting their water use targets. The data shall be reported using a standardized form in the SBX7-7 2020 Compliance Form. | Baselines and Targets | Section 4.5 |
| x | x | Sections 6.1 and 6.2 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought. | System Supplies | Section 4.7 |
| x | x | Sections 6.1 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought, *including changes in supply due to climate change.* | System Supplies | Section 4.7 |
| x | x | Section 6.1 | 10631(b)(2) | When multiple sources of water supply are identified, describe the management of each supply in relationship to other identified supplies. | System Supplies | Section 4.6 |

**Coachella Valley Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Section 6.1.1 | 10631(b)(3) | Describe measures taken to acquire and develop planned sources of water. | System Supplies | Section 4.6 |
| x | x | Section 6.2.8 | 10631(b) | Identify and quantify the existing and planned sources of water available for 2020, 2025, 2030, 2035, 2040 and optionally 2045. | System Supplies | Section 4.6 |
| x | x | Section 6.2 | 10631(b) | Indicate whether groundwater is an existing or planned source of water available to the supplier. | System Supplies | Section 4.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(A) | Indicate whether a groundwater sustainability plan or 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 4.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | Describe the groundwater basin. | System Supplies | Section 4.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | 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 4.6 |
| x | x | Section 6.2.2.1 | 10631(b)(4)(B) | For unadjudicated basins, indicate whether or not the department has identified the basin as a high or medium priority. Describe efforts by the supplier to coordinate with sustainability or groundwater agencies to achieve sustainable groundwater conditions. | System Supplies | Section 4.6 |
| x | x | Section 6.2.2.4 | 10631(b)(4)(C) | 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 4.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(D) | Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped. | System Supplies | Section 4.6 |
| x | x | Section 6.2.7 | 10631(c) | Describe the opportunities for exchanges or transfers of water on a short-term or long- term basis. | System Supplies | Section 4.6 |
| x | x | Section 6.2.5 | 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 4.6 |
| x | x | Section 6.2.5 | 10633(c) | Describe the recycled water currently being used in the supplier's service area. | System Supplies (Recycled Water) | Section 4.6 |
| x | x | Section 6.2.5 | 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 4.6 |
| x | x | Section 6.2.5 | 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 4.6 |
| x | x | Section 6.2.5 | 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 4.6 |
| x | x | Section 6.2.5 | 10633(g) | Provide a plan for optimizing the use of recycled water in the supplier's service area. | System Supplies (Recycled Water) | Section 4.6 |
| x | x | Section 6.2.6 | 10631(g) | Describe desalinated water project opportunities for long-term supply. | System Supplies | Section 4.6 |
| x | x | Section 6.2.5 | 10633(a) | Describe the wastewater collection and treatment systems in the supplier's service area with quantified amount of collection and treatment and the disposal methods. | System Supplies (Recycled Water) | Section 4.6 |
| x | x | Section 6.2.8, Section 6.3.7 | 10631(f) | 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 for a period of drought lasting 5 consecutive water years. | System Supplies | Section 4.6 |
| x | x | Section 6.4 and Appendix O | 10631.2(a) | The UWMP must include energy information, as stated in the code, that a supplier can readily obtain. | System Suppliers, Energy Intensity | Section 4.6 |
| x | x | Section 7.2 | 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 4.7 |
| x | x | Section 7.2.4 | 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 4.7 |
| x | x | Section 7.3 | 10635(a) | Service Reliability Assessment: Assess the water supply reliability during normal, dry, and a drought lasting five consecutive 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 4.7 |
| x | x | Section 7.3 | 10635(b) | Provide a drought risk assessment as part of information considered in developing the demand management measures and water supply projects. | Water Supply Reliability Assessment | Section 4.7 |
| x | x | Section 7.3 | 10635(b)(1) | Include a description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts 5 consecutive years. | Water Supply Reliability Assessment | Section 4.7 |
| x | x | Section 7.3 | 10635(b)(2) | Include a determination of the reliability of each source of supply under a variety of water shortage conditions. | Water Supply Reliability Assessment | Section 4.7 |
| x | x | Section 7.3 | 10635(b)(3) | Include a comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period. | Water Supply Reliability Assessment | Section 4.7 |
| x | x | Section 7.3 | 10635(b)(4) | Include considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria. | Water Supply Reliability Assessment | Section 4.7 |

**Coachella Valley Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 8 | 10632(a) | Provide a water shortage contingency plan (WSCP) with specified elements below. | Water Shortage Contingency Planning | WSCP |
| x | x | Chapter 8 | 10632(a)(1) | Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP | Water Shortage Contingency Planning | WSCP, Section 1 |
| x | x | Section 8.10 | 10632(a)(10) | Describe reevaluation and improvement procedures for monitoring and evaluation the water shortage contingency plan to ensure risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(A) | Provide the written decision-making process and other methods that the supplier will use each year to determine its water reliability. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(B) | Provide data and methodology to evaluate the supplier's water reliability for the current year and one dry year pursuant to factors in the code. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.3 | 10632(a)(3)(A) | Define six standard water shortage levels of 10, 20, 30, 40, 50 percent shortage and greater than 50 percent shortage. These levels shall be based on supply conditions, including percent reductions in supply, changes in groundwater levels, changes in surface elevation, or other conditions. The shortage levels shall also apply to a catastrophic interruption of supply. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.3 | 10632(a)(3)(B) | Suppliers with an existing water shortage contingency plan that uses different water shortage levels must cross reference their categories with the six standard categories. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.4 | 10632(a)(4)(A) | Suppliers with water shortage contingency plans that align with the defined shortage levels must specify locally appropriate supply augmentation actions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(B) | Specify locally appropriate demand reduction actions to adequately respond to shortages. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(C) | Specify locally appropriate operational changes. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(D) | Specify additional mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions are appropriate to local conditions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(E) | Estimate the extent to which the gap between supplies and demand will be reduced by implementation of the action. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4.6 | 10632.5 | The plan shall include a seismic risk assessment and mitigation plan. | Water Shortage Contingency Plan | WSCP, Section 4.6 |
| x | x | Section 8.5 | 10632(a)(5)(A) | Suppliers must describe that they will inform customers, the public and others regarding any current or predicted water shortages. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | x | Section 8.5 and 8.6 | 10632(a)(5)(B)<br>10632(a)(5)(C) | Suppliers must describe that they will inform customers, the public and others regarding any shortage response actions triggered or anticipated to be triggered and other relevant communications. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | | Section 8.6 | 10632(a)(6) | Retail supplier must describe how it will ensure compliance with and enforce provisions of the WSCP. | Water Shortage Contingency Planning | WSCP, Section 6 |
| x | | Section 8.7 | 10632(a)(7)(A) | Describe the legal authority that empowers the supplier to enforce shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(B) | Provide a statement that the supplier will declare a water shortage emergency Water Code Chapter 3. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(C) | Provide a statement that the supplier will coordinate with any city or county within which it provides water for the possible proclamation of a local emergency. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.8 | 10632(a)(8)(A) | Describe the potential revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | x | Section 8.8 | 10632(a)(8)(B) | Provide a description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.8 | 10632(a)(8)(C) | Retail suppliers must describe the cost of compliance with Water Code Chapter 3.3: Excessive Residential Water Use During Drought | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.9 | 10632(a)(9) | Retail suppliers must describe the monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.11 | 10632(b) | Analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas. | Water Shortage Contingency Planning | WSCP, Section 11 |
| x | x | Sections 8.12 and 10.4 | 10635(c) | 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 30 days after the submission of the plan to DWR. | Plan Adoption, Submittal, and Implementation | WSCP, Section 12 |
| x | x | Section 8.12 | 10632(c) | Make available the Water Shortage Contingency Plan to customers and any city or county where it provides water within 30 after adopted the plan. | Water Shortage Contingency Planning | WSCP, Section 12 |
| | x | Sections 9.1 and 9.3 | 10631(e)(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 | N/A |

**Coachella Valley Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | | Sections 9.2 and 9.3 | 10631(e)(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 | Section 4.9 |
| x | | Chapter 10 | 10608.26(a) | Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets (recommended to discuss compliance). | Plan Adoption, Submittal, and Implementation | Section 4.10 |
| x | x | Section 10.2.1 | 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. Reported in Table 10-1. | Plan Adoption, Submittal, and Implementation | Section 4.10 |
| x | x | Section 10.4 | 10621(f) | Each urban water supplier shall update and submit its 2020 plan to the department by July 1, 2021. | Plan Adoption, Submittal, and Implementation | Section 4.10 |
| x | x | Sections 10.2.2, 10.3, and 10.5 | 10642 | Provide supporting documentation that the urban water supplier made the plan and contingency plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan and contingency plan. | Plan Adoption, Submittal, and Implementation | Section 4.10 |
| x | x | Section 10.2.2 | 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 | Section 4.10 |
| x | x | Section 10.3.2 | 10642 | Provide supporting documentation that the plan and contingency plan has been adopted as prepared or modified. | Plan Adoption, Submittal, and Implementation | Section 4.10 |
| x | x | Section 10.4 | 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 4.10 |
| x | x | Section 10.4 | 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 4.10 |
| x | x | Sections 10.4.1 and 10.4.2 | 10644(a)(2) | The plan, or amendments to the plan, submitted to the department shall be submitted electronically. | Plan Adoption, Submittal, and Implementation | Section 4.10 |
| x | x | Section 10.5 | 10645(a) | 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 4.10 |
| x | x | Section 10.5 | 10645(b) | Provide supporting documentation that, not later than 30 days after filing a copy of its water shortage contingency 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 4.10 |
| x | x | Section 10.6 | 10621(c) | If supplier is regulated by the Public Utilities Commission, include its plan and contingency plan as part of its general rate case filings. | Plan Adoption, Submittal, and Implementation | Section 4.10 |
| x | x | Section 10.7.2 | 10644(b) | If revised, submit a copy of the water shortage contingency plan to DWR within 30 days of adoption. | Plan Adoption, Submittal, and Implementation | Section 4.10 |

**Coachella Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 1 | 10615 | A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. | Introduction and Overview | Section 1.1 |
| x | x | Chapter 1 | 10630.5 | Each plan shall include a simple description of the supplier's plan including water availability, future requirements, a strategy for meeting needs, and other pertinent information. Additionally, a supplier may also choose to include a simple description at the beginning of each chapter. | Summary | Section 1.3 |
| x | x | Section 2.2 | 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 5.2 |
| x | x | Section 2.6 | 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 5.2 |
| x | x | Section 2.6.2 | 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 and contingency plan. | Plan Preparation | Section 5.2 |
| x | | Section 2.6, Section 6.1 | 10631(h) | 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 5.2 |
| | x | Section 2.6 | 10631(h) | 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 | N/A |
| x | x | Section 3.1 | 10631(a) | Describe the water supplier service area. | System Description | Section 5.3 |
| x | x | Section 3.3 | 10631(a) | Describe the climate of the service area of the supplier. | System Description | Section 5.3 |
| x | x | Section 3.4 | 10631(a) | Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045. | System Description | Section 5.3 |
| x | x | Section 3.4.2 | 10631(a) | Describe other social, economic, and demographic factors affecting the supplier's water management planning. | System Description | Section 5.3 |
| x | x | Sections 3.4 and 5.4 | 10631(a) | Indicate the current population of the service area. | System Description and Baselines and Targets | Section 5.3 |
| x | x | Section 3.5 | 10631(a) | Describe the land uses within the service area. | System Description | Section 5.3 |
| x | x | Section 4.2 | 10631(d)(1) | Quantify past, current, and projected water use, identifying the uses among water use sectors. | System Water Use | Section 5.4 |
| x | x | Section 4.2.4 | 10631(d)(3)(C) | Retail suppliers shall provide data to show the distribution loss standards were met. | System Water Use | Section 5.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(A) | In projected water use, include estimates of water savings from adopted codes, plans and other policies or laws. | System Water Use | Section 5.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(B) | Provide citations of codes, standards, ordinances, or plans used to make water use projections. | System Water Use | Section 5.4 |
| x | optional | Section 4.3.2.4 | 10631(d)(3)(A) | Report the distribution system water loss for each of the 5 years preceding the plan update. | System Water Use | Section 5.4 |
| x | optional | Section 4.4 | 10631.1(a) | Include projected water use needed for lower income housing projected in the service area of the supplier. | System Water Use | Section 5.4 |
| x | x | Section 4.5 | 10635(b) | Demands under climate change considerations must be included as part of the drought risk assessment. | System Water Use | Section 5.4 |
| x | | Chapter 5 | 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 | Section 5.5 |
| x | | Chapter 5 | 10608.24(a) | Retail suppliers shall meet their water use target by December 31, 2020. | Baselines and Targets | Section 5.5 |
| | x | Section 5.1 | 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 | N/A |
| x | | Section 5.2 | 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 5.5 |
| x | | Section 5.5 | 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 5.5 |
| x | | Section 5.5 and Appendix E | 10608.4 | Retail suppliers shall report on their compliance in meeting their water use targets. The data shall be reported using a standardized form in the SBX7-7 2020 Compliance Form. | Baselines and Targets | Section 5.5 |
| x | x | Sections 6.1 and 6.2 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought. | System Supplies | Section 5.7 |
| x | x | Sections 6.1 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought, *including changes in supply due to climate change.* | System Supplies | Section 5.7 |
| x | x | Section 6.1 | 10631(b)(2) | When multiple sources of water supply are identified, describe the management of each supply in relationship to other identified supplies. | System Supplies | Section 5.6 |

**Coachella Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Section 6.1.1 | 10631(b)(3) | Describe measures taken to acquire and develop planned sources of water. | System Supplies | Section 5.6 |
| x | x | Section 6.2.8 | 10631(b) | Identify and quantify the existing and planned sources of water available for 2020, 2025, 2030, 2035, 2040 and optionally 2045. | System Supplies | Section 5.6 |
| x | x | Section 6.2 | 10631(b) | Indicate whether groundwater is an existing or planned source of water available to the supplier. | System Supplies | Section 5.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(A) | Indicate whether a groundwater sustainability plan or 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 5.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | Describe the groundwater basin. | System Supplies | Section 5.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | 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 5.6 |
| x | x | Section 6.2.2.1 | 10631(b)(4)(B) | For unadjudicated basins, indicate whether or not the department has identified the basin as a high or medium priority. Describe efforts by the supplier to coordinate with sustainability or groundwater agencies to achieve sustainable groundwater conditions. | System Supplies | Section 5.6 |
| x | x | Section 6.2.2.4 | 10631(b)(4)(C) | 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 5.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(D) | Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped. | System Supplies | Section 5.6 |
| x | x | Section 6.2.7 | 10631(c) | Describe the opportunities for exchanges or transfers of water on a short-term or long- term basis. | System Supplies | Section 5.6 |
| x | x | Section 6.2.5 | 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 5.6 |
| x | x | Section 6.2.5 | 10633(c) | Describe the recycled water currently being used in the supplier's service area. | System Supplies (Recycled Water) | Section 5.6 |
| x | x | Section 6.2.5 | 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 5.6 |
| x | x | Section 6.2.5 | 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 5.6 |
| x | x | Section 6.2.5 | 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 5.6 |
| x | x | Section 6.2.5 | 10633(g) | Provide a plan for optimizing the use of recycled water in the supplier's service area. | System Supplies (Recycled Water) | Section 5.6 |
| x | x | Section 6.2.6 | 10631(g) | Describe desalinated water project opportunities for long-term supply. | System Supplies | Section 5.6 |
| x | x | Section 6.2.5 | 10633(a) | Describe the wastewater collection and treatment systems in the supplier's service area with quantified amount of collection and treatment and the disposal methods. | System Supplies (Recycled Water) | Section 5.6 |
| x | x | Section 6.2.8, Section 6.3.7 | 10631(f) | 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 for a period of drought lasting 5 consecutive water years. | System Supplies | Section 5.6 |
| x | x | Section 6.4 and Appendix O | 10631.2(a) | The UWMP must include energy information, as stated in the code, that a supplier can readily obtain. | System Suppliers, Energy Intensity | Section 5.6 |
| x | x | Section 7.2 | 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 5.7 |
| x | x | Section 7.2.4 | 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 5.7 |
| x | x | Section 7.3 | 10635(a) | Service Reliability Assessment: Assess the water supply reliability during normal, dry, and a drought lasting five consecutive 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 5.7 |
| x | x | Section 7.3 | 10635(b) | Provide a drought risk assessment as part of information considered in developing the demand management measures and water supply projects. | Water Supply Reliability Assessment | Section 5.7 |
| x | x | Section 7.3 | 10635(b)(1) | Include a description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts 5 consecutive years. | Water Supply Reliability Assessment | Section 5.7 |
| x | x | Section 7.3 | 10635(b)(2) | Include a determination of the reliability of each source of supply under a variety of water shortage conditions. | Water Supply Reliability Assessment | Section 5.7 |
| x | x | Section 7.3 | 10635(b)(3) | Include a comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period. | Water Supply Reliability Assessment | Section 5.7 |
| x | x | Section 7.3 | 10635(b)(4) | Include considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria. | Water Supply Reliability Assessment | Section 5.7 |

**Coachella Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 8 | 10632(a) | Provide a water shortage contingency plan (WSCP) with specified elements below. | Water Shortage Contingency Planning | WSCP |
| x | x | Chapter 8 | 10632(a)(1) | Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP | Water Shortage Contingency Planning | WSCP, Section 1 |
| x | x | Section 8.10 | 10632(a)(10) | Describe reevaluation and improvement procedures for monitoring and evaluation the water shortage contingency plan to ensure risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(A) | Provide the written decision-making process and other methods that the supplier will use each year to determine its water reliability. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(B) | Provide data and methodology to evaluate the supplier's water reliability for the current year and one dry year pursuant to factors in the code. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.3 | 10632(a)(3)(A) | Define six standard water shortage levels of 10, 20, 30, 40, 50 percent shortage and greater than 50 percent shortage. These levels shall be based on supply conditions, including percent reductions in supply, changes in groundwater levels, changes in surface elevation, or other conditions. The shortage levels shall also apply to a catastrophic interruption of supply. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.3 | 10632(a)(3)(B) | Suppliers with an existing water shortage contingency plan that uses different water shortage levels must cross reference their categories with the six standard categories. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.4 | 10632(a)(4)(A) | Suppliers with water shortage contingency plans that align with the defined shortage levels must specify locally appropriate supply augmentation actions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(B) | Specify locally appropriate demand reduction actions to adequately respond to shortages. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(C) | Specify locally appropriate operational changes. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(D) | Specify additional mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions are appropriate to local conditions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(E) | Estimate the extent to which the gap between supplies and demand will be reduced by implementation of the action. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4.6 | 10632.5 | The plan shall include a seismic risk assessment and mitigation plan. | Water Shortage Contingency Plan | WSCP, Section 4.6 |
| x | x | Section 8.5 | 10632(a)(5)(A) | Suppliers must describe that they will inform customers, the public and others regarding any current or predicted water shortages. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | x | Section 8.5 and 8.6 | 10632(a)(5)(B)<br>10632(a)(5)(C) | Suppliers must describe that they will inform customers, the public and others regarding any shortage response actions triggered or anticipated to be triggered and other relevant communications. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | | Section 8.6 | 10632(a)(6) | Retail supplier must describe how it will ensure compliance with and enforce provisions of the WSCP. | Water Shortage Contingency Planning | WSCP, Section 6 |
| x | | Section 8.7 | 10632(a)(7)(A) | Describe the legal authority that empowers the supplier to enforce shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(B) | Provide a statement that the supplier will declare a water shortage emergency Water Code Chapter 3. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(C) | Provide a statement that the supplier will coordinate with any city or county within which it provides water for the possible proclamation of a local emergency. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.8 | 10632(a)(8)(A) | Describe the potential revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | x | Section 8.8 | 10632(a)(8)(B) | Provide a description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.8 | 10632(a)(8)(C) | Retail suppliers must describe the cost of compliance with Water Code Chapter 3.3: Excessive Residential Water Use During Drought | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.9 | 10632(a)(9) | Retail suppliers must describe the monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.11 | 10632(b) | Analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas. | Water Shortage Contingency Planning | WSCP, Section 11 |
| x | x | Sections 8.12 and 10.4 | 10635(c) | 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 30 days after the submission of the plan to DWR. | Plan Adoption, Submittal, and Implementation | WSCP, Section 12 |
| x | x | Section 8.12 | 10632(c) | Make available the Water Shortage Contingency Plan to customers and any city or county where it provides water within 30 after adopted the plan. | Water Shortage Contingency Planning | WSCP, Section 12 |
| | x | Sections 9.1 and 9.3 | 10631(e)(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 | N/A |

**Coachella Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | | Sections 9.2 and 9.3 | 10631(e)(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 | Section 5.9 |
| x | | Chapter 10 | 10608.26(a) | Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets (recommended to discuss compliance). | Plan Adoption, Submittal, and Implementation | Section 5.10 |
| x | x | Section 10.2.1 | 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. Reported in Table 10-1. | Plan Adoption, Submittal, and Implementation | Section 5.10 |
| x | x | Section 10.4 | 10621(f) | Each urban water supplier shall update and submit its 2020 plan to the department by July 1, 2021. | Plan Adoption, Submittal, and Implementation | Section 5.10 |
| x | x | Sections 10.2.2, 10.3, and 10.5 | 10642 | Provide supporting documentation that the urban water supplier made the plan and contingency plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan and contingency plan. | Plan Adoption, Submittal, and Implementation | Section 5.10 |
| x | x | Section 10.2.2 | 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 | Section 5.10 |
| x | x | Section 10.3.2 | 10642 | Provide supporting documentation that the plan and contingency plan has been adopted as prepared or modified. | Plan Adoption, Submittal, and Implementation | Section 5.10 |
| x | x | Section 10.4 | 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 5.10 |
| x | x | Section 10.4 | 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 5.10 |
| x | x | Sections 10.4.1 and 10.4.2 | 10644(a)(2) | The plan, or amendments to the plan, submitted to the department shall be submitted electronically. | Plan Adoption, Submittal, and Implementation | Section 5.10 |
| x | x | Section 10.5 | 10645(a) | 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 5.10 |
| x | x | Section 10.5 | 10645(b) | Provide supporting documentation that, not later than 30 days after filing a copy of its water shortage contingency 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 5.10 |
| x | x | Section 10.6 | 10621(c) | If supplier is regulated by the Public Utilities Commission, include its plan and contingency plan as part of its general rate case filings. | Plan Adoption, Submittal, and Implementation | Section 5.10 |
| x | x | Section 10.7.2 | 10644(b) | If revised, submit a copy of the water shortage contingency plan to DWR within 30 days of adoption. | Plan Adoption, Submittal, and Implementation | Section 5.10 |

**Desert Water Agency**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 1 | 10615 | A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. | Introduction and Overview | Section 1.1 |
| x | x | Chapter 1 | 10630.5 | Each plan shall include a simple description of the supplier's plan including water availability, future requirements, a strategy for meeting needs, and other pertinent information. Additionally, a supplier may also choose to include a simple description at the beginning of each chapter. | Summary | Section 1.3 |
| x | x | Section 2.2 | 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 6.2 |
| x | x | Section 2.6 | 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 6.2 |
| x | x | Section 2.6.2 | 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 and contingency plan. | Plan Preparation | Section 6.2 |
| x | | Section 2.6, Section 6.1 | 10631(h) | 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 6.2 |
| | x | Section 2.6 | 10631(h) | 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 | N/A |
| x | x | Section 3.1 | 10631(a) | Describe the water supplier service area. | System Description | Section 6.3 |
| x | x | Section 3.3 | 10631(a) | Describe the climate of the service area of the supplier. | System Description | Section 6.3 |
| x | x | Section 3.4 | 10631(a) | Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045. | System Description | Section 6.3 |
| x | x | Section 3.4.2 | 10631(a) | Describe other social, economic, and demographic factors affecting the supplier's water management planning. | System Description | Section 6.3 |
| x | x | Sections 3.4 and 5.4 | 10631(a) | Indicate the current population of the service area. | System Description and Baselines and Targets | Section 6.3 |
| x | x | Section 3.5 | 10631(a) | Describe the land uses within the service area. | System Description | Section 6.3 |
| x | x | Section 4.2 | 10631(d)(1) | Quantify past, current, and projected water use, identifying the uses among water use sectors. | System Water Use | Section 6.4 |
| x | x | Section 4.2.4 | 10631(d)(3)(C) | Retail suppliers shall provide data to show the distribution loss standards were met. | System Water Use | Section 6.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(A) | In projected water use, include estimates of water savings from adopted codes, plans and other policies or laws. | System Water Use | Section 6.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(B) | Provide citations of codes, standards, ordinances, or plans used to make water use projections. | System Water Use | Section 6.4 |
| x | optional | Section 4.3.2.4 | 10631(d)(3)(A) | Report the distribution system water loss for each of the 5 years preceding the plan update. | System Water Use | Section 6.4 |
| x | optional | Section 4.4 | 10631.1(a) | Include projected water use needed for lower income housing projected in the service area of the supplier. | System Water Use | Section 6.4 |
| x | x | Section 4.5 | 10635(b) | Demands under climate change considerations must be included as part of the drought risk assessment. | System Water Use | Section 6.4 |
| x | | Chapter 5 | 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 | Section 6.5 |
| x | | Chapter 5 | 10608.24(a) | Retail suppliers shall meet their water use target by December 31, 2020. | Baselines and Targets | Section 6.5 |
| | x | Section 5.1 | 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 | N/A |
| x | | Section 5.2 | 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 6.5 |
| x | | Section 5.5 | 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 6.5 |
| x | | Section 5.5 and Appendix E | 10608.4 | Retail suppliers shall report on their compliance in meeting their water use targets. The data shall be reported using a standardized form in the SBX7-7 2020 Compliance Form. | Baselines and Targets | Section 6.5 |
| x | x | Sections 6.1 and 6.2 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought. | System Supplies | Section 6.7 |
| x | x | Sections 6.1 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought, *including changes in supply due to climate change.* | System Supplies | Section 6.7 |
| x | x | Section 6.1 | 10631(b)(2) | When multiple sources of water supply are identified, describe the management of each supply in relationship to other identified supplies. | System Supplies | Section 6.6 |

**Desert Water Agency**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Section 6.1.1 | 10631(b)(3) | Describe measures taken to acquire and develop planned sources of water. | System Supplies | Section 6.6 |
| x | x | Section 6.2.8 | 10631(b) | Identify and quantify the existing and planned sources of water available for 2020, 2025, 2030, 2035, 2040 and optionally 2045. | System Supplies | Section 6.6 |
| x | x | Section 6.2 | 10631(b) | Indicate whether groundwater is an existing or planned source of water available to the supplier. | System Supplies | Section 6.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(A) | Indicate whether a groundwater sustainability plan or 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 6.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | Describe the groundwater basin. | System Supplies | Section 6.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | 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 6.6 |
| x | x | Section 6.2.2.1 | 10631(b)(4)(B) | For unadjudicated basins, indicate whether or not the department has identified the basin as a high or medium priority. Describe efforts by the supplier to coordinate with sustainability or groundwater agencies to achieve sustainable groundwater conditions. | System Supplies | Section 6.6 |
| x | x | Section 6.2.2.4 | 10631(b)(4)(C) | 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 6.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(D) | Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped. | System Supplies | Section 6.6 |
| x | x | Section 6.2.7 | 10631(c) | Describe the opportunities for exchanges or transfers of water on a short-term or long- term basis. | System Supplies | Section 6.6 |
| x | x | Section 6.2.5 | 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 6.6 |
| x | x | Section 6.2.5 | 10633(c) | Describe the recycled water currently being used in the supplier's service area. | System Supplies (Recycled Water) | Section 6.6 |
| x | x | Section 6.2.5 | 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 6.6 |
| x | x | Section 6.2.5 | 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 6.6 |
| x | x | Section 6.2.5 | 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 6.6 |
| x | x | Section 6.2.5 | 10633(g) | Provide a plan for optimizing the use of recycled water in the supplier's service area. | System Supplies (Recycled Water) | Section 6.6 |
| x | x | Section 6.2.6 | 10631(g) | Describe desalinated water project opportunities for long-term supply. | System Supplies | Section 6.6 |
| x | x | Section 6.2.5 | 10633(a) | Describe the wastewater collection and treatment systems in the supplier's service area with quantified amount of collection and treatment and the disposal methods. | System Supplies (Recycled Water) | Section 6.6 |
| x | x | Section 6.2.8, Section 6.3.7 | 10631(f) | 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 for a period of drought lasting 5 consecutive water years. | System Supplies | Section 6.6 |
| x | x | Section 6.4 and Appendix O | 10631.2(a) | The UWMP must include energy information, as stated in the code, that a supplier can readily obtain. | System Suppliers, Energy Intensity | Section 6.6 |
| x | x | Section 7.2 | 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 6.7 |
| x | x | Section 7.2.4 | 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 6.7 |
| x | x | Section 7.3 | 10635(a) | Service Reliability Assessment: Assess the water supply reliability during normal, dry, and a drought lasting five consecutive 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 6.7 |
| x | x | Section 7.3 | 10635(b) | Provide a drought risk assessment as part of information considered in developing the demand management measures and water supply projects. | Water Supply Reliability Assessment | Section 6.7 |
| x | x | Section 7.3 | 10635(b)(1) | Include a description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts 5 consecutive years. | Water Supply Reliability Assessment | Section 6.7 |
| x | x | Section 7.3 | 10635(b)(2) | Include a determination of the reliability of each source of supply under a variety of water shortage conditions. | Water Supply Reliability Assessment | Section 6.7 |
| x | x | Section 7.3 | 10635(b)(3) | Include a comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period. | Water Supply Reliability Assessment | Section 6.7 |
| x | x | Section 7.3 | 10635(b)(4) | Include considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria. | Water Supply Reliability Assessment | Section 6.7 |

**Desert Water Agency**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 8 | 10632(a) | Provide a water shortage contingency plan (WSCP) with specified elements below. | Water Shortage Contingency Planning | WSCP |
| x | x | Chapter 8 | 10632(a)(1) | Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP | Water Shortage Contingency Planning | WSCP, Section 1 |
| x | x | Section 8.10 | 10632(a)(10) | Describe reevaluation and improvement procedures for monitoring and evaluation the water shortage contingency plan to ensure risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(A) | Provide the written decision-making process and other methods that the supplier will use each year to determine its water reliability. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(B) | Provide data and methodology to evaluate the supplier's water reliability for the current year and one dry year pursuant to factors in the code. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.3 | 10632(a)(3)(A) | Define six standard water shortage levels of 10, 20, 30, 40, 50 percent shortage and greater than 50 percent shortage. These levels shall be based on supply conditions, including percent reductions in supply, changes in groundwater levels, changes in surface elevation, or other conditions. The shortage levels shall also apply to a catastrophic interruption of supply. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.3 | 10632(a)(3)(B) | Suppliers with an existing water shortage contingency plan that uses different water shortage levels must cross reference their categories with the six standard categories. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.4 | 10632(a)(4)(A) | Suppliers with water shortage contingency plans that align with the defined shortage levels must specify locally appropriate supply augmentation actions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(B) | Specify locally appropriate demand reduction actions to adequately respond to shortages. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(C) | Specify locally appropriate operational changes. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(D) | Specify additional mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions are appropriate to local conditions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(E) | Estimate the extent to which the gap between supplies and demand will be reduced by implementation of the action. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4.6 | 10632.5 | The plan shall include a seismic risk assessment and mitigation plan. | Water Shortage Contingency Plan | WSCP, Section 4.6 |
| x | x | Section 8.5 | 10632(a)(5)(A) | Suppliers must describe that they will inform customers, the public and others regarding any current or predicted water shortages. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | x | Section 8.5 and 8.6 | 10632(a)(5)(B)<br>10632(a)(5)(C) | Suppliers must describe that they will inform customers, the public and others regarding any shortage response actions triggered or anticipated to be triggered and other relevant communications. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | | Section 8.6 | 10632(a)(6) | Retail supplier must describe how it will ensure compliance with and enforce provisions of the WSCP. | Water Shortage Contingency Planning | WSCP, Section 6 |
| x | | Section 8.7 | 10632(a)(7)(A) | Describe the legal authority that empowers the supplier to enforce shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(B) | Provide a statement that the supplier will declare a water shortage emergency Water Code Chapter 3. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(C) | Provide a statement that the supplier will coordinate with any city or county within which it provides water for the possible proclamation of a local emergency. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.8 | 10632(a)(8)(A) | Describe the potential revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | x | Section 8.8 | 10632(a)(8)(B) | Provide a description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.8 | 10632(a)(8)(C) | Retail suppliers must describe the cost of compliance with Water Code Chapter 3.3: Excessive Residential Water Use During Drought | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.9 | 10632(a)(9) | Retail suppliers must describe the monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.11 | 10632(b) | Analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas. | Water Shortage Contingency Planning | WSCP, Section 11 |
| x | x | Sections 8.12 and 10.4 | 10635(c) | 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 30 days after the submission of the plan to DWR. | Plan Adoption, Submittal, and Implementation | WSCP, Section 12 |
| x | x | Section 8.12 | 10632(c) | Make available the Water Shortage Contingency Plan to customers and any city or county where it provides water within 30 after adopted the plan. | Water Shortage Contingency Planning | WSCP, Section 12 |
| | x | Sections 9.1 and 9.3 | 10631(e)(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 | N/A |

**Desert Water Agency**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | | Sections 9.2 and 9.3 | 10631(e)(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 | Section 6.9 |
| x | | Chapter 10 | 10608.26(a) | Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets (recommended to discuss compliance). | Plan Adoption, Submittal, and Implementation | Section 6.10 |
| x | x | Section 10.2.1 | 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. Reported in Table 10-1. | Plan Adoption, Submittal, and Implementation | Section 6.10 |
| x | x | Section 10.4 | 10621(f) | Each urban water supplier shall update and submit its 2020 plan to the department by July 1, 2021. | Plan Adoption, Submittal, and Implementation | Section 6.10 |
| x | x | Sections 10.2.2, 10.3, and 10.5 | 10642 | Provide supporting documentation that the urban water supplier made the plan and contingency plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan and contingency plan. | Plan Adoption, Submittal, and Implementation | Section 6.10 |
| x | x | Section 10.2.2 | 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 | Section 6.10 |
| x | x | Section 10.3.2 | 10642 | Provide supporting documentation that the plan and contingency plan has been adopted as prepared or modified. | Plan Adoption, Submittal, and Implementation | Section 6.10 |
| x | x | Section 10.4 | 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 6.10 |
| x | x | Section 10.4 | 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 6.10 |
| x | x | Sections 10.4.1 and 10.4.2 | 10644(a)(2) | The plan, or amendments to the plan, submitted to the department shall be submitted electronically. | Plan Adoption, Submittal, and Implementation | Section 6.10 |
| x | x | Section 10.5 | 10645(a) | 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 6.10 |
| x | x | Section 10.5 | 10645(b) | Provide supporting documentation that, not later than 30 days after filing a copy of its water shortage contingency 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 6.10 |
| x | x | Section 10.6 | 10621(c) | If supplier is regulated by the Public Utilities Commission, include its plan and contingency plan as part of its general rate case filings. | Plan Adoption, Submittal, and Implementation | Section 6.10 |
| x | x | Section 10.7.2 | 10644(b) | If revised, submit a copy of the water shortage contingency plan to DWR within 30 days of adoption. | Plan Adoption, Submittal, and Implementation | Section 6.10 |

**Indio Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 1 | 10615 | A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. | Introduction and Overview | Section 1.1 |
| x | x | Chapter 1 | 10630.5 | Each plan shall include a simple description of the supplier's plan including water availability, future requirements, a strategy for meeting needs, and other pertinent information. Additionally, a supplier may also choose to include a simple description at the beginning of each chapter. | Summary | Section 1.3 |
| x | x | Section 2.2 | 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 7.2 |
| x | x | Section 2.6 | 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 7.2 |
| x | x | Section 2.6.2 | 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 and contingency plan. | Plan Preparation | Section 7.2 |
| x | | Section 2.6, Section 6.1 | 10631(h) | 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 7.2 |
| | x | Section 2.6 | 10631(h) | 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 | N/A |
| x | x | Section 3.1 | 10631(a) | Describe the water supplier service area. | System Description | Section 7.3 |
| x | x | Section 3.3 | 10631(a) | Describe the climate of the service area of the supplier. | System Description | Section 7.3 |
| x | x | Section 3.4 | 10631(a) | Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045. | System Description | Section 7.3 |
| x | x | Section 3.4.2 | 10631(a) | Describe other social, economic, and demographic factors affecting the supplier's water management planning. | System Description | Section 7.3 |
| x | x | Sections 3.4 and 5.4 | 10631(a) | Indicate the current population of the service area. | System Description and Baselines and Targets | Section 7.3 |
| x | x | Section 3.5 | 10631(a) | Describe the land uses within the service area. | System Description | Section 7.3 |
| x | x | Section 4.2 | 10631(d)(1) | Quantify past, current, and projected water use, identifying the uses among water use sectors. | System Water Use | Section 7.4 |
| x | x | Section 4.2.4 | 10631(d)(3)(C) | Retail suppliers shall provide data to show the distribution loss standards were met. | System Water Use | Section 7.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(A) | In projected water use, include estimates of water savings from adopted codes, plans and other policies or laws. | System Water Use | Section 7.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(B) | Provide citations of codes, standards, ordinances, or plans used to make water use projections. | System Water Use | Section 7.4 |
| x | optional | Section 4.3.2.4 | 10631(d)(3)(A) | Report the distribution system water loss for each of the 5 years preceding the plan update. | System Water Use | Section 7.4 |
| x | optional | Section 4.4 | 10631.1(a) | Include projected water use needed for lower income housing projected in the service area of the supplier. | System Water Use | Section 7.4 |
| x | x | Section 4.5 | 10635(b) | Demands under climate change considerations must be included as part of the drought risk assessment. | System Water Use | Section 7.4 |
| x | | Chapter 5 | 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 | Section 7.5 |
| x | | Chapter 5 | 10608.24(a) | Retail suppliers shall meet their water use target by December 31, 2020. | Baselines and Targets | Section 7.5 |
| | x | Section 5.1 | 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 | N/A |
| x | | Section 5.2 | 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 7.5 |
| x | | Section 5.5 | 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 7.5 |
| x | | Section 5.5 and Appendix E | 10608.4 | Retail suppliers shall report on their compliance in meeting their water use targets. The data shall be reported using a standardized form in the SBX7-7 2020 Compliance Form. | Baselines and Targets | Section 7.5 |
| x | x | Sections 6.1 and 6.2 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought. | System Supplies | Section 7.7 |
| x | x | Sections 6.1 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought, *including changes in supply due to climate change.* | System Supplies | Section 7.7 |
| x | x | Section 6.1 | 10631(b)(2) | When multiple sources of water supply are identified, describe the management of each supply in relationship to other identified supplies. | System Supplies | Section 7.6 |

**Indio Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Section 6.1.1 | 10631(b)(3) | Describe measures taken to acquire and develop planned sources of water. | System Supplies | Section 7.6 |
| x | x | Section 6.2.8 | 10631(b) | Identify and quantify the existing and planned sources of water available for 2020, 2025, 2030, 2035, 2040 and optionally 2045. | System Supplies | Section 7.6 |
| x | x | Section 6.2 | 10631(b) | Indicate whether groundwater is an existing or planned source of water available to the supplier. | System Supplies | Section 7.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(A) | Indicate whether a groundwater sustainability plan or 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 7.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | Describe the groundwater basin. | System Supplies | Section 7.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | 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 7.6 |
| x | x | Section 6.2.2.1 | 10631(b)(4)(B) | For unadjudicated basins, indicate whether or not the department has identified the basin as a high or medium priority. Describe efforts by the supplier to coordinate with sustainability or groundwater agencies to achieve sustainable groundwater conditions. | System Supplies | Section 7.6 |
| x | x | Section 6.2.2.4 | 10631(b)(4)(C) | 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 7.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(D) | Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped. | System Supplies | Section 7.6 |
| x | x | Section 6.2.7 | 10631(c) | Describe the opportunities for exchanges or transfers of water on a short-term or long- term basis. | System Supplies | Section 7.6 |
| x | x | Section 6.2.5 | 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 7.6 |
| x | x | Section 6.2.5 | 10633(c) | Describe the recycled water currently being used in the supplier's service area. | System Supplies (Recycled Water) | Section 7.6 |
| x | x | Section 6.2.5 | 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 7.6 |
| x | x | Section 6.2.5 | 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 7.6 |
| x | x | Section 6.2.5 | 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 7.6 |
| x | x | Section 6.2.5 | 10633(g) | Provide a plan for optimizing the use of recycled water in the supplier's service area. | System Supplies (Recycled Water) | Section 7.6 |
| x | x | Section 6.2.6 | 10631(g) | Describe desalinated water project opportunities for long-term supply. | System Supplies | Section 7.6 |
| x | x | Section 6.2.5 | 10633(a) | Describe the wastewater collection and treatment systems in the supplier's service area with quantified amount of collection and treatment and the disposal methods. | System Supplies (Recycled Water) | Section 7.6 |
| x | x | Section 6.2.8, Section 6.3.7 | 10631(f) | 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 for a period of drought lasting 5 consecutive water years. | System Supplies | Section 7.6 |
| x | x | Section 6.4 and Appendix O | 10631.2(a) | The UWMP must include energy information, as stated in the code, that a supplier can readily obtain. | System Suppliers, Energy Intensity | Section 7.6 |
| x | x | Section 7.2 | 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 7.7 |
| x | x | Section 7.2.4 | 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 7.7 |
| x | x | Section 7.3 | 10635(a) | Service Reliability Assessment: Assess the water supply reliability during normal, dry, and a drought lasting five consecutive 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 7.7 |
| x | x | Section 7.3 | 10635(b) | Provide a drought risk assessment as part of information considered in developing the demand management measures and water supply projects. | Water Supply Reliability Assessment | Section 7.7 |
| x | x | Section 7.3 | 10635(b)(1) | Include a description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts 5 consecutive years. | Water Supply Reliability Assessment | Section 7.7 |
| x | x | Section 7.3 | 10635(b)(2) | Include a determination of the reliability of each source of supply under a variety of water shortage conditions. | Water Supply Reliability Assessment | Section 7.7 |
| x | x | Section 7.3 | 10635(b)(3) | Include a comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period. | Water Supply Reliability Assessment | Section 7.7 |
| x | x | Section 7.3 | 10635(b)(4) | Include considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria. | Water Supply Reliability Assessment | Section 7.7 |

**Indio Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 8 | 10632(a) | Provide a water shortage contingency plan (WSCP) with specified elements below. | Water Shortage Contingency Planning | WSCP |
| x | x | Chapter 8 | 10632(a)(1) | Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP | Water Shortage Contingency Planning | WSCP, Section 1 |
| x | x | Section 8.10 | 10632(a)(10) | Describe reevaluation and improvement procedures for monitoring and evaluation the water shortage contingency plan to ensure risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(A) | Provide the written decision-making process and other methods that the supplier will use each year to determine its water reliability. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(B) | Provide data and methodology to evaluate the supplier's water reliability for the current year and one dry year pursuant to factors in the code. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.3 | 10632(a)(3)(A) | Define six standard water shortage levels of 10, 20, 30, 40, 50 percent shortage and greater than 50 percent shortage. These levels shall be based on supply conditions, including percent reductions in supply, changes in groundwater levels, changes in surface elevation, or other conditions. The shortage levels shall also apply to a catastrophic interruption of supply. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.3 | 10632(a)(3)(B) | Suppliers with an existing water shortage contingency plan that uses different water shortage levels must cross reference their categories with the six standard categories. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.4 | 10632(a)(4)(A) | Suppliers with water shortage contingency plans that align with the defined shortage levels must specify locally appropriate supply augmentation actions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(B) | Specify locally appropriate demand reduction actions to adequately respond to shortages. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(C) | Specify locally appropriate operational changes. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(D) | Specify additional mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions are appropriate to local conditions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(E) | Estimate the extent to which the gap between supplies and demand will be reduced by implementation of the action. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4.6 | 10632.5 | The plan shall include a seismic risk assessment and mitigation plan. | Water Shortage Contingency Plan | WSCP, Section 4.6 |
| x | x | Section 8.5 | 10632(a)(5)(A) | Suppliers must describe that they will inform customers, the public and others regarding any current or predicted water shortages. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | x | Section 8.5 and 8.6 | 10632(a)(5)(B)<br>10632(a)(5)(C) | Suppliers must describe that they will inform customers, the public and others regarding any shortage response actions triggered or anticipated to be triggered and other relevant communications. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | | Section 8.6 | 10632(a)(6) | Retail supplier must describe how it will ensure compliance with and enforce provisions of the WSCP. | Water Shortage Contingency Planning | WSCP, Section 6 |
| x | | Section 8.7 | 10632(a)(7)(A) | Describe the legal authority that empowers the supplier to enforce shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(B) | Provide a statement that the supplier will declare a water shortage emergency Water Code Chapter 3. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(C) | Provide a statement that the supplier will coordinate with any city or county within which it provides water for the possible proclamation of a local emergency. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.8 | 10632(a)(8)(A) | Describe the potential revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | x | Section 8.8 | 10632(a)(8)(B) | Provide a description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.8 | 10632(a)(8)(C) | Retail suppliers must describe the cost of compliance with Water Code Chapter 3.3: Excessive Residential Water Use During Drought | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.9 | 10632(a)(9) | Retail suppliers must describe the monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.11 | 10632(b) | Analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas. | Water Shortage Contingency Planning | WSCP, Section 11 |
| x | x | Sections 8.12 and 10.4 | 10635(c) | 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 30 days after the submission of the plan to DWR. | Plan Adoption, Submittal, and Implementation | WSCP, Section 12 |
| x | x | Section 8.12 | 10632(c) | Make available the Water Shortage Contingency Plan to customers and any city or county where it provides water within 30 after adopted the plan. | Water Shortage Contingency Planning | WSCP, Section 12 |
| | x | Sections 9.1 and 9.3 | 10631(e)(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 | N/A |

**Indio Water Authority**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | | Sections 9.2 and 9.3 | 10631(e)(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 | Section 7.9 |
| x | | Chapter 10 | 10608.26(a) | Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets (recommended to discuss compliance). | Plan Adoption, Submittal, and Implementation | Section 7.10 |
| x | x | Section 10.2.1 | 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. Reported in Table 10-1. | Plan Adoption, Submittal, and Implementation | Section 7.10 |
| x | x | Section 10.4 | 10621(f) | Each urban water supplier shall update and submit its 2020 plan to the department by July 1, 2021. | Plan Adoption, Submittal, and Implementation | Section 7.10 |
| x | x | Sections 10.2.2, 10.3, and 10.5 | 10642 | Provide supporting documentation that the urban water supplier made the plan and contingency plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan and contingency plan. | Plan Adoption, Submittal, and Implementation | Section 7.10 |
| x | x | Section 10.2.2 | 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 | Section 7.10 |
| x | x | Section 10.3.2 | 10642 | Provide supporting documentation that the plan and contingency plan has been adopted as prepared or modified. | Plan Adoption, Submittal, and Implementation | Section 7.10 |
| x | x | Section 10.4 | 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 7.10 |
| x | x | Section 10.4 | 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 7.10 |
| x | x | Sections 10.4.1 and 10.4.2 | 10644(a)(2) | The plan, or amendments to the plan, submitted to the department shall be submitted electronically. | Plan Adoption, Submittal, and Implementation | Section 7.10 |
| x | x | Section 10.5 | 10645(a) | 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 7.10 |
| x | x | Section 10.5 | 10645(b) | Provide supporting documentation that, not later than 30 days after filing a copy of its water shortage contingency 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 7.10 |
| x | x | Section 10.6 | 10621(c) | If supplier is regulated by the Public Utilities Commission, include its plan and contingency plan as part of its general rate case filings. | Plan Adoption, Submittal, and Implementation | Section 7.10 |
| x | x | Section 10.7.2 | 10644(b) | If revised, submit a copy of the water shortage contingency plan to DWR within 30 days of adoption. | Plan Adoption, Submittal, and Implementation | Section 7.10 |

**Mission Springs Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 1 | 10615 | A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. | Introduction and Overview | Section 1.1 |
| x | x | Chapter 1 | 10630.5 | Each plan shall include a simple description of the supplier's plan including water availability, future requirements, a strategy for meeting needs, and other pertinent information. Additionally, a supplier may also choose to include a simple description at the beginning of each chapter. | Summary | Section 1.3 |
| x | x | Section 2.2 | 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 8.2 |
| x | x | Section 2.6 | 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 8.2 |
| x | x | Section 2.6.2 | 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 and contingency plan. | Plan Preparation | Section 8.2 |
| x | | Section 2.6, Section 6.1 | 10631(h) | 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 8.2 |
| | x | Section 2.6 | 10631(h) | 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 | N/A |
| x | x | Section 3.1 | 10631(a) | Describe the water supplier service area. | System Description | Section 8.3 |
| x | x | Section 3.3 | 10631(a) | Describe the climate of the service area of the supplier. | System Description | Section 8.3 |
| x | x | Section 3.4 | 10631(a) | Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045. | System Description | Section 8.3 |
| x | x | Section 3.4.2 | 10631(a) | Describe other social, economic, and demographic factors affecting the supplier's water management planning. | System Description | Section 8.3 |
| x | x | Sections 3.4 and 5.4 | 10631(a) | Indicate the current population of the service area. | System Description and Baselines and Targets | Section 8.3 |
| x | x | Section 3.5 | 10631(a) | Describe the land uses within the service area. | System Description | Section 8.3 |
| x | x | Section 4.2 | 10631(d)(1) | Quantify past, current, and projected water use, identifying the uses among water use sectors. | System Water Use | Section 8.4 |
| x | x | Section 4.2.4 | 10631(d)(3)(C) | Retail suppliers shall provide data to show the distribution loss standards were met. | System Water Use | Section 8.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(A) | In projected water use, include estimates of water savings from adopted codes, plans and other policies or laws. | System Water Use | Section 8.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(B) | Provide citations of codes, standards, ordinances, or plans used to make water use projections. | System Water Use | Section 8.4 |
| x | optional | Section 4.3.2.4 | 10631(d)(3)(A) | Report the distribution system water loss for each of the 5 years preceding the plan update. | System Water Use | Section 8.4 |
| x | optional | Section 4.4 | 10631.1(a) | Include projected water use needed for lower income housing projected in the service area of the supplier. | System Water Use | Section 8.4 |
| x | x | Section 4.5 | 10635(b) | Demands under climate change considerations must be included as part of the drought risk assessment. | System Water Use | Section 8.4 |
| x | | Chapter 5 | 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 | Section 8.5 |
| x | | Chapter 5 | 10608.24(a) | Retail suppliers shall meet their water use target by December 31, 2020. | Baselines and Targets | Section 8.5 |
| | x | Section 5.1 | 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 | N/A |
| x | | Section 5.2 | 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 8.5 |
| x | | Section 5.5 | 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 8.5 |
| x | | Section 5.5 and Appendix E | 10608.4 | Retail suppliers shall report on their compliance in meeting their water use targets. The data shall be reported using a standardized form in the SBX7-7 2020 Compliance Form. | Baselines and Targets | Section 8.5 |
| x | x | Sections 6.1 and 6.2 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought. | System Supplies | Section 8.7 |
| x | x | Sections 6.1 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought, *including changes in supply due to climate change.* | System Supplies | Section 8.7 |
| x | x | Section 6.1 | 10631(b)(2) | When multiple sources of water supply are identified, describe the management of each supply in relationship to other identified supplies. | System Supplies | Section 8.6 |

**Mission Springs Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Section 6.1.1 | 10631(b)(3) | Describe measures taken to acquire and develop planned sources of water. | System Supplies | Section 8.6 |
| x | x | Section 6.2.8 | 10631(b) | Identify and quantify the existing and planned sources of water available for 2020, 2025, 2030, 2035, 2040 and optionally 2045. | System Supplies | Section 8.6 |
| x | x | Section 6.2 | 10631(b) | Indicate whether groundwater is an existing or planned source of water available to the supplier. | System Supplies | Section 8.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(A) | Indicate whether a groundwater sustainability plan or 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 8.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | Describe the groundwater basin. | System Supplies | Section 8.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | 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 8.6 |
| x | x | Section 6.2.2.1 | 10631(b)(4)(B) | For unadjudicated basins, indicate whether or not the department has identified the basin as a high or medium priority. Describe efforts by the supplier to coordinate with sustainability or groundwater agencies to achieve sustainable groundwater conditions. | System Supplies | Section 8.6 |
| x | x | Section 6.2.2.4 | 10631(b)(4)(C) | 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 8.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(D) | Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped. | System Supplies | Section 8.6 |
| x | x | Section 6.2.7 | 10631(c) | Describe the opportunities for exchanges or transfers of water on a short-term or long- term basis. | System Supplies | Section 8.6 |
| x | x | Section 6.2.5 | 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 8.6 |
| x | x | Section 6.2.5 | 10633(c) | Describe the recycled water currently being used in the supplier's service area. | System Supplies (Recycled Water) | Section 8.6 |
| x | x | Section 6.2.5 | 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 8.6 |
| x | x | Section 6.2.5 | 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 8.6 |
| x | x | Section 6.2.5 | 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 8.6 |
| x | x | Section 6.2.5 | 10633(g) | Provide a plan for optimizing the use of recycled water in the supplier's service area. | System Supplies (Recycled Water) | Section 8.6 |
| x | x | Section 6.2.6 | 10631(g) | Describe desalinated water project opportunities for long-term supply. | System Supplies | Section 8.6 |
| x | x | Section 6.2.5 | 10633(a) | Describe the wastewater collection and treatment systems in the supplier's service area with quantified amount of collection and treatment and the disposal methods. | System Supplies (Recycled Water) | Section 8.6 |
| x | x | Section 6.2.8, Section 6.3.7 | 10631(f) | 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 for a period of drought lasting 5 consecutive water years. | System Supplies | Section 8.6 |
| x | x | Section 6.4 and Appendix O | 10631.2(a) | The UWMP must include energy information, as stated in the code, that a supplier can readily obtain. | System Suppliers, Energy Intensity | Section 8.6 |
| x | x | Section 7.2 | 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 8.7 |
| x | x | Section 7.2.4 | 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 8.7 |
| x | x | Section 7.3 | 10635(a) | Service Reliability Assessment: Assess the water supply reliability during normal, dry, and a drought lasting five consecutive 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 8.7 |
| x | x | Section 7.3 | 10635(b) | Provide a drought risk assessment as part of information considered in developing the demand management measures and water supply projects. | Water Supply Reliability Assessment | Section 8.7 |
| x | x | Section 7.3 | 10635(b)(1) | Include a description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts 5 consecutive years. | Water Supply Reliability Assessment | Section 8.7 |
| x | x | Section 7.3 | 10635(b)(2) | Include a determination of the reliability of each source of supply under a variety of water shortage conditions. | Water Supply Reliability Assessment | Section 8.7 |
| x | x | Section 7.3 | 10635(b)(3) | Include a comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period. | Water Supply Reliability Assessment | Section 8.7 |
| x | x | Section 7.3 | 10635(b)(4) | Include considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria. | Water Supply Reliability Assessment | Section 8.7 |

**Mission Springs Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 8 | 10632(a) | Provide a water shortage contingency plan (WSCP) with specified elements below. | Water Shortage Contingency Planning | WSCP |
| x | x | Chapter 8 | 10632(a)(1) | Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP | Water Shortage Contingency Planning | WSCP, Section 1 |
| x | x | Section 8.10 | 10632(a)(10) | Describe reevaluation and improvement procedures for monitoring and evaluation the water shortage contingency plan to ensure risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(A) | Provide the written decision-making process and other methods that the supplier will use each year to determine its water reliability. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(B) | Provide data and methodology to evaluate the supplier's water reliability for the current year and one dry year pursuant to factors in the code. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.3 | 10632(a)(3)(A) | Define six standard water shortage levels of 10, 20, 30, 40, 50 percent shortage and greater than 50 percent shortage. These levels shall be based on supply conditions, including percent reductions in supply, changes in groundwater levels, changes in surface elevation, or other conditions. The shortage levels shall also apply to a catastrophic interruption of supply. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.3 | 10632(a)(3)(B) | Suppliers with an existing water shortage contingency plan that uses different water shortage levels must cross reference their categories with the six standard categories. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.4 | 10632(a)(4)(A) | Suppliers with water shortage contingency plans that align with the defined shortage levels must specify locally appropriate supply augmentation actions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(B) | Specify locally appropriate demand reduction actions to adequately respond to shortages. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(C) | Specify locally appropriate operational changes. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(D) | Specify additional mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions are appropriate to local conditions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(E) | Estimate the extent to which the gap between supplies and demand will be reduced by implementation of the action. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4.6 | 10632.5 | The plan shall include a seismic risk assessment and mitigation plan. | Water Shortage Contingency Plan | WSCP, Section 4.6 |
| x | x | Section 8.5 | 10632(a)(5)(A) | Suppliers must describe that they will inform customers, the public and others regarding any current or predicted water shortages. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | x | Section 8.5 and 8.6 | 10632(a)(5)(B)<br>10632(a)(5)(C) | Suppliers must describe that they will inform customers, the public and others regarding any shortage response actions triggered or anticipated to be triggered and other relevant communications. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | | Section 8.6 | 10632(a)(6) | Retail supplier must describe how it will ensure compliance with and enforce provisions of the WSCP. | Water Shortage Contingency Planning | WSCP, Section 6 |
| x | | Section 8.7 | 10632(a)(7)(A) | Describe the legal authority that empowers the supplier to enforce shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(B) | Provide a statement that the supplier will declare a water shortage emergency Water Code Chapter 3. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(C) | Provide a statement that the supplier will coordinate with any city or county within which it provides water for the possible proclamation of a local emergency. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.8 | 10632(a)(8)(A) | Describe the potential revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | x | Section 8.8 | 10632(a)(8)(B) | Provide a description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.8 | 10632(a)(8)(C) | Retail suppliers must describe the cost of compliance with Water Code Chapter 3.3: Excessive Residential Water Use During Drought | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.9 | 10632(a)(9) | Retail suppliers must describe the monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.11 | 10632(b) | Analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas. | Water Shortage Contingency Planning | WSCP, Section 11 |
| x | x | Sections 8.12 and 10.4 | 10635(c) | 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 30 days after the submission of the plan to DWR. | Plan Adoption, Submittal, and Implementation | WSCP, Section 12 |
| x | x | Section 8.12 | 10632(c) | Make available the Water Shortage Contingency Plan to customers and any city or county where it provides water within 30 after adopted the plan. | Water Shortage Contingency Planning | WSCP, Section 12 |
| | x | Sections 9.1 and 9.3 | 10631(e)(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 | N/A |

**Mission Springs Water District**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | | Sections 9.2 and 9.3 | 10631(e)(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 | Section 8.9 |
| x | | Chapter 10 | 10608.26(a) | Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets (recommended to discuss compliance). | Plan Adoption, Submittal, and Implementation | Section 8.10 |
| x | x | Section 10.2.1 | 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. Reported in Table 10-1. | Plan Adoption, Submittal, and Implementation | Section 8.10 |
| x | x | Section 10.4 | 10621(f) | Each urban water supplier shall update and submit its 2020 plan to the department by July 1, 2021. | Plan Adoption, Submittal, and Implementation | Section 8.10 |
| x | x | Sections 10.2.2, 10.3, and 10.5 | 10642 | Provide supporting documentation that the urban water supplier made the plan and contingency plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan and contingency plan. | Plan Adoption, Submittal, and Implementation | Section 8.10 |
| x | x | Section 10.2.2 | 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 | Section 8.10 |
| x | x | Section 10.3.2 | 10642 | Provide supporting documentation that the plan and contingency plan has been adopted as prepared or modified. | Plan Adoption, Submittal, and Implementation | Section 8.10 |
| x | x | Section 10.4 | 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 8.10 |
| x | x | Section 10.4 | 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 8.10 |
| x | x | Sections 10.4.1 and 10.4.2 | 10644(a)(2) | The plan, or amendments to the plan, submitted to the department shall be submitted electronically. | Plan Adoption, Submittal, and Implementation | Section 8.10 |
| x | x | Section 10.5 | 10645(a) | 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 8.10 |
| x | x | Section 10.5 | 10645(b) | Provide supporting documentation that, not later than 30 days after filing a copy of its water shortage contingency 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 8.10 |
| x | x | Section 10.6 | 10621(c) | If supplier is regulated by the Public Utilities Commission, include its plan and contingency plan as part of its general rate case filings. | Plan Adoption, Submittal, and Implementation | Section 8.10 |
| x | x | Section 10.7.2 | 10644(b) | If revised, submit a copy of the water shortage contingency plan to DWR within 30 days of adoption. | Plan Adoption, Submittal, and Implementation | Section 8.10 |

**Myoma Dunes Mutual Water Company**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 1 | 10615 | A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. | Introduction and Overview | Section 1.1 |
| x | x | Chapter 1 | 10630.5 | Each plan shall include a simple description of the supplier's plan including water availability, future requirements, a strategy for meeting needs, and other pertinent information. Additionally, a supplier may also choose to include a simple description at the beginning of each chapter. | Summary | Section 1.3 |
| x | x | Section 2.2 | 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 9.2 |
| x | x | Section 2.6 | 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 9.2 |
| x | x | Section 2.6.2 | 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 and contingency plan. | Plan Preparation | Section 9.2 |
| x | | Section 2.6, Section 6.1 | 10631(h) | 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 9.2 |
| | x | Section 2.6 | 10631(h) | 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 | N/A |
| x | x | Section 3.1 | 10631(a) | Describe the water supplier service area. | System Description | Section 9.3 |
| x | x | Section 3.3 | 10631(a) | Describe the climate of the service area of the supplier. | System Description | Section 9.3 |
| x | x | Section 3.4 | 10631(a) | Provide population projections for 2025, 2030, 2035, 2040 and optionally 2045. | System Description | Section 9.3 |
| x | x | Section 3.4.2 | 10631(a) | Describe other social, economic, and demographic factors affecting the supplier's water management planning. | System Description | Section 9.3 |
| x | x | Sections 3.4 and 5.4 | 10631(a) | Indicate the current population of the service area. | System Description and Baselines and Targets | Section 9.3 |
| x | x | Section 3.5 | 10631(a) | Describe the land uses within the service area. | System Description | Section 9.3 |
| x | x | Section 4.2 | 10631(d)(1) | Quantify past, current, and projected water use, identifying the uses among water use sectors. | System Water Use | Section 9.4 |
| x | x | Section 4.2.4 | 10631(d)(3)(C) | Retail suppliers shall provide data to show the distribution loss standards were met. | System Water Use | Section 9.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(A) | In projected water use, include estimates of water savings from adopted codes, plans and other policies or laws. | System Water Use | Section 9.4 |
| x | x | Section 4.2.6 | 10631(d)(4)(B) | Provide citations of codes, standards, ordinances, or plans used to make water use projections. | System Water Use | Section 9.4 |
| x | optional | Section 4.3.2.4 | 10631(d)(3)(A) | Report the distribution system water loss for each of the 5 years preceding the plan update. | System Water Use | Section 9.4 |
| x | optional | Section 4.4 | 10631.1(a) | Include projected water use needed for lower income housing projected in the service area of the supplier. | System Water Use | Section 9.4 |
| x | x | Section 4.5 | 10635(b) | Demands under climate change considerations must be included as part of the drought risk assessment. | System Water Use | Section 9.4 |
| x | | Chapter 5 | 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 | Section 9.5 |
| x | | Chapter 5 | 10608.24(a) | Retail suppliers shall meet their water use target by December 31, 2020. | Baselines and Targets | Section 9.5 |
| | x | Section 5.1 | 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 | N/A |
| x | | Section 5.2 | 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 9.5 |
| x | | Section 5.5 | 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 9.5 |
| x | | Section 5.5 and Appendix E | 10608.4 | Retail suppliers shall report on their compliance in meeting their water use targets. The data shall be reported using a standardized form in the SBX7-7 2020 Compliance Form. | Baselines and Targets | Section 9.5 |
| x | x | Sections 6.1 and 6.2 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought. | System Supplies | Section 9.7 |
| x | x | Sections 6.1 | 10631(b)(1) | Provide a discussion of anticipated supply availability under a normal, single dry year, and a drought lasting five years, as well as more frequent and severe periods of drought, *including changes in supply due to climate change.* | System Supplies | Section 9.7 |
| x | x | Section 6.1 | 10631(b)(2) | When multiple sources of water supply are identified, describe the management of each supply in relationship to other identified supplies. | System Supplies | Section 9.6 |

**Myoma Dunes Mutual Water Company**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Section 6.1.1 | 10631(b)(3) | Describe measures taken to acquire and develop planned sources of water. | System Supplies | Section 9.6 |
| x | x | Section 6.2.8 | 10631(b) | Identify and quantify the existing and planned sources of water available for 2020, 2025, 2030, 2035, 2040 and optionally 2045. | System Supplies | Section 9.6 |
| x | x | Section 6.2 | 10631(b) | Indicate whether groundwater is an existing or planned source of water available to the supplier. | System Supplies | Section 9.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(A) | Indicate whether a groundwater sustainability plan or 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 9.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | Describe the groundwater basin. | System Supplies | Section 9.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(B) | 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 9.6 |
| x | x | Section 6.2.2.1 | 10631(b)(4)(B) | For unadjudicated basins, indicate whether or not the department has identified the basin as a high or medium priority. Describe efforts by the supplier to coordinate with sustainability or groundwater agencies to achieve sustainable groundwater conditions. | System Supplies | Section 9.6 |
| x | x | Section 6.2.2.4 | 10631(b)(4)(C) | 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 9.6 |
| x | x | Section 6.2.2 | 10631(b)(4)(D) | Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped. | System Supplies | Section 9.6 |
| x | x | Section 6.2.7 | 10631(c) | Describe the opportunities for exchanges or transfers of water on a short-term or long- term basis. | System Supplies | Section 9.6 |
| x | x | Section 6.2.5 | 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 9.6 |
| x | x | Section 6.2.5 | 10633(c) | Describe the recycled water currently being used in the supplier's service area. | System Supplies (Recycled Water) | Section 9.6 |
| x | x | Section 6.2.5 | 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 9.6 |
| x | x | Section 6.2.5 | 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 9.6 |
| x | x | Section 6.2.5 | 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 9.6 |
| x | x | Section 6.2.5 | 10633(g) | Provide a plan for optimizing the use of recycled water in the supplier's service area. | System Supplies (Recycled Water) | Section 9.6 |
| x | x | Section 6.2.6 | 10631(g) | Describe desalinated water project opportunities for long-term supply. | System Supplies | Section 9.6 |
| x | x | Section 6.2.5 | 10633(a) | Describe the wastewater collection and treatment systems in the supplier's service area with quantified amount of collection and treatment and the disposal methods. | System Supplies (Recycled Water) | Section 9.6 |
| x | x | Section 6.2.8, Section 6.3.7 | 10631(f) | 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 for a period of drought lasting 5 consecutive water years. | System Supplies | Section 9.6 |
| x | x | Section 6.4 and Appendix O | 10631.2(a) | The UWMP must include energy information, as stated in the code, that a supplier can readily obtain. | System Suppliers, Energy Intensity | Section 9.6 |
| x | x | Section 7.2 | 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 9.7 |
| x | x | Section 7.2.4 | 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 9.7 |
| x | x | Section 7.3 | 10635(a) | Service Reliability Assessment: Assess the water supply reliability during normal, dry, and a drought lasting five consecutive 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 9.7 |
| x | x | Section 7.3 | 10635(b) | Provide a drought risk assessment as part of information considered in developing the demand management measures and water supply projects. | Water Supply Reliability Assessment | Section 9.7 |
| x | x | Section 7.3 | 10635(b)(1) | Include a description of the data, methodology, and basis for one or more supply shortage conditions that are necessary to conduct a drought risk assessment for a drought period that lasts 5 consecutive years. | Water Supply Reliability Assessment | Section 9.7 |
| x | x | Section 7.3 | 10635(b)(2) | Include a determination of the reliability of each source of supply under a variety of water shortage conditions. | Water Supply Reliability Assessment | Section 9.7 |
| x | x | Section 7.3 | 10635(b)(3) | Include a comparison of the total water supply sources available to the water supplier with the total projected water use for the drought period. | Water Supply Reliability Assessment | Section 9.7 |
| x | x | Section 7.3 | 10635(b)(4) | Include considerations of the historical drought hydrology, plausible changes on projected supplies and demands under climate change conditions, anticipated regulatory changes, and other locally applicable criteria. | Water Supply Reliability Assessment | Section 9.7 |

**Myoma Dunes Mutual Water Company**

| Retail | Wholesale | 2020 Guidebook Location | Water Code Section | Summary as Applies to UWMP | Subject | 2020 UWMP Location (Optional Column for Agency Review Use) |
|---|---|---|---|---|---|---|
| x | x | Chapter 8 | 10632(a) | Provide a water shortage contingency plan (WSCP) with specified elements below. | Water Shortage Contingency Planning | WSCP |
| x | x | Chapter 8 | 10632(a)(1) | Provide the analysis of water supply reliability (from Chapter 7 of Guidebook) in the WSCP | Water Shortage Contingency Planning | WSCP, Section 1 |
| x | x | Section 8.10 | 10632(a)(10) | Describe reevaluation and improvement procedures for monitoring and evaluation the water shortage contingency plan to ensure risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(A) | Provide the written decision-making process and other methods that the supplier will use each year to determine its water reliability. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.2 | 10632(a)(2)(B) | Provide data and methodology to evaluate the supplier's water reliability for the current year and one dry year pursuant to factors in the code. | Water Shortage Contingency Planning | WSCP, Section 2 |
| x | x | Section 8.3 | 10632(a)(3)(A) | Define six standard water shortage levels of 10, 20, 30, 40, 50 percent shortage and greater than 50 percent shortage. These levels shall be based on supply conditions, including percent reductions in supply, changes in groundwater levels, changes in surface elevation, or other conditions. The shortage levels shall also apply to a catastrophic interruption of supply. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.3 | 10632(a)(3)(B) | Suppliers with an existing water shortage contingency plan that uses different water shortage levels must cross reference their categories with the six standard categories. | Water Shortage Contingency Planning | WSCP, Section 3 |
| x | x | Section 8.4 | 10632(a)(4)(A) | Suppliers with water shortage contingency plans that align with the defined shortage levels must specify locally appropriate supply augmentation actions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(B) | Specify locally appropriate demand reduction actions to adequately respond to shortages. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(C) | Specify locally appropriate operational changes. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(D) | Specify additional mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions are appropriate to local conditions. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4 | 10632(a)(4)(E) | Estimate the extent to which the gap between supplies and demand will be reduced by implementation of the action. | Water Shortage Contingency Planning | WSCP, Section 4 |
| x | x | Section 8.4.6 | 10632.5 | The plan shall include a seismic risk assessment and mitigation plan. | Water Shortage Contingency Plan | WSCP, Section 4.6 |
| x | x | Section 8.5 | 10632(a)(5)(A) | Suppliers must describe that they will inform customers, the public and others regarding any current or predicted water shortages. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | x | Section 8.5 and 8.6 | 10632(a)(5)(B)<br>10632(a)(5)(C) | Suppliers must describe that they will inform customers, the public and others regarding any shortage response actions triggered or anticipated to be triggered and other relevant communications. | Water Shortage Contingency Planning | WSCP, Section 5 |
| x | | Section 8.6 | 10632(a)(6) | Retail supplier must describe how it will ensure compliance with and enforce provisions of the WSCP. | Water Shortage Contingency Planning | WSCP, Section 6 |
| x | | Section 8.7 | 10632(a)(7)(A) | Describe the legal authority that empowers the supplier to enforce shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(B) | Provide a statement that the supplier will declare a water shortage emergency Water Code Chapter 3. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.7 | 10632(a)(7)(C) | Provide a statement that the supplier will coordinate with any city or county within which it provides water for the possible proclamation of a local emergency. | Water Shortage Contingency Planning | WSCP, Section 7 |
| x | x | Section 8.8 | 10632(a)(8)(A) | Describe the potential revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | x | Section 8.8 | 10632(a)(8)(B) | Provide a description of mitigation actions needed to address revenue reductions and expense increases associated with activated shortage response actions. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.8 | 10632(a)(8)(C) | Retail suppliers must describe the cost of compliance with Water Code Chapter 3.3: Excessive Residential Water Use During Drought | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.9 | 10632(a)(9) | Retail suppliers must describe the monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance. | Water Shortage Contingency Planning | WSCP, Section 8 |
| x | | Section 8.11 | 10632(b) | Analyze and define water features that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas. | Water Shortage Contingency Planning | WSCP, Section 11 |
| x | x | Sections 8.12 and 10.4 | 10635(c) | 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 30 days after the submission of the plan to DWR. | Plan Adoption, Submittal, and Implementation | WSCP, Section 12 |
| x | x | Section 8.12 | 10632(c) | Make available the Water Shortage Contingency Plan to customers and any city or county where it provides water within 30 after adopted the plan. | Water Shortage Contingency Planning | WSCP, Section 12 |
| | x | Sections 9.1 and 9.3 | 10631(e)(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 | N/A |

**Myoma Dunes Mutual Water Company**

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|---|---|---|---|---|---|---|
| x | | Sections 9.2 and 9.3 | 10631(e)(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 | Section 9.9 |
| x | | Chapter 10 | 10608.26(a) | Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets (recommended to discuss compliance). | Plan Adoption, Submittal, and Implementation | Section 9.10 |
| x | x | Section 10.2.1 | 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. Reported in Table 10-1. | Plan Adoption, Submittal, and Implementation | Section 9.10 |
| x | x | Section 10.4 | 10621(f) | Each urban water supplier shall update and submit its 2020 plan to the department by July 1, 2021. | Plan Adoption, Submittal, and Implementation | Section 9.10 |
| x | x | Sections 10.2.2, 10.3, and 10.5 | 10642 | Provide supporting documentation that the urban water supplier made the plan and contingency plan available for public inspection, published notice of the public hearing, and held a public hearing about the plan and contingency plan. | Plan Adoption, Submittal, and Implementation | Section 9.10 |
| x | x | Section 10.2.2 | 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 | Section 9.10 |
| x | x | Section 10.3.2 | 10642 | Provide supporting documentation that the plan and contingency plan has been adopted as prepared or modified. | Plan Adoption, Submittal, and Implementation | Section 9.10 |
| x | x | Section 10.4 | 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 9.10 |
| x | x | Section 10.4 | 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 9.10 |
| x | x | Sections 10.4.1 and 10.4.2 | 10644(a)(2) | The plan, or amendments to the plan, submitted to the department shall be submitted electronically. | Plan Adoption, Submittal, and Implementation | Section 9.10 |
| x | x | Section 10.5 | 10645(a) | 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 9.10 |
| x | x | Section 10.5 | 10645(b) | Provide supporting documentation that, not later than 30 days after filing a copy of its water shortage contingency 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 9.10 |
| x | x | Section 10.6 | 10621(c) | If supplier is regulated by the Public Utilities Commission, include its plan and contingency plan as part of its general rate case filings. | Plan Adoption, Submittal, and Implementation | Section 9.10 |
| x | x | Section 10.7.2 | 10644(b) | If revised, submit a copy of the water shortage contingency plan to DWR within 30 days of adoption. | Plan Adoption, Submittal, and Implementation | Section 9.10 |